

WAT-03U2

1/3" Compact High Sensitivity USB2.0 HD Color Camera

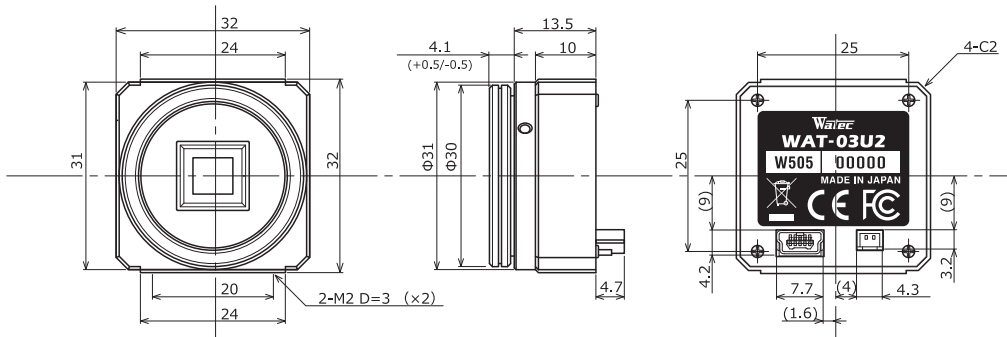
Directly import the captured image to your PC and compact design specializes in the embedded application



Key features

- High sensitivity 1.3 M CMOS sensor
- Min. illumination 0.02 lx F1.2 (AGC ON=42dB, Shutter=OFF)
0.005 lx F1.2 (AGC ON=42dB, Shutter=1/7.5 sec.)
- Frame rate : 30fps (HD)、60fps (VGA)
- USB Video Class & USB Bus Power (plug & play)

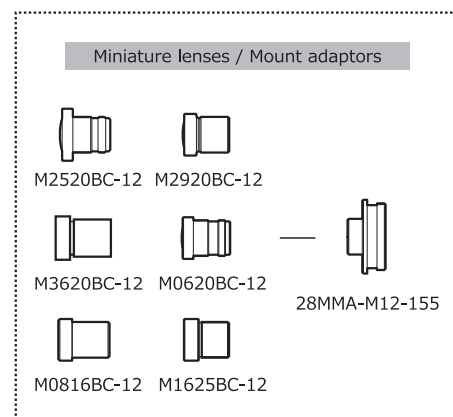
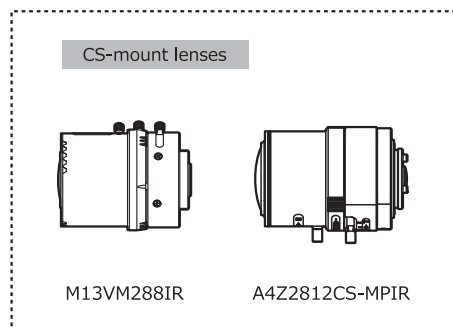
Dimensions



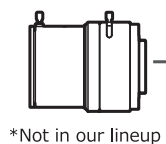
Specifications

Pick-up element		1/3 inch CMOS image sensor
Number of effective pixels		1305(H) × 977(V)
Unit cell size		3.75μm(H) × 3.75μm(V)
Imaging system		RGB primary color bayer arrangement mosaic filters on chip
Synchronizing system		Internal
Scanning system		Progressive
Output size		1280×960, 1280×720, 640×480, 320×240
Max. frame rate		60 fps
Video compression		MJPEG, YUY2
Video output		USB Video Class (Compatible)
Minimum illumination		0.02 lx F1.2 (AGC ON=42dB, Shutter=OFF)
		0.005 lx F1.2 (AGC ON=42dB, Shutter=1/7.5 sec.)
S/N		—
Function settings		Camera Viewer
AE mode	Fixed	1/15, 1/7.5, 1/4, 1/2, 1, 2 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		ATW, MWB
AGC	ON	0 - 42dB
	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		—
Privacy mask		—
Mirror image		—
Freeze		—
Motion detection		—
Neg.image		—
Interface		USB (High speed), 2P connector (Snap shot)
Power supply		USB +5V
Power consumption		0.75W (150mA)
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 7 32bit/64bit, Windows 8 32bit/64bit, Windows 8.1 32bit/64bit, Windows 10 32bit/64bit

Accessories
Options



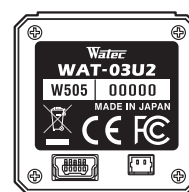
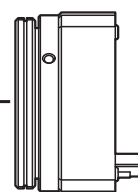
C-mount lenses



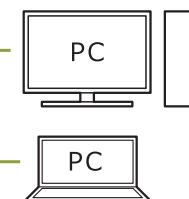
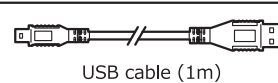
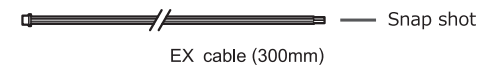
C-mount adaptor



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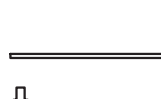


GPIO



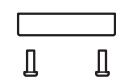
*Watec Camera Viewer recommended
Download from Watec website

Holder



H003

Camera bracket



B005

Stand



MS50