

The DVR



Software

Cameras

Recorders



Flare™

High Resolution

Motion Capture

- » 2 MegaPixels at 360 fps
- » 4 MegaPixels at 180 fps

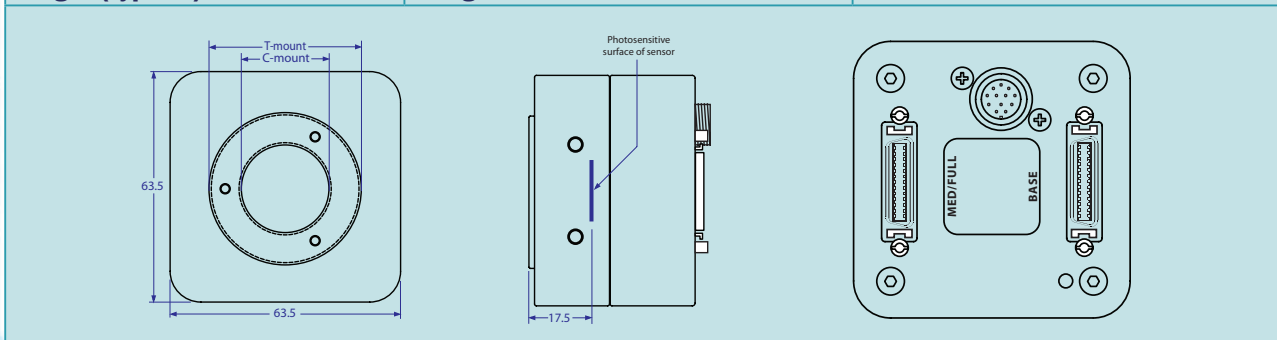


← Comprehensive camera control

Specifications

Camera Specifications			Spectral Response
Camera Model	2M360 - CL	4M180 - CL	
Sensor Size (H x V)	2048 x 1088 pixels	2048 x 2048 pixels	
Frame Rate	340 fps	180 fps	
Optical Size	2/3"	1"	
Shutter	Pipelined Global Shutter with CDS		
Pixel Size (m)	5.5 x 5.5		
Sensor Type	60 dB CMOS		
Image Type	Mono / Color (Bayer)		
Pixel Format	8 bit or 10bit		
Data Output Type (Interface)	Camera Link Base, Medium, Full, or Full 80-bit		
CL Pixel Clock	80 MHz		
CL Tap Geometry	(2x, 3x, 4x, 8x, 10x) 8-bit, (2x, 4x, 8x) 10-bit		
Synchronization	Via external trigger or free-run		
Exposure Control	Trigger width or timed		

Mechanical / Electrical Specifications		
Housing Size	63.5 mm x 63.5 mm x 44.1 mm	
Housing Temperature	Up to 45°C	
Lens Mount	C- Mount or T-Mount	
Ports	(2) MDR 26-pin, (1) 12-pin Hirose	
Power Requirements	12 VDC (via Hirose or PoCL)	
Power Consumption (typical)	2.5 W	
Weight (typical)	310 g	



DVR EXPRESS

CORE

RECORD

TRANSPORT

DOWNLOAD



IOI

DVR Express® Core Camera Link Base



- » • (2) Camera Link Base inputs
- » • Maximum input clock frequency of 85MHz
- » • Supports monochrome (8 to 16bits) and color (Bayer or RGB)

DVR Express® Core Camera Link Full



- » • (1) Camera Link Full or Medium, or (2) Camera Link Base inputs
- » • Maximum input clock frequency of 85MHz
- » • Supports monochrome (8 to 16bits) and color (Bayer or RGB)

DVR Express® Core GigE Vision



- » • (2) GigE Vision™ inputs
- » • Full support for GenICam™ cameras

DVR Express® Core 3G-SDI



- » • (2) 3G/HD/SD-SDI inputs with repeaters
- » • SMPTE : 425M, 260M, 259M, 274M, 296M, 125M
- » • Includes : 1080p, 1080i, 720p, 720i, 480p, 480i
- » • Contact IO Industries about SMTPE audio and other standards

DVR Express® Core NTSC / PAL



- » • (4) Analog composite inputs
- » • Supports NTSC and PAL formats

DVR Express® Core S-Video



- » • (4) Analog S-Video inputs

4 解析度與速度對應表

Frame Rate (Hz)	Resolution															
	2048 x 2048*	2048 x 1536*	2048 x 1080	1920 x 1080	1280 x 1024	1280 x 1024	1024 x 1024	960 x 576	720 x 480	640 x 480	320 x 240	480 x 360	640 x 480	720 x 480	960 x 576	1280 x 720
2 x 8/10	38	50	71	75	120	150	171	266	410	504	833	1475	1475	1475	1475	1475
3 x 8	56	75	107	114	180	224	256	395	630	756	1000	1475	1475	1475	1475	1475
4 x 8/10	75	100	143	150	239	299	339	527	756	756	1000	1475	1475	1475	1475	1475
8 x 8/10	150	199	284	298	359	359	508	633	756	756	1000	1475	1475	1475	1475	1475
10 x 8	180	240	341	341	359	359	508	633	756	756	1000	1475	1475	1475	1475	1475
Camera Link Configuration																

- * Flare 4M180CL, all other frame rates based on Flare 2M360CL.

- Increase in frame rate with every windowed line.

- Horizontal resolution broken into 16 'zones' (every 128 columns). Sensor output channels and master clock varies depending on zone and CL configuration to maximize the pixel rate. No horizontal increase in 10x8-bit CL Plus mode (sensor at max).

- Maximum sensor speed using 16 output channels and 48MHz master clock.

