



Test Plan Execution Report (on specific build)

Test Project: VISIONSDK

Test Plan: TDA3xx_Functional_Test_Plan

Build: REL_3_1

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2017 (c) Testlink Community

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Test Project: VISIONSDK

Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

Test Plan: TDA3xx_Functional_Test_Plan

TDA3xx Functional Test Plan

Will cover all functional test for tda3xx-evm

1.1.Test Suite : Network

1.1.1.Test Suite : TCP/IP

Test Case VISIONSDK-100: NW_Ctrl_cmd_echo

Summary:

Network Control Command "echo"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM Open command prompt in host PC	EVM boots without any error and usecase menu displayed		
2	Execute "echo" command using network_ctrl.exe #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-101: NW_Ctrl_cmd_sys_reset

Summary:

Network Control Command "sys_reset"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM Open command prompt in host PC	EVM boots without any error and usecase menu displayed		
2	Execute "sys_reset" command using network_ctrl.exe #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581

Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-102: NW_Ctrl_cmd_qspi_wr

Summary:

Network Control Command "qspi_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM Open command prompt in host PC	EVM boots without any error and usecase menu displayed		
2	Execute "qspi_wr" command using network_ctrl.exe #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-103: NW_Ctrl_cmd_mem_rd

Summary:

Network Control Command "mem_rd"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and		

usecase menu displayed

Open command prompt in host PC

2

Execute "mem_rd" command using network_ctrl.exe

EVM should not hang, and network command should work according to command on target side

#network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-104: NW_Ctrl_cmd_mem_wr**

Summary:

Network Control Command "mem_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
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1	Boot EVM	EVM boots without any error and usecase menu displayed		
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Open command prompt in host PC

2	Execute "mem_wr" command using network_ctrl.exe	EVM should not hang, and network command should work according to command on target side		
	#network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>			

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**

Execution duration

(sec):

Test Case VISIONSDK-105: NW_Ctrl_cmd_mem_save

Summary:

Network Control Command "mem_save"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM Open command prompt in host PC	EVM boots without any error and usecase menu displayed		
2	Execute "mem_save" command using network_ctrl.exe #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-106: NW_Rx_Display**

Summary:

Network Rx Display UC

Input : RAW frames

Output : HDMI 1080P

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
----	---------------	-------------------	------------------	-------------------

- | | | |
|---|--|--|
| 1 | Boot EVM | EVM boots without any error and usecase menu displayed |
| 2 | Run "Network RX + Display" UC under Network UCs | UC should run without any issues |
| 3 | Open command prompt in host PC & Send RAW frames to target using network_tx.exe
network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] -files <CH0 file> <CH1 file> | EVM should not hang, and network command should work according to command on target side |

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Failed**Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-109: SingleCam_Capture_NW_Tx

Summary:

1 Channel capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues		
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] -files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side		
Execution type:		Manual		
Estimated exec. duration (sec):				
Priority:		Medium		
Execution Details				
Build		REL_3_1		

Tester x0246581
 Execution Result: **Failed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-110: MultiCam_Capture_NW_Tx

Summary:

4 Channel VIP capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Run "4CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues		
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] -files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

1.1.2.Test Suite : TFDTP

Test Case VISIONSDK-234: NW_Rx_Display_TFDTP

Summary:

Network Rx Display UC using TFDTP

Input : RAW frames

Output : HDMI 1080P

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Run "Network RX + Display" UC under Network UCs	UC should run without any issues		
3	Select TFDTP	TFDTP should be selected		
4	Open command prompt in host PC & Send RAW frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] -files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Failed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-237: SingleCam_Capture_NW_Tx_TFDTP

Summary:

Single Channel capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		

- | | | |
|---|---|---|
| 2 | Run "1CH VIP Capture + Network TX" UC | UC should run without any issues |
| 3 | Select TFDTP | TFDTP should be selected |
| 4 | Open command prompt in host PC &
Recieve RAW frames from target using
network_rx.exe
network_rx --host_ip <ipaddr> --target_ip
<ipaddr> [--port <server port> --usetfdtp --
verbose --no_loop --delay <delay in secs>] -
-files <CH0 file> <CH1 file> | EVM should not hang,
and network command
should work according to
command on target side |

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-238: MultiCam_Capture_NW_Tx_TFDTP

Summary:

4 Channel VIP capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Run "4CH VIP Capture + Network TX" UC	UC should run without any issues		
3	Select TFDTP	TFDTP should be selected		
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp -- verbose --no_loop --delay <delay in secs>] - -files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

1.2.Test Suite : FastBoot

Test Case VISIONSDK-118: Fast_Boot_AR140_Sensor_10inch_LCD

Summary:

Fast Boot UC - 1CH ISS Capture + ISP + LDC + Obj detect + Display

Capture - AR140 sensor

Display - 10 inch LCD

Binaries - TDA3xx FastBoot QSPI Binaries

Preconditions:

Verify I2C to run at 400KHz

Binaries should be built with FAST_BOOT_INCLUDE=yes

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Follow UserGuide & Flash FastBoot QSPI Binaries on TDA3xx	Flashing should be successfull		
2	Boot EVM	1. Display should flash up with preview in < 1 sec 2. Usecase should switch to Object detect algorithm and Pedestrian / Traffic signs detection should start as soon as they are in field of view after boot up 3. You should see boot time printed on the LCD 4. Display must come up and no buffer drops should be observed		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Failed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-119: Fast_Boot_AR140_Sensor_10inch_LCD_RTI

Summary:

Fast Boot UC - 1CH ISS Capture + ISP + LDC + Obj detect + Display

Capture - AR140 sensor

Display - 10 inch LCD

Binaries - TDA3xx FastBoot QSPI Binaries

Preconditions:

Verify I2C to run at 400KHz

Verify RTI is enabled in the Build

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Follow UserGuide & Flash FastBoot QSPI Binaries on TDA3xx	Flashing should be successfull		
2	Boot EVM	1. Display should flash up with preview in < 1 sec 2. Usecase should switch to Object detect algorithm and Pedestrian / Traffic signs detection should start as soon as they are in field of view after boot up 3. You should see boot time printed on the LCD 4. Display must come up and no buffer drops should be observed		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Blocked			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-120: Fast_Boot_AR140_Sensor_10inch_LCD_Performance

Summary:

Fast Boot UC - 1CH ISS Capture + ISP + LDC + Obj detect + Display

Capture - AR140 sensor

Display - 10 inch LCD

Binaries - TDA3xx FastBoot QSPI Binaries

Preconditions:

Verify I2C to run at 400KHz

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Follow UserGuide & Flash FastBoot QSPI Binaries on TDA3xx	Flashing should be successfull		
2	Boot EVM	1. Display should flash up with preview in < 1		

sec

2. Usecase should switch to Object detect algorithm and Pedestrian / Traffic signs detection should start as soon as they are in field of view after boot up
3. You should see boot time printed on the LCD
4. Display must come up and no buffer drops should be observed

Check Performance
stats for

3

1. SBL time
2. Sensor initialization time with I2C 400 KHz
3. Time take by Framework
4. Power On Reset to Display Time
5. Power On to reset to Object Detect
6. Low power load

Performance stats should match with datasheet of
release binaries

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Blocked**

Execution Mode: **Manual**

Execution duration
(sec):

1.3.Test Suite : SRV

1.3.1.Test Suite : VIP_SRV

1.3.1.1.Test Suite : 2D_SRV

Test Case VISIONSDK-124: VIP_2D_SRV_OV10635_913deser

Summary:

VIP 2D SRV UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS_2D.BIN

Run SRV calibration to generate PERSMAT.BIN if required

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS_2D.BIN

Run SRV calibration to generate LUT.BIN if required

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635		
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)		
2	Run "4CH VIP Capture + Surround View (DSP) + Display (HDMI)" UC	Display must come up and no buffer drops should be observed		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-146: VIP_2D_SRV_OV10635_913deser_without_TDAXX_Folder

Summary:

VIP 2D SRV UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be OV10635 & Display device as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)		
2	Run "4CH VIP Capture + Surround View (DSP) + Display (HDMI)" UC	Display must come up and no buffer drops should be observe		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

