

MS-M103HU HD USB2.0 color board camera **Low distortion lens!**

Key feature

- 22 (H)×26(W)mm, Approx. 12 g, compact and lightweight type
- Can be integrated into a variety of devices
- 1/2.9-inch, 970,000 pixels (920,000 recorded pixels)
- USB image output is USB 2.0 USB video class 1.1 compliant, no device driver required
- USB bus-powered, allowing operation via USB cable without using an external power supply
- Mode settings can be changed from host-side control software

Type A
(22(H)×26(W)mm)

Type B
(32(H)×32(W)mm)

1/2.9-inch	970,000 pixels	720P
0.5Lux (F1.4)	USB2.0	30fps
Property control	M12	Low distortion lens
A type 22(H)×26(W)mm B type 32(H)×32(W)mm	Approx. 12g	USB (+5V)

External connectors

Model

MS - M103HU

Substrate size selection Lens type selection

A : 22(H)×26(W)mm TR29 (f=2.9mm , H=84° , V=52°)

B : 32(H)×32(W)mm AL30 (f=3.0mm , H=77° , V=62°)

JD30 (f=3.0mm , H=86° , V=54°)

JD36 (f=3.6mm , H=77° , V=47°)

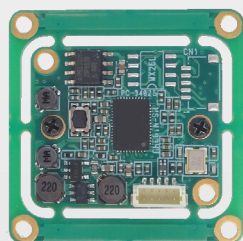
JD39 (f=3.9mm , H=70° , V=42°)

JD45 (f=4.5mm , H=62° , V=38°)

JD60 (f=6.0mm , H=48° , V=28°)

JD178 (f=17.8mm , H=17° , V=10°)

Pin number	Signal name
1	VBUS(+5.0V)
2	D-
3	D+
4	GND
5	SW

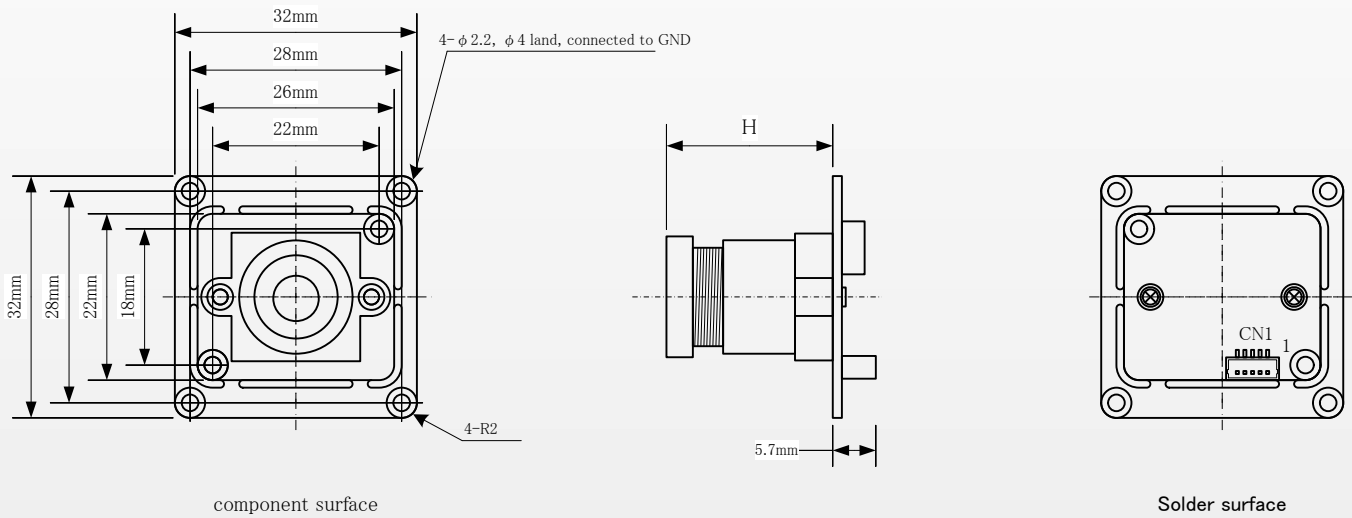


1P
CN2

Specification

Item	Specification
Model	MS-M103HU
Image size	1/2.9-inch color CMOS sensor
Number of effective pixels	1312(H) × 740(V)
Number of video output pixels	1280(H) × 720(V)
Unit cell size	4.2 μm(H) × 4.2 μm(V), Square pixel
Scanning system	Progressive scan method
Synchronizing system	Internal synchronization
Clock frequency	74.25MHz
Frame rate	30fps
Image output	USB2.0(Full speed , High speed)
Minimum illumination	0.5Lux(F1.4)
Dynamic range	55dB
S/N	43dB
Video output format	HD(720p)
Automatic control function	AWB,AGC,AE
Flickerless function	AUTO
Camera shutter	Rolling shutter
Lens	2.9mm,3.0mm,3.6mm,3.9mm,4.5mm,6.0mm,17.8mm
Power supply	Rolling shutter
Power consumption	1W
External dimensions	A type: 22(H)×26(W) mm, B type: 32(H)×32(W) mm
Weight	Approx. 12g
Operating temperature	-10°C ~ +50°C
Operating humidity	20~80%
Components	Camera body, Dedicated USB cable

Externals



H :	JD30 : H=19.2mm	JD39 : H=23.8mm	JD60 : H=24.9mm	TR29 : H=17.5mm
	JD36 : H=20.8mm	JD45 : H=23.6mm	JD178 : H=20.8mm	AL30 : H=22.2mm

MOSWELL

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