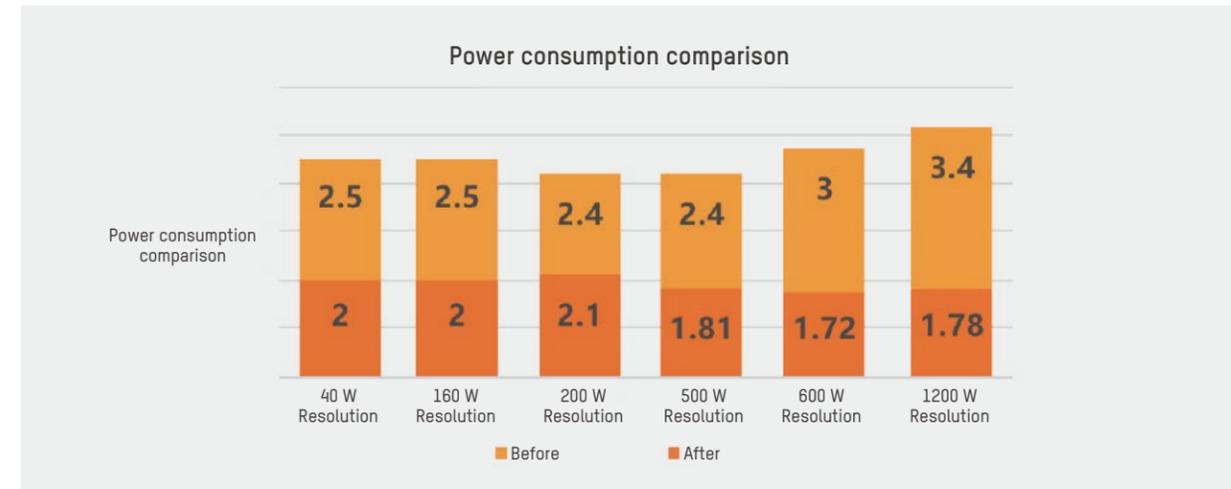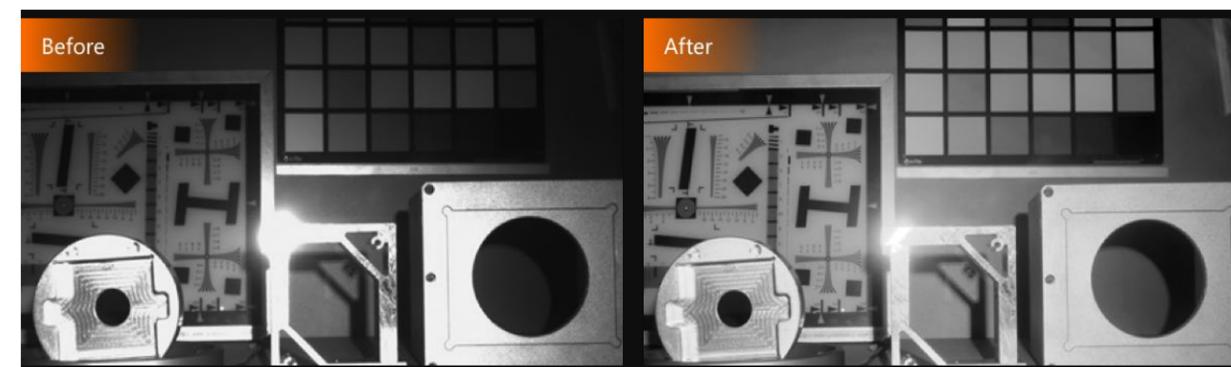# ■ CU Series Universal Industrial Camera

The CU series is designed with low power-consuming platform and stable performance, which creates a universal industrial camera product that satisfies the requirements for stability and necessary functions, helping users to obtain vision applications more easily.



### Power consumption comparison

| | | | | | | |
|---|---|---|---|---|---|---|
| 2.5 | 2.5 | 2.4 | 2.4 | 3 | 3.4 | (Before) |
| 2 | 2 | 2.1 | 1.81 | 1.72 | 1.78 | (After) |
| 40 W Resolution | 160 W Resolution | 200 W Resolution | 500 W Resolution | 600 W Resolution | 1200 W Resolution | |

