



# Technical Specifications

## MOBOTIX S74 Long Cable Extender

**More range. More possibilities. More efficiency.**

One camera - up to four modules - and you can move each module up to 34 m away from the camera housing. That's flexibility, redefined! So you could even monitor the ground and top floors of the Leaning Tower of Pisa with a single camera. Or line up all the spaghetti from one package. That's the distance you can cover with the MOBOTIX S74 Long Cable Extender.

- Modules can be placed up to 34 meters away from the camera housing.
- Image data transmitted between the two LCE connection boxes with up to 30 m of fiber-optic cable.
- Suitable for all S74 sensor modules (4K, 4MP Ultra LowLight, Thermal B-Series will be supported with a later camera firmware release from late Q1/22 onwards) and for the MultiSense module and IR modules.
- 30fps@4K (WDR off), 15fps@4K (WDR on).



BeyondHumanVision

**MOBOTIX**

# Technical Specifications

| Type                               | Mx-F-S7A-LCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|-------|-----------|------------|---------|-------------------|---------|---------------------------------|--------------------------------------------------------|-----|-------|----------------------|--------------------------|-------------------------|----------------------------------------|
| Connectors (per LCE Box)           | <div>1 MOBOTIX 7 sensor module connector (USB-C)</div> <div>1 Optical interface:</div> <table><tr><td>Cable quality</td><td>OM2 or better</td></tr><tr><td>Fibre</td><td>50/125 µm</td></tr><tr><td>Receptacle</td><td>LC - LC</td></tr><tr><td>Transmission type</td><td>Simplex</td></tr></table> <div>1 Electrical interface:</div> <table><tr><td>Power and electrical inter-face</td><td>6x2 for I2C (SCL, SDA), Reserved0, Reserved1, VCC, GND</td></tr><tr><td>AWG</td><td>24-20</td></tr><tr><td>Cable Diameter rigid</td><td>0,14-0,5 mm<sup>2</sup></td></tr><tr><td>Cable Diameter flexible</td><td>0,2-0,5 mm<sup>2</sup> (with ferrule)</td></tr></table> | Cable quality | OM2 or better | Fibre | 50/125 µm | Receptacle | LC - LC | Transmission type | Simplex | Power and electrical inter-face | 6x2 for I2C (SCL, SDA), Reserved0, Reserved1, VCC, GND | AWG | 24-20 | Cable Diameter rigid | 0,14-0,5 mm <sup>2</sup> | Cable Diameter flexible | 0,2-0,5 mm <sup>2</sup> (with ferrule) |
| Cable quality                      | OM2 or better                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Fibre                              | 50/125 µm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Receptacle                         | LC - LC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Transmission type                  | Simplex                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Power and electrical inter-face    | 6x2 for I2C (SCL, SDA), Reserved0, Reserved1, VCC, GND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| AWG                                | 24-20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Cable Diameter rigid               | 0,14-0,5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Cable Diameter flexible            | 0,2-0,5 mm <sup>2</sup> (with ferrule)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Recommended cables                 | <div>Optical Interface: LC-LC OM3</div> <div>Electrical Interface: The wires must follow the specification as outlined above.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Max Cable Length                   | 30 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Connectable MOBOTIX Sensor Modules | 4K, 4MP and Thermal Sensor Modules<br>Multisense, IR-Light (no optical link necessary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Certificates                       | EN 50121-4, EN 55032, EN 55035, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62368-1, EN 63000, AS/NZS CISPR32, 47 CFR Part 15b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| IP protection class                | No IP rating (indoor use only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| IK protection class                | No IK rating (indoor use only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |
| Operating temperature range        | 0 to 40 °C/32 to 149 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |               |       |           |            |         |                   |         |                                 |                                                        |     |       |                      |                          |                         |                                        |

| Type                  | Mx-F-S7A-LCE                                                                        |
|-----------------------|-------------------------------------------------------------------------------------|
| Max. frame rate (fps) | Optical sensors only:<br>15 @ 4K WDR on<br>30 @ 4K WDR off                          |
| LEDs                  | 2 Multicolor LEDs: power status (left), transmission status of optical link (right) |

