

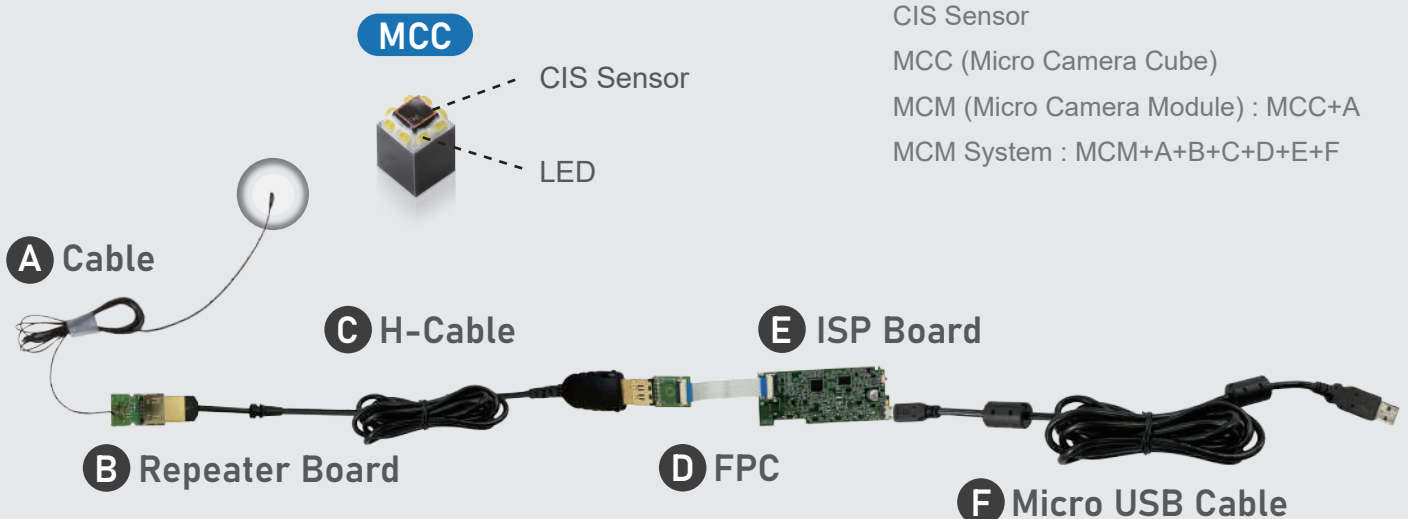
Micro Camera Module

The Smallest Micro Camera Module

- The smallest form factor - Uniform light source, camera module with sensor
- Automated production line - Cable welding / High productivity
- High Quality & Stability
- Low Cost
- Flexible design
- Rapid prototyping process

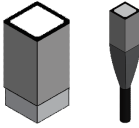
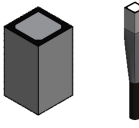
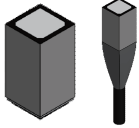
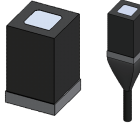
Diverse Applications

- Medical endoscope
- Industry endoscope
- Virtual Reality(VR) / Augmented Reality(AR)
- Fingerprint recognition
- Mobile device
- Wearable device (watch, glass)
- Micro 3D camera
- Automotive
- Others

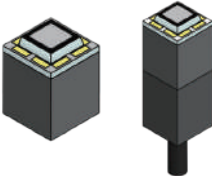
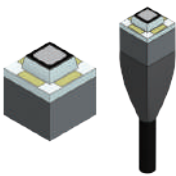
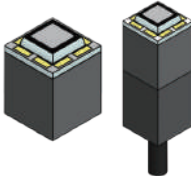
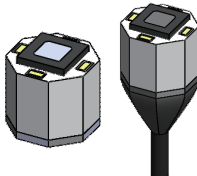


Micro Camera Module Summary

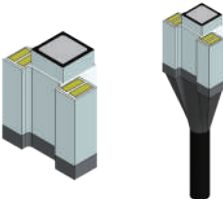
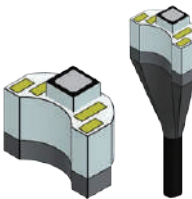
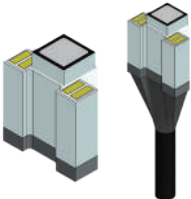

MCM without LED Type

MCM Type	MCMA		MCMF	MCMD	MCMH
Ref.-Drawings					
Product Name	MCMA-160090	MCMA-160120	MCMF-160120	MCMD-490120	MCMH-02M140
MCM Dimension	1.05 x 1.05 x 5.0 mm		0.65 x 0.65 x 4.0 mm	1.075 x 1.075 x 5.0 mm	2.66 x 2.66 x 8.0 mm
Resolution	400 x 400 Pixels		400 x 400 Pixels	720 x 720 Pixels	1500 x 1500 Pixels
FOV (Diagonal)	90 D	120 D	120 D	120 D	140 D
DOF	5~80 mm	2~60 mm	2~60 mm	3~50 mm	8~100 mm
Cable Length	Max. 5M		Max. 3M	Max. 3M	Max. 4M

Standard Type

MCM Type	MCMA-S		MCMF-S	MCMD-S1	MCMH-S1
Ref.-Drawings					
Product Name	MCMA-S160090	MCMA-S160120	MCMF-S160120	MCMD-S490120	MCMH-S102M140
MCM Dimension	1.8 x 1.8 x 5.0 mm		1.25 x 1.25 x 4.0 mm	1.80 x 1.80 x 5.0 mm	4.2 x 4.2 x 8.0 mm
Resolution	400 x 400 Pixels		400 x 400 Pixels	720 x 720 Pixels	1500 x 1500 Pixels
FOV (Diagonal)	90 D	120 D	120 D	120 D	140 D
DOF	5~80 mm	2~60 mm	2~60 mm	3~50 mm	8~100 mm
Cable Length	Max. 5M		Max. 3M	Max. 3M	Max. 4M

Mini Type

MCM Type	MCMA-M		MCMF-M1	MCMD-M1	MCMH-M1
Ref.-Drawings					
Product Name	MCMA-M160090	MCMA-M160120	MCMF-M160120	MCMD-M1490120	MCMH-M102M140
MCM Dimension	1.39 x 2.40 x 5.0 mm		1.06 x 2.0 x 4.0 mm	1.39 x 2.40 x 5.0 mm	2.8 x 4.2 x 8.0 mm
Resolution	400 x 400 Pixels		400 x 400 Pixels	720 x 720 Pixels	1500 x 1500 Pixels
FOV (Diagonal)	90 D	120 D	120 D	120 D	140 D
DOF	5~80 mm	2~60 mm	2~60 mm	3~50 mm	8~100 mm
Cable Length	Max. 5M		Max. 3M	Max. 3M	Max. 4M



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