1.3.2.Test Suite : CAL_SRV

1.3.2.1.Test Suite : 2D_SRV

Test Case VISIONSDK-128: ISS_2D_SRV_960/964deser

Summary:

ISS 2D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output : HDMI 1080P

Binaries: 512MB & 128MB

Preconditions:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as	Capture Source should be		

<p>"OV10640 Sensor for SV - IMI (TDA3x ONLY)"</p> <p>or</p> <p>"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"</p> <p>& Display Output as HDMI 1080P</p> <p>Run "4CH ISS capture + ISS ISP + Simcop + Surround View (DSP1) + Display" UC</p>	<p>OV10640 Sensor for SV - IMI (TDA3x ONLY) or</p> <p>AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)</p> <p>depending upon the hardware connected & selected by user</p> <p>& Display device as HDMI 1080P</p> <p>Display must come up and no buffer drops should be observe</p>
--	---

2

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-130: ISS_2D_SRV_960/964deser_AE_AWB

Summary:

ISS 2D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	"OV10640 Sensor for SV - IMI (TDA3x ONLY)"	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	or			

	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	depending upon the hardware connected & selected by user
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 1 PASS WDR	Selected ISS settings will be saved
3	Run "4CH ISS capture + ISS ISP + Simcop + Surround View (DSP1) + Display" UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low.

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-148: ISS_2D_SRV_960/964deser_without_TDA3X_Folder

Summary:

ISS 2D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer
 or OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA3x folder not present in SD card

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or	Capture Source should be OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & selected by user		

2 "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display device as HDMI 1080P

& Display Output as HDMI 1080P
Run "4CH ISS capture + ISS ISP + Simcop + Surround View (DSP1) + Display" UC Display must come up and no buffer drops should be observe

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.3.2.2.Test Suite : 3D_SRV**Test Case VISIONSDK-131: ISS_3D_SRV_960/964deser**

Summary:

ISS 3D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer
or OV10635 with 964 deserializer

Output : HDMI 1080P

Binaries: 512MB & 128MB

Preconditions:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	"OV10640 Sensor for SV - IMI (TDA3x ONLY)"	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	or	depending upon the hardware connected & selected by user		
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"			
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		

Execution type:	Automated
Estimated exec. duration (sec):	60.00
Priority:	Medium

Build	REL_3_1
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Summary:

Input : IMI OV10640 / TIDA AR140 with 960 deserializer
or OV10635 with 964 deserializer

Output : HDMI 1080P

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	"OV10640 Sensor for SV - IMI (TDA3x ONLY)"	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	or	depending upon the hardware connected & selected by user		
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"			
2	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	Display must come up and no buffer drops should be observed		

		All the details in the scene should be visible. Noise levels should be very low.
3	Check for 3D SRV transition	SRV transition should cover 360 degree On selecting "s" Transitions should stop
	Check User is able to Start/Stop transition	On selecting "n"
	Select "s" to Start/Stop transition	Transition should happen to next view point
4	Select "n" to change to next View Point	On selecting "r"
	Select "r" to change to previous View Point	Transition should happen to previous view point On selecting "s" again Transition should start normally
Execution type: Manual		
Estimated exec. duration (sec):		
Priority: Medium		
Execution Details		
Build REL_3_1		
Tester x0246581		
Execution Result: Failed		
Execution Mode: Manual		
Execution duration (sec):		

Test Case VISIONSDK-134: ISS_3D_SRV_960/964deser_Dump_Frames

Summary:			
ISS 3D SRV UC			
Input : IMI OV10640 / TIDA AR140 with 960 deserializer or OV10635 with 964 deserializer			
Output : HDMI 1080P			
Preconditions:			
Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN			
Run SRV calibration UC if required to generate LUT.BIN			
Verify whether display shows a smooth stitching of all 4 cameras.			
All running at 30fps, Also check performance stats match with datasheet			
#:	Step actions:	Expected Results:	Execution Execution notes: Status:
1	Go to System Settings	Capture Source should be	

	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or
	"OV10640 Sensor for SV - IMI (TDA3x ONLY)"	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)
	or	depending upon the hardware connected & selected by user
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	& Display device as HDMI 1080P
	& Display Output as HDMI 1080P	
		Display must come up and no buffer drops should be observed
2	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	All the details in the scene should be visible. Noise levels should be very low.
		On selecting "1"
	Select "1" to Save a Captured RAW frame from channel 0 (Will be saved in DDR)	RAW frame from channel 0 should be saved in DDR
		On selecting "2"
	Select "2" to Save a DeWarp Output Frame (Will be saved in DDR)	DeWarp Output Frame should be saved in DDR
3	Select "3" to Save ISP output frames (Will be saved in MMC/SD : All channels)	On selecting "3"
		ISP output frames should be saved in MMC/SD : All channels
	Select "d" to Save Display Frame to MMC/SD card	On selecting "d"
		Display Frame should be saved to MMC/SD card

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-135: ISS_3D_2D_SRV_960/964deser

Summary:

ISS 2D + 3D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & selected by user & Display device as HDMI 1080P Display must come up and no buffer drops should be observed		
2	Run "3D + 2D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	All the details in the scene should be visible. Noise levels should be very low.		

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-136: ISS_3D_SRV_Rearview_960/964deser

Summary:

ISS 3D SRV + Rearview UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
2	& Display Output as HDMI 1080P	depending upon the hardware connected & selected by user & Display device as HDMI 1080P Display must come up with 3D SRV output & Rear view camera output		
	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + RearView + Display" UC	and no buffer drops should be observed		

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-144: ISS_3D_SRV_960/964deser_without_TDA3X_Folder**Summary:**

ISS 3D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA3x folder not present in SD card

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	"OV10640 Sensor for SV - IMI (TDA3x ONLY)"	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	or	depending upon the hardware connected & selected by user		
2	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"			
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	It throws error		

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.3.3.Test Suite : SRV_Calibration

Test Case VISIONSDK-137: SRV_Calibration_UC_auto_calibration

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN, LENS_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	depending upon the hardware connected	depending upon the hardware connected		
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)		
		Display must come up with mosaic view of all 4 cameras		
2	Run "SRV Calibration" UC	and no buffer drops should be observe		
		On selecting Auto calibration		
		It will detect corners for all 4 cameras & generate		
3	Select Auto Calibration	PERSMAT.BIN (in case of TDA2x/TDA2ex)		
		LUT.BIN (in case of TDA3x)		
4	Run any SRV UC & verify the output	SRV Output should be proper		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-138: SRV_Calibration_UC_manual_calibration

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN,LENS_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	depending upon the hardware connected			
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		

- | | | |
|---|--|---|
| | | depending upon the hardware connected |
| | | & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)
Display must come up with mosaic view of all 4 cameras |
| 2 | Run "SRV Calibration" UC | and no buffer drops should be observe |
| 3 | Select Manual Calibration & generate CALMAT
Remove the card & | should be able to generate CALMAT.BIN
Should be able to generate |
| 4 | refer "VisionSDK_UserGuide_3D_SurroundView_Manual_CalibTool.pdf" useguide
to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)
Copy the PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x) | PERSMAT.BIN (in case of TDA2x/TDA2ex)
& LUT.BIN (in case of TDA3x) |
| 5 | to MMC/SD card & insert into EVM
& Run any SRV UC | SRV output should be proper |

Execution type: Manual
Estimated exec. duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration (sec):

Test Case VISIONSDK-139: SRV_Calibration_UC_default_calibration

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN, LENS_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	depending upon the hardware connected	depending upon the hardware connected		
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)		
		Display must come up with mosaic view of all 4 cameras		
2	Run "SRV Calibration" UC	and no buffer drops should be observe		
3	Select Default Calibration	On selecting Default calibration		
		It will generate		
		PERSMAT.BIN (in case of TDA2x/TDA2ex)		

LUT.BIN (in case of TDA3x)

4 Run any SRV UC & verify the output
 Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium
 SRV Output should be proper

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-140: SRV_Calibration_UC_auto_calibration_Dump_Frame

