VIAVI

SmartClass™ OCC-56C

Optical DWDM Channel Checker

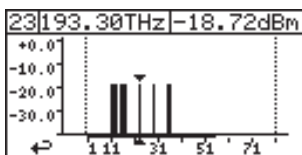## The Viavi SmartClass optical handhelds go beyond the basics

The Viavi Solutions SmartClass OCC-56C 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-56C 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 191.600 to 196.100 THz based on a 100 GHz grid.

Key Benefits

- Industry's smallest and lightest DWDM channel checker
- Supports C-band applications
- Outstanding battery life ensures highest flexibility
- Graphical/tabular display mode
- Supports 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-56C.
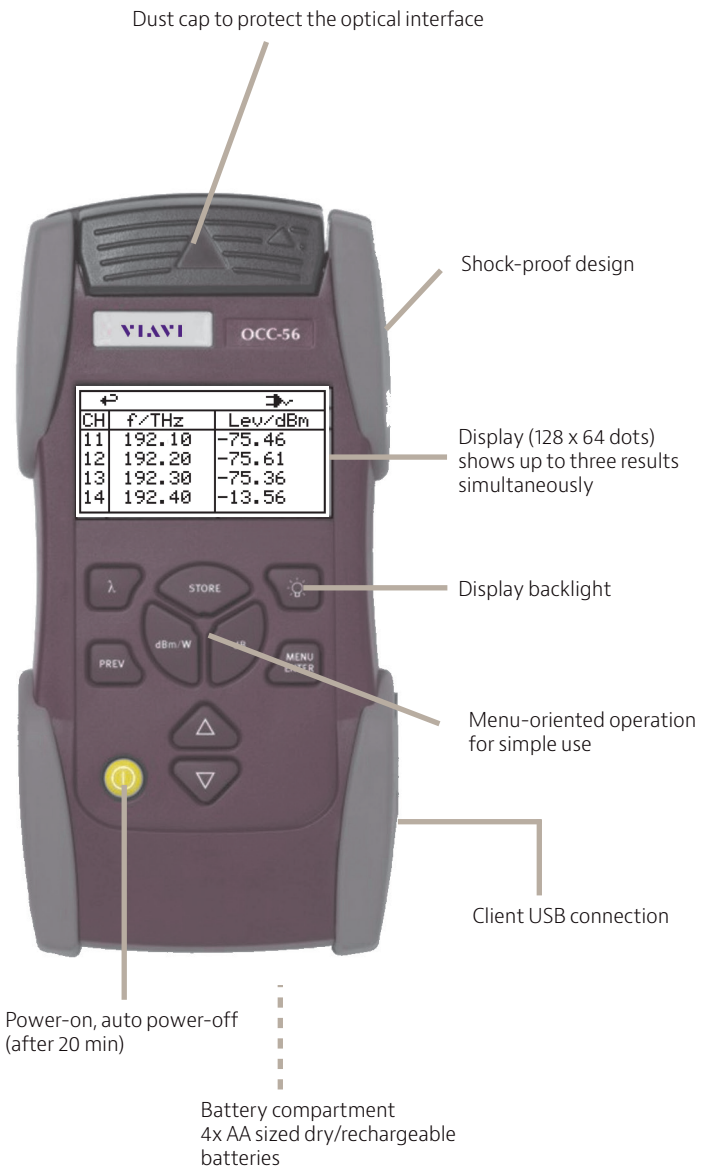
OCK-10 Optical Connector Cleaning Kit
(accessory)

Optical adapters (BN 2155) 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

CH	f/THz	Lev/dBm
11	192.10	-75.46
12	192.20	-75.61
13	192.30	-75.36
14	192.40	-13.56

Specifications

General

Wavelength range	1528.77 to 1564.68 nm; 196.10 to 191.60 THz
Wavelength accuracy	typ. ± 50 pm
Channel spacing	100/200 GHz
Channel power range	<-70 to +10 dBm
Absolute accuracy[1, 2]	< ±1 dB
Readout resolution	±0.01dB
Filter bandwidth @3 dB	min. 0.34 nm
Measurement time	~ 10 s (full span, 46 ch) typ.
Optical interface	Interchangeable APC
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 Adapters

Interchangeable optical adapters. SC, FC, ST, LC- type available.

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	BN 2277/44
SmartClass OCC-56C Includes	
4 NiMH rechargeable cells (AA)	BN 2237/90.02
SNT-121A Worldwide compatible AC adapter	BN 2277/90.01
Operating manual	BN 2277/98.22
MT-1S belt bag for one instrument	BN 2277/90.02
Interchangeable adapter	SC-type (2155/06) mounted; FC-type (2155/05) included
Accessories	
Optical adapter ST type	BN 2155/00.32
Optical adapter SC type	BN 2155/06
Optical adapter FC type	BN 2155/05
Optical adapter LC type	BN 2155/07
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
MT-1S belt bag for one instrument	BN 2277/90.02