

SmartClass™ OCC-56C

Optical DWDM Channel Checker



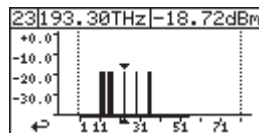
Key features

- 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

The JDSU SmartClass optical handhelds go beyond the basics

The JDSU 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.



Graphical display

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

CH	f/THz	Lev/dBm
11	192.20	-75.46
12	192.25	-75.61
13	192.30	-75.36
14	192.35	-13.56

Tabular display

Channel number and frequency (wavelength) with the relevant power level is listed in a compact format.

EDIT PARAMETER GR:1	
Start	1559.79nm
Spacing	100GHz
Number	38
Stop	1530.33nm
Select Channel	

Define customized wavelength grids to optimize measurements. Save up to 10 sets of parameters on the SmartClass OCC-56.

2



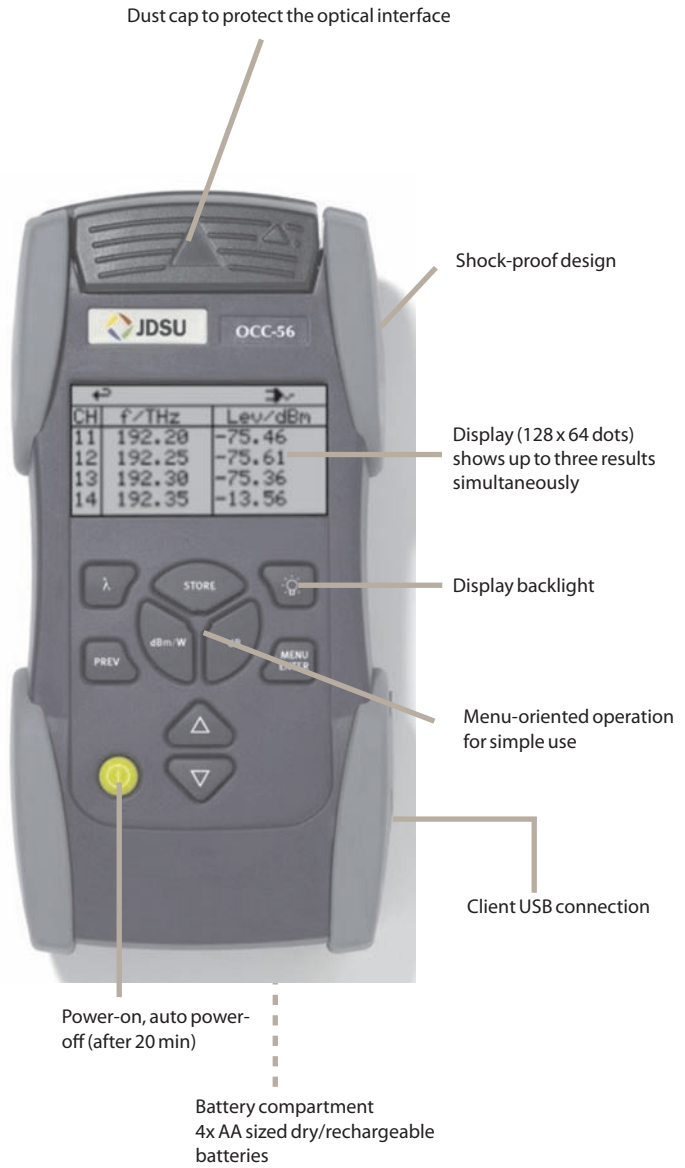
OCK-10 Optical Connector Cleaning Kit (accessory)



Optical adapters (BN 2150) for signal input



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



3

Specifications

SmartClass OCC-56C	
Wavelength range	1528.77 to 1568.77nm
Wavelength accuracy	typ. ± 3.3 GHz
Channel spacing	50/100/200 GHz
Channel power range	< -70 to $+10$ dBm
Absolute accuracy ^{(1), (2)}	$< \pm 1$ 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

⁽¹⁾ For input levels -60 to $+5$ dBm

⁽²⁾ $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$

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⁽¹⁾

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 $+55^{\circ}\text{C}$

Storage -40 to $+70^{\circ}\text{C}$

Dimensions and weight

W \times H \times D approximately $95 \times 60 \times 195$ mm ($3.74 \times 2.36 \times 7.68$ in)

Weight approximately 500 g (1.1 lb)

1. single sweep mode

Ordering information
Base Unit

Part number	Description
BN 2277/41	OCC-56 C (C-band)

SmartClass OCC-56 includes

Part number	Description
BN 2277/90.06	Host USB interface
BN 2237/90.02	4 NiMH rechargeable cells (AA)
BN 2277/90.01	SNT-121A Worldwide compatible AC adapter
BN 2277/98.22	Operating manual, English or
BN 2277/98.02	Operating manual, German please state which one you prefer
BN 2277/90.02	MT-1S belt bag for one instrument
BN 2150/00.xx	Interchangeable adapter

Accessories

Part number	Accessories
BN 2150/00.32	Optical adapter ST type
BN 2150/00.58	Optical adapter SC type
BN 2150/00.51	Optical adapter FC type
BN 2150/00.50	Optical adapter DIN type
BN 2150/00.59	Optical adapter LC type
BN 2229/90.21	OCC-10 Optical Connector Cleaning Kit
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 2255/90.08	OIM-400 Fiber Microscope
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

Test & Measurement Regional Sales

NORTH AMERICA	LATIN AMERICA	ASIA PACIFIC	EMEA	www.jdsu.com/test
TEL: +1 866 228 3762 FAX: +1 301 353 9216	TEL: +1 954 688-5660 FAX: +1 954 3454668	TEL: +852 2892 0990 FAX: +852 2892 0770	TEL: +49 7121 86 2222 FAX: +49 7121 86 1222	