



Test Plan Execution Report (on specific build)

Test Project: VISIONSDK

Test Plan: RVP_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: RVP_Functional_Test_Plan

RVP Functional Test Plan

Will cover all functional test for RVP board

1.1.Test Suite : SRV

1.1.1.Test Suite : CAL_SRV

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

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)		
2	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 Go to ISS setting	Selected ISS settings will be saved		
3	Select LDC = OFF, VTNF = OFF, WDR = 1 PASS WDR	Display must come up and no buffer drops should be observed		
	Run "4CH ISS capture + ISS ISP + Simcop + Surround View (DSP1) + Display" UC	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	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		
	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):

1.1.1.2.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		
2	"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		
	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.		

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-133: ISS_3D_SRV_960/964deser_360_transition

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 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 device as HDMI 1080P		
	& Display Output as HDMI 1080P	Display must come up and no buffer drops should be observed		
3	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.		
	Check for 3D SRV transition	SRV transition should cover 360 degree On selecting "s"		
4	Check User is able to Start/Stop transition	Transitions should stop On selecting "n"		
	Select "s" to Start/Stop transition	Transition should happen to next view point		
	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 notes:	Execution Status:
1	Go to System Settings Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	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 & Display device 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.		
3	Select "1" to Save a Captured RAW frame from channel 0 (Will be saved in DDR) Select "2" to Save a DeWarp Output Frame (Will be saved in DDR) Select "3" to Save ISP output frames (Will be saved in MMC/SD : All channels) Select "d" to Save Display Frame to MMC/SD card	On selecting "1" RAW frame from channel 0 should be saved in DDR On selecting "2" DeWarp Output Frame should be saved in DDR On selecting "3" ISP output frames should be saved in MMC/SD : All channels 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		
	"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 device as HDMI 1080P		
	& Display Output as HDMI 1080P	Display must come up and no buffer drops should be observed		
	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		
	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + RearView + Display" UC	Display must come up with 3D SRV output & Rear view camera output 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	& 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):

1.1.2.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 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	& Display device as HDMI 1080P		

(TDA2x/TDA2Ex/TDA3x), HDMI (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY) 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	<p>Go to System Settings</p> <p>Select Capture Source as OV10635 Sensor 720P30 or</p> <p>OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or</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</p> <p>& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)</p>	<p>Capture Source should be</p> <p>OV10635 Sensor 720P30 or</p> <p>OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or</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</p> <p>& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)</p> <p>Display must come up with mosaic view of all 4 cameras</p>		
2	Run "SRV Calibration" UC	and no buffer drops should be observe		
3	Select Manual Calibration & generate CALMAT	should be able to generate CALMAT.BIN		
4	<p>Remove the card & refer "VisionSDK_UserGuide_3D_SurroundView_Manual_CalibTool.pdf" useguide</p> <p>to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)</p> <p>Copy the PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)</p>	<p>Should be able to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)</p>		
5	<p>to MMC/SD card & insert into EVM</p> <p>& Run any SRV UC</p>	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 |
| | | On selecting Default calibration |
| | | It will generate |
| 3 | Select Default 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-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		
2	Run "SRV Calibration" UC	& 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
3	Select Auto Calibration	and no buffer drops should be observe		
		On selecting Auto calibration		
		It will detect corners for all 4 cameras & generate		
4	Select "d" to Save Display Frame to MMC/SD card	PERSMAT.BIN (in case of TDA2x/TDA2ex)		
		LUT.BIN (in case of TDA3x)		
		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-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 device as HDMI 1080P
& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI
(TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)
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:
1	Go to System Settings	Capture Source should be		

Select Capture Source as OV10635 OV10635 Sensor 720P30 or
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
(TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)
XGA TDM mode (TDA3x ONLY)

& Display device as HDMI 1080P
(TDA2x/TDA2Ex/TDA3x), HDMI
XGA TDM mode (TDA3x ONLY)

It throws error

2 Run "SRV Calibration" UC

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	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		
2	& 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)		
	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):

1.1.3.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):				

1.2.Test Suite : Mono_Cam

1.2.1.Test Suite : MISC

1.2.1.1.Test Suite : StatisticsLogs

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:
1		On selecting "4" should print Module Power State		
	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):

1.3.Test Suite : Build

1.3.1.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 (v sdk_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		
	& then make -s -j			
4	run make -s appimage	should create Appimage		
5	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):

1.4.Test Suite : Boot_Modes

1.4.1.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):

1.4.2.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):