

Updates for USB3Vision cameras

Release note

1 Overview

This document features detailed information on recent changes to the USB3 Vision cameras. These changes are reflected in the serial numbers shown in the following section.

1.1 Applicable products

e2V CMOS Sensor camera

STC-MBE132U3V / STC-MCE132U3V

CMOSIS CMOS Sensor camera

STC-MBCM200U3V / STC-MCCM200U3V

STC-MBCM401U3V / STC-MCCM401U3V

* This also includes model number with –xx at the end.

1.2 Correspond serial number

e2V CMOS Sensor camera

From 15C****

CMOSIS CMOS Sensor camera

From 15D****

This is applied for all the camera in the inventory and the cameras in production.

2 Detailed Descriptions

2.1 Specifications change / Improvement (e2V CMOS Sensor camera)

No.	Descriptions
1	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u> Modified from ExposureShutterType to SensorShutterMode</p> <p><u>The following issue may occur</u> The error will occur if ExposureShutterType is used</p> <p><u>Solution</u> Replace SensorShutterMode instead of ExposureShutterType</p>
2	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u> Divided BinningMode into BinningHorizontalMode and BinningVerticalMode BinningHorizontalMode, BinningVerticalMode's behavior are connected</p> <p><u>The following issue may occur</u> The error will occur if BinningMode is used.</p> <p><u>Solution</u> Replace BinningHorizontalMode or BinningVerticalMode instead of BinningMode</p>
3	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u> Modified from DeviceCommandTimeout to DeviceLinkCommandTimeout</p> <p><u>The following issue may occur</u> The error will occur if DeviceCommandTimeout is used</p> <p><u>Solution</u> Replace DeviceLinkCommandTimeout instead of DeviceCommandTimeout</p>
4	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u> Modified from TriggerEventTest to TestEventGenerate</p> <p><u>The following issue may occur</u> The error will occur if TriggerEventTest is used</p> <p><u>Solution</u> Replace TestEventGenerate instead of TriggerEventTest</p>
5	<p><u>Modification</u> Modified PixelSize's option Bpp40 to Standard to Custom</p>
6	<p><u>Modification</u> Modified TestPendingAck from Standard to Custom</p>
7	<p><u>Modification</u> Modified option on PixelFormat that was not described on SNFC from Standard to Custom</p>
8	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u> Added ImageComponentSelector, ImageComponentEnable</p>
9	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u> Added PixelFormatInfoSelector, PixelFormatInfoID</p>
10	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u></p>

No.	Descriptions
	Added ExposureTimeSelector
11	<u>Modification</u> Added TestControl on category, moved TestPendingAck to this category
12	<u>Modification</u> Modified value on DeviceSFNCVersionMinor as 2

