

Model: **MARS4H**



Part Number	MARS4H	MARS4H-AS	MARS4HW	MARS4HW-AS		
Pixels	4M	4M	4M	4M		
Resolution	2048*2048	2048*2048	2048*2048	2048*2048		
Frame Rate@Full Resolution	180	180	180	180		
Image Sensor	Frame Rate@Partial Resolution	2048*1512@240FPS 2048*720@500FPS 2048*416@800FPS 2048*152@2000FPS	2048*1512@240FPS 2048*720@500FPS 2048*416@800FPS 2048*152@2000FPS	2048*1512@240FPS 2048*720@500FPS 2048*416@800FPS 2048*152@2000FPS	2048*1512@240FPS 2048*720@500FPS 2048*416@800FPS 2048*152@2000FPS	
	Frame Rate Adjustment	Adjustable	Adjustable	Adjustable	Adjustable	
	Latency(ms)	5.20	5.20	5.20	5.20	
	Type of Exposure	global	global	global	global	
	Exposure Speed	Settable	Settable	Settable	Settable	
	Track Performance and Range	Accuracy	±0.1mm	±0.1mm	±0.25mm	±0.25mm
		Observation Distance(with 15mm diameter markers) ^{[1][2]}	32m	Affected by sunlight intensity	20m	Affected by sunlight intensity
Active Marker Supported		Yes	Yes	Yes	Yes	
Camera		Lens Specification	12mm	12mm	6mm	6mm
	Field of View(FOV)	52°*52°	52°*52°	90°*90°	90°*90°	
	Aperture Adjustable	Yes	Yes	Yes	Yes	
	Focus Adjustable	Yes	Yes	Yes	Yes	
	LEDs	Number ^[3]	22	22	22	22
Type		HLED	HLED	HLED	HLED	
Brightness Adjustable		Yes	Yes	Yes	Yes	
Wavelength		850nm	850nm	850nm	850nm	
Interface and Power Supply	Connection Type	GigE/POE	GigE/POE	GigE/POE	GigE/POE	
	Power Consumption	18W	18W	18W	18W	
	Sync Interface	3.5mm AUX	3.5mm AUX	3.5mm AUX	3.5mm AUX	
	Sync Signal Output	Optional	Optional	Optional	Optional	
Product Appearance and Operating Conditions	Shell Material	Metal	Metal	Metal	Metal	
	Size	126*140.5*142mm	126*140.5*142mm	126*132*142mm	126*132*142mm	
	Weight	1.3kg	1.3kg	1.23kg	1.23kg	
	Mounting Hole	1/4"	1/4"	1/4"	1/4"	
	Number of Mounting Holes	2	2	2	2	
	Temperature Range	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C	
	Humidity	< 80%	< 80%	< 80%	< 80%	
Outdoor	No	Suitable for sunlight use	No	Suitable for sunlight use		
Others	Packaging	Eco-friendly, simple carton packaging				
	Integration	Flexible, standard network cable connections for easy adaptability to different usage scenarios				
	Heat Dissipation	Fanless passive heat dissipation structure, for silent operation, minimal dust accumulation, and optimal heat dissipation				

Key Features

- Lightweight metal shell, effortless installation with versatile mounting options for diverse and challenging environments.
- Seamless integration with force plates, EMG devices, and more through TTL triggering.
- In-house research and development ensuring outstanding quality control and dedicated after-sales support.

Note

- [1] Observation distance depends on marker diameter.
- [2] To increase distance, add light source, use bigger or active markers.
- [3] LED number is customizable.

