

MX4 Firmware Update

3 Configurations:

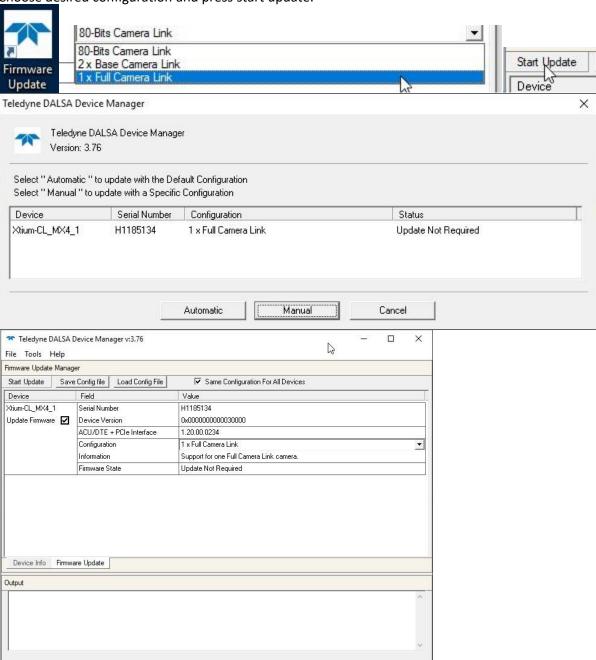
1x Full Camera Link supports one camera in 2-Tap Base, 4-Tap Medium, or 8-Tap Full mode.

2x Base Camera Link supports two cameras in 2-Tap Base mode.

80-bits Camera Link supports one camera in 8-Tap 10-bit mode or 10Tap 8-bit mode.

Spark Is configured to work in 2Tap base mode and mx4 in 1x full camera link.

Choose desired configuration and press start update.



Device Control

Camera Control

User Set Control

Flat field correction

Camera Link

Privilege

Image Format Control

±...

±...

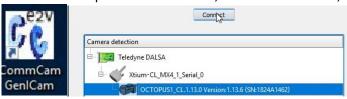
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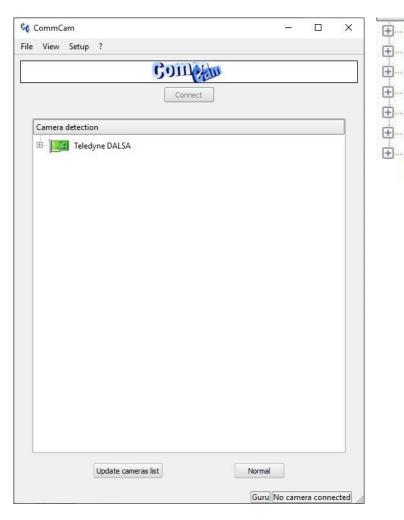
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+---



Expand out the results, click on the camera, and press connect. CommCam









Internal Line Trigger with Exposure Time Internally controlled

Internal Line Trigger with Exposure Time Internally controlled

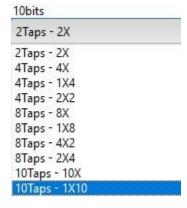
Internal Line Trigger with Maximum Exposure Time External Line Trigger with programmable Exposure Time External Line Trigger with Maximum Exposure Time



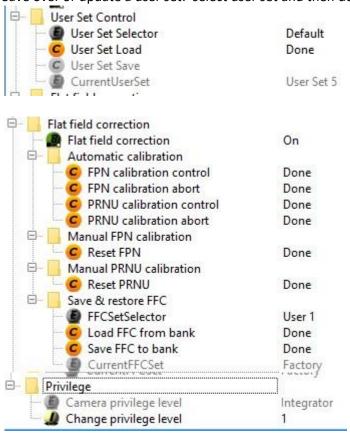




Select CameraLink Resolution of 10-bits to be able to Use 8 Taps or More configurations.



Open a user set: Select User Set and then doubleclick Done button beside User Set Load Save over or update a user set: select user set and then double click Done button beside User Set Save





User Set 1 12-bit 2 Tap Base Mode External Trigger Default User Set that should be loaded for Spark