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN, LENS_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		

	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)
	depending upon the hardware connected	depending upon the hardware connected
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY) Display must come up with mosaic view of all 4 cameras
2	Run "SRV Calibration" UC	and no buffer drops should be observe
		On selecting Auto calibration
		It will detect corners for all 4 cameras & generate
3	Select Auto Calibration	PERSMAT.BIN (in case of TDA2x/TDA2ex) LUT.BIN (in case of TDA3x) On selecting "d"
4	Select "d" to Save Display Frame to MMC/SD card	Display Frame should be saved to MMC/SD card

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-141: SRV_Calibration_UC_auto_calibration_update_2D_PERSMAT

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN, LENS_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	depending upon the hardware connected	depending upon the hardware connected		
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)		
		Display must come up with mosaic view of all 4 cameras		
2	Run "SRV Calibration" UC	and no buffer drops should be observe		
		On selecting Auto calibration		
		It will detect corners for all 4 cameras & generate		
3	Select Auto Calibration	PERSMAT.BIN (in case of TDA2x/TDA2ex)		
		LUT.BIN (in case of TDA3x)		
4	Select "7" to Update 2D Pers Mat (after auto/manual calibration if required)	On selecting "7"		
		2D Pers Mat should be updated		
Execution type: Manual				
Estimated exec.				

duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-142: SRV_Calibration_UC_auto_calibration_without_MMC_SD**

Summary:

SRV Calibration UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

Boot from QSPI

No MMC/SD card present

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
1	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	depending upon the hardware connected	depending upon the hardware connected		
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)		
2	Run "SRV Calibration" UC	It throws error		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-143: SRV_Calibration_UC_auto_calibration_without_TDAXX_Folder

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		

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	depending upon the hardware connected	depending upon the hardware connected	
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	It throws error	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Execution Details			
Build	REL_3_1		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.3.4.Test Suite : FastBoot_SRV

Test Case VISIONSDK-255: FastBoot_ISS_3D_SRV_960/964deser

Summary:

ISS 3D SRV UC

Input : IMI OV10640 with 960/964 deserializer

Output : HDMI 1080P

Binaries: 512MB

Preconditions:

Build binaries with SRV_FAST_BOOT_INCLUDE=yes

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM with Fastboot SRV binaries	EVM should boot with Fastboot SRV binaries & Display should come up no buffer drops should observe		
2	Check Boot time	Boot time should match with release numbers		
Execution type:	Manual			
Estimated exec. duration (sec):				

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.4.Test Suite : Mono_Cam

1.4.1.Test Suite : VIP

1.4.1.1.Test Suite : VIP_SingleCam_Capture_Display

Test Case VISIONSDK-1: VIP_Capture_Display_Input_OV10635_Output_7inch_LCD

Summary:

Capture Display UC

Input : OV10635

Output : 7" LCD

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor & Display Output as 7" LCD	Capture Source should be OV10635 Sensor & Display device as 7" LCD		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-2: VIP_Capture_Display_Input_OV10635_Output_HDMI_720P

Summary:

Capture Display UC

Input : OV10635

Output : HDMI 720P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor	Capture Source should be OV10635 Sensor		
	& Display Output as HDMI 720P	& Display device as HDMI 720P		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-5: VIP_Capture_Display_Input_OV10635_Output_HDMI_1080P

Summary:

Capture Display UC

supported on all platforms

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

should not change Capture output dynamically

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be OV10635		
	Select Capture Source as OV10635	& Display device as HDMI 1080P		

	& Display Output as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe TI logo should be on left top corner
3	Check for graphics elements displayed on screen	All load bars should be on left bottom corner
		Check performance stats
		Should print CPU Load of all cores,
4	Press "P"	Capture & Display FPS numbers DDR, Heap memory, OCMC, SR1, remote log buffer memory usage

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-112: VIP_Capture_Display_Input_OV10635_Output_10inch_LCD

Summary:

Capture Display UC

Input : OV10635

Output : 10" LCD

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor & Display Output as 10" LCD	Capture Source should be OV10635 Sensor & Display device as 10" LCD		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
	Execution type: Automated			
	Estimated exec. duration (sec): 60.00			

Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-113: VIP_Capture_Display_Input_OV10635_Output_10inch_OSD_LCD

Summary:

Capture Display UC

Input : OV10635

Output : 10" OSD LCD

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor & Display Output as 10" OSD LCD	Capture Source should be OV10635 Sensor & Display device as 10" OSD LCD		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-114: VIP_Capture_Display_Input_OV10635_Output_SD_PAL

Summary:

Capture Display UC

Input : OV10635

Output : SD PAL

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor & Display Output as SD PAL	Capture Source should be OV10635 Sensor & Display device as SD PAL		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
Execution type: Automated				
Estimated exec. duration (sec): 60.00				
Priority: Medium				
Execution Details				
Build REL_3_1				
Tester x0246581				
Execution Result: Passed				
Execution Mode: Manual				
Execution duration (sec):				

Test Case VISIONSDK-115: VIP_Capture_Display_Input_OV10635_Output_SD_NTSC

Summary:

Capture Display UC

Input : OV10635

Output : SD NTSC

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor & Display Output as SD NTSC	Capture Source should be OV10635 Sensor & Display device as SD NTSC		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
Execution type: Automated				
Estimated exec. duration (sec): 60.00				
Priority: Medium				
Execution Details				
Build REL_3_1				

Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

1.4.1.2.Test Suite : VIP_Capture_FrameCopy_Display

Test Case VISIONSDK-7: VIP_Capture_FrameCopy_DSP1_Display

Summary:

Capture FrameCopy Display UC on DSP1

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635 & Display device as HDMI 1080P		
2	& Display Output as HDMI 1080P Run 1 Ch VIP capture + FrameCopy (DSP1) + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-8: VIP_Capture_FrameCopy_EVE1_Display

Summary:

Capture FrameCopy Display UC on EVE1

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
----	---------------	-------------------	------------------	-------------------

	Go to System Settings	
1	Select Capture Source as OV10635	Capture Source should be OV10635 & Display device as HDMI 1080P
	& Display Output as HDMI 1080P	
2	Run 1 Ch VIP capture + FrameCopy (EVE1) + Display UC	Display must come up and no buffer drops should be observe
Execution type:	Automated	
Estimated exec. duration (sec):	60.00	
Priority:	Medium	
Execution Details		
Build	REL_3_1	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

1.4.1.3.Test Suite : VIP_Capture_SubFrameCopy_Display

Test Case VISIONSDK-168: VIP_Capture_SubFrameCopy_EVE1_Display

Summary:

Capture Sub Frame Copy Display UC with EVE1

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + SubFrameCopy (EVE1) + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration				

(sec):

1.4.1.4.Test Suite : VIP_Capture_IPC_Display

Test Case VISIONSDK-230: VIP_Capture_IPC_Display_Single_core

Summary:

Capture IPC Display UC with Single core

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Scenrios:

IPU1_0 -> DSP1 -> IPU1_0

IPU1_0 -> DSP2 -> IPU1_0

IPU1_0 -> EVE1 -> IPU1_0

IPU1_0 -> EVE2 -> IPU1_0

IPU1_0 -> EVE3 -> IPU1_0

IPU1_0 -> EVE4 -> IPU1_0

IPU1_0 -> IPU1_1 -> IPU1_0

IPU1_0 -> A15 -> IPU1_0

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Check Logs of Capture IPC Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and Display should be running on IPU1-0 at 60fps		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):

Test Case VISIONSDK-231: VIP_Capture_IPC_Display_Multi_core

Summary:

Capture IPC Display UC with Multi core

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Scenrios:

IPU1_0 -> DSP1 -> IPU1_1 -> DSP2 -> IPU1_0

IPU1_0 -> EVE1 -> DSP1 -> A15_0 -> DSP1 -> IPU1_0

IPU1_0 -> EVE1 -> DSP1 -> A15_0 -> IPU1_0

IPU1_0 -> A15_0 -> DSP1 -> DSP2 -> IPU1_1 -> EVE1 -> IPU1_0

IPU1_0 -> EVE1 -> DSP1 -> EVE2 -> DSP2 -> EVE3 -> A15_0 -> IPU1_1 -> EVE4 (Repeated twice) -> IPU1_0

