



SmartClass OCC-55

CWDM Channel Checker

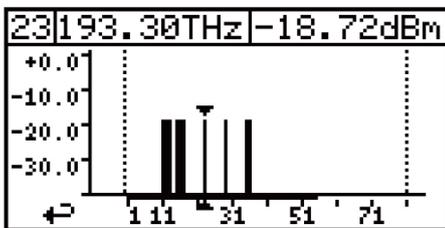
The Viavi SmartClass OCC-55 is a handheld, battery-operated CWDM Channel Checker that is ideal for field service groups tasked with the installation, maintenance, and upgrades of CWDM systems. The OCC-55 scans the CWDM system and automatically records all channels with the wavelength and related power level. The 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.

Features and Benefits

- Industry's smallest and lightest CWDM channel checker
- Wavelength scan range: 1260 nm to 1620 nm
- Outstanding battery lifetime ensures highest flexibility
- Graphical/tabular display mode
- Results can be saved via internal memory
- Report generation software OFS-355

Applications

- Performance verification in metro access networks
- Troubleshooting in CWDM networks
- Upgrade of CWDM systems
- Network element verification
- Channel verification at add/drop multiplexers (OADM)



Graphical display

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

CH	λ /nm	Lev/dBm
11	1471	LOW
12	1491	-2.12
13	1511	-11.20
14	1531	-13.56

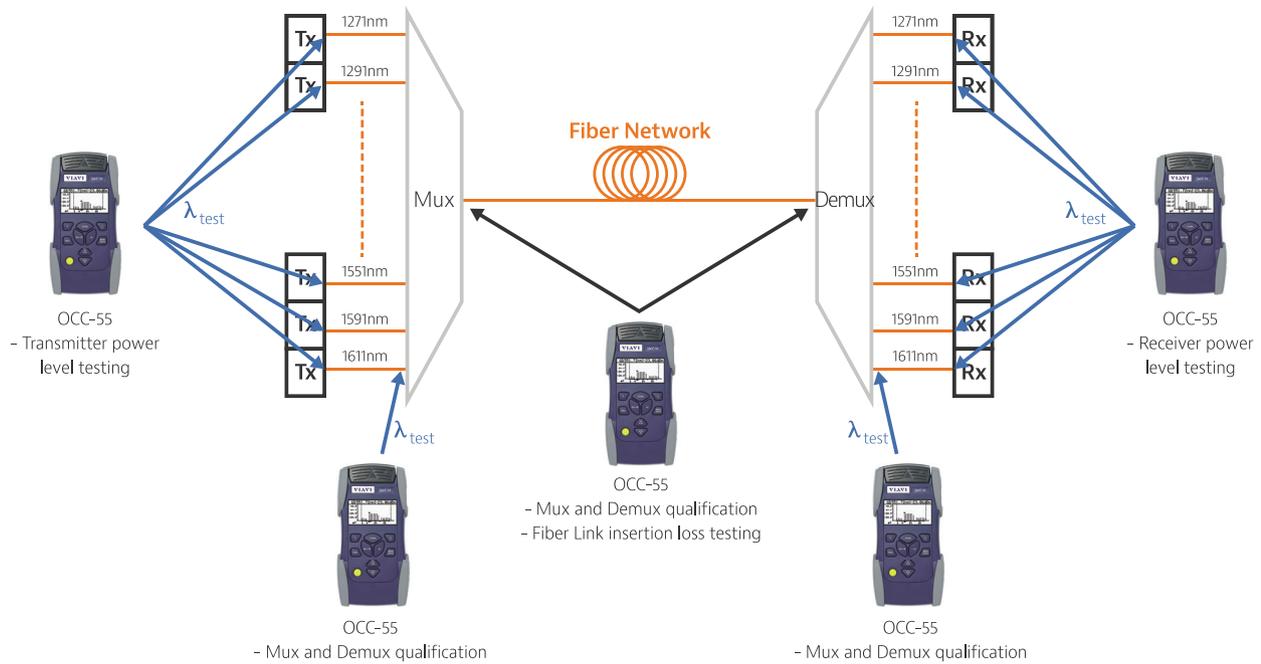
Tabular display

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

Cost-Effective Channel Checker with Great Performance

With the OCC-55, Viavi sets the benchmark for convenience and performance in CWDM analyzers. At just 195 x 95 mm (7.68 x 3.74 in), a technician has the capability to easily install, upgrade, and maintain a CWDM network.

