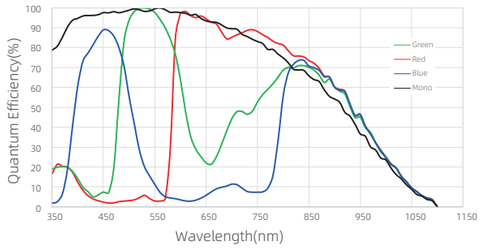
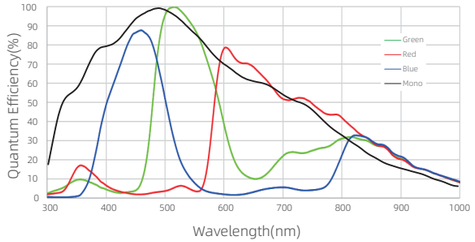
Spectral Response Curves

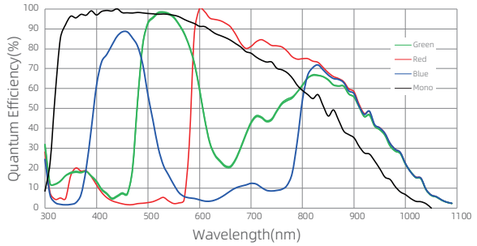
VC21-004SM/C-450-X & VC21-016SM/C-246-X



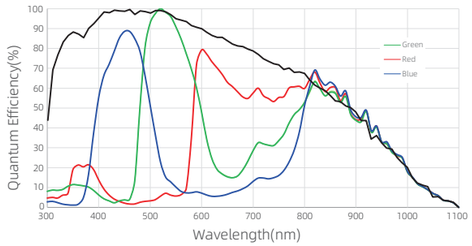
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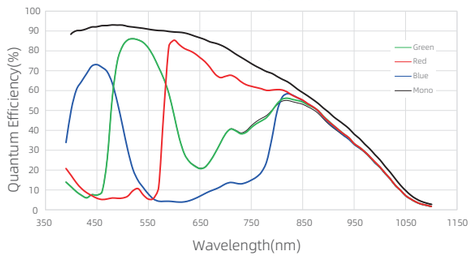
VC21-050SM/C-060-X



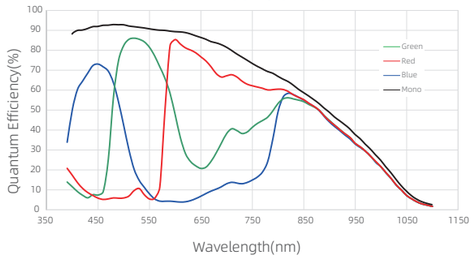
VC21-060SM/C-060-X



VC21-080SM/C-050-X



VC21-120SM/C-030-X



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Features

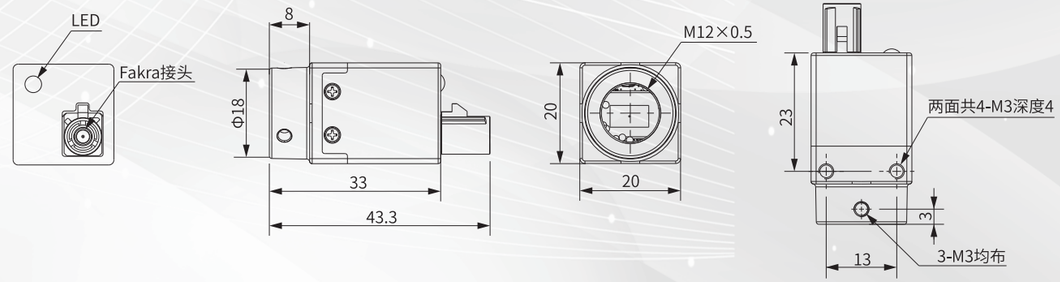
- Up to 6Gbps bandwidth
- High stability, reliable connection for 15 m transmission, and no frame loss
- Support plug and play with simple configuration
- Ultra-small size: 20 mm x 20 mm
- Power supply, data transmission, and signal control through a single cable
- Power consumption as low as 0.7W