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Check Logs of Capture IPC Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and Display should be running on IPU1-0 at 60fps		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.4.1.5.Test Suite : VIP_Capture_Color_To_Gray_Display**Test Case VISIONSDK-167: VIP_Capture_Color_To_Gray_Display****Summary:**

Single Cam Capture Color to Gray Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Check Logs of Capture Color to Gray Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps		
Execution type: Manual				
Estimated exec. duration (sec):				
Priority: Medium				
Execution Details				
Build REL_3_1				
Tester x0246581				
Execution Result: Passed				
Execution Mode: Manual				
Execution duration (sec):				

1.4.1.6.Test Suite : VIP_Capture_DSSWB_Display

Test Case VISIONSDK-179: VIP_Capture_DSSWB_CRC_Display

Summary:

Single Cam Capture DSSWB CRC Display UC

supported on TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source should be OV10635		
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run "1CH VIP capture + DSSWB + CRC + Display (Supported only on TDA3x)" UC	Display must come up & no buffer drop should be observed		
	Pause the video	After pause, frame freeze event detect should be displayed		
3	Play the video	On resume, frame freeze event detect display should be erased		
Execution type: Automated				
Estimated exec. duration (sec): 60.00				

Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-180: VIP_Capture_DisplayMultipipe_DSSWB_Metadata

Summary:

Single Cam Capture Display Multipipe DSSWB Metadata UC

supported on TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source should be OV10635		
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run "1CH VIP capture + DisplayMultiPipe + DSSWb + Metadata" UC	Display must come up & no buffer drop should be observed		
Execution type:		Automated		
Estimated exec. duration (sec):		60.00		
Priority:		Medium		

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

1.4.1.7.Test Suite : VIP_SingleCam_Capture_Analytics_Display

Test Case VISIONSDK-9: VIP_Capture_Edge_detect_Display

Summary:

VIP Capture Edge Detect Display UC with EVE1

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + Edge Detect (EVE1) + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-10: VIP_Capture_DOF_1Pyramid_Display

Summary:

VIP Capture DOF Display UC with 1 Pyramid

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + Dense Optical Flow (EVEEx) + Display UC with 1 Pyramid	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			

Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-11: VIP_Capture_DOF_2Pyramid_Display

Summary:

VIP Capture DOF Display UC with 2 Pyramid

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source should be OV10635		
1	Select Capture Source as OV10635	& Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + Dense Optical Flow (EVEEx) + Display UC with 2 Pyramid	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

1.4.2.Test Suite : HDMI

1.4.2.1.Test Suite : HDMI_Capture_Display

Test Case VISIONSDK-3: HDMI_Capture_Display_Input_HDMI_Output_LCD

Summary:

Capture Display UC

Input : HDMI

Output : LCD

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as HDMI	Capture Source should be HDMI		
	& Display Output as LCD	& Display device as LCD		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration (sec):

Test Case VISIONSDK-4: HDMI_Capture_Display_Input_HDMI_Output_HDMI

Summary:

Capture Display UC

Input : HDMI

Output : HDMI

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as HDMI	Capture Source should be HDMI		
	& Display Output as HDMI	& Display device as HDMI		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration				

(sec):

1.4.2.2.Test Suite : HDMI_Capture_Analytics_Display

Test Case VISIONSDK-14: HDMI_Capture_SOF_Display

Summary:

HDMI Capture SOF Display UC

Input : HDMI

Output : HDMI

Preconditions:

Verify whether display shows flow vectors of the captured input
Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + Sparse Optical Flow (EVE1) + Display UC	Display must come up and no buffer drops should be observe Flow vectors of the captured input should be displayed		

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-15: HDMI_Capture_LD_Display

Summary:

HDMI Capture Lane Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Lane detection
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
----	---------------	-------------------	------------------	-------------------

- | | | |
|---|---|--|
| 1 | Go to System Settings | Capture Source should be HDMI |
| | Select Capture Source as HDMI | |
| | & Display Output as HDMI 1080P | & Display device as HDMI 1080P |
| 2 | Run 1CH VIP capture (HDMI) + Lane Detect (DSP1 + EVE1) + Display UC | Display must come up and no buffer drops should be observe |

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-16: HDMI_Capture_TLR_Display

Summary:

HDMI Capture Traffic Light Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Traffic Light detection
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source should be HDMI		
1	Select Capture Source as HDMI			
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + Traffic Light Recognition (TLR) (DSP1) + Display UC	Display must come up and no buffer drops should be observe		

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-17: HDMI_Capture_PD_Display

Summary:

HDMI Capture Pedestrian Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Pedestrian detection
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + PD + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-18: HDMI_Capture_TSR_Display

Summary:

HDMI Capture Traffic Sign Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Traffic Sign detection
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P		
2	Run 1CH VIP capture (HDMI)	Display must come up and no buffer		

+ TSR + Display UC

drops should be observe

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-19: HDMI_Capture_VD_Display

Summary:

HDMI Capture Vehicle Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Vehicle detection
 All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + VD + Display UC	Display must come up and no buffer drops should be observe		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-20: HDMI_Capture_PD_TSR_VD_Display

Summary:

HDMI Capture Pedestrian, Traffic Sign, Vehicle Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Pedestrian, Traffic Sign, Vehicle Detect
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + PD+TSR+VD + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-21: HDMI_Capture_FrontCam_Analytics_Display

Summary:

HDMI Capture FrontCam Analytics Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views PD+TSR+VD+LD+TLR+SFM
All running at 15fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + FrontCam Analytics 2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

1.4.3.Test Suite : ISS

1.4.3.1.Test Suite : ISS_SingleCam_Capture_Display_AR140

Test Case VISIONSDK-24: ISS_Capture_AR140_LM

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-25: ISS_Capture_AR140_LM_Performance

Summary:

Linear mode - basic ISS, performance test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed		
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5		
Execution type:		Automated		
Estimated exec. duration (sec):		60.00		
Priority:		Medium		

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-26: ISS_Capture_AR140_LM_Dyanmic_Range

Summary:

Linear mode - dynamic range test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source shuld be AR140		
	Select Capture Source as AR140	& Display device as HDMI 1080P		

	& Display Output as HDMI 1080P	
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. AE should adjust such that lowlights are visible and highlights are overexposed.

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-27: ISS_Capture_AR140_1PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 1 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**

Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-29: ISS_Capture_AR140_2PASS_WDR**

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-31: ISS_Capture_AR140_2PASS_WDR_Performance**

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be AR140 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed		
4	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5		

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-32: ISS_Capture_AR140_2PASS_WDR_Dynamic_Range

Summary:

WDR mode - basic ISS functionality test

ISS Single channel Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source should be AR140 & Display device as HDMI 1080P		
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		

- 3 Run 1CH ISS capture + ISS + Display UC Display must come up and no buffer drops should be observed.
Exposure and colors should look correct in dark as well as bright regions.
Dark regions maybe noisier than bright regions but NSF effect should be visible.

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-33: ISS_Capture_AR140_2PASS_WDR_AE

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Moving to dark scene should cause AE adjustment and increase in noise level.		

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1

Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-34: ISS_Capture_AR140_2PASS_WDR_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Preview maybe noisy. Toggling between VTNF (0/1) should have visible impact on temporal noise.		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-36: ISS_Capture_AR140_2PASS_WDR_LDC

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed Preview must look undistorted		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-37: ISS_Capture_AR140_2PASS_WDR_LDC_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P		

- 2 Go to ISS setting Selected ISS settings will be saved
- Select LDC = ON,
VTNF = ON, WDR =
2 PASS WDR
- 3 Run 1CH ISS capture + ISS + Display UC
- Display must come up and no buffer drops should be observed
LDC effect should be visible.
- If LDC has not been tuned for the lens used, it is OK if correction is not perfect but there should be no crash or corruption.

