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Data Sheet

August 15, 2026

GN NETTEST/PHOTONETICS

GN Nettest CMA-4500 OTDR Module

The GN Nettest/Photonetics CMA-4500-006 is a type of optical time domain reflectometer (OTDR). It is used to test and troubleshoot fiber optic cables. It sends a pulse of light down the fiber and measures the reflections. This allows technicians to identify breaks, splices, and other imperfections in the cable.



MODEL

**GN
Nettest/Photonetics
CMA-4500-006**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CMA-4500-006

LISTING

<https://aumictechlabs.com/products/cma-4500-006-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The GN Nettest/Photonetics CMA-4500-006 is a specialized piece of telecommunications test equipment used for characterizing optical fibers. As an OTDR (Optical Time Domain Reflectometer), its primary function involves injecting a high-powered light pulse into the fiber under test and analyzing the backscattered light or reflections that return to the instrument. By carefully measuring the time of flight and amplitude of these reflections, the OTDR can precisely determine the location and severity of various events along the fiber, such as splices, connectors, bends, and breaks. This information is crucial for installation, maintenance, and troubleshooting of optical networks.

CMA4500006 Characteristics / Specifications

PARAMETER	VALUE
Model	CMA 4500
Also Known As	CMA4500 / CMA-4500-006 / 4500D
Instrument Type	optical time domain reflectometer
Processor	ultra low power 733 MHz
Ram	256 MB
Operating System	Windows XP Pro
Display	10.4 inch (26.4 cm) color XGA 1024 × 768 LCD with touchscreen
Internal Storage	20 GB minimum hard drive
Host Interfaces	two PS/2, two USB, 10/100 Ethernet, IrDA
Ac Input	92 to 132 VAC or 184 to 264 VAC, 47 to 63 Hz auto switching
Dimensions	24.1 × 34.3 × 9.5 cm (9.5 × 13.5 × 3.75 in)
Mass	5.4 kg including battery and optics
Battery	Li-Ion
Operating Temperature	0 to 45 C
Storage Temperature	minus 25 to 60 C
Humidity	95 percent max non-condensing
Sm Distance Ranges	5, 20, 50, 75, 125, 250, 300 km
Mm Distance Ranges	5, 15, 20, 40, 64 km
Sampling Points	up to 256,000
Ior Range	1.300000 to 1.700000
Distance Accuracy	0.0025 percent of distance plus or minus distance resolution plus or minus index uncertainty
Loss Linearity	plus or minus 0.04 dB/dB
Loss Resolution	0.001 dB
Optics 4500	1310 plus or minus 20 nm / 1550 plus or minus 25 nm, 37/36 dB SNR=1
Laser Safety	IEC 60825-1 Classland CDRH Class 1

PARAMETER	VALUE
Manufacturer	GN Nettest / Nettest / Anritsu

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 25 to 60 C
Operating temperature	0 to 45 C
Operating Temperature	0 to 45 C
Humidity	95 percent max non-condensing
Sm Distance Ranges	5, 20, 50, 75, 125, 250, 300 km
Mm Distance Ranges	5, 15, 20, 40, 64 km
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Distance Accuracy	0.0025 percent of distance plus or minus distance resolution plus or minus index uncertainty
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Optics 4500	1310 plus or minus 20 nm / 1550 plus or minus 25 nm, 37/36 dB SNR=1
Laser Safety	IEC 60825-1 Classland CDRH Class 1
Manufacturer	GN Nettest / Nettest / Anritsu Notes From Anritsu/Nettest CMA4500 Series specifications (common 4500D table and optics rows). CMA-4500-006 isaplatform configuration suffix; confirm installed wavelength/dynamic-range optics code (25/35/45/54/60/66 and related) on the unit.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications (4500D common table) list an ultra-low-power 733 MHz processor, 256 MB RAM, Windows XP Pro, 10.4 in 1024 x 768 touch LCD, 20 GB minimum HDD, dual USB, dual PS/2, 10/100 Ethernet, IrDA, auto-ranging 92-132 / 184-264 VAC 47-63 Hz, 24.1 x 34.3 x 9.5 cm, 5.4 kg with battery and optics, Li-Ion pack, 0 to 45 C operating, minus 25 to 60 C storage, 95 percent RH non-condensing. Distance ranges SM 5/20/50/75/125/250/300 km and MM 5/15/20/40/64 km; sampling to 256,000 points; IOR 1.300000 to 1.700000; distance accuracy 0.0025 percent of distance plus or minus resolution plus or minus index uncertainty; loss linearity plus or minus 0.04 dB/dB; loss resolution 0.001 dB. Optics examples: 4500-25 1310/1550 nm 37/36 dB; 4500-35 40/40 dB; 4500-54 1550 nm 50 dB; 4500-66 MM 850/1300 nm 24/26 dB. CMA-4500-006 isaconfiguration of this platform.

Applications

Metro, CWDM, ultra-long-haul, and FTTP fiber construction, fault locate, and documentation.

Key Features

Fixed-optics OTDR plus optional LTS and VFL

10.4 in XGA touch display

Up to 50 dB dynamic range (4500-54)

256,000 sample points

Construction and Fault Locate modes

Technical Specifications

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Mass	5.4 kg including battery and optics
Battery	Li-Ion
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Storage Temperature	minus 25 to 60 C
Humidity	95 percent max non-condensing
Sm Distance Ranges	5, 20, 50, 75, 125, 250, 300 km

PARAMETER	VALUE
Mm Distance Ranges	5, 15, 20, 40, 64 km
Sampling Points	up to 256,000
Ior Range	1.300000 to 1.700000
Distance Accuracy	0.0025 percent of distance plus or minus distance resolution plus or minus index uncertainty
Loss Linearity	plus or minus 0.04 dB/dB
Loss Resolution	0.001 dB
Optics 4500 25	1310 plus or minus 20 nm / 1550 plus or minus 25 nm, 37/36 dB SNR=1
Optics 4500 54	1550 plus or minus 25 nm, 50 dB SNR=1
Laser Safety	IEC 60825-1 Class I and CDRH Class 1
Manufacturer	GN Nettest / Nettest / Anritsu

Notes
From Anritsu/Nettest CMA4500 Series specifications (common 4500D table and optics rows). CMA-4500-006 is a platform configuration suffix; confirm installed wavelength/dynamic-range optics code (25/35/45/54/60/66 and related) on the unit.

Laser Safety

Laser Safety: IEC 60825-1 Classland CDRH Class 1 Manufacturer: GN Nettest / Nettest / Anritsu Notes
From Anritsu/Nettest CMA4500 Series specifications (common 4500D table and optics rows). CMA-4500-006 is a platform configuration suffix; confirm installed wavelength/dynamic-range optics code (25/35/45/54/60/66 and related) on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.