

# MV-CIS-330mm-18-91F2M/GS1002FV3/1SFP+/1for1 Package

## XoFLink CIS Camera Package

MV-CIS-330mm-18-91F2M CIS camera package, comprising a CIS camera, a frame grabber, and cable accessories, enables you to quickly set up a vision-inspection hardware solution. It is designed for capturing surface features of flat or wide materials, and features a compact size, short working distance, quick installation and debugging, and distortion-free imaging at the edges. It is applicable to sheet and coil material, new energy, consumer electronics, and other industries.



## Key Features

- Adopts integrated design of camera, lens, and light source for easy installation and wiring.
- Supports 1:1 imaging with distortion-free imaging at the edges.
- Supports 1800 DPI, meeting requirements of standard industrial inspection.
- Provides an alternative to multi-camera stitching solution.
- Supports built-in ISP functions for quick parameter adjustments.

## Applicable Industry

New energy, PCB, printing, etc.

## Included Products

| Product                                         | Model                       | Quantity |
|-------------------------------------------------|-----------------------------|----------|
| CIS camera                                      | MV-CIS-330mm-18-91F2M       | 1        |
| 10 Gbps fiber port frame grabber                | MV-GS1002F V3.0             | 1        |
| SFP module for 10 Gbps fiber port frame grabber | MV-AC10G-SFP-850-LC         | 2        |
| Standard 10 GigE optical fiber patch cord       | MV-AC10G-2LC-2LC-HF-10m     | 2        |
| High-flex power & light cable for CIS camera    | MV-ACP-ST1210S2-open-ST-10m | 2        |
| I/O trigger cable for CIS camera                | MV-ACP-H12p-open-ST-10m     | 1        |

## Accessories

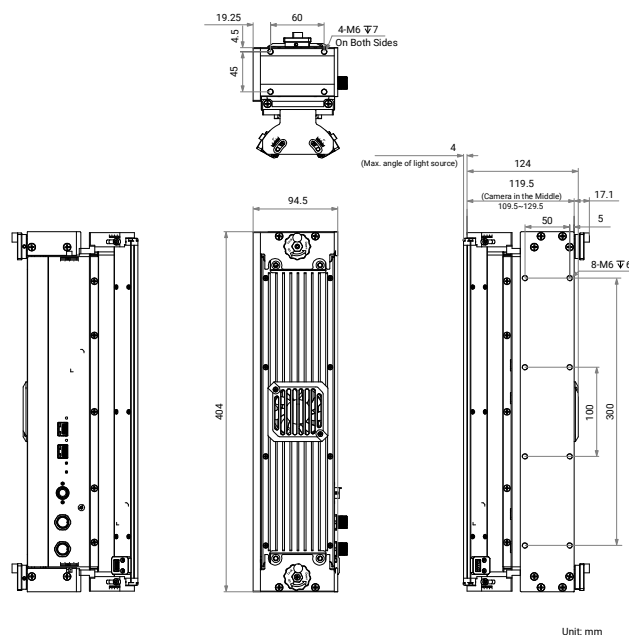
| Product                                        | Model                             | Quantity |
|------------------------------------------------|-----------------------------------|----------|
| I/O trigger cable for frame grabber            | MV-ACP-miniDP20M-open-ST(EMC)-10m | 1        |
| Calibration plate and fixing plate             | /                                 | 1        |
| Reflective tape of calibration plate (3m/roll) | /                                 | 1        |