Execution type: Automated
Estimated exec. duration (sec): 60.00
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration (sec):

Test Case VISIONSDK-38: ISS_Capture_AR140_2PASS_WDR_Color_Fidelity

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low.		

Sharpness should be good.
No color cast should be visible on
lightbox walls and gray row of
colorchecker.

Colored patches should have the right
hue.

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-39: ISS_Capture_AR140_2PASS_WDR_Noise_Filter

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed		
3	Adjust lens to right focal length. Ensure dark lighting.	All the details in the scene should be visible. Noise levels should be very low. Sharpness should be good.		

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-40: ISS_Capture_AR140_2PASS_WDR_DUMP_RAW_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Capture RAW images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts.		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-41: ISS_Capture_AR140_2PASS_WDR_DUMP_YUV_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140	Capture Source shuld be AR140		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
	Go to ISS setting			
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed		
3	Capture YUV images using n/w tool	Captured images must be free of artifacts.		
		YUV frame must match the display.		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-42: ISS_Capture_AR140_2PASS_WDR_Read_Sensor_Reg**

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source shuld be AR140		
	Select Capture Source as AR140	& Display device as HDMI 1080P		

	& Display Output as HDMI 1080P	
	Go to ISS setting	
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.
	Open Command Prompt on Host machine	
4	Use the command iss_read_sensor_reg to read chip ID (0x3000) and exposure register (0x3082)	Chip ID and exposure value must be read correctly

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-43: ISS_Capture_AR140_2PASS_WDR_Write_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source shuld be AR140		
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	& Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops		

should be observed.
Exposure and colors
should look correct.

- 4 Open Command Prompt on Host machine
- Use the command iss_write_sensor_reg to write 0, 4, 8 and c one by one to the exposure register (0x3082)
- Change of exposure value must be clearly visible on the display

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-44: ISS_Capture_AR140_2PASS_WDR_Save_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine Get the sensor.bin file from driver and save it using iss_save_dcc_file network	There should not be any error/assertion in saving dcc file		

command
 Execution type: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-45: ISS_Capture_AR140_2PASS_WDR_Send_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source should be AR140		
1	Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	& Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine and send new sensor.bin file using iss_send_dcc_file network command	New DCC profile must be used from the QSPI memory There should be a print on console indicating that		

Execution type: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-46: ISS_Capture_AR140_2PASS_WDR_Clear_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Open Command Prompt on Host machine	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	and clear DCC profile from QSPI using iss_clear_dcc_qspi_mem network command	There should not be any error/assertion in cleaning dcc profile in qspi		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.4.3.2.Test Suite : ISS_SingleCam_Capture_Display_OV10640

Test Case VISIONSDK-56: ISS_Capture_OV10640_LM_Performance

Summary:

Linear mode - basic ISS, performance test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source should be OV10640		
1	Select Capture Source as OV10640	& Display device as HDMI 1080P		
	& Display Output as HDMI 1080P			
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed		
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-57: ISS_Capture_OV10640_LM_Dyanmic_Range

Summary:

Linear mode - dynamic range test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640	Capture Source should be OV10640		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed.		

AE should adjust such that lowlights are visible and highlights are overexposed.

Execution type: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-59: ISS_Capture_OV10640_2PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		

Execution type: Automated
 Estimated exec.
 duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-60: ISS_Capture_OV10640_2PASS_WDR_Performance

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed		
4	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-61: ISS_Capture_OV10640_2PASS_WDR_Dynamic_Range**

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be OV10640 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct in dark as well as bright regions. Dark regions maybe noisier than bright regions but NSF effect should be visible.		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-62: ISS_Capture_OV10640_2PASS_WDR_AE

Summary:

WDR mode - basic ISS functionality test

ISS Single channel Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be OV10640 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		

- 3 Run 1CH ISS capture + ISS + Display must come up and no buffer drops should be observed
 Display UC All the details in the scene should be visible. Noise levels should be very low.
 Moving to dark scene should cause AE adjustment and increase in noise level.

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-63: ISS_Capture_OV10640_2PASS_WDR_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Preview maybe noisy. Toggling between VTNF (0/1) should have visible impact on temporal noise.		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-64: ISS_Capture_OV10640_2PASS_WDR_LDC

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed Preview must look undistorted		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-65: ISS_Capture_OV10640_2PASS_WDR_LDC_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be OV10640 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed LDC effect should be visible. If LDC has not been tuned for the lens used, it is OK if correction is not perfect but there should be no crash or corruption.		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-66: ISS_Capture_OV10640_2PASS_WDR_Color_Fidelity

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be OV10640		
	Select Capture Source as OV10640	& Display device as HDMI 1080P		

- & Display Output as HDMI 1080P
Go to ISS setting
- 2 Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Selected ISS settings will be saved
- Display must come up and no buffer drops should be observed
- All the details in the scene should be visible.
- 3 Run 1CH ISS capture + ISS + Display UC Noise levels should be very low.
- Sharpness should be good.
No color cast should be visible on lightbox walls and gray row of colorchecker.
- Colored patches should have the right hue.

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-67: ISS_Capture_OV10640_2PASS_WDR_Noise_Filter

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Go to ISS setting	Selected ISS settings will be saved		

Select LDC = ON, VTNF = OFF,
WDR = 2 PASS WDR

Display must come up and no buffer
drops should be observed

3

Run 1CH ISS capture + ISS +
Display UC

All the details in the scene should be
visible.

Adjust lens to right focal length.
Ensure dark lighting.

Noise levels should be very low.
Sharpness should be good.

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-68: ISS_Capture_OV10640_2PASS_WDR_DUMP_RAW_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be OV10640 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Capture RAW images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts		
	Execution type: Manual			
	Estimated exec. duration (sec):			

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-69: ISS_Capture_OV10640_2PASS_WDR_DUMP_YUV_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Capture YUV images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts YUV frame must match the display.		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-70: ISS_Capture_OV10640_2PASS_WDR_Read_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Open Command Prompt on Host machine	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Use the command iss_read_sensor_reg to read chip ID (0x3000) and exposure register (0x3082)	Chip ID and exposure value must be read correctly		

Execution type:

Manual

Estimated exec.
duration (sec):

Priority:

Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-71: ISS_Capture_OV10640_2PASS_WDR_Write_Sensor_Reg**

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be OV10640 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Open Command Prompt on Host machine	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Use the command iss_write_sensor_reg to write 0, 4, 8 and c one by one to the exposure register (0x3082)	Change of exposure value must be clearly visible on the display		
Execution type:		Manual		
Estimated exec. duration (sec):				
Priority:		Medium		
Execution Details				
Build		REL_3_1		
Tester		x0246581		
Execution Result:		Passed		
Execution Mode:		Manual		
Execution duration (sec):				

Test Case VISIONSDK-72: ISS_Capture_OV10640_2PASS_WDR_Save_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640	Capture Source should be OV10640 & Display device as HDMI 1080P		

	& Display Output as HDMI 1080P	
	Go to ISS setting	
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.
	Open Command Prompt on Host machine	
4	Get the sensor.bin file from driver and save it using iss_save_dcc_file network command	There should not be any error/assertion in saving dcc file

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-73: ISS_Capture_OV10640_2PASS_WDR_Send_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be OV10640 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS +	Display must come up and no		

4	Display UC	buffer drops should be observed. Exposure and colors should look correct.
	Open Command Prompt on Host machine	New DCC profile must be used from the QSPI memory
	and send new sensor.bin file using iss_send_dcc_file network command	There should be a print on console indicating that

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-74: ISS_Capture_OV10640_2PASS_WDR_Clear_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source shuld be OV10640		
	Select Capture Source as OV10640	& Display device as HDMI 1080P		
	& Display Output as HDMI 1080P			
2	Go to ISS setting	Selected ISS settings will be saved		
	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR			
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
	Open Command Prompt on Host machine			
4	and clear DCC profile from QSPI using iss_clear_dcc_qspi_mem network command	There should not be any error/assertion in cleaning dcc profile in qspi		

Execution type: Manual

Estimated exec.

duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-47: ISS_Capture_OV10640_LM**

