

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

Upgraded the performance from WAT-01U2

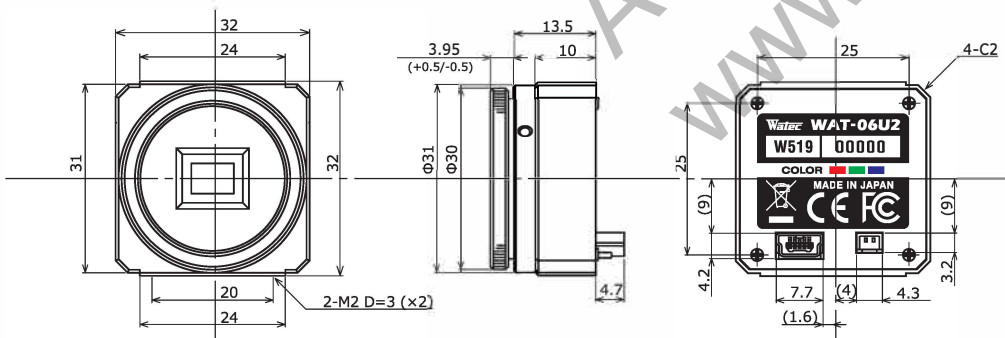
NEW



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 | MJPG, 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. |
| | EI | 1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000 sec. |
| AGC | White balance | 1/30 - 1/8000 sec. |
| | White balance | 1/7.5 - 1/8000 sec. |
| AGC | ON | ATW, MWB |
| | OFF | 0 - 36dB |
| MGC | ON | - |
| | OFF | 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 | x1, x1.38, x2.25 *1 | x1, x1.2, x1.5 *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

WAT-06U2

CS-mount lenses

M13VM288IR A4Z2812CS-MPIR

Miniature lenses / Mount adaptors

M2520BC-12 M2920BC-12

M3620BC-12 M0620BC-12 28MMA-M12-155

M0816BC-12

M1616BC-12 28MMA-M12-140

C-mount lenses

*Not in our lineup

C-mount adaptor

30CMA-R

Holder

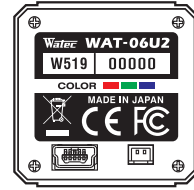
H003

Camera bracket

B005

Stand

MS50



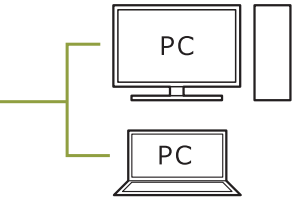
GPIO

Cable

EX cable (300mm)

Cable

USB cable (1m)



*Watec Camera Viewer recommended
Download from Watec website