

Data Sheet

VI**AVI**

SmartClass™ OLA-54 and OLA-55

Optical Level Attenuator

VI**AVI SmartClass optical handhelds go beyond the basics**

With more than 100,000 optical handhelds already in use, VI**AVI continues the success story with the SmartClass optical handhelds. The SmartClass help your network move to the next level of performance. VI****AVI SmartClass optical handhelds encompass a new, intelligent, and next level product line for testing all optical signals and systems, including broadband, PONs, and Gigabit Ethernet.**

All of SmartClass optical handhelds provide:

- An extended number of calibration wavelengths for the highest performance range in the industry.
- The intuitive graphical user interface for fast, easy, and straightforward operation.
- The intelligent power supply management system.
- The belt bag for safe and hands-free operation and transport
- Traceable measurements to international standards for confidence in accuracy.
- A robust, shock-proof, and splash-proof design for field operation
- Quick start operation, requiring no warm-up time and reducing testing time.

The SmartClass OLA-54 (optical level attenuator) is designed for multimode fiber systems (50/125 μ m fiber).

The SmartClass OLA-55 (optical level attenuator) is a future-proof instrument for system testing, installation, maintenance, and production of single-mode fibers.

Features

- 50/125 μ m multimode fiber design (SmartClass OLA-54)
- New optical design allowing for low minimum insertion loss
- Wheel for precise and fast manual setting
- Absolute and relative attenuation setting
- FTTx ready



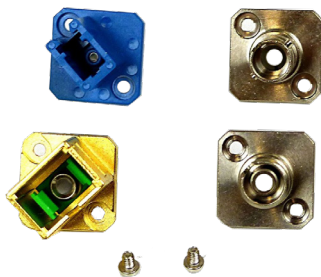
Accessories



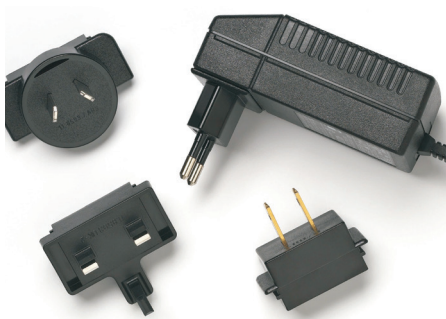
OCK-10 Optical Connector Cleaning Kit (accessory)



OVF-1 Visual Fault Locator (accessory)



Optical adapters



Worldwide compatible AC adapter (SNT-121A)



Dust cap for the optical interface

Shock-proof design

Display (128 x 64 dots) shows up to three results simultaneously

Backlight for the display

Wheel for precise and fast manual setting

Power-on, auto power-off (after 20 min)

Specifications

	SmartClass OLA-54 BN 2280/41 Multimode	SmartClass OLA-55 BN 2280/01 Single-mode BN 2280/21 Single-mode APC
Table adjustable wavelength range	750 to 1350 nm in 1 nm increments	1260 to 1650 nm in 1 nm increments
Fiber type	50/125 µm	9/125 µm
Calibrated wavelengths	850 nm, 1300 nm	1310 nm, 1550 nm, 1625 nm
Display range ¹	<2.5 to 55 dB	2.0 to 60 dB
Minimum insertion loss ¹	<2.5 dB	<2.0 dB
Linearity	± 0.2	± 0.2
Repeatability of attenuation setting ²	± 0.1 dB	± 0.1 dB
Total attenuation accuracy ¹	typ. ± 0.8 dB	± 0.8 dB
Setting type	Continuous over the entire range	Continuous over the entire range
Function	Bi-directional	Bi-directional
Displayed value ¹	Absolute or relative attenuation value	Absolute or relative attenuation value
Max. permitted level	+20 dBm	+23 dBm

1. Including connectors (to IEC874-1, method 6), depending on quality of the connectors applied to the OLA

2. Excluding remating

General Data

Display	
Illuminated graphical display, resolution of 128 × 64 dots.	
Results displayed in	dB
Backlight function switchable via a separate key	
Connector	
Optical connector interchangeable adapter from BN 2155/00.xx range is suitable for measurements on flat or angled physical contact systems	
Power supply	
Four dry batteries Mignon/AA, 1.5 V or NiMH rechargeable cells Mignon/AA, 1.2 V	
Operating time from dry batteries	>300 h
Batteries/NiCd/NiMH power saving: The instrument switches off automatically after ~20 min (function can be disabled)	
AC line operation via separate AC adapter	
Integrated fast battery charging function (2 hours)	
External 12 V DC operating via an AC adapter or a 12 V car battery adapter	
Electromagnetic compatibility	
Corresponds to IEC 61326 (CE conformance)	
Calibration	
Suggested calibration interval	3 years
Ambient temperature	
Nominal range of use	-10°C to +55°C
Storage and transport	-40°C to +70°C
Dimensions and Weight	
W × H × D approximately	95 × 60 × 195 mm
	(3.74 × 2.36 × 7.68 in)
Weight approximately	500 g (1.1 lb)

Ordering Information

Order number	Instrument
BN 2280/01	SmartClass OLA-55 Single-mode, variable attenuator, PC
BN 2280/21	SmartClass OLA-55 Single-mode, variable attenuator, APC
BN 2280/41	SmartClass OLA-54 Multimode, variable attenuator, 50/125 μ m

Included with the SmartClass OLA-55

2 interchangeable adapter from BN 2155/00.xx (range (must be selected)), 4 dry batteries Mignon/AA, 1.5 V, operating manual, MT-1S belt bag

Order number	Accessories
BN 2155/00.32	Optical adapter ST type
BN 2155/00.06	Optical adapter SC/PC type
BN 2155/00.05	Optical adapter FC type
BN 2155/00.26	Optical adapter SC/APC type
BN 2155/00.07	Optical adapter LC type
BN 2252/01	OVF-1 Visual Fault Locator
BN 2229/90.21	OCK-10 Optical Connector Cleaning Kit
BN 2229/90.07	Optical cleaning tape
BN 2229/90.08	Spare tape for optical cleaning tape
BN 2237/90.02	NiMH cells, Mignon/AA, 1.2 V (4 required per instrument)
BN 2277/90.01	SNT-121A Worldwide compatible AC adapter
K804	USB connection cable
BN 2277/90.02	MT-1S belt bag for one instrument
BN 2126/03	MT-2S soft bag for two instruments
BN 2126/04	MT-3S soft bag for three instruments
BN 2093/31	MK-3S hard case for three instruments
BN 2280/90.01	Calibration Report



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