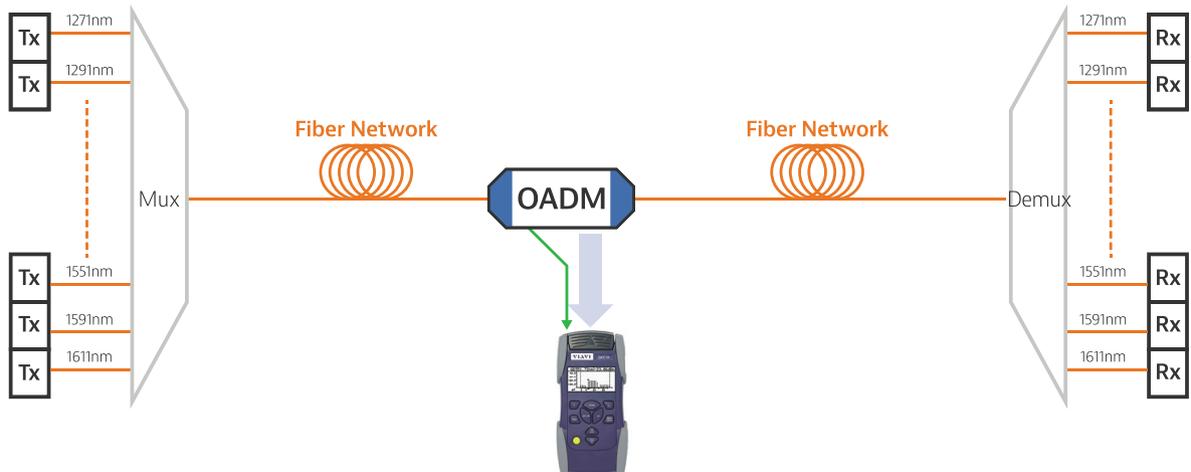
- Analysis of single channel before MUX and after DEMUX
- Qualification of multiplexed signals
- In-service measurement and network element verification



Network Element Qualification

Channel wavelength verification at add/drop multiplexers

The OCC-5 features channel-drop testing at OADM to verify presence of the appropriate channel at the expected power level.

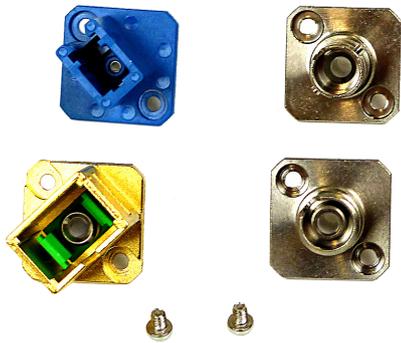


Wavelength Verification

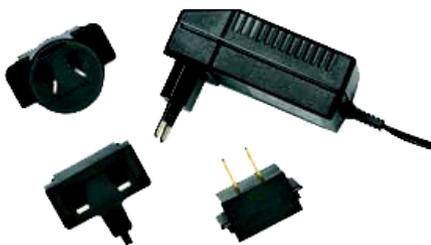
SmartClass OCC-55



OCC-10 Optical Connector Cleaning Kit (accessory)



Switchable Optical Adapters



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



Specifications

OCC-55	
Wavelength range	1260 nm to 1620 nm
Minimum channel spacing/spectral resolution	2 nm (@ 3 dB)
Absolute wavelength accuracy ¹	1 nm
Power level range/channel	+10 dBm to -50 dBm
Maximum composite power	+22 dBm
Channel power repeatability	± 0.4 dB
Channel power accuracy	± 0.8 dB
PDL	± 0.3 dB
Measurement time	1 min
Optical port	SM/PC
Return loss	>35 dB
Graphical display Trace	Bar graph
Table	ch-no, wavelength, power
Functions	Marker, wavelength drift
Sweep mode	Single, continuous
Remote control	via USB interface
(1) 23°C ± 5°C	

Display

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

Backlight function switchable via a separate key

Optical adapters

Switchable optical adapters: FC/SC/LC and ST

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 h¹

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°C to +55°C

Storage -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)

1. Single sweep mode

Ordering Information

Ordering number	Description
2277/40	OCC-55 CWDM Channel Checker
Included items	
Ordering number	Description
2237/90.02	Four NiMH rechargeable cells (AA)
2277/90.01	SNT-121A AC adapter
Operating manual	
2277/90.02	MT-1S Belt bag
2155/00.05	Switchable SC adapter
Accessories	
Ordering number	Description
2155/00.32	Switchable ST adapter
2155/00.06	Switchable SC adapter
2155/00.05	Switchable FC adapter
2150/00.07	Switchable LC adapter
2229/90.21	OCC-10 Optical Connector Cleaning Kit
2237/90.02	NiMH cells, Mignon/AA, 1.2 V (4 required per instrument)
2277/90.01	SNT-121A Worldwide compatible AC adapter
K804	USB connection cable
2277/90.02	MT-1S belt bag for one instrument
2126/03	MT-2S belt bag for two instruments
2126/04	MT-3S belt bag for two instruments



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