

Nano OSA Modules (4100 Series)

OSA-4100 Optical Spectrum Analyzer Module and
OCV-4100 Optical Channel Verifier Module for
T-BERD/MTS-2000 V2, -4000 V2, -5800, CellAdvisor 5G
and OneAdvisor 800, OneAdvisor 1000 Platforms

As CWDM and DWDM technology adoption for broadband services continue to grow in Access Networks, technicians require comprehensive and lightweight xWDM test tools. VIAVI OSA-4100 Optical Spectrum Analyzer and OCV-4100 Optical Channel Verifier module are designed to speed up deployment, maintenance and trouble shooting of passive and active CWDM and DWDM fiber networks. The module's optical performance, combined with the platform's suite of testing features, ensures that comprehensive testing is performed right - the first time.

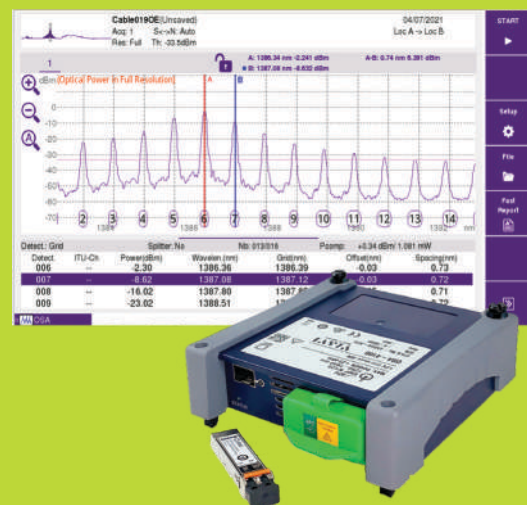
OCV-4100 scans any optical CWDM or DWDM system over the full wavelength range and automatically records all channels with the ITU-T channel (ch) number, wavelength or frequency, offset and the related power level.

OSA-4100 provides an addition measurement of the optical signal to noise ratio (OSNR) per channel to qualify amplified links.

An integrated SFP/SFP+ slot can drive fixed or tunable pluggables to validate or program transceivers in the field to activate links faster and improve first time turn-up rate.

FEATURES AND BENEFITS

- Turn up and verify any new WDM service with confidence (CWDM, DWDM, MWDM, LWDM).
- Field ready, light, compact and robust.
- Measures ch-power, wavelength, offset and OSNR
- Drift test application for ch-power and ch-wavelength
- High input power range for testing CATV signals
- SFP/SFP+ slot for fixed or tunable transceivers



Optical Specifications (typical at 23°C ±5°C)

Modes	
Operating modes	WDM, OO-OSNR ¹ , Drift ²
Display modes	Graph (trace + overview) WDM table and graph + table
Measurement parameters	Ch- #, Ch-power, Ch-wavelength, Ch-OSNR ¹ , Ch-offset, Drift ²
SFP functions ³	SFP info (type, Ch-#, tuning range) SFP tuning and programming
Spectral Measurement Ranges	
Wavelength range	1260 nm to 1650 nm
Wavelength uncertainty ^{4,6}	±0.150 nm (±18.75 GHz)
Wavelength reference	Internal
Readout resolution	0.01 nm
Res. bandwidth (FWHM ⁴)	0.1 nm
Channel spacing ⁵	37.5 GHz to 200 GHz, CWDM
Number of channels	Max 256
Power Measurement Ranges	
Dynamic range	–55 to to +23 dBm (per channel)
Total safe power	+25 dBm
Noise floor RMS	–60 dBm
Absolute accuracy ⁴	±0.8 dB
Readout resolution	0.01 dB
Scanning time	< 5 s (full band)
Optical Measurements	
Optical Rejection Ratio (ORR) ⁷	
– at 0.2nm (25GHz)	25dB
– at 0.4nm (50GHz)	30dB
OSNR measurement range	up to 25dB
In-Band OSNR measurements	up to 30dB with On/Off OSNR
Optical Port	
Input port	SM/APC and SM/PC
Switchable optical adapters	SC mounted (FC, LC and ST on request)
Optical return loss	> 35 dB
SFP/SFP+ Bay	
Can host one SFP/SFP+ transceivers or one tunable laser (not included)	
General	
Weight	0.45 kg (1 lb)
Dimensions (W X H X D)	128 x 134 x 40 mm (5.04 x 5.28 x 1.57 in)
Temperature	
Operation	+5 to +40°C (41 to 104°F)
Storage	–20 to +60°C (–4 to 140°F)

Ordering Information

Modules	Part Number
OCV-4100 Optical Channel Verifier APC	41OCV-APC
OCV-4100 Optical Channel Verifier PC	41OCV-PC
OSA-4100 Optical Spectrum Analyzer APC	41OSA-APC
OSA-4100 Optical Spectrum Analyzer PC	41OSA-PC
SW-Options	Part Number
When ordered together with mainframe	
OCV Drift SW Option (for OCV-4100)	41DRIFT
OCV OSNR SW Option (for OCV-4100)	41OSNR
SFP SW Option	41SFP
When ordered as an upgrade, without mainframe	
OCV Drift SW Option (for OCV-4100)	41DRIFT-UPG
OCV OSNR SW Option (for OCV-4100)	41OSNR-UPG
SFP SW Option	41SFP-UPG
Accessories: Adapters	Part Number
Switchable ST adapter	2155/00.32
Switchable FC adapter	2155/00.05
Switchable SC adapter	2155/00.06
Switchable LC adapter	2155/00.07



Quality Testing

Our products undergo rigorous quality testing before shipment to ensure their excellence.



Packaging

We meticulously package our products to guarantee they arrive at their destination in pristine condition.



Transport

We prioritize swift transportation, minimizing your waiting time to receive your order promptly.



Delivery

Our delivery service is designed to bring the products you've ordered directly to your doorstep, tailored to your specific preferences.



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Please note that product specifications, size, and shape are subject to change without prior notice. As a result, the actual appearance of the product may vary from what is shown in the picture. However, we take pride in our ability to customize products to meet unique specifications, ensuring utmost customer satisfaction.
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