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**1.4.3.3.Test Suite : ISS_SingleCam_Capture_Display_IMX224****Test Case VISIONSDK-77: ISS_Capture_IMX224_LM**

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast		

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-78: ISS_Capture_IMX224_LM_Performance

Summary:

Linear mode - basic ISS, performance test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source shuld be IMX224		
	Select Capture Source as IMX224	& Display device as HDMI 1080P		

2 & Display Output as HDMI 1080P
 Run 1CH ISS capture + Display must come up and no buffer drops should be observed
 ISS + Display UC
 3 Press "P" & check for FPS FPS should be in the range 29.5 - 30.5
 Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-79: ISS_Capture_IMX224_LM_Dyanmic_Range

Summary:

Linear mode - dynamic range test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. AE should adjust such that lowlights are visible and highlights are overexposed.		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-80: ISS_Capture_IMX224_2PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-81: ISS_Capture_IMX224_2PASS_WDR_Performance**

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
----	---------------	-------------------	------------------	-------------------

notes: Status:

- | | | |
|---|---|---|
| | Go to System Settings | Capture Source should be IMX224 |
| 1 | Select Capture Source as IMX224 | |
| | & Display Output as HDMI 1080P | & Display device as HDMI 1080P |
| | Go to ISS setting | |
| 2 | Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved | Selected ISS settings will be saved |
| 3 | Run 1CH ISS capture + ISS + Display UC | Display must come up and no buffer drops should be observed |
| 4 | Press "P" & check for FPS | FPS should be in the range 29.5 - 30.5 |

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-82: ISS_Capture_IMX224_2PASS_WDR_Dynamic_Range

Summary:

WDR mode - basic ISS functionality test

ISS Single channel Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

- | #: | Step actions: | Expected Results: | Execution notes: | Execution Status: |
|----|---|--|------------------|-------------------|
| | Go to System Settings | | | |
| 1 | Select Capture Source as IMX224 | Capture Source should be IMX224 | | |
| | & Display Output as HDMI 1080P | & Display device as HDMI 1080P | | |
| | Go to ISS setting | | | |
| 2 | Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved | Selected ISS settings will be saved | | |
| 3 | Run 1CH ISS capture + ISS + Display UC | Display must come up and no buffer drops should be observed. Exposure and colors should look | | |

correct in dark as well as bright regions.
Dark regions maybe noisier than bright regions but NSF effect should be visible.

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-83: ISS_Capture_IMX224_2PASS_WDR_AE

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Moving to dark scene should cause AE adjustment and increase in noise level.		

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-84: ISS_Capture_IMX224_2PASS_WDR_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = ON, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Preview maybe noisy. Toggling between VTNF (0/1) should have visible impact on temporal noise.		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-85: ISS_Capture_IMX224_2PASS_WDR_LDC

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed Preview must look undistorted		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-86: ISS_Capture_IMX224_2PASS_WDR_LDC_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224	Capture Source shuld be IMX224 & Display device as HDMI 1080P		

& Display Output as
HDMI 1080P
Go to ISS setting

- 2 Select LDC = ON, VTNF = ON, WDR = 2 PASS
WDR Line Interleaved Selected ISS settings will be saved

Display must come up and no buffer drops
should be observed
LDC effect should be visible.

- 3 Run 1CH ISS capture +
ISS + Display UC If LDC has not been tuned for the lens used,
it is OK if correction is not perfect but there
should be no crash or corruption.

Execution type: Automated
Estimated exec.
duration (sec): 60.00
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-87: ISS_Capture_IMX224_2PASS_WDR_Color_Fidelity

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible.		

Noise levels should be very low.

Sharpness should be good.
No color cast should be visible on
lightbox walls and gray row of
colorchecker.

Colored patches should have the
right hue.

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: Passed
Execution Mode: Manual
Execution duration
(sec):

Test Case VISIONSDK-88: ISS_Capture_IMX224_2PASS_WDR_Noise_Filter

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source shuld be IMX224		
	Select Capture Source as IMX224	& Display device as HDMI 1080P		
	& Display Output as HDMI 1080P Go to ISS setting			
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed		
	Adjust lens to right focal length. Ensure dark lighting.	All the details in the scene should be visible.		
		Noise levels should be very low. Sharpness should be good.		

Execution type: Manual
Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-89: ISS_Capture_IMX224_2PASS_WDR_DUMP_RAW_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Capture RAW images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts.		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-90: ISS_Capture_IMX224_2PASS_WDR_DUMP_YUV_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Capture YUV images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts YUV frame must match the display.		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-91: ISS_Capture_IMX224_2PASS_WDR_Read_Sensor_Reg**

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224	Capture Source should be IMX224		

	& Display Output as HDMI 1080P Go to ISS setting	& Display device as HDMI 1080P
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.
	Open Command Prompt on Host machine	
4	Use the command iss_read_sensor_reg to read chip ID (0x3000) and exposure register (0x3082)	Chip ID and exposure value must be read correctly

Execution type: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-92: ISS_Capture_IMX224_2PASS_WDR_Write_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source shuld be IMX224		
1	Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	& Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		

- 3 Run 1CH ISS capture + ISS + Display UC Display must come up and no buffer drops should be observed. Exposure and colors should look correct.
- 4 Open Command Prompt on Host machine Change of exposure value must be clearly visible on the display
- 4 Use the command `iss_write_sensor_reg` to write 0, 4, 8 and c one by one to the exposure register (0x3082)

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-93: ISS_Capture_IMX224_2PASS_WDR_Save_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be IMX224 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine Get the sensor.bin file from driver	There should not be any error/assertion in saving dcc file		

and save it using iss_save_dcc_file
network command

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-94: ISS_Capture_IMX224_2PASS_WDR_Send_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source should be IMX224 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine and send new sensor.bin file using iss_send_dcc_file network command	New DCC profile must be used from the QSPI memory There should be a print on console indicating that		

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581

Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-95: ISS_Capture_IMX224_2PASS_WDR_Clear_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine and clear DCC profile from QSPI using iss_clear_dcc_qspi_mem network command	There should not be any error/assertion in cleaning dcc profile in qspi		

Execution type: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

1.4.3.4.Test Suite : ISS_SingleCam_Capture_Display_OV2775

Test Case VISIONSDK-248: ISS_Capture_OV2775_LM

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with OV2775

Input : OV2775 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV2775 & Display Output as HDMI 1080P	Capture Source shuld be OV2775 & Display device as HDMI 1080P		
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-291: ISS_Capture_OV2775_LM_performance**

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with OV2775

Input : OV2775 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source shuld be OV2775		
	Select Capture Source as OV2775	& Display device as HDMI 1080P		

& Display Output as HDMI 1080P

- | | | |
|---|---|---|
| 2 | Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC | Display must come up and no buffer drops should be observed
Exposure and colors should look correct.
Most important - white/grey objects should not have any color cast |
| 3 | Press "P" & check for FPS | FPS should be in the range 29.5 - 30.5 |

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-315: ISS_Capture_OV2775_LM_LDC_VTNF

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with OV2775

Input : OV2775 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV2775 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be OV2775 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = ON, WDR = OFF	Selected ISS settings will be saved		
3	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast		

Execution type: Automated

Estimated exec. 60.00

duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Failed**Execution Mode: **Manual**Execution duration
(sec):**1.4.3.5.Test Suite : ISS_SingleCam_Capture_Display_AR0143****Test Case VISIONSDK-254: ISS_Capture_AR0143_LM**

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with AR0143

Input : AR0143 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR0143 & Display Output as HDMI 1080P	Capture Source shuld be AR0143 & Display device as HDMI 1080P		
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast		

Execution type: Manual

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-292: ISS_Capture_AR0143_LM_Performance**

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with AR0143

Input : AR0143 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR0143 & Display Output as HDMI 1080P	Capture Source shuld be AR0143 & Display device as HDMI 1080P		
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast		
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5		

Execution type: Manual

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.4.3.6.Test Suite : ISS_SingleCam_Capture_Display_AR132

Test Case VISIONSDK-263: ISS_Capture_AR132_LM

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/Display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source shuld be AR132		

