

# 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

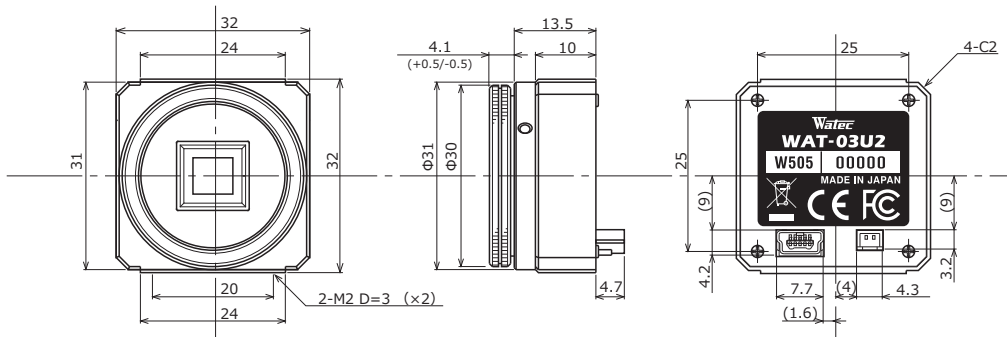
**NEW**



### Key features

- High sensitivity 1.3 M CMOS sensor
- Min. illumination 0.02 lx F1.4 (1/30s), 0.005 lx F1.4 (1/7.5s)
- Output format : HD (30fps)、VGA (60fps)
- USB Video Class & USB Bus Power (plug & play)

### Dimensions



### Specifications

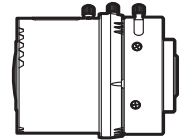
Pick-up element	1/3-inch CMOS image sensor	
Number of effective pixels	1305(H) × 977(V)	
Unit cell size	3.75μm × 3.75μm	
Imaging system	RGB primary color bayer arrangement mosaic filters on chip	
Sync. System	Internal	
Scanning System	Progressive	
Output size	320×240, 640×480, 1280×720, 1280×960	
Max. frame rate	60 fps (640×480)	
Video Output	USB Mini-B, USB Video Class (Compatible)	
Minimum Illumination	0.02 lx. (F1.4, 1/30s, Low light compensation : OFF, MJPG)	
	0.005 lx. (F1.4, 1/7.5s, Low light compensation : ON, MJPG)	
AE mode	Fixed	x64, x 32, x 16, x 8, x 4, x 2 FRM 1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000 sec.
	EI	7.5fps: x4FRM - 1/8000 sec., 30fps: 1/30 - 1/8000 sec., 60fps: 1/60 - 1/8000 sec. 1/7.5 - 1/8000 sec. ※Low light compensation : ON
White balance	ATW	2800 - 9500K
	MWB	2800 - 6500K
AGC	0 - 42dB	
MGC	0 - 72dB	
Gamma characteristics	ON / OFF	
Back Light Compensation	ON (Center) / OFF	
Power Supply	DC+5V (Supplied by the USB bus)	
Power Consumption	0.75W (150mA)	
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	

Min. System Requirements	CPU: 800MHz or faster RAM: 512MB or larger Others: USB2.0 Port
Recommended System Specifications	CPU: Intel® Core™ i Series or newer RAM: 2GB or larger Others: USB2.0 Port, 1920×1080 or better resolution display
Operation Confirmed OS	<ul style="list-style-type: none"> <li>· Windows 7 32bit/64bit</li> <li>· Windows 8 32bit/64bit</li> <li>· Windows 8.1 32bit/64bit</li> <li>· Windows 10 32bit/64bit</li> </ul>

Accessories Options

### WAT-03U2

**CS-mount lenses**



M13VM288IR

**Miniature lenses / Mount adaptors**

M2520BC-12 M2920BC-12

M3718BC-12 M4318BC-12 28MMA-M12-155

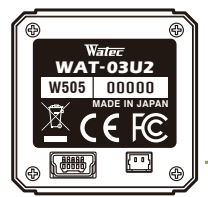
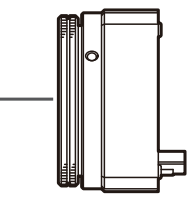
M0620BC-12 M0820BC-12

**C-mount adaptor**

C-mount lenses

30CMA-R

※Not in our lineup



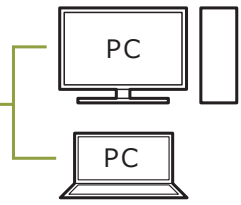
**GPIO**



EX-Cable


Snap Shot

**USB-1M (A/miniB)**



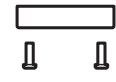
※ Watec Camera Viewer recommended  
Download from Watec website

**Holder**




H003

**Camera bracket**



B005

**Stand**



MS50