Application Fields

- 3C, semiconductor, PCB, lithium battery, and silicon crystal

Diagrams of Outline Dimensions



Technical Data

Model		VC21-004SM-450-X	VC21-004SC-450-X	VC21-016SM-246-X	VC21-016SC-246-X	VC21-020SM-130-X	VC21-020SC-130-X	VC21-050SM-060-X	VC21-050SC-060-X	VC21-060SM-060-X	VC21-060SC-060-X	VC21-080SM-050-X	VC21-080SC-050-X	VC21-120SM-030-X	VC21-120SC-030-X
Image-related data	Sensor type	OG02C1B	OG02C1B	OG02C1B	OG02C1B	SC235HGS-MS	SC235HGS-CS	OG05B1B	OG05B10	OS06A1B	OS06A10	AR0822	AR0822	AR1223	AR1223
	Max. resolution	720×540	720×540	1440×1080	1440×1080	1600×1200	1600×1200	2592×1944	2592×1944	3200×1944	3200×1944	3840×2160	3840×2160	4096×3046	4096×3046
	Sensor size	1/2.5"	1/2.5"	1/2.5"	1/2.5"	1/2.6"	1/2.6"	1/2.53"	1/2.53"	1/2.4"	1/2.4"	1/1.8"	1/1.8"	1/1.6"	1/1.6"
	Pixel size (μm)	6.9	6.9	3.45	3.45	3.45	3.45	2.2	2.2	2	2	2	2	2	2
	Color	Mono	colour	Mono	colour	Mono	colour	Mono	colour	Mono	colour	Mono	colour	Mono	colour
	Image format	Mono8/10	Bayer GB 8/10	Mono8/10	Bayer GB 8/10	Mono 8/10	Bayer BG 8/10	Mono 8/10	Bayer BG 8/10	Mono 8/10	Bayer BG 8/10	Mono 8/10	Bayer GR 8/10	Mono 8/10	Bayer GR 8/10
	Shutter	Global						Global		Rolling					
	Max. frame rate (fps)	450	450	246	246	130	130	60	60	60	60	50	50	30	30
	Data depth (bit)	10/8						10/8							
	Dynamic range (dB)	65.2	65.2	65.2	65.2	61.5	61.5	71	71	66	66	78	78	78	78
	Signal-to-noise ratio (dB)	40.8	40.8	40.8	40.8	37.5	37.5	39	39	39	39	39	39	39	39
	Exposure time	6.9us-227.04ms	6.9us-227.04ms	6.9us-227.04ms	6.9us-227.04ms	40μs ~ 400ms Step length 6.17μs	40μs ~ 400ms	47μs ~ 1sec Step length 7.8μs	47μs ~ 1sec	16.6μs ~ 1 sec Step length 8.3μs	16.6μs ~ 1sec	13.1μs ~ 859ms Step length 9.1μs	13.1μs ~ 859ms	10.4μs ~ 684ms Step length 10.4μs	10.4μs ~ 684ms
Electrical features	Data interface	S2.0						S2.0							
	Power supply interface	S2.0						S2.0							
	Digital I/O	Not applicable; connection settings with S-interface frame grabber						Not applicable; connection settings with S-interface frame grabber							
	Power (W)	0.816	0.816	0.9	0.9	0.7	0.7	0.9	0.9	0.6	0.6	1.0	1.0	1.0	1.0
	Operating voltage (V)	12V DC						12V DC							
Operating environment	Lens interface	M12						M12							
	Outline dimensions (mm)	20×20×33						20×20×33							
	Weight (g)	25g						25g							
	Temperature	Operating temperature: 0℃ to 50 ℃ ; Storage temperature: -30℃ to +70℃						Operating temperature: 0℃ to 50 ℃ ; Storage temperature: -30℃ to +70℃							
	Humidity	≤ 95% RH, no condensation						≤ 95% RH, no condensation							