

FlareTM

2MP/4MP CAMERAS



Video cameras with CMOSIS CMV2000 & CMV4000 Sensors

APPLICATIONS

Automated Inspection

High Speed Motion Analysis

Research Imaging

Specialty Video Production



FEATURES INCLUDE:

- Monochrome, Colour and Near-IR Models
- Global Shutter CMOS with CDS
- Camera Link Output
- C-mount or optional Active EF-mount
- Selectable 8-bit or 10-bit Data Formats
- Multiple ROIs and Subsampling
- High Sensitivity with Low Noise
- Low Power Consumption

SPECIFICATIONS

Camera Model	Flare 2MP	Flare 4MP
Sensor Size (H x V)	2048 x 1088	2048 x 2048
Frame rate (full resolution)	337 fps (8-bit), 281 fps (10-bit)	179 fps (8-bit), 149 fps (10-bit)
Optical Format	Approx. 2/3" (12.7mm diagonal)	1" (15.9mm diagonal)
Sensor Type	CMOS w. global electronic shutter	
Sensor Options	Monochrome, color (Bayer) or NIR-enhanced monochrome	
Pixel Size	5.5 x 5.5µm	
Dynamic Range / Sensitivity	60 dB, 5.56 V/lux.s	
Output Configurations	Base, Medium, Full, Full 80-bit (80MHz Pixel Clock)	
Pixel Bit Depth	8-bit or 10-bit	
Exposure Control	Trigger width, timed, or auto-exposure control	
Image Correction	Column-based FPN/PRNU correction, bad pixel replacement	
Color Processing	Auto white balance (tracking or manual), programmable LUTs	
Camera Configuration	ASCII commands or Flare Control software	
Mechanical/Electrical		
Dimensions	63.5 mm x 63.5 mm x 44.1 mm	
Lens Mount	C-mount or T-mount (M42 x 0.75)	
Weight	310g	
Power Requirements	2.5W, 12V DC via Hirose 12-pin or PoCL	
Additional I/O (Hirose 12-pin)	Opto-isolated trigger input/output, EF-mount lens control interface	
Operating Temperature	-10°C to 50°C, 20-85% humidity (non-condensing)	
Storage Temperature	-40°C to 85°C, 10-90% humidity (non-condensing)	

ORDERING

Example: 2M360CCL-E

Camera
2M360
4M140

E - Enhanced Noise Reduction
(available for 2M360CCL only)
N - No IR filter installed
(available for color models only)

Sensor Type

M - Monochrome
C - Color (with IR filter)
N - Near-IR Enhanced Monochrome

Interface

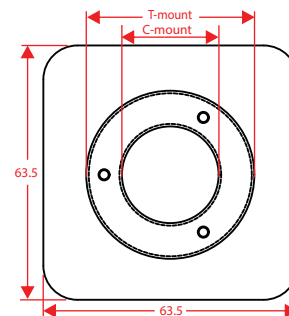
CL - Camera Link

FRAME RATE CHART

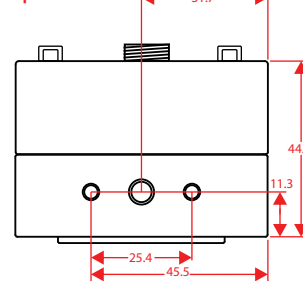
Frame Rates by Resolution and Bit Depth	2M360xCL (CL Full 80-bit)		4M180xCL (CL Full 80-bit)	
	8-bit	10-bit	8-bit	10-bit
2048 x 2048	-	-	179	149
2048 x 1536	-	-	238	198
2048 x 1088	337	281	334	278
1920 x 1080	340	283	337	280
1280 x 1024	358	298	355	295
1280 x 720	507	422	500	417
800 x 600	607	505	597	497
640 x 480	755	629	740	616

MECHANICAL DIAGRAMS

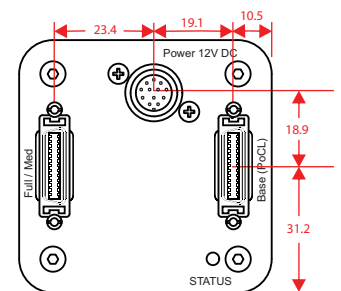
Front



Top



Rear



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Datasheet Rev. 4.0 (07/26/2021)
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