■ Before  ■ After

**Ultra-low power supply, stable performance**


Before | After

**Built-in image preprocessing**

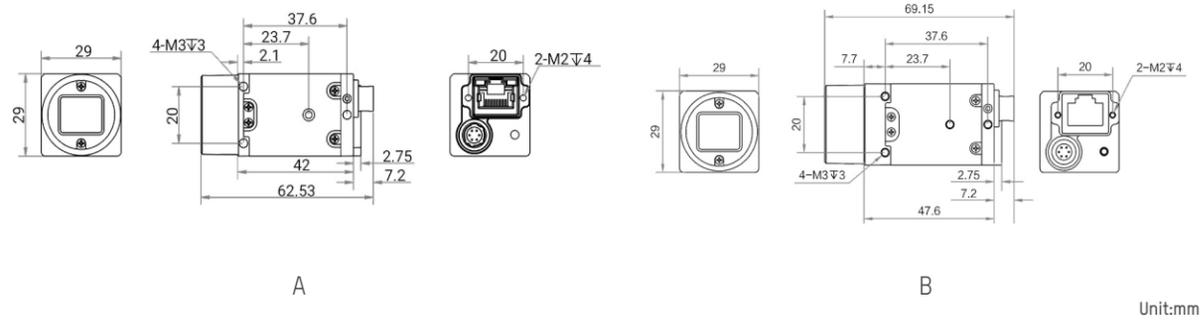# ■ CU Series GigE Area Scan Camera    C€ ⓚ RoHS

## Specifications

| Model | Sensor model | Sensor size | Pixel size | Shutter mode | Resolution | Max. frame rate | Exposure time | Power consumption | Label |
|---|---|---|---|---|---|---|---|---|---|
| MV-CU004-10GM | IMX297 | 1/2.9" | 6.9 μm | Global | 720 × 540 | 126.5 fps | USE: 1 μs–14 μs NE: 15 μs–10 sec | Typ. 2 W@12 VDC | A |
| MV-CU004-10GC | IMX297 | 1/2.9" | 6.9 μm | Global | 720 × 540 | 126.5 fps | USE: 1 μs–14 μs NE: 15 μs–10 sec | Typ. 2 W@12 VDC | A |
| MV-CU013-80GM | SS | 1/2.7" | 4.0 μm | Global | 1280 × 1024 | 89.9 fps | NE: 31 μs–1 sec | Typ. 1.9 W@12 VDC | A |
| MV-CU013-80GC | SS | 1/2.7" | 4.0 μm | Global | 1280 × 1024 | 89.9 fps | NE: 31 μs–1 sec | Typ. 1.9 W@12 VDC | A |
| MV-CU013-A0GM | HK | 1/2'' | 4.8 μm | Global | 1280 × 1024 | 91.3 fps | NE: 10 μs–10 sec | Typ. 1.8 W@12 VDC | A |
| MV-CU013-A0GC | HK | 1/2'' | 4.8 μm | Global | 1280 × 1024 | 91.3 fps | NE: 10 μs–10 sec | Typ. 1.8 W@12 VDC | A |
| MV-CU016-10GM | IMX296 | 1/2.9" | 3.45 μm | Global | 1440 × 1080 | 65.8 fps | USE: 1 μs–14 μs NE: 15 μs–10 sec | Typ. 2 W@12 VDC | A |
| MV-CU016-10GC | IMX296 | 1/2.9" | 3.45 μm | Global | 1440 × 1080 | 65.8 fps | USE: 1 μs–14 μs NE: 15 μs–10 sec | Typ. 2 W@12 VDC | A |
| MV-CU020-19GM | IMX290 | 1/2.8" | 2.9 μm | Rolling | 1920 × 1080 | 56 fps | NE: 64 μs–130 ms | Typ. 2.1 W@12 VDC | A |
| MV-CU020-19GC | IMX290 | 1/2.8" | 2.9 μm | Rolling | 1920 × 1080 | 56 fps | NE: 128 μs–260 ms | Typ. 2.1 W@12 VDC | A |
| MV-CU020-80GM * | SC235 | 1/2.6" | 3.45 μm | Global | 1600×1200 | 51 fps | NE: 24 μs–2.5 sec | Typ. 2.5 W@12 VDC | A |
| MV-CU020-80GC * | SC235 | 1/2.6" | 3.45 μm | Global | 1600×1200 | 51 fps | NE: 24 μs–2.5 sec | Typ. 2.5 W@12 VDC | A |
| MV-CU020-90GM | GMAX4002 | 1/1.7'' | 4 μm | Global | 2048 × 1200 | 49 fps | NE: 4 us–10 sec | Typ. 1.9 W@12 VDC | A |
| MV-CU020-90GC | GMAX4002 | 1/1.7'' | 4 μm | Global | 2048 × 1200 | 49 fps | NE: 4 us–10 sec | Typ. 2 W@12 VDC | A |
| MV-CU050-30GM | AR0521 | 1/2.5" | 2.2 μm | Rolling | 2592 × 1944 | 24 fps | NE: 21 μs–1 sec | Typ. 1.81 W@12 VDC | A |
| MV-CU050-30GC | AR0521 | 1/2.5" | 2.2 μm | Rolling | 2592 × 1944 | 24 fps | NE: 21 μs–1 sec | Typ. 1.81 W@12 VDC | A |
| MV-CU050-60GM | HK | 1/2.5" | 2.2 μm | Rolling | 2592 × 1944 | 23.1 fps | NE: 24 μs–2.5 sec | Typ. 2.5 W@12 VDC | A |
| MV-CU050-90GM | GMAX2505 | 1/2" | 2.5 μm | Global | 2600 × 2160 | 21 fps | NE: 3 μs–10 sec | Typ. 2.3 W@12 VDC | B |
| MV-CU050-90GC | GMAX2505 | 1/2" | 2.5 μm | Global | 2600 × 2160 | 21 fps | NE: 3 μs–10 sec | Typ. 2.5 W@12 VDC | B |

