CHUM-1990M/C 20MP, 1" CMOS, USB 3.0 Camera





CHUM-1990M/C 20 MP 1" CMOS USB 3.0 Camera is a high quality device that can be used in a variety of applications, including electronic semiconductor fabrication, factory automation, medical packaging.

Key Features

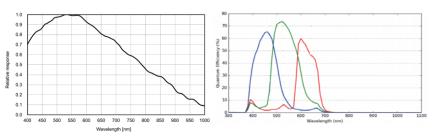
- Rolling shutter sensor, ideal image and high cost performance
- Supports auto/manual gain adjustment, exposure time, white balance, LUT, gamma correction and binning.
- Supports hardware trigger, software trigger and free run.
- Supports custom ROI to increase frame rate by reducing resolution, and supports Reverse X output.
- Multiple images can be saved on the 128MB on-board buffer for image transmission under Burst mode and resending data.
- The USB3.0 interface is tightly locked to prevent accidental unplugging and dropping.
- Compatible with USB 3.0 Vision and GenICam standard, can be compatible by third party software.

Application Scenarios

- Electronic semiconductor
- Factory automation
- Medical packaging

Order Models

Mono: CHUM-1990M Color: CHUM-1990C



CHUM-199M Quantum Efficiency CHUM-199C Quantum Efficiency

Spectral Response



Specifications

1	Vodel	CHUM-1990M	CHUM-1990C	
Parameters		20MP, 1" CMOS, USB 3.0 Camera		
Camera				
Sensor		IMX183		
Pixel Size		2.4μmx2.4μm		
Sensor Size		1"		
Resolution	!	5472x3648		
Frame Rate	:	14fps		
Dynamic Range		>65dB		
SNR	:	>40dB		
Gain Range		0-20dB		
Exposure Time		75µs-1sec		
Shutter Mode	1	Rolling shutter. Auto-exposure, Manual exposure, and One-key exposure		
Data Interface		USB 3.0		
General Purpose I/O		Opto-isolated input x1, Opto-isolated output x1, Bi-directional non-isolated I/O x1		
Buffer	:	128MB		
Data Format		Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer GB 8/10/10p/12/12p, YUV 422 Packed, YUV 422_YUYV_Packed, RGB8	
General				
Power	Approx. 2.83W@12VDC, Voltage 5-15VDC, USB 3.0 power supply supported			
Temperature	,	Working Temperature 0~50°C, Storage Temperature -30~70°C		
Humidity		20%-80% RH without condensation		
Dimension		44mm×29mm×60mm		
Weight		Approx. 90g		
Lens Interface	(C-Mount		
Software	1	MVS or Third-Party Software supporting USB 3.0 Vision Protocol		
Operating System	1	Windows XP/7/10 32/64bits		
Compliance		USB 3.0 Vision V1.0		
Certification	(CE, FCC, RoHS		
		1		

Recommended Accessories

- **Power:** 12VDC @1A power switch or adapter
- Cable: Micro USB 3.0 cable (B Type) recommended

Dimensions

