

# WAT-08U2D(G2.5) IP67-Rated USB2.0 Full HD Color Camera

Suitable for use in outdoor environments exposed to dust and water drops.

**NEW**

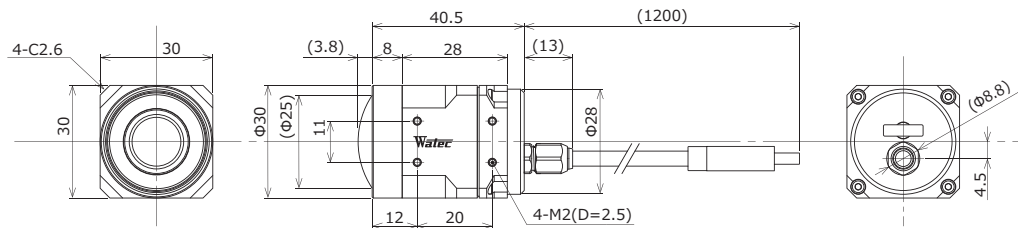


**\*NO CE & FCC**

## Key features

- USB Video Class & USB Bus Power (plug & play)
- High durability with tempered glass and aluminum housing.
- Standard USB connector is Type-C, but Type-A version of "WAT-08U2D Type-A (G2.5)" and Micro-B version of "WAT-08U2D Micro-B (G2.5)" are also available.

## Dimensions



## Specifications

|                                   |        |                                                                      |
|-----------------------------------|--------|----------------------------------------------------------------------|
| Pick-up element                   |        | 1/2.8 inch BSI 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 filter on chip            |
| Synchronizing system              |        | Internal                                                             |
| Scanning system                   |        | Progressive                                                          |
| Output size                       |        | 1920×1080, 1280×720, 640×480, 320×240                                |
| Max. frame rate                   |        | 60 fps                                                               |
| Video compression                 |        | MJPEG, YUY2                                                          |
| Video output                      |        | USB Video Class (Compatible)                                         |
| Resolution (H)                    |        | More than 900 (Center)                                               |
| Minimum illumination              |        | 0.3 lx F2.0 (AGC ON=36dB, Shutter= OFF)                              |
|                                   |        | 0.07 lx F2.0 (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                         |        | USB2.0 Type-C                                                        |
| Power supply                      |        | USB +5V                                                              |
| Power consumption                 |        | 0.8W (160mA)                                                         |
| Operating / Storage Temperature   |        | -10 - +50℃ / -30 - +70℃                                              |
| Operating / Storage Humidity      |        | 95% RH or less (Without condensation)                                |
| Lens mount                        |        | M12 P=0.5                                                            |
| Standard lens                     |        | M2520BC-12(f2.5 F2.0)                                                |
| Cable length                      |        | 1.0m (Max. 3.0m)                                                     |
| Weight                            |        | Approx. 105g                                                         |
| Accessories                       |        | —                                                                    |
| 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, Windows 11, Android 4.0 or later             |

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

Options

