

WAT-07U2 1/2.8" Compact High Sensitivity USB2.0 Full HD B&W Camera

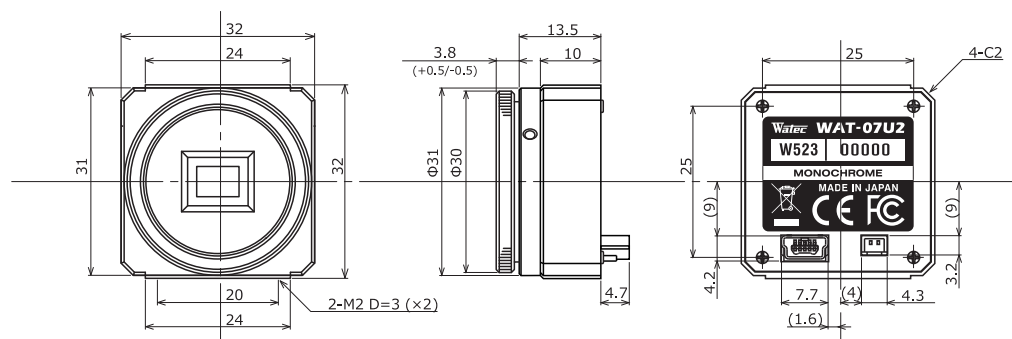
Added B&W version to the USB camera series



Key features

- Directly import the image to your PC and compact design specializes in the embedded application
- Min. illumination 0.002 lx F1.4 (AGC ON=36dB, Shutter=OFF)
0.0005 lx F1.2 (AGC ON=36dB, Shutter=1/7.5 sec.)
- The internal ISP (Image Signal Processor) enables optimal image quality for your usage
- Simple viewer software with features to change the camera settings and capture images

Dimensions



Specifications

Pick-up element		1/2.8 inch CMOS image sensor	
Number of effective pixels		1945(H) × 1097(V)	
Unit cell size		2.9μm(H) × 2.9μm(V)	
Imaging system		—	
Synchronizing system		Internal	
Scanning system		Progressive	
Output size		1920x1080, 1280x720, 640x480, 320x240	
Max. frame rate		30 fps	
Video compression		MJPEG, YUY2	
Video output		USB Video Class (Compatible)	
Resolution (H)		More than 800TVL (Center)	
Minimum illumination		0.002 lx F1.4 (AGC ON=36dB, Shutter=OFF)	
		0.0005 lx F1.4 (AGC ON=36dB, Shutter=1/7.5 sec.)	
S/N		—	
Function settings		Camera Viewer	
AE mode	Fixed	1/15, 1/7.5, 1/4 sec.	
		1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000 sec.	
	EI	1/30 - 1/8000 sec.	
		1/7.5 - 1/8000 sec.	
White balance		—	
AGC	ON	0 - 36dB	
	OFF	—	
MGC		0 - 72dB (1dB step)	
Gamma characteristics		γ≈USER (Level adjustable)	
Noise reduction		—	
Wide dynamic range		—	
Lens iris		—	
Back light compensation		BLC	
White blemish correction		—	
Sharpness		Level adjustable	
Defog		—	
Digital zoom		×1, ×1.38, ×2.25 *1	×1, ×1.2, ×1.5 *2
Privacy mask		—	
Mirror image		—	
Freeze		—	
Motion detection		—	
Neg.image		—	
Interface		USB2.0 Mini-B, 2P connector (Snap shot)	
Power supply		USB +5V	
Power consumption		0.65W (130mA)	
Operating temperature		-10 - +50°C	
Storage temperature		-30 - +70°C	
Operating / Storage humidity		95% RH or less (Without condensation)	
Lens mount		CS mount (Back focus adjustable)	
Cable length		Shorter than 3.0m recommended	
Weight		Approx. 35g	
Accessories		Hex wrench, Camera bracket, EX cable, USB cable (USB2.0 Mini-B to Standard-A)	
Recommended System Specifications	CPU	Intel® Core TM i Series	
	RAM	2GB or larger	
	Others	USB2.0 Port, 1920×1080 or better resolution display	
Operation Confirmed OS		Windows 10 32bit/64bit, Windows 11	

*1: Output format: 640x480 *2: Output format: 1280x720

Accessories
Options