## Specification

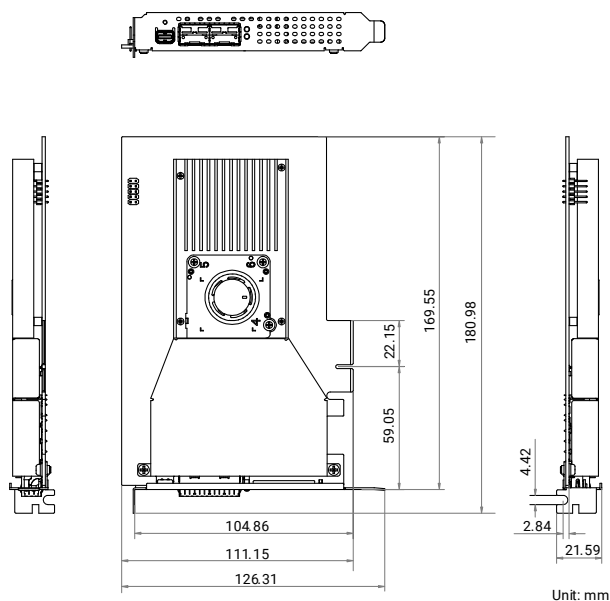
|                                    |                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                       | <b>MV-CIS-330mm-18-91F2M/GS1002FV3/1SFP+/1for1 Package</b>                                                                                                                                                                                                                                                                                                                       |
| <b>Camera</b>                      |                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pixel size</b>                  | 14 $\mu\text{m}$ $\times$ 14 $\mu\text{m}$                                                                                                                                                                                                                                                                                                                                       |
| <b>Resolution</b>                  | 23424 $\times$ 3                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Image mode</b>                  | 1-Line, 2-TDI, 3-TDI                                                                                                                                                                                                                                                                                                                                                             |
| <b>Max. line rate</b>              | 81 kHz (1-Line), 27 kHz (2-TDI, 3-TDI)                                                                                                                                                                                                                                                                                                                                           |
| <b>Mono/color</b>                  | Mono                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pixel format</b>                | Mono 8/10/12                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Data interface</b>              | 2LC fiber connector                                                                                                                                                                                                                                                                                                                                                              |
| <b>Digital I/O</b>                 | LED_PWR: 2-pin connector provides power for light source<br>CAM_PWR: 2-pin connector provides power for camera<br>I/O: 12-pin P10 connector provides I/O for camera                                                                                                                                                                                                              |
| <b>Power supply</b>                | Light source: 24 VDC<br>Camera: 24 VDC                                                                                                                                                                                                                                                                                                                                           |
| <b>Power consumption</b>           | Light source (always on): Typ. 31.8 W @ 24 VDC<br>Camera: Typ. 23.4 W @ 24 VDC                                                                                                                                                                                                                                                                                                   |
| <b>Dimension</b>                   | Without light source: 404 mm $\times$ 94.5 mm $\times$ 136.6 mm (15.9" $\times$ 3.7" $\times$ 5.4")<br>With light source: 404 mm $\times$ 94.5 mm $\times$ 140.6 mm (15.9" $\times$ 3.7" $\times$ 5.5")                                                                                                                                                                          |
| <b>Frame Grabber</b>               |                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>On-board memory</b>             | 2 GB DDR4                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Interconnect</b>                | PCI-E gen3 $\times$ 4                                                                                                                                                                                                                                                                                                                                                            |
| <b>Standard</b>                    | XoFLink                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Optical module interface</b>    | SFP+ $\times$ 2                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Data interface</b>              | 2LC fiber port                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Camera quantity supported</b>   | 1/2                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Interface transmission rate</b> | 10 Gbps for single port, 20 Gbps in total                                                                                                                                                                                                                                                                                                                                        |
| <b>I/O Type</b>                    | Provides 11 configurable I/O connectors, compatible with single-ended/differential signals, and supports cascading of multiple frame grabbers. <ul style="list-style-type: none"> <li>I/O on bracket: Line 0 to Line 7 supports input (3.3 V to 24 V) and output (max. 24 V)</li> <li>I/O on PCB: Line 8 to Line 10 supports input (3.3 V to 12 V) and output (3.3 V)</li> </ul> |
| <b>Connector</b>                   | <ul style="list-style-type: none"> <li>Connector of I/O on bracket: 20-pin MiniDP female connector</li> <li>Connector of I/O on PCB: 9-pin header (2.54 mm interval, 2 <math>\times</math> 5, 10-pin hole)</li> </ul>                                                                                                                                                            |
| <b>Power consumption</b>           | Typ. 9.8 W                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Dimension</b>                   | 181 mm $\times$ 126.3 mm $\times$ 21.6 mm (7.1" $\times$ 5.0" $\times$ 0.9")                                                                                                                                                                                                                                                                                                     |
| <b>Optical Module</b>              |                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Packaging form</b>              | SFP+                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Interface type</b>              | Duplex LC                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Transmission distance</b>       | < 300 m                                                                                                                                                                                                                                                                                                                                                                          |

