VIAVI

SmartClass™ OCC-56C

Optical DWDM Channel Checker

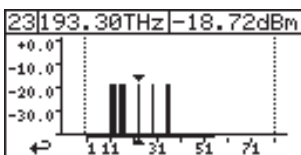## The Viavi SmartClass optical handhelds go beyond the basics

The Viavi Solutions SmartClass OCC-56 is a handheld, battery-operated dense wavelength division multiplexing (DWDM) channel checker that is ideal for field service groups tasked with the installation, maintenance, and upgrades of DWDM systems.

The SmartClass OCC-56 scans the DWDM system and automatically records all channels with the wavelength/frequency and the related power level. Information can be displayed in a graphical spectrum format or in a table of results so that users can easily check the performance of each and every channel.

The SmartClass OCC-56C DWDM channel checker covers all ITU-T frequencies from 191.100 to 196.150 THz based on a 50 GHz grid.

Key Benefits

- Industry's smallest and lightest DWDM channel checker
- Supports C-band applications up to 102 channels
- Outstanding battery life ensures highest flexibility
- Graphical/tabular display mode
- Supports 50, 100, or 200 GHz channel spacing (according to ITU-T)
- Save results via internal memory or external USB memory stick
- Report generation software OFS-355

Graphical display

Cursor position indicates channel shown in the upper section of the display.

Tabular display

Channel number and frequency (wavelength) with the relevant power level is listed in a compact format.
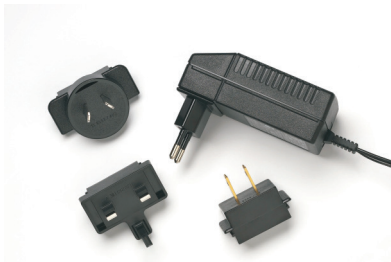
Define cusotmized wavelength grids to optimize measurements. Save up to 10 sets of parameters on the SmartClass OCC-56.
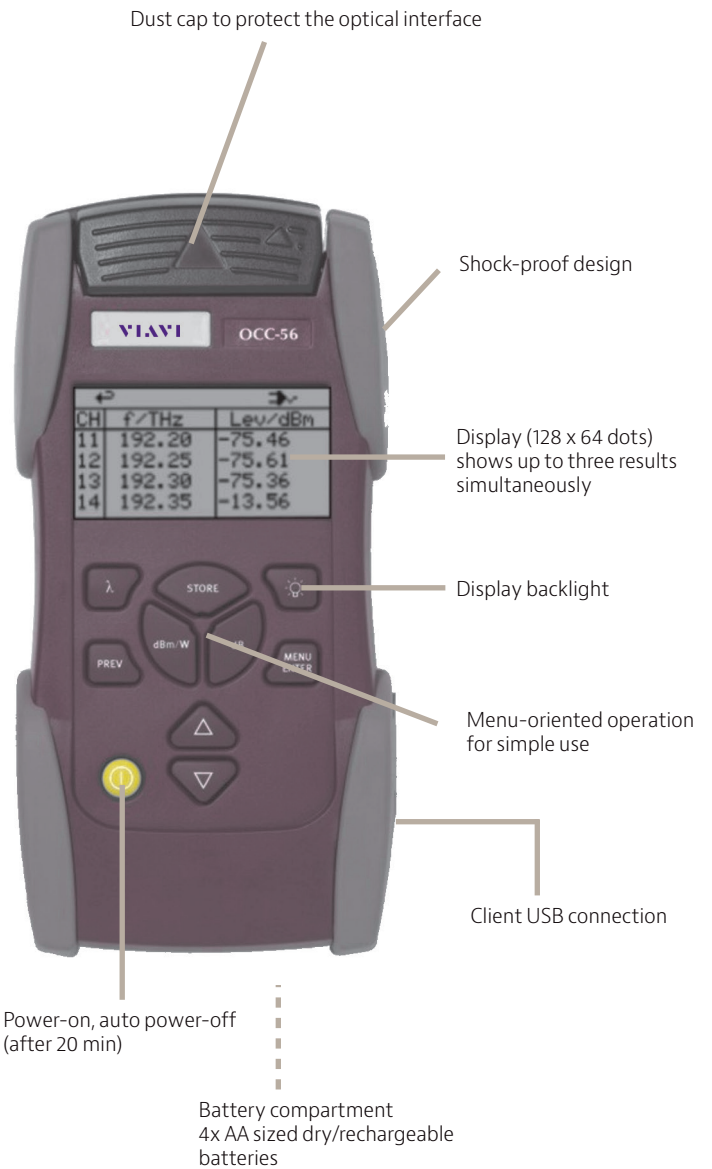
Data Sheet