2.2 Specifications added (e2V CMOS Sensor camera)

No.	Descriptions
1	[SFNC2.0 compliance] Added EventID on Event

2.3 Specifications change / Improvement (CMOSIS CMOS Sensor camera)

No.	Descriptions
1	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u></p> <p>Modified from ExposureShutterType to SensorShutterMode</p> <p><u>The following issue may occur</u></p> <p>The error will occur if ExposureShutterType is used</p> <p><u>Solution</u></p> <p>Replace SensorShutterMode instead of ExposureShutterType</p>
2	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u></p> <p>Modified from BinningMode to BinningHorizontalMode and BinningVerticalMode</p> <p>BinningHorizontalMode, BinningVerticalMode's behavior are connected</p> <p><u>The following issue may occur</u></p> <p>The error will occur if BinningMode is used</p> <p><u>Solution</u></p> <p>Replace BinningHorizontalMode or BinningVerticalMode instead of BinningMode</p>
3	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u></p> <p>Modified from DeviceCommandTimeout to DeviceLinkCommandTimeout</p> <p><u>The following issue may occur</u></p> <p>The error will occur if DeviceCommandTimeout is used</p> <p><u>Solution</u></p> <p>Replace DeviceLinkCommandTimeout instead of DeviceCommandTimeout</p>
4	<p>[SFNC2.2 compliance]</p> <p><u>Modification</u></p> <p>Modified from TriggerEventTest to TestEventGenerate</p> <p><u>The following issue may occur</u></p> <p>The error will occur if TriggerEventTest is used</p> <p><u>Solution</u></p> <p>Replace TestEventGenerate instead of TriggerEventTest</p>
5	<p>[SFNC2.0 compliance]</p> <p><u>Modification</u></p> <p>Modified UserOutput to UserOutput0, UserOutput1 and UserOutput2 on LineSource</p> <p>Corresponded to</p> <p>LineSelector</p> <p>Line0: UserOutput0</p> <p>Line1: UserOutput1</p> <p>Line2: UserOutput2</p> <p><u>The following issue may occur</u></p> <p>The error will occur if UserOutput is used on LineSource</p> <p><u>Solution</u></p> <p>Replace UserOutput0 or UserOutput1 or UserOutput2 instead of UserOutput on LineSource</p>
6	<p>[SFNC2.0 compliance]</p> <p><u>Modification</u></p> <p>Modified LineSource's option Disabled to Off(Standard)</p> <p><u>The following issue may occur</u></p>

No.	Descriptions
	<p>The error will occur if Disabled is used on LineSource</p> <p><u>Solution</u></p> <p>Replace Off instead of Disabled on LineSource</p>
7	<p><u>Modification</u></p> <p>Deleted TriggerActivation, TriggerOverlap since camera does not support these functions</p> <p><u>The following issue may occur</u></p> <p>The error will occur if TriggerActivation or TriggerOverlap are used</p> <p><u>Solution</u></p> <p>Necessary to delete them, if TriggerActivation or TriggerOverlap is used without any conformation of these parameters</p>
8	<p><u>Modification</u></p> <p>Added FrameStart on TriggerSelector</p>
9	<p><u>Modification</u></p> <p>Added Disabled on TriggerSource</p>
10	<p><u>Modification</u></p> <p>Added as following parameters</p> <p>DeviceLinkSelector, DeviceCommandTimeout, DeviceManifestEntrySelector, DeviceManifestXMLMajorVersion, DeviceManifestXMLMinorVersion, DeviceManifestXMLSubMinorVersion, DeviceManifestSchemaMajorVersion, DeviceManifestSchemaMinorVersion, DeviceTLVersionSubMinor, DeviceType, BinningSelector</p>
11	<p><u>Modification</u></p> <p>Modified ExposureAuto to Exposure Auto(added space) on DisplayName in ExposureAutoLimitMax and ExposureAutoLimitMin</p>
12	<p><u>Modification</u></p> <p>Deleted UTF16 on DeviceCharacterSet</p>
13	<p><u>Modification</u></p> <p>Modified TestPendingAck from Standard to Custom</p>
14	<p><u>Modification</u></p> <p>Modified PixelSize's option Bpp40 to Standard to Custom</p>
15	<p><u>Modification</u></p> <p>Modified option on PixelFormat that was not described on SNFC from Standard to Custom</p>
16	<p>[SFNC2.2compliance]</p> <p><u>Modification</u></p> <p>Added ImageComponentSelector, ImageComponentEnable</p>
17	<p>[SFNC2.2compliance]</p> <p><u>Modification</u></p> <p>Added PixelFormatInfoSelector, PixelFormatInfoID</p>
18	<p>[SFNC2.2compliance]</p> <p><u>Modification</u></p> <p>Added ExposureTimeSelector</p>
19	<p><u>Modification</u></p> <p>Added TestControl on category, moved TestPendingAck to this category</p>
20	<p><u>Modification</u></p> <p>Modified value on DeviceSFNCVersionMinor as 2</p>

2.4 Specifications added (CMOSIS CMOS Sensor camera)

No.	Descriptions
1	[SFNC2.0 compliance] Added EventID on Event

end