User Set 2 12-bit 4Tap Medium Mode

Camera Control Line Period	10 us
Line Period Line Period Min	7.65 us
Acquisition LineRate	100 kHz
Exposure Time	9.28 us
Exposure Time Min	1.3 us
Exposure Time Max	9.28 us
Delay	1.3 us
Trigger Jitter	0.01 us
Synchronisation Mode	External Line Trigger with programmable Exposure Time
- GPI State	Off
Number of Missed Trigger	0
Reset Missed Trigger	Done
Preamp Gain	x1
Gain Gain	1
Offset	20
Binning Enable	Off
Test Image Selector	Off
🛂 Test Image Height	1024
💹 Test Image Constant	2048
🦢 🥝 Reboot camera	Done
Camera Link	
 CameraLink Resolution 	12bits
CameraLink Geometry	4Taps - 4X
CameraLink Geometry Order	Normal
Output Frequency	85 MHz
Reverse X	Off
User Set Control	
User Set Selector	User Set 2
User Set Load	Done
User Set Save	Done
CurrentUserSet	User Set 2

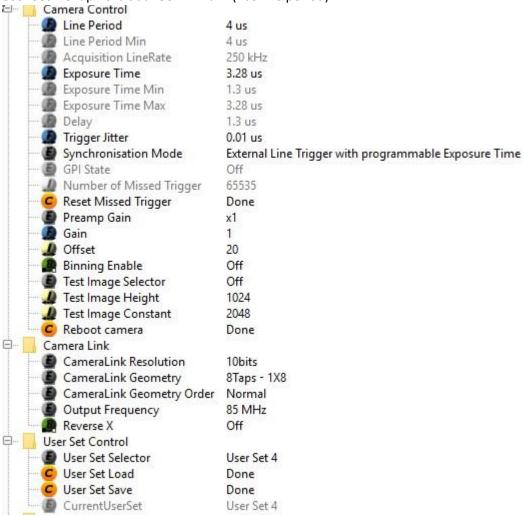


User Set 3 8Tap 10-bit Deca Mode





User Set 4 8Tap 10-bit at 250khz max (4us line period)





Camexpert

Basic Timing	Camera Type	Linescan	
Advanced Control	Color Type	Monochrome	
External Trigger	Pixel Depth	12	
Image Buffer and ROI	Horizontal Active	. 2048	
	Horizontal Offset .	0	
	Pixel Clock Input	. 85	
	Data Valid	Disabled	
	Camera Sensor G	1X2-1Y	
	PoCL	Disabled	
	PoCL Status	Not Active	
:	Parameter	Value	
Basic Timing	Line Sync Source	External Line Trigge	
Advanced Control	Internal Line Trig	5000	
External Trigger	Camera Line Trig	1	
00 + 5 + 4 (14 d) 20 + 3 (4 d) 20 + 5 (4 d) 20 + 5 (4 d)	Camera Line Trig	16700000	
Image Buffer and ROI	Camera Control	Line Trigger	
	Line Integration	None	
	Line Trigger Meth	Method 1	
	Strobe Method S	NI	

