



### M-101

1280 x 1024 up to 1000fps

### M-105

1280 x 1024 up to 5000fps

### M-103

1280 x 1024 up to 3000fps

### M-108

1280 x 1024 up to 8000fps

## BALANCE BETWEEN COST AND PERFORMANCE

YUKI M-Series strikes balance between cost and performance. Industry leading light sensitivity high speed camera with ISO56000(M) and ISO21000 (C), YUKI M series provides unparalleled image quality. Recording 8000fps at full resolution of 1280x1024 packed with full features make this camera ideal for almost all field application in research, ballistic, automotive, industrial and semiconductor.

### Unique features:

- ✓ 100ns minimum exposure time
- ✓ Recording memory up to 64GB RAM or up to 4TB SSD
- ✓ Customisable at up to 65 degree C operating temperature
- ✓ Supports up to 64GB memory partitions
- ✓ Dynamic adjustment of resolution and frame rate
- ✓ Lens interface: SONY E lens, Nikon FG lens, or C-mount
- ✓ Adaptive Gigabit Ethernet, up to 10-GigE speed

Model:	M-101	M-103	M-105	M-108
Max. Resolution	1280 X 1024			
Max. Speed at sensor resolution	1000fps	3000fps	5000fps	8000fps
Max. Recording Speed at reduced res.	70000fps	200000fps	350000fps	550000fps
Sensor Pixel Size	14.6µm			
Min. Exposure Time	1µs (option up to 100ns)			
Shutter	Global Shutter			
Dynamic Range	60dB			
Bit Depth	8 / 10 / 12 bit			
Sensitivity	ISO 56000 (Monochrome) ISO 21000 (Color)			
Analog Gain	2x 4x 8x			
Recording Memory	RAM: 16GB / 32GB / 64GB SSD: 1TB / 2TB / 4TB			
Data Interface	10GigE , Adaptive Gigabit Ethernet			
Video Signal Output	Ethernet			
Trigger Mode	Software / IO / IAC (Image Auto Capture)			
I/O Signal	INPUT : Trigger (TTL/Switch), RS422, SYNC, Ready, Event, IRIG OUTPUT : Trigger, SYNC, Ready, Event			
Operating Temperature	-10 to 50 degree Celsius -40 to 65 degree Celsius (customizable)			
Humidity	<95% (without condensation)			
Dimension, weight	L90 x W110 x H110 mm (exclude lens) , Weight <1.6Kg			
Power	DC 24V , <30W			
Shock Resistance	150g / 11ms all axis, spikes up to 200g			

*Specifications subject to change without prior notice*

#### M-101

Resolution	Recording Speed	Recording Time	
		16GB / 32GB / 64GB	1TB / 2TB / 4TB
1280 x 1024	1000 fps	13s / 26s / 52s	13min / 26min / 28min
1280 x 800	1280 fps	13s / 26s / 52s	13min / 26min / 28min
1280 x 512	2000 fps	13s / 26s / 52s	13min / 26min / 28min
1280 x 256	4000 fps	13s / 26s / 52s	13min / 26min / 28min
1280 x 128	8000 fps	13s / 26s / 52s	13min / 26min / 28min
1920 x 8	70000 fps	23s / 46s / 92s	24min / 48min / 96min

#### M-103

Resolution	Recording Speed	Recording Time	
		16GB / 32GB / 64GB	1TB / 2TB / 4TB
1280 x 1024	3000 fps	4.3s / 8.6s / 17.2s	3.7min / 7.4min / 14.8min
1280 x 800	3800 fps	4.3s / 8.6s / 17.2s	3.7min / 7.4min / 14.8min
1280 x 512	6000 fps	4.3s / 8.6s / 17.2s	3.7min / 7.4min / 14.8min
1280 x 256	12000 fps	4.3s / 8.6s / 17.2s	3.7min / 7.4min / 14.8min
1280 x 128	24000 fps	4.3s / 8.6s / 17.2s	3.7min / 7.4min / 14.8min
1920 x 8	200000 fps	8.3s / 16.6s / 33.2s	8.8min / 17.6min / 35.20

#### M-105

Resolution	Recording Speed	Recording Time	
		16GB / 32GB / 64GB	1TB / 2TB / 4TB
1280 x 1024	5000 fps	2.6s / 5.2s / 10.4s	166s / 332s / 664s
1280 x 800	6400 fps	2.6s / 5.2s / 10.4s	166s / 332s / 664s
1280 x 512	10000 fps	2.6s / 5.2s / 10.4s	166s / 332s / 664s
1280 x 256	20000 fps	2.6s / 5.2s / 10.4s	166s / 332s / 664s
1280 x 128	40000 fps	2.6s / 5.2s / 10.4s	166s / 332s / 664s
1920 x 8	350000 fps	4.7s / 9.4s / 18.8s	5min / 10min / 20min

#### M-108

Resolution	Recording Speed	Recording Time	
		16GB / 32GB / 64GB	1TB / 2TB / 4TB
1280 x 1024	8000 fps	1.6s / 3.2s / 6.4s	102s / 204s / 408s
1280 x 800	10000 fps	1.6s / 3.2s / 6.4s	102s / 204s / 408s
1280 x 512	16000 fps	1.6s / 3.2s / 6.4s	102s / 204s / 408s
1280 x 256	32000 fps	1.6s / 3.2s / 6.4s	102s / 204s / 408s
1280 x 128	64000 fps	1.6s / 3.2s / 6.4s	102s / 204s / 408s
1920 x 8	550000 fps	3s / 6s / 12s	192s / 384s / 768s

**Notes:**

- 1) Model M-101 and M-103 support real time recording under 8-bit grayscale.
- 2) SSD version supports real-time write speeds a 30Gbps maximum.

Specifications subject to change without prior notice

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