

OTM-20

The Harris® OTM-20 series are integrated testers for fiber optic networks provides convenient, handheld, intelligent testing. Boasting a large memory capacity, the OTM-20 can transfer the testing data to a PC by associated software for analyzing, reporting and printing. Its multifunctