

Specifications		
Model	VA-1MG2	
Resolution (H × V)	1024 × 1024	
Sensor (Truesense Imaging)	KAI-01050	
Sensor Size (Optical Format)	1/2"	
Sensor Type	Progressive Scan Interline Transfer CCD	
Pixel Size	5.5 μm × 5.5 μm	
Sensor Output	1 or 2 Tap	
Pixel Data Format	8/10/12 bit	
Output Format	Mono	Mono8, Mono10, Mono10 packed, Mono12, Mono12 packed
	Color	Bayer8, Bayer10, Bayer10 packed, Bayer12, Bayer12 packed
Interface	Gigabit Ethernet	
Electronic Shutter	Global Shutter	
Shutter Speed (10 μs step)	7 μs ~ 7 s	
Partial Scan (Max. Speed)	193 fps at 120 Lines	
Binning	×1, ×2, ×3, ×4, ×8 (Horizontal and Vertical Independent)	
Lookup Table	G = 1.0, User defined LUT (Look Up Table)	
Black Level	Adjustable (0 ~ 127 LSB at 12 bit, 256 steps)	
Gain Control	Analog: ×1 ~ ×40 (0 ~ 32 dB)	
Max. Frame Rate	40 fps / 72 fps	
Data Output Pixel Clock Speed	40 / 50 MHz	
Exposure Mode	Timed Exposure, Trigger Width Exposure, Double Exposure	
Dynamic Range	> 64 dB	
Camera Image Memory	128 MB	
Dimension (W×H×L)/ Weight	68 mm × 68 mm × 54 mm / 420 g (with C-mount) 68 mm × 68 mm × 83 mm / 460 g (with F-mount)	
Temperature	Operating: -5°C ~ 40°C, Storage: -40°C ~ 70°C	
Lens Mount	C-mount or F-mount	
Power	10 ~ 15 V DC, Max. 6W	
API SDK	Vieworks Imaging Solution 6.X	

### Power



1 2 3 : +12V DC, 4 5 6 : GND  
(HR10A-7R-6PB)

### Control



1 : Trigger IN+, 2 : Trigger IN-  
3 : Strobe OUT- (GND), 4 : Strobe OUT+  
(HR10A-7R-4SB)

