

# SPECIMCUBE

## TECHNICAL SPECIFICATIONS (CameraLink)

|                      |                                                |
|----------------------|------------------------------------------------|
| Supported cameras    | FX10 CL / FX17 CL                              |
| Operating system     | Specim CameraOS                                |
| Operating modes      | Real-time processing, data collection          |
| Real time processing | Using applications created with Specim INSIGHT |
| User interface       | CameraOS - webUI                               |
| SoC                  | NVIDIA Jetson Xavier AGX                       |
| Storage              | 1TB                                            |
| Data format          | Specim dataset with ENVI compatible files      |
| Camera Interface     | CameraLink (SDR connector)                     |

## CHARACTERISTICS

|                          |                              |
|--------------------------|------------------------------|
| Size (W x L x H)         | W: 190 x L: 300 x H: 91 mm   |
| Weight                   | 4.3 kg                       |
| Buttons                  | Power and recovery           |
| Certifications           | CE, RoHS                     |
| Temperature, operational | +5 °C ... +40 °C             |
| Humidity operational     | 40 °C at 95%, Non-Condensing |

## CONNECTORS

|                   |                                                                                          |
|-------------------|------------------------------------------------------------------------------------------|
| CameraLink        | 2 x SDR connectors                                                                       |
| Networking        | 2 x 1 Gigabyte Ethernet (RJ-45)                                                          |
| USB               | 2 x USB 3.0 + USB 2 x USB 2.0 (USB type A)                                               |
| RS-232            | 1 x RS-232 (M12 - 4pins)                                                                 |
| RS-485            | 1 x RS-485 (3 way terminal block)                                                        |
| CAN               | 1 x CAN bus with transceiver (3 way terminal block)                                      |
| HDMI              | 2 x HDMI                                                                                 |
| External triggers | 4 x isolated inputs or shaft encoder (M12 - 12 pins), 4 isolated outputs (M12 - 17 pins) |
| Input power       | 10-32Vdc (M12 - 4 pins)                                                                  |

## PROTOCOLS

|                             |                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported streaming formats | Detector image: Mono12, Mono12packed (GigeVision only), Mono16<br>Applications: RGB8, ClassID<br>Quantification techpreview: Scaled8,Scaled16, FixedPoint16 |
| GigE Vision                 | GigE Vision compliant                                                                                                                                       |
| JSON-RPC                    | TCP/IP protocol for controlling CUBE                                                                                                                        |
| Websocket                   | Data streaming protocol for Web based user interfaces                                                                                                       |
| UDP Vision                  | UDP protocol for data streaming                                                                                                                             |
| Network discovery           | UDP broadcast network discovery                                                                                                                             |
| FTP                         | For transferring the datasets                                                                                                                               |