## Dimension

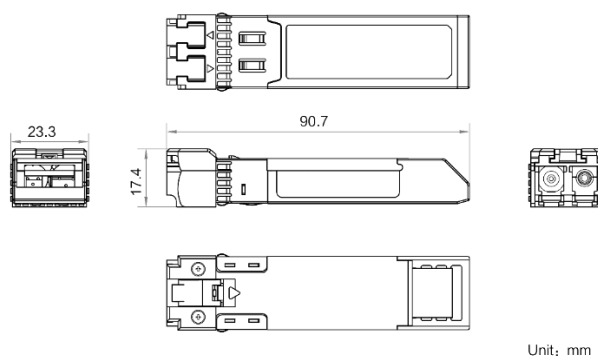
### MV-CIS-330mm-18-91F2M



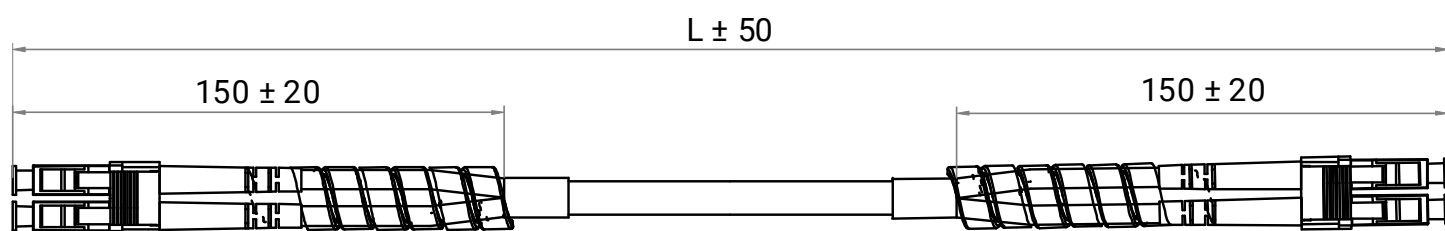
### MV-GS1002F V3.0



### MV-AC10G-SFP-850-LC

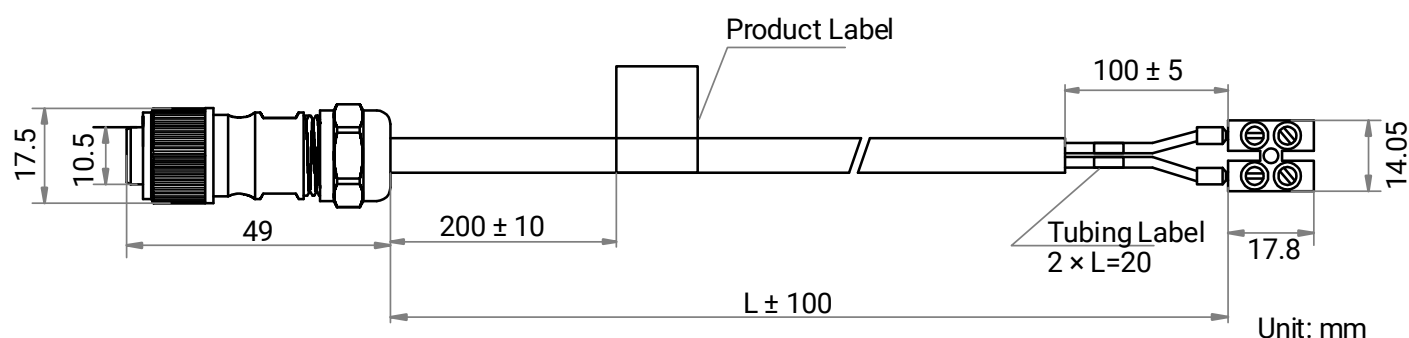


## MV-AC10G-2LC-2LC-HF-10m



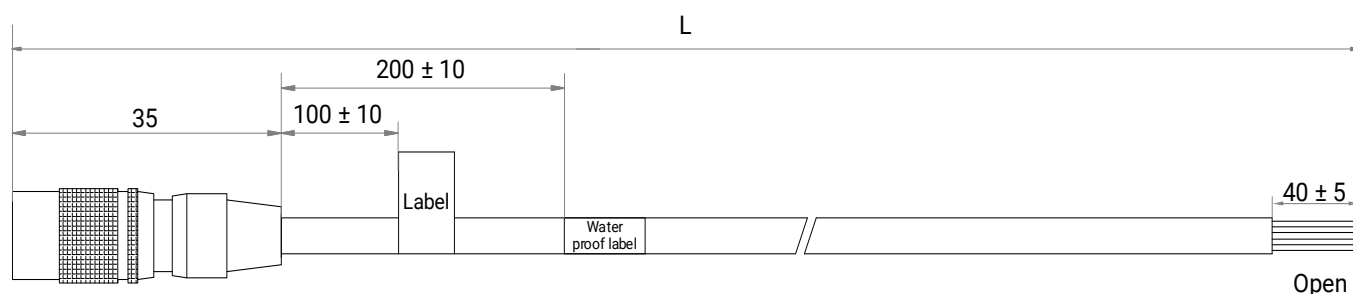
Unit: mm

## MV-ACP-ST1210S2-open-ST-10m



Unit: mm

## MV-ACP-H12p-open-ST-10m



Open

Unit: mm