

WAT-01U2 1/2.8" Compact Full HD USB2.0 Camera

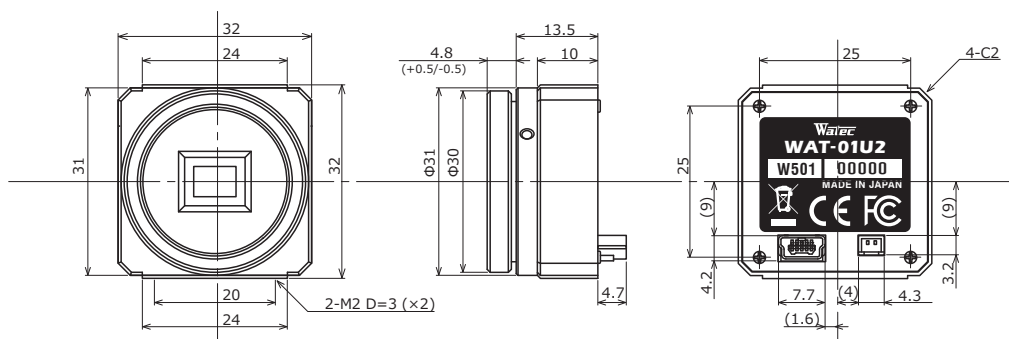
Directly import the captured image to your PC and compact design specializes in the embedded application



Key features

- Compact design (32 x 32mm) with CS lens mount and light weight
- 1/2.8-inch megapixel CMOS image sensor achieves the effective pixels 1984(H) × 1225(V)
- The internal ISP (Image Signal Processor) ensures optimal image quality depending on the usage environment
- USB Video Class & USB Bus Power (plug & play)
- Simple viewer software with features to change the camera settings and capture images.

Dimensions



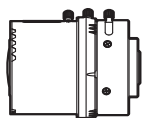
Specifications

Pick-up element		1/2.8 inch CMOS image sensor
Number of effective pixels		1984(H) × 1225(V)
Unit cell size		2.8μm(H) × 2.8μm(V)
Imaging system		RGB primary color bayer arrangement mosaic filters on chip
Synchronizing system		Internal
Scanning system		Progressive
Output size		1920×1080, 1280×1024, 1280×800, 1280×720, 640×480, 320×240, 176×144, 160×120
Max. frame rate		30 fps
Video compression		MJPEG, YUY2
Video output		USB Video Class (Compatible)
Resolution (H)		More than 680TVL (Center)
Minimum illumination		0.2 lx F1.2 (AGC ON=42dB, Shutter=OFF)
		0.1 lx F1.2 (AGC ON=42dB, Shutter=1/15 sec.)
S/N		—
Function settings		Camera Viewer
AE mode	Fixed	1/15 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.
		1/15 - 1/8000 sec.
White balance		ATW, MWB
AGC	ON	0 - 42dB
	OFF	—
MGC		0 - 24dB
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		—
Privacy mask		—
Mirror image		—
Freeze		—
Motion detection		—
Neg.image		—
Interface		USB (High speed), 2P connector (Snap shot)
Power supply		USB +5V
Power consumption		0.6W (120mA)
Operating temperature		-10 - +50℃
Storage temperature		-30 - +70℃
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
Min. System Requirements	CPU	800MHz or faster
	RAM	512MB or larger
	Others	USB2.0 Port
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 XP 32bit/64bit (SP2, 3), Windows Vista 32bit/64bit, Windows 7 32bit/64bit, Windows 8 32bit/64bit, Windows 8.1 32bit/64bit, Windows 10 32bit/64bit

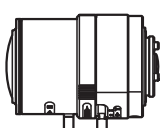
Accessories
Options

WAT-01U2

CS-mount lenses



M13VM288IR



A4Z2812CS-MPIR

Miniature lenses / Mount adaptors



M2520BC-12



M2920BC-12



M3718BC-12



M0620BC-12



28MMA-M12-155



M0820BC-12

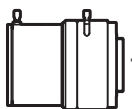


M1616BC-12



28MMA-M12-140

C-mount lenses

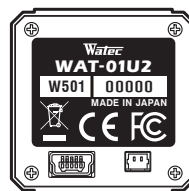
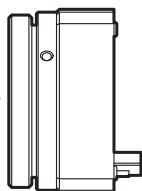


※Not in our lineup

C-mount adaptor



30CMA-R



GPIO

Cable



EX cable (300mm)

Cable



USB cable (1m)



PC



PC

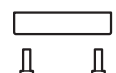
※ Watec Camera Viewer recommended
 Download from Watec website

Holder



H003

Camera bracket



B005

Stand



MS50