SmartClass™ OCC-56C
Optical DWDM Channel Checker
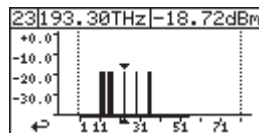
Key features

- **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.

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.
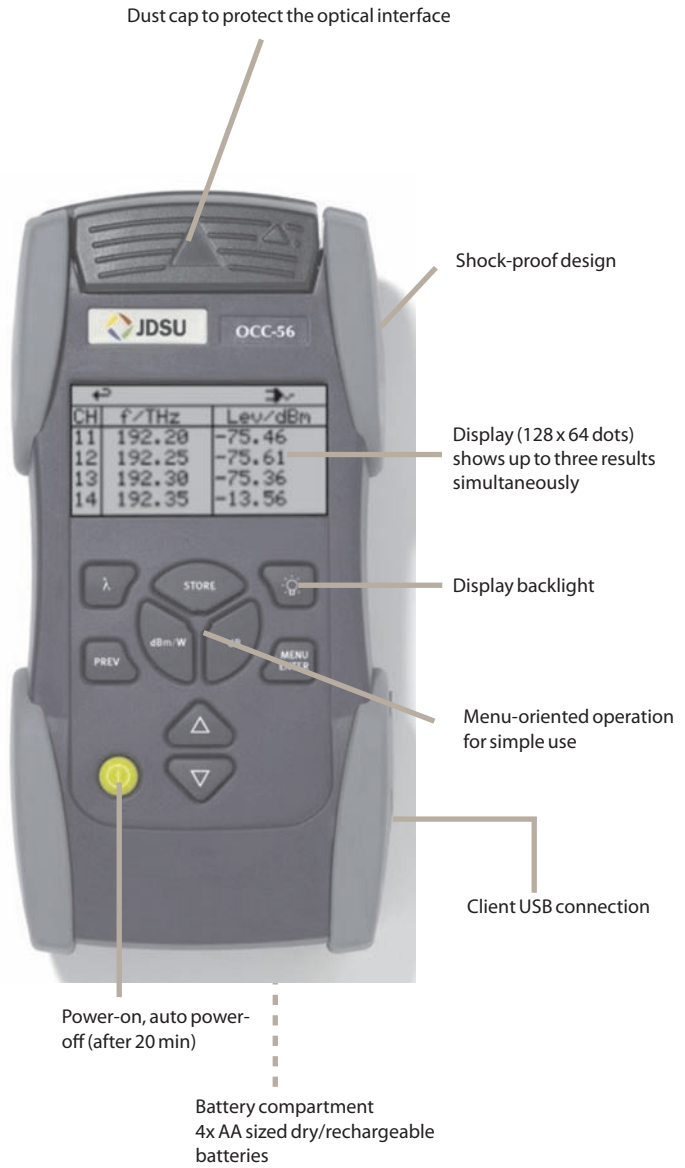
OCK-10 Optical Connector Cleaning Kit (accessory)

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

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Specifications

	SmartClass OCC-56C
Wavelength range	1528.77 to 1568.77nm
Wavelength accuracy	typ. $\pm$ 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	$\pm$ 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°C $\pm$ 5°C

Display

Graphical display, resolution of 128 $\times$ 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°C
Storage	—40 to +70°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

SmartClass OCC-56 header logo

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	OCK-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