OCK-10 Optical Connector Cleaning Kit (accessory)

Optical adapters (BN 2150) for signal input

Worldwide compatible AC adapter/charger (SNT-121A)

Dust cap to protect the optical interface

Shock-proof design

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

Display backlight

Menu-oriented operation for simple use

Client USB connection

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

Battery compartment 4x AA sized dry/rechargeable batteries

Specifications

General

Wavelength range	1528.77 to 1568.77 nm
Wavelength accuracy	typ. ± 3.3 GHz
Channel spacing	50/100/200 GHz
Channel power range	<-70 to +10 dBm
Absolute accuracy[1, 2]	< ±1 dB
Readout resolution	±0.1 dB
Filter selectivity optical bandwidth 3 dB	35 GHz (0.28 nm) typ.
Measurement time	~ 120 s (full span sweep) typ.
Optical interface	Universal PC (FC/SC/DIN...); single mode
Max. composite power	+22 dBm all channels; +10 dBm one channel
Return loss	>35 dB
Graphical display trace	Bar graph, 50 GHz/pixel
Table	ch-no, wavelength, power
Functions	Zoom, marker
Sweep mode	Single, continuous
Remote control	via USB interface

Display

Graphical display, resolution of 128 × 64 dots, displays up to four laser status screens

Backlight function switchable via a separate key

Optical Interface

Optical connector interchangeable adapter from BN 2150/00.xx range

Power Supply

Four dry batteries Mignon/AA, 1.5 V or NiMH rechargeable cells Mignon/AA, 1.2 V

Operating time from dry batteries	typ. 7 h[3]

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)

Electromagnetic Compatibility

Corresponds to IEC 61326 (CE conformance)

Calibration

Suggested calibration interval	3 years

Temperature

Operation	−5 to +55°C
Storage	−40 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)

1. For input levels -60 to +5 dBm
2. 23°C ±5°C
3. Single sweep mode

Ordering Information

Description	Part Number
Base Unit	
OCC-56 C (C-band)	BN 2277/41
SmartClass OCC-56 Includes	
Host USB interface	BN 2277/90.06
4 NiMH rechargeable cells (AA)	BN 2237/90.02
SNT-121A Worldwide compatible AC adapter	BN 2277/90.01
Operating manual, English or Operating manual, German state which one you prefer	BN 2277/98.22 BN 2277/98.02
MT-1S belt bag for one instrument	BN 2277/90.02
Interchangeable adapter	BN 2150/00.xx
Accessories	
Optical adapter ST type	BN 2150/00.32
Optical adapter SC type	BN 2150/00.58
Optical adapter FC type	BN 2150/00.51
Optical adapter DIN type	BN 2150/00.50
Optical adapter LC type	BN 2150/00.59
OCK-10 Optical Connector Cleaning Kit	BN 2229/90.21
NiMH cells, Mignon/AA, 1.2 V (4 required per instrument)	BN 2237/90.02
SNT-121A Worldwide compatible AC adapter	BN 2277/90.01
USB connection cable	K804
OIM-400 Fiber Microscope	BN 2255/90.08
MT-1S belt bag for one instrument	BN 2277/90.02
MT-2S soft bag for two instruments	BN 2126/03
MT-3S soft bag for three instruments	BN 2126/04
MK-3S hard case for three instruments	BN 2093/31

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