

# WAT-06U2 1/2.8" Compact USB2.0 Full HD Color Camera

Upgraded the performance from WAT-01U2

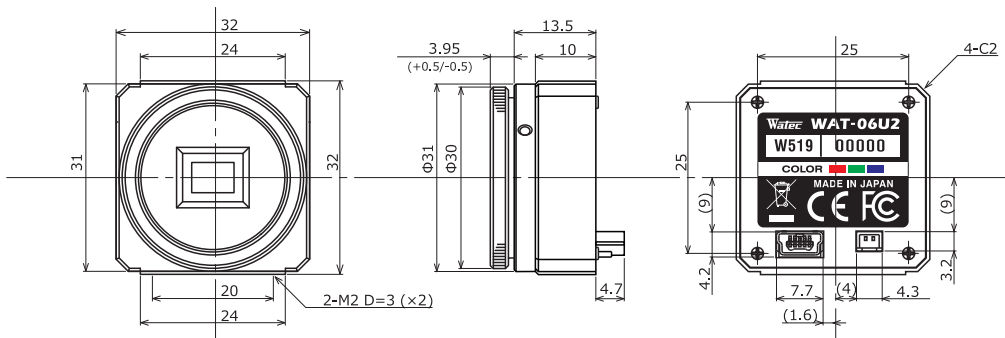
**NEW**



## Key features

- Directly import the image to your PC and compact design specializes in the embedded application
- Resolution 1.3 times higher and sensitivity 4 times higher than the previous model
- The internal ISP (Image Signal Processor) enables optimal image quality for your usage
- USB Video Class & USB Bus Power (plug & play)
- Simple viewer software with features to change the camera settings and capture images

## Dimensions



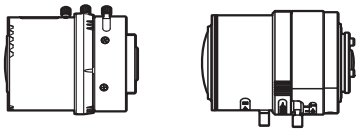
## Specifications

Pick-up element	1/2.8 inch CMOS image sensor	
Number of effective pixels	1945(H) × 1097(V)	
Unit cell size	2.9μm(H) × 2.9μm(V)	
Imaging system	RGB primary color bayer arrangement mosaic filters on chip	
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 900TVL (Center)	
Minimum illumination	0.1 lx F1.2 (AGC ON=36dB, Shutter=OFF)	
	0.025 lx F1.2 (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	ATW, MWB	
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	USB (High speed), 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	
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	

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

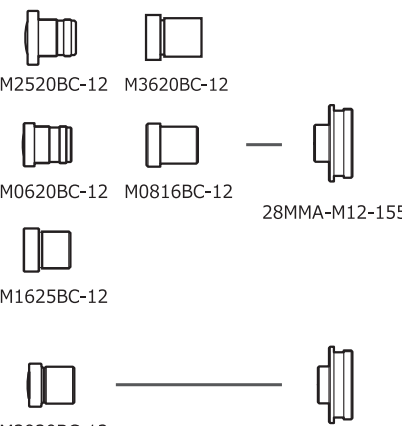
Accessories Options

CS-mount lenses




M13VM288IR A4Z2812CS-MPIR

Miniature lenses / Mount adaptors



M2520BC-12 M3620BC-12  
M0620BC-12 M0816BC-12 28MMA-M12-155  
M1625BC-12  
M2920BC-12 28MMA-M12-140

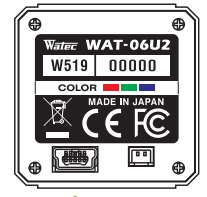
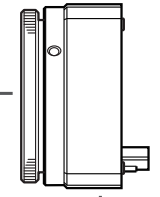
C-mount lenses




\*Not in our lineup

C-mount adaptor  
30CMA-R

### WAT-06U2



Cable




GPIO

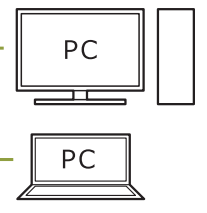
Snap shot

EX cable (300mm)

Cable




USB cable (1m)



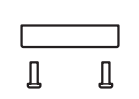
\*Watec Camera Viewer recommended  
Download from Watec website

Holder




H003

Camera bracket



B005

Stand



MS50