Select Capture Source as AR132 & Display device as HDMI 1080P

& Display Output as HDMI 1080P

2 Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-264: ISS_Capture_AR132_LM_Performance

Summary:

Linear mode - basic ISS, performance test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
----	---------------	-------------------	------------------	-------------------

Go to System Settings

1	Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source should be AR132 & Display device as HDMI 1080P		
---	--	--	--	--

2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed.		
---	--	--	--	--

3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5		
---	---------------------------	--	--	--

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-265: ISS_Capture_AR132_LM_LDC_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR132 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR132 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = ON, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed LDC effect should be visible. If LDC has not been tuned for the lens used, it is OK if correction is not perfect but there should be no crash or corruption.		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-266: ISS_Capture_AR132_LM_DUMP_RAW_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR132 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR132 & Display device as HDMI 1080P		
2	Select LDC = ON, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Capture RAW images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts		

Execution type: Manual

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-267: ISS_Capture_AR132_LM_DUMP_YUV_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
----	---------------	-------------------	------------------	-------------------

- | | | |
|---|--|---|
| 1 | Go to System Settings | Capture Source should be AR132 |
| | Select Capture Source as AR132 | & Display device as HDMI 1080P |
| | & Display Output as HDMI 1080P | |
| | Go to ISS setting | |
| 2 | Select LDC = ON, VTNF = OFF, WDR = OFF | Selected ISS settings will be saved |
| | Run 1CH ISS capture + ISS + Display UC | Display must come up and no buffer drops should be observed |
| 3 | Capture YUV images using n/w tool | Captured images must be free of artifacts |
| | | YUV frame must match the display. |

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-268: ISS_Capture_AR132_LM_Read_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR132	Capture Source should be AR132		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
	Go to ISS setting			
2	Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed.		

Exposure and colors should look correct.

Open Command Prompt on Host machine

4 Use the command
iss_read_sensor_reg to read Chip ID and exposure value must be read correctly
chip ID (0x3000)

and exposure register (0x3082)

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-269: ISS_Capture_AR132_LM_Write_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR132 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine Use the command iss_write_sensor_reg to write 0, 4, 8 and c one by one to the	Change of exposure value must be clearly visible on the display		

exposure register (0x3082)

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-270: ISS_Capture_AR132_LM_Save_DCC_Profile**

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as AR132 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR132 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC Open Command Prompt on Host machine	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Get the sensor.bin file from driver and save it using iss_save_dcc_file network command	There should not be any error/assertion in saving dcc file		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-271: ISS_Capture_AR132_LM_Send_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings	Capture Source shuld be AR132		
1	Select Capture Source as AR132 & Display Output as HDMI 1080P Go to ISS setting	& Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine and send new sensor.bin file using iss_send_dcc_file network command	New DCC profile must be used from the QSPI memory There should be a print on console indicating that		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-272: ISS_Capture_AR132_LM_Clear_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P Go to ISS setting	Capture Source shuld be AR132 & Display device as HDMI 1080P		
2	Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine and clear DCC profile from QSPI using iss_clear_dcc_qspi_mem network command	There should not be any error/assertion in cleaning dcc profile in qspi		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.4.4.Test Suite : MISC

1.4.4.1.Test Suite : SyncLink

Test Case VISIONSDK-187: VIP_Capture_Sync_Null

Summary:

Single Cam Capture Sync Null UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : Null

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Check Logs of Capture Sync Null UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

1.4.4.2.Test Suite : DupLink

Test Case VISIONSDK-165: VIP_Capture_Dup_Display

Summary:

Single Cam Capture Dup Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Check Logs of Capture Dup Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			

Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

1.4.4.3.Test Suite : MergeLink

Test Case VISIONSDK-166: VIP_Capture_Merge_Display

Summary:

Single Cam Capture Merge Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Check Logs of Capture Merge Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.4.4.4.Test Suite : StatisticsLogs

Test Case VISIONSDK-211: VIP_SingleCam_Capture_Display_Statistics_Logs

Summary:

Capture Display UC

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe It should print all performance statistics		
3	Press "P"	1. Load on all cores 2. DDR BW usage 3. FPS for each Link 4. Latency to process frames		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-212: Print_PRCM_Statistics_Dpll_Status

Summary:

Print PRCM Statistics Dpll Status

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "1" for Dpll Status	On selecting "1" should print DPLL Statistics		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-213: Print_PRCM_Statistics_Temperature

Summary:

Print PRCM Statistics Temperature

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "2" for Temperature	On selecting "2" should print current min & max temperature on all cores		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-214: Print_PRCM_Statistics_Voltage

Summary:

Print PRCM Statistics Voltage

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "3" for Voltage	On selecting "3" should print voltage usage		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-215: Print_PRCM_Statistics_Module_Power_State

Summary:

Print PRCM Statistics Module Power State

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		On selecting "4" should print Module Power State		
1	Go to System Settings -> Print PRCM Statistics	Module Name & Module state		
	Press "4" for Module Power State	Module SIDLE State		
		Clock Activite State		
		Power Domain State		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-216: Print_PRCM_Statistics_CPU_Frequency

Summary:

Print PRCM Statistics CPU Frequency

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics	On selecting "5" should print Frequency of all cores		
	Press "5" for CPU Frequency			

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-217: Print_PRCM_Statistics_Peripherals_Frequency

Summary:

Print PRCM Statistics Peripherals Frequency

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "6" for Peripherals Frequency	On selecting "6" should print Peripherals Frequency of QSPI & DSS		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-218: Print_PRCM_Statistics_Prcm_Register_Data**

Summary:

Print PRCM Statistics Prcm Register Data

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "7" for Prcm Register Data	On selecting "6" should print Prcm Register Data of all POWER DOMAIN Reg. Address & Value		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-219: Print_PRCM_Statistics_Power_Consumption**

Summary:

Print PRCM Statistics Power Consumption

Supported only on TDA2x

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "8" for Power Consumption	On selecting "8" should print Power Consumption		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-220: Print_PRCM_Statistics_All_PRCM_Stats

Summary:

Print PRCM Statistics All PRCM Stats

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "9" for All PRCM Stats	On selecting "9" should print All PRCM Stats Dpll Status Temperature Voltage Module Power State CPU frequency Peripherals Frequency Prcm register Data Power Consumption		

Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**

Execution duration
(sec):

1.4.4.5.Test Suite : FATFS

Test Case VISIONSDK-228: File_IO_UC_MMCSd_IPU1_0

Summary:

File IO UC using MMCSd on IPU1_0

Read AppImage from SD card &

write back same to SD card

Preconditions:

Verify FATFS running IPU1_0

Build SDK with FATFS flags enabled & NDK disabled and FATFS lib on IPU1_0

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	1. Select File IO UC from Menu	No Display On console, Time taken to read & write should be displayed		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

1.4.4.6.Test Suite : Limp_Home_Mode

Test Case VISIONSDK-277: Limp_Home_Mode

Summary:

Limp Home Mode UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views PD+TSR+VD+LD+TLR+SFM
All running at 15fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be HDMI		

Select Capture Source as HDMI & Display device as HDMI 1080P

& Display Output as HDMI 1080P

Run 1CH VIP capture (HDMI) +
FrontCam Analytics 2

2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + Display UC Display must come up and no buffer drops should be observe

3 Press "t" Should Show Thermal Configuration Menu
Option should be selected

On pressing "1" should display temperature to change ranging from 10 -100 deg c

Choose below listed options one by one by one On pressing "2" should display temperature to change ranging from 10 -100 deg c

1: Change THOT Temperature On pressing "3" should display current THOT temperature

2: Change TCOLD Temperature On pressing "4" should display current TCOLD temperature

4 3: Show current THOT Temperature On pressing "5" should display temperature to change ranging from 3 - 15 deg c

4: Show current TCOLD Temperature On pressing "6" should display current Limp Home Status (Limp Home Mode = ACTIVE!! or IN-ACTIVE!! should display on console)

