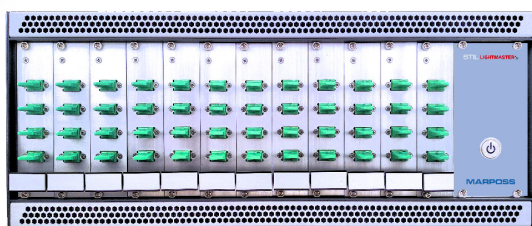# LIGHTMASTER

NEW 2022

MARPOSS STIL

Chromatic Confocal Controller

MODULAR MULTI-POINT CONTROLLER

UP TO 48 SENSORS

LIGHTMASTER is a multi-channel modular controller for Chromatic Confocal Sensor.

LIGHTMASTER has a total capacity of 48 simultaneous measurements thanks to 12 LIGHTSLOT modules with 4 Channels each.

LIGHTMASTER is a 19"3U rack with an universal Ethernet GiGE interface compatible with PC or PLC.

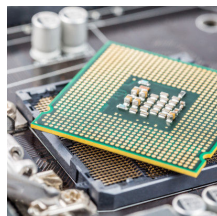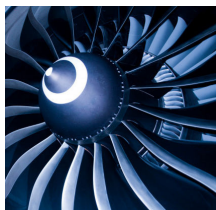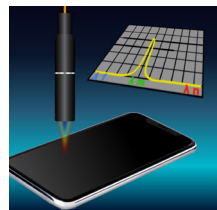| **Simultaneous**	**Industrial**	**Universal**
Up to 48 measures synchronized	Works in any environment	Adapted to all STIL optical pens

▶ DESIGNED FOR

Mechanics
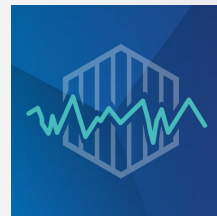
Semiconductors

Aerospace

Metrology

▶ PERFECT FOR
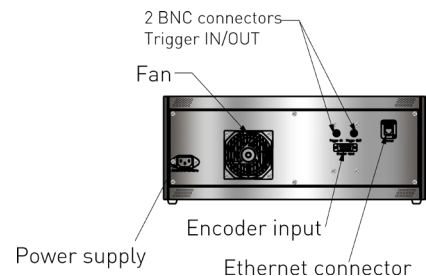
Distance

Roughness

Thickness

Shape

LIGHTMASTER

MARPOSS
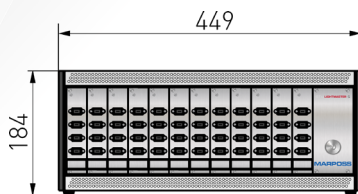## STIL

Chromatic Confocal Controller

▷ DIMENSIONAL DRAWING*

449

184

502

2 BNC connectors
Trigger IN/OUT
Fan

Power supply
Encoder input
Ethernet connector
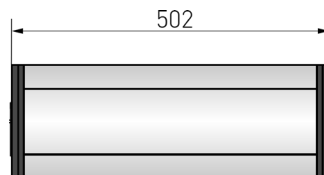
▷ SPECIFICATIONS*

Nota: All dimensions are in mm

Product	LIGHTMASTER-S	LIGHTMASTER-F
Order code	O8ST08M0001	O8ST08M0002
Technology	Chromatic Confocal	Chromatic Confocal
Source	White LED	White LED
Number of channels	from 12 to 48 (simultaneous)	from 12 to 48 (simultaneous)
Measuring Frequency	200 Hz - 750 Hz	Up to 2000 Hz
Calibration table memory	Nominal Measuring Range Up to 48 different optical sensor heads	Half Nominal Measuring Range Up to 48 different optical sensor heads
Distance Measurement	First/Second/Third/Fourth/Last/Strongest peak	First/Second/Third/Fourth/Last/Strongest peak
Thickness Measurement	2 Peaks among 5	2 Peaks among 5
Advanced features	Exposure time / Encoder trigger...	Exposure time / Encoder trigger...
Digital Output	Ethernet (GigE)	Ethernet (GigE)
Synchronization	Trigger in&out	Trigger in&out
Other Input/Output	Encoder input (1)	Encoder input (1)
Fiber connection	E2000/APC	E2000/APC
Temperature in use	5°C - 50°C	5°C - 50°C
Storage temperature	-20°C - 70°C	-20°C - 70°C
Relative humidity	5% - 80% HR without condensation	5% - 80% HR without condensation
Protection type	IP 20	IP 20
Compliance	EN 61010-1; EN 61326-1	EN 61010-1; EN 61326-1
Power Supply	100-240V AC	100-240V AC
Maximum/Usual Consumption	120 W/70 W	120 W/70 W
Dimensions	449 mm x 184 mm x 502 mm	449 mm x 184 mm x 502 mm
Weight	11kg	11kg

*Specifications are subject to modifications

▷ ASSOCIATED WITH

OPTICAL FIBER

- Standard cladding
- Stainless steel cladding
- Armored fiber

SENSOR HEAD

- EVEREST Series
- ENDO Series
- CL-MG Series
- OP Series

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CM48-050-N2-0822