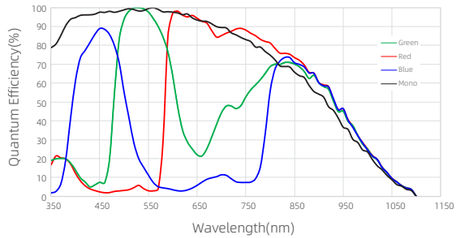
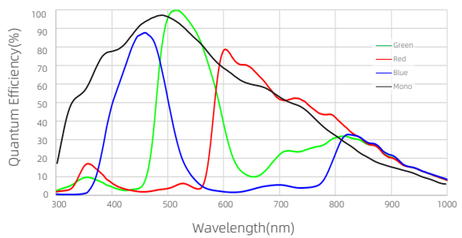
Spectral Response Curves

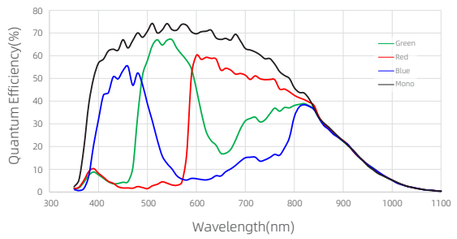
VC21-004SM/C-450-D & VC21-016SM/C-246-D



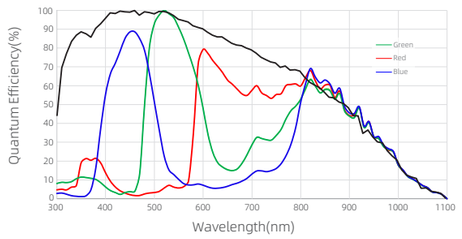
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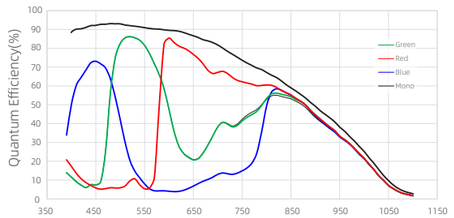
VC21-050SM/C-073-D



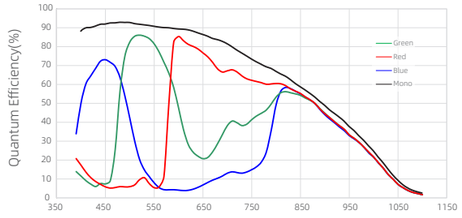
VC21-060SM/C-060-D



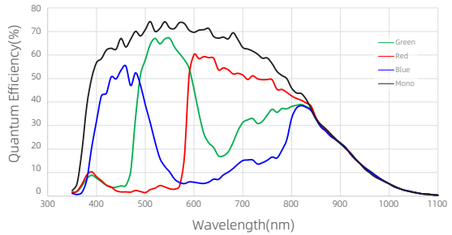
VC21-080SM/C-050-D



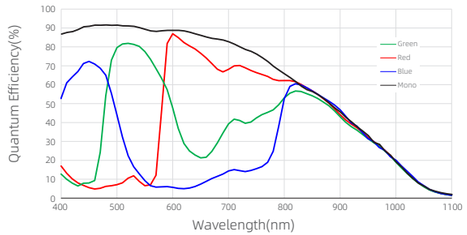
VC21-120SM/C-030-D



VC21-120SM/C-030B-D



VC21-200SM/C-020-D



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Features

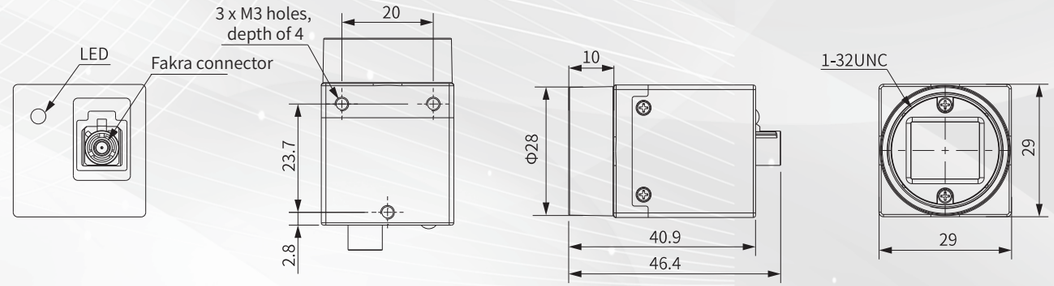
- High bandwidth: Up to 6 Gbps
- High stability, reliable connection for 15 m transmission, and no frame loss
- Support plug and play with simple configuration
- Ultra-small size: 29 mm x 29 mm
- Power supply, data transmission, and signal control through a single cable
- Power consumption as low as 0.7W



