

Model: **MARS18H**



Part Number	MARS18H	MARS18H-AS	MARS18HW	MARS18HW-AS
Image Sensor				
Pixels	18M	18M	18M	18M
Resolution	4508*4096	4508*4096	4508*4096	4508*4096
Frame Rate@Full Resolution	139	139	139	139
Frame Rate@Partial Resolution	4508*664@800fps 4508*240@2000fps	4508*664@800fps 4508*240@2000fps	4508*664@800fps 4508*240@2000fps	4508*664@800fps 4508*240@2000fps
Frame Rate Adjustment	Adjustable	Adjustable	Adjustable	Adjustable
Latency(ms)	5.00	5.00	5.00	5.00
Type of Exposure	global	global	global	global
Exposure Speed	Settable	Settable	Settable	Settable
Track Performance and Range				
Accuracy	±0.04mm	±0.04mm	±0.15mm	±0.15mm
Observation Distance(with 15mm diameter markers) <sup>[1][2]</sup>	28m	Affected by sunlight intensity	18m	Affected by sunlight intensity
Active Marker Supported	Yes	Yes	Yes	Yes
Camera				
Lens Specification	12mm	12mm	6mm	6mm
Field of View(FOV)	52°*47°	52°*47°	90°*82°	90°*82°
Aperture Adjustable	Yes	Yes	Yes	Yes
Focus Adjustable	Yes	Yes	Yes	Yes
LEDs				
Number <sup>[3]</sup>	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	25W	25W	25W	25W
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	1.367kg	1.367kg	1.3kg	1.3kg
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.

