

# SPECIM CUBE

## 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 Applications: RGB8, ClassID 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

# SPECIM CUBE

## TECHNICAL SPECIFICATIONS (GigE Vision)

Supported cameras	FX10e / FX17e / FX50e
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	GigE Vision (Ethernet 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

GigE Vision	2 x 1 Gigabyte Ethernet connectors (RJ-45)
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)
Camera input power	+12Vdc +/-10%
Camera output power	+12Vdc +/-10% + trigger signal

## PROTOCOLS

Supported streaming formats	Detector image: Mono12, Mono12packed (GigeVision only), Mono16 Applications: RGB8, ClassID Quantification techpreview: Scaled8,Scaled16, FixedPoint16
GigE Vision	GigE Vision compliant
JSON-RPC	TCP/IP protocol for controlling CUBE
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