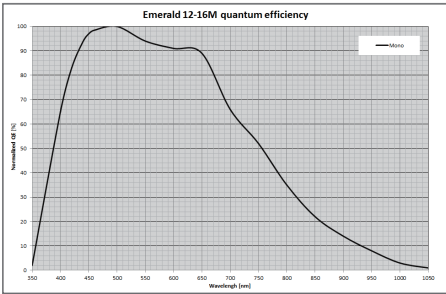


SkyCAM 16M/12M Series

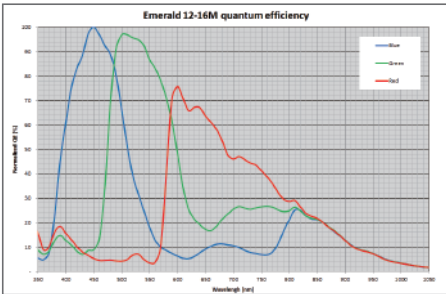
SkyCAM 16M/12M Industrial Camera



◆ Quantum Efficiency



EV2S16M - Quantum Efficiency for Mono Version



EV2S16M - Quantum Efficiency for Color Version

◆ Product Features

- 16MP/12MP CMOS Sensor
- Compact C/CS-Mount for Cost-effectiveness
- Electronic Global Shutter with precise exposure control
- Support CameraLink Base and Full configuration
- Compatible USB3 Vision & GenICam
- Provide DK for Camera control / image acquisition
- Support pixel based flat field correction (FFC)

◆ Specification Table

Features / Model	SkyCAM AMCL-EV16M40	SkyCAM AMCL-EV16M23	SkyCAM ACCL-EV16M10	SkyCAM AMCL-EV12M31	SkyCAM ACCL-EV12M14
CMOS Sensor	Teledyne e2v Emerakd 16M High Speed	Teledyne e2v Emerakd 16M Standard Speed		Teledyne e2v Emerakd 12M Standard Speed	
Resolution (H xV)	4096 x 4096			4096 x 3072	
Pixel Size	2.8μm square pixels with shifted micro-lens				
Sensor Technology/shutter	CMOS / Global Shutter				
Sensor Size (optical)	1 Inch				
Frame Rate	40 fps	23 fps	10 fps	31 fps	14 fps
Mono / Color	Monochrome	Monochrome	Color	Monochrome	Color
Video Output Format	Mono 8-bit	Mono 8-bit	Color 24-bit	Mono 8-bit	Color 24-bit
Output Interface	CameraLink SDR-26 x 2				
Output Standard	Mono Full 8 Taps @ 85MHz Mono Base 2 Taps @ 85MHz		RGB Medium 2 Taps @ 85MHz RGB Base 1 Tap @ 85MHz	Mono Full 8 Taps @ 85MHz Mono Base 2 Taps @ 85MHz	RGB Medium 2 Taps @ 85MHz RGB Base 1 Tap @ 85MHz
Analog Gain	1 / 1.5 / 2 / 3 / 4 / 6 / 8x				
Digital Gain	0.01~16x				
Signal to Noise Ration	>39 dB				
Dynamic Range	> 55 dB @ 8-bit				
Synchronization	External Trigger / Software Trigger / Free Run				
Exposure Control	Programmable - 10.4μS ~ 10S	Programmable - 20.8μS ~ 10S			
Dimensions (L x W x H)	60 x 60 x 42.5mm (without lens adapter and connectors)				
Lens Mount	C-Mount / CS-Mount / M42-Mount				
Digital Input / Output	2 Opto-isolated Input / 2 Opto-isolated Output				
Power & I / O Connector	Hirose ix Industrial - IX80G-B-10P				
Power Consumption (typical)	6.3W @ DC 24V Input				
Weight (typical)	242 g				
Operating Temperature	-20 to +60°C (housing temperature)				
Power Input	DC 9V~26V				

Model Guide

SkyCAM	—	AM	CL	—	EV	16M	40
Series SkyCAM=SkyCAM Series Highspeed Camera		Line/Area & Mono/Color AM = Area Scan Mono AC = Area Scan Color	Interface CL = Camera Link U3 = USB3		Sensor Brand EV = e2V	Pixel 16M = 16MP	Frame Rate 40 = 40fps

Dimensional Drawing

4-M3 $\varnothing$ 4 For Installation 4-M3 $\varnothing$ 6 For Installation 1-32 UNF For C/CS-Mount Lens Installation Power & I/O CameraLink CameraLink USB3.0	2-M3 $\varnothing$ 6 For Installation 1-32 UNF For C/CS Mount Lens Installation Power & I/O USB3.0
• SkyCAM AMCL - EV16M40 / EV16M23 / EV12M31 ACCL - EV16M10 / EV12M14	• SkyCAM AMU3 - EV16M22B / EV12M29B ACU3 - EV16M22B / EV12M29B

Features / Model	SkyCAM AMU3-EV16M22B	SkyCAM ACU3-EV16M22B	SkyCAM AMU3-EV12M29B	SkyCAM ACU3-EV12M29B
CMOS Sensor	Teledyne e2v Emerakd 16M Standard Speed		Teledyne e2v Emerakd 12M Standard Speed	
Resolution (H xV)	4096 x 4096		4096 x 3072	
Pixel Size	2.8μm square pixels with shifted micro-lens			
Sensor Technology/shutter	CMOS / Global Shutter			
Sensor Size (optical)	1 Inch			
Frame Rate	22 fps	22 fps	29 fps	29 fps
Mono / Color	Monochrome	Color	Monochrome	Color
Video Output Format	Mono 8/10	Bayer 8/10	Mono 8/10	Bayer 8/10
Output Interface	Micro-B with Lock			
Output Standard	USB3 Vision			
Analog Gain	1 / 1.5 / 2 / 3 / 4 / 6 / 8x			
Digital Gain	0.01~16x			
Signal to Noise Ration	>39 dB			
Dynamic Range	> 55 dB @ 8-bit			
Synchronization	External Trigger / Software Trigger / Free Run			
Exposure Control	Programmable - 20.8μS ~ 10S			
Dimensions (L x W x H)	49 x 46 x 42.5mm (without lens adapter and connectors)			
Lens Mount	C-Mount / CS-Mount			
Digital Input /Output	2 Opto-isolated Input / 2 Opto-isolated Output			
Power & I / O Connector	Hirose ix Industrial - IX80G-B-10P			
Power Consumption (typical)	4.5W @ DC 24V Input, 3.9W @ USB 5V			
Weight (typical)	150g			
Operating Temperature	-20 to +60°C (housing temperature)			
Power Input	DC 9V~26V			