| Model | Sensor model | Sensor size | Pixel size | Shutter mode | Resolution | Max. frame rate | Exposure time | Power consumption | Label |
|---|---|---|---|---|---|---|---|---|---|
| MV-CU060-10GM | IMX178 | 1/1.8" | 2.4 µm | Rolling | 3072 × 2048 | 19.1 fps | NE: 25 µs~2.5 sec | Typ. 1.7 W@12 VDC | A |
| MV-CU060-10GC | IMX178 | 1/1.8" | 2.4 µm | Rolling | 3072 × 2048 | 19.1 fps | NE: 25 µs~2.5 sec | Typ. 1.72 W@12 VDC | A |
| MV-CU120-10GM | IMX226 | 1/1.7" | 1.85 µm | Rolling | 4024 × 3036 | 9.7 fps | NE: 34 µs~2 sec | Typ. 1.78 W@12 VDC | A |
| MV-CU120-10GC | IMX226 | 1/1.7" | 1.85 µm | Rolling | 4024 × 3036 | 9.7 fps | NE: 34 µs~2 sec | Typ. 1.82 W@12 VDC | A |

Notice: * will be released soon, please consult details with sales representative
USE: Ultra-short exposure mode
NE: Normal exposure mode

## Dimension



A

B

Unit:mm

# ■ CU Series USB3.0 Area Scan Camera   CE KC RoHS

## Specifications

| Model | Sensor model | Sensor size | Pixel size | Shutter mode | Resolution | Max. frame rate | Exposure time | Power consumption | Label |
|---|---|---|---|---|---|---|---|---|---|
| MV-CU013-80UM | SS | 1/2.7" | 4.0 µm | Global | 1280 × 1024 | 240 fps | 30 µs~1 sec | Typ. 1.7 W@5 VDC | A |
| MV-CU013-80UC | SS | 1/2.7" | 4.0 µm | Global | 1280 × 1024 | 240 fps | 30 µs~1 sec | Typ. 1.7 W@5 VDC | A |
| MV-CU013-A0UM | HK | 1/2" | 4.8 µm | Global | 1280 × 1024 | 201.4 fps | 5 µs~10 sec | Typ. 1.79 W@5 VDC | A |
| MV-CU013-A0UC | HK | 1/2" | 4.8 µm | Global | 1280 × 1024 | 201.4 fps | 5 µs~10 sec | Typ. 1.81 W@5 VDC | A |
| MV-CU050-60UM | HK | 1/2.5" | 2.2 µm | Rolling | 2592 × 1944 | 48.2 fps | 12 µs~1.25 sec | Typ. 2.7 W@5 VDC | A |
| MV-CU050-90UM | GMAX2505 | 1/2" | 2.5 µm | Global | 2600 × 2160 | 58.8 fps | 3 µs~10 sec | Typ. 2.1 W@5 VDC | B |
| MV-CU050-90UC | GMAX2505 | 1/2" | 2.5 µm | Global | 2600 × 2160 | 58.8 fps | 3 µs~10 sec | Typ. 2.2 W@5 VDC | B |
| MV-CU060-10UM | IMX178 | 1/1.8" | 2.4 µm | Rolling | 3072 × 2048 | 59.6 fps | 8 µs~1 sec | Typ. 1.9 W@5 VDC,USB | A |
| MV-CU060-10UC | IMX178 | 1/1.8" | 2.4 µm | Rolling | 3072 × 2048 | 59.6 fps | 8 µs~1 sec | Typ. 1.9 W@5 VDC,USB | A |
| MV-CU120-10UM | IMX226 | 1/1.7" | 1.85 µm | Rolling | 4024 × 3036 | 29.2fps | 20 µs~0.5 sec | Typ. 1.9 W@5 VDC | A |
| MV-CU120-10UC | IMX226 | 1/1.7" | 1.85 µm | Rolling | 4024 × 3036 | 29.2fps | 20 µs~0.5 sec | Typ. 2.0 W@5 VDC | A |

## Dimension



A

B

Unit:mm