Application Fields

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

Diagrams of Outline Dimensions



Technical Data

	Model	VC21-004SM-450-D	VC21-004SC-450-D	VC21-016SM-246-D	VC21-016SC-246-D	VC21-020SM-130-D	VC21-020SC-130-D	VC21-050SM-073-D	VC21-050SC-073-D	VC21-060SM-060-D	VC21-060SC-060-D	VC21-080SM-050-D	VC21-080SC-050-D	VC21-120SM-030-D	VC21-120SC-030-D	VC21-120SM-030B-D	VC21-120SC-030B-D	VC21-200SM-020-D	VC21-200SC-020-D
Image-related data	Sensor type	OG02C1B	OG02C1B	OG02C1B	OG02C1B	SC235HGS	SC235HGS	GMAX3405	GMAX3405	OS06A1B	OS06A10	AR0822	AR0822	AR1223	AR1223	GMAX3412	GMAX3412	AR2020	AR2020
	Max. resolution	720×540	720×540	1440×1080	1440×1080	1600×1200	1600×1200	2448×2048	2448×2048	3200×1944	3200×1944	3840×2160	3840×2160	4096×3046	4096×3046	4096×3072	4096×3072	5120×3840	5120×3840
	Sensor size	1/2.5"	1/2.5"	1/2.5"	1/2.5"	1/2.6"	1/2.6"	2/3"	2/3"	1/2.4"	1/2.4"	1/1.8"	1/1.8"	1/1.6"	1/1.6"	1"	1"	1/1.8"	1/1.8"
	Pixel size (μm)	6.9	6.9	3.45	3.45	3.45	3.45	3.4	3.4	2	2	2	2	2	2	3.4	3.4	1.4	1.4
	Color	Mono	colour	Mono	colour	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 GB 8/10	Mono 8/10	Bayer BG 8/10	Mono 8/10	Bayer GR 8/10	Mono 8/10	Bayer GR 8/10	Mono 8/10	Bayer GB 8/10	Mono 8/10	Bayer GR 8/10
	Shutter	Global	Global	Global	Global	Global	Global	Global	Global	Rolling	Rolling	Rolling	Rolling	Rolling	Rolling	Global	Global	Rolling	Rolling
	Full-frame resolution (fps)	450	450	246	246	130	130	73	73	60	60	50	50	30	30	30	30	20	20
	Data depth (bit)	10/8								10/8									
	Dynamic range (dB)	65.2	65.2	65.2	65.2	61.5	61.5	67	67	66	66	78	78	78	78	68	68	73	73
	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	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	3.2μs ~ 426ms Step length 0.05μs	3.2μs ~ 426 ms	16.6μs ~ 1sec Step length 8.3μs	16.6μs ~ 1sec	13.1μs ~ 859 ms Step length 9.1μs	13.1μs ~ 859ms	10.4μs ~ 684ms Step length 10.4μs	10.4μs ~ 684 ms	31.3μs ~ 655 ms Step length 0.05μs	31.3μs ~ 655ms	12.7μs ~ 832ms Step length 12.7μs	12.7μs ~ 832ms
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	< 1.5	1.5	< 1.5	0.6	< 1.5	1.0	< 1.5	1.0	1.7	1.7	< 1.5	0.8
	Operating voltage (V)	12V DC								12V DC									
Operating environment	Lens interface	C								C									
	Outline dimensions (mm)	29×29×40.9								29×29×40.9									
	Weight (g)	80g								80g									
	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									

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