Line Trigger Auto... Disable

Board Sync Outp... Disabled Board Sync Outp... Disabled

Microseconds

Pulse #1

Not Used

Not Used

Not Used

Time Stamp Base

CC1 CC2

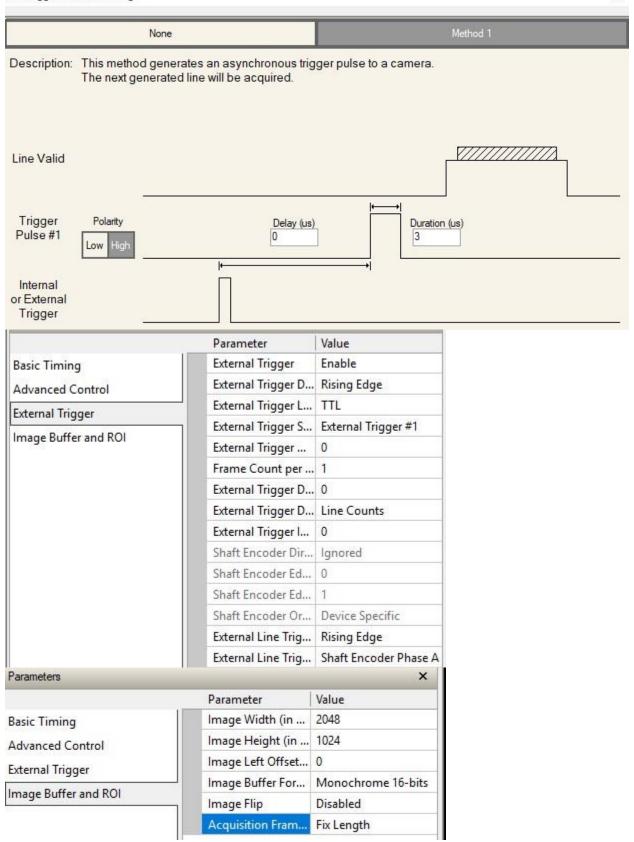
CC3

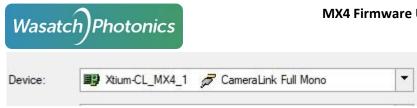
CC4

X

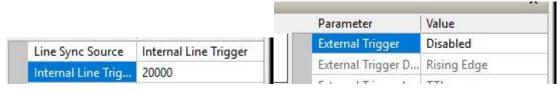


Line Trigger Method Setting

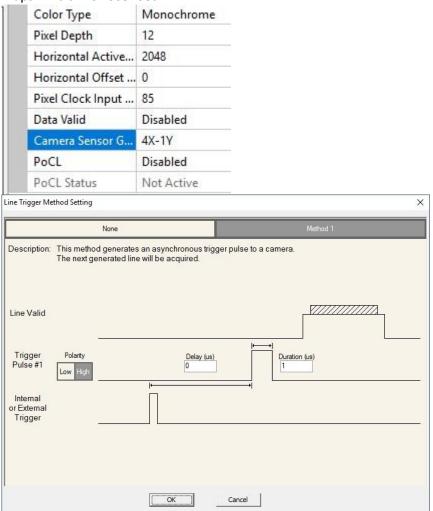




FreeRun or Generate Line Trigger Mode: Frame grabber generates its own line trigger pulse to send to camera so the camera will acquire in either external or internal trigger mode set in Commcam even when the oct system is not generating triggers.



4Taps 12-bit for User Set 2

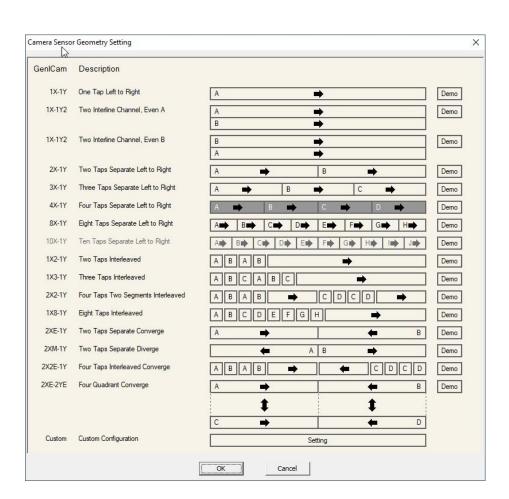




MX4 Firmware Update and CommCam Modes Info

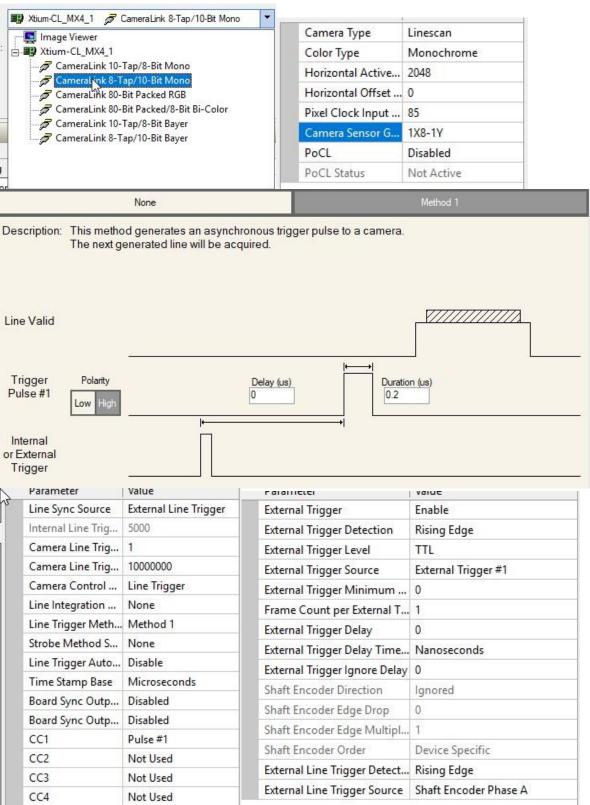
FreeRun/Generate Mode







8Tap 10-Bit Deca Mode for User Set 3 or 4



MX4 Firmware Update and CommCam Modes Info



Image Width (in Pixels)	2048
Image Height (in Lines)	1024
Image Left Offset (in Pixels)	0
Image Buffer Format	Monochrome 16-bits
lmage Flip	Disabled
Acquisition Frame Length	Fix Length

FreeRun/Generate 100 and 250khz

Line Sync Source	Internal Line Trigger	Line Sync Source	Internal Line Trigge
Internal Line Trigger Fre	equ 100000	Internal Line Trigger Frequ	250000
Parameter	Value		
External Trigger	Disabled		
External Trigger D	Rising Edge		
	TTI		