5: Change Threshold Step Size On pressing "7" should switch to Limp Home Mode

6: Show Limp Home Status On pressing "8" Return to Normal Usecase Mode

7: Switch to Limp Home Mode On pressing "x" should Exit from Thermal menu

8: Return to Normal Usecase Mode

x: Exit Thermal Menu

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.4.4.7.Test Suite : Task_time_measure_utility

Test Case VISIONSDK-289: VIP_Capture_Display_task_time_measure_utility

Summary:

Capture Display UC

supported on all platforms

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
3	Press "4" for Demonstrate Task Timer utility	On console should print Global time taken & actual time taken by utility for function		

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**

Execution duration (sec):

1.4.5.Test Suite : IPC_LIB

Test Case VISIONSDK-123: IPC_LIB

Summary:

IPC LIB UC

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Build binaries for all platform with IPC_LIB_INCLUDE=yes

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Run all UCc one by one from UC menu	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-240: Low_Latency_IPC

Summary:

Low Latency IPC UC

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Build binaries for all platform with IPC_LIB_INCLUDE=yes & WORKQ_INCLUDE=yes

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Run all UCc one by one from UC menu	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

1.4.6.Test Suite : RTI

Test Case VISIONSDK-226: VIP_Capture_Display_suspend_IPU1_0

Summary:

Capture Display UC

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

verify RTI configuration with expiry detection and recovery support

Load the binaries using CCS/SD card

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
3	Suspend/reset the IPU core through CCS	System should re-start automatically		
		RTI logs should displayed on console		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-227: VIP_Capture_FrameCopy_Display_suspend_DSP_EVE

Summary:

Capture Framecopy Display UC on DSP1/EVE1

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

verify RTI configuration with expiry detection and recovery support

Load the binaries using CCS/SD card

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + Framecopy + Display UC	Display must come up and no buffer drops should be observe		
3	Suspend/reset the DSP/EVE core through CCS	CPU load bar of suspended core shown as red RTI logs should displayed on console		
Execution type:		Manual		
Estimated exec. duration (sec):				
Priority:		Medium		
Execution Details				
Build		REL_3_1		
Tester		x0246581		
Execution Result:		Passed		
Execution Mode:		Manual		
Execution duration (sec):				

1.5.Test Suite : Open_Compute

1.5.1.Test Suite : OpenVX

Test Case VISIONSDK-223: OpenVX_Confirmation_Test

Summary:

OpenVX Confirmation Test v1.1

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Boot EVM			
1	Run OpenVX Confirmation Test v1.1	Confirmation test should run automatically		
Execution type:		Manual		
Estimated exec. duration (sec):		60.00		
Priority:		Medium		
Execution Details				
Build		REL_3_1		
Tester		x0246581		

Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-224: OpenVX_Tutorials

Summary:

OpenVX Tutorials

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Boot EVM			
1	Run OpenVX Tutorials	Tutorials should run automatically		
Execution type:	Manual			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-225: VIP_Capture_OpenVX_Display_Input_OV10635_Output_HDMI_1080P

Summary:

OpenVX Capture Display UC

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor	Capture Source should be OV10635 Sensor		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run "VIP Single Channel Capture + OpenVX + Display" UC	Display must come up and no buffer drops should be observe		
Execution type:	Manual			
Estimated exec. duration (sec):	60.00			

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.6.Test Suite : Multi_Cam

1.6.1.Test Suite : Multi_Channel_LVDS_Capture_Display

Test Case VISIONSDK-22: VIP_4CH_Capture_Display_OV10635_913deser

Summary:

4 Channel Capture Display UC

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the 4 views in Mosaic

All running at 30fps. Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P On selecting "0"		
2	Run "4CH VIP Capture + Mosaic Display" UC Select "0" For Single channel mode Select "1" For Multi channel mode	Display must come up with CH0 preview on full screen and no buffer drops should be observe On selecting "1" Display must come up with 4CH mosaic on full screen and no buffer drops should be observe		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-132: CSI2_4CH_Capture_Display_OV10635_964deser

Summary:

4 Channel Capture Display UC

Input : OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the 4 views in Mosaic
All running at 30fps. Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)"	Capture Source should be "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)"		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run "OV10635 & UB964 4CH CSI2 Capture + Display" UC	On selecting "1"		
	Select "1" For Multi channel mode	Display must come up with 4CH mosaic on full screen and no buffer drops should be observe		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.6.2.Test Suite : SelectLink

Test Case VISIONSDK-186: VIP_4CH_Capture_Select_Display

Summary:

Multi Cam Capture Select Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Check Logs of LVDS Capture Select Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps		

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.6.3.Test Suite : VIP_4CH_Capture_Color_To_Gray_Display

Test Case VISIONSDK-188: VIP_4CH_Capture_Color_To_Gray_Display

Summary:

Multi Cam Capture Color to Gray Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Check Logs of LVDS Capture Color to Gray Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps		

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.6.4.Test Suite : VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display

Test Case VISIONSDK-192: VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display

Summary:

Multi Cam Capture VPE Sync DMA SWMS Display UC

supported on TDA2x/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

On IPU/A15: System EDMA

On DSP: Local DMA

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Run Testsuite	Check Logs of LVDS Capture VPE Sync DMA SWMS Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.7.Test Suite : Build

1.7.1.Test Suite : VSDK_Builds

Test Case VISIONSDK-249: VSDK_BIOS_different_builds

Summary:

VSDK BIOS different configurations Build

Preconditions:

Follow UG to Install release package

All ti_components (including PDK) should be part of release package

Copy all necessary components (gcc tool,linaro tool chain)

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Navigate to (vsdk_install_path)/vision_sdk/build	Should display config for tda2xx_evm_bios_all		
	& run make -s showconfig			
2	Modify Rules.mk file to other available MAKECONFIG	Should display config for MAKECONFIG selected		
	& run make -s showconfig			
3	run make -s -j depend	Should build binaries without any error		
4	& then make -s -j			
5	run make -s appimage	should create Appimage		
	run make -s sbl	Should create SBL		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Attached files	<ul style="list-style-type: none"> BIOS Different Build Config : build_vsdk.sh build_vsdk.sh 			

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration (sec):

Test Case VISIONSDK-278: VSDK_KW_build

Summary:

VSDK Klocwork Build

Preconditions:

Jenkin Node is up & running

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Login to Jenkin server	Should build KW project &		
	&			
	trigger	sent a report with open critical & major MISRA-C issues		
	VSK_KW_build			

Execution type: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

1.8.Test Suite : Boot_Modes

1.8.1.Test Suite : Secure_Boot

Test Case VISIONSDK-229: VIP_Capture_Display_UC_HS_Sample

Summary:

Capture Display UC on HS Sample

Input : OV10635

Output : HDMI 1080P

Preconditions:

Build SBL & Appimage with HS_SAMPLE=yes

&load binaries on HS sample

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
3	Run all UC one by one	Display must come up and no buffer drops should be observe		

Execution type: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**

Execution Mode: **Manual**Execution duration
(sec):

1.8.2.Test Suite : QSPI_Boot

Test Case VISIONSDK-274: Load_Binaries_using_QSPI

Summary:

Load Binaries using QSPI

Preconditions:

Build Appimage & SBL for QSPI

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug		
2	Follow UG to Flash SBL & AppImage to QSPI Disconnect CCS &	SBL & AppImage should be flashed to QSPI		
3	Follow UG to set SYSBOOT PIN for QSPI Boot	SYSBOOT PIN should be for QSPI Boot		
4	Boot EVM	EVM should boot with binaries & Display Main Menu		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):

1.8.3.Test Suite : QSPI_SD_Boot

Test Case VISIONSDK-275: Load_Binaries_using_QSPI_SD

Summary:

Load Binaries using QSPI SD

supported only on TDA3x/RVP

Preconditions:

Build Appimage & SBL for QSPI SD Boot

Copy AppImage to SD card

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug		
2	Follow UG to Flash SBL Discoconnect CCS	SBL should be flashed to QSPI		
3	Insert SD card to SD card slot Follow UG to set SYSBOOT PIN for QSPI SD Boot	SYSBOOT PIN should be for QSPI SD Boot		
4	Boot EVM	EVM should boot with binaries & Display Main Menu		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):