Hunter OCT-8 Tester

Hunter OCT-8 BOB comprehensive test instrument is specifically designed for the calibration and verification PON interface of EPON/GPON/XGPON/XGSPON/FTTR . and provides 8 independent BOB test optical paths in a compact 1U standard chassis. and enables the connection, switching, and power monitoring between the ONU and all instruments. and greatly simplifying the BOB test optical path connections and saving space. It offers high testing efficiency, good precision, simple operation, and excellent cost performance ratio.

Key Features

- Support testing EPON/GPON/XGPON/XGSPON/FTTR
- Support connection, switching, and power monitoring between ONUs, OLT, BERT, ERM, and eye pattern instrument
- Support up to 16 DUTs, allowing for parallel testing 8 DUTs with 8 DUTs for waiting, or 16 parallel verifications
- Support power monitoring in the upstream direction for 8 channels
- Support attenuation adjustment and output power monitoring in the downstream direction for 8 channels
- Support extinction ratio optical path with in the upstream direction, connected to an ERM for 8 channels
- Support business testing in the upstream direction for 8 channels, with connections to BERT or OLT
- Support 8-to-1 eye pattern testing in the upstream direction, allowing for comprehensive analysis
- Provide a graphical configuration and calibration tool, with control commands for programmable testing
- Support integration with MES and automatic upload testing log

Specifications

Hardware and electrical characteristics	
Dimensions(W*H*D)	56mm × 440mm × 435mm
Weight	≈ 5KG
Power supply	220V AC
Power consumption	15W
Management interface	USB or RJ45
Operating temperature	20~35° C
Storage temperature	0~45° C
Humidity	15%~85%
Flange type	FC UPC,33PCS

Hunter OCT-8A Optical metrics	
Channels	8
Insertion loss(upstream)	BOB-EXT: <8dB BOB-DSA: <7dB BOB-OLT: 15~20dB
Insertion loss(downstream)	OLT-BOB: <4dB
Optical isolation	60dB
VOA Spec	Wave length: 1310/1490/1550nm Loss Range: 0~40dB (excluding inherent insertion loss) Loss Resolution: 0.01dB Loss Accuracy: 0.2dB Repeatability: 0.1dB
OPM spec	Wave Length: 1270/1310/1490/1550/1577 Power Range: 10~-50dBm Linearity: 0.1dB(10~-30dBm); 0.2dB(-30~-50dBm) Total Uncertainty: 0.5dB
Hunter OCT-8B Optical metrics	
Channels	16
Insertion loss(upstream)	BOB-EXT: <8dB BOB-DSA: <7dB BOB-OLT: 15~20dB
Insertion loss(downstream)	OLT-BOB: <4dB
Optical isolation	60dB
VOA Spec	Wave Length: 1310/1490/1550nm Power Range: 0~40dB (excluding inherent insertion loss) Loss Resolution: 0.01dB Loss Accuracy: 0.2dB Repeatability: 0.1dB
OPM spec	Wave Length: 1270/1310/1490/1550/1577 Power Range: 10~-50dBm Linearity: 0.1dB(10~-30dBm);0.2dB(-30~-50dBm) Total Uncertainty: 0.5dB
Hunter OCT-8A+ Optical metrics	
Channels	8, compatible with ONU, FTTR testing
Insertion loss(upstream)	BOB-EXT: <10dB BOB-DSA: <5dB BOB-BERT 15~20dB
Insertion loss(downstream)	BERT-BOB: <4dB
Optical isolation	60dB
VOA Spec	Wave Length: 1310/1490/1550nm Loss Range: 0~40dB (excluding inherent insertion loss) Loss Resolution: 0.01dB Loss Accuracy: 0.2dB Repeatability: 0.1dB
OPM spec	Wave Length: 1270/1310/1490/1550/1577 Power Range: 10~-50dBm Linearity: 0.1dB(10~-30dBm);0.2dB(-30~-50dBm) Total Uncertainty: 0.5dB
Software Platform	
Test software	HunterATE-BOB
Language	Simplified Chinese, English

Note: The accuracy of the power monitoring of refers to the accuracy of the entire test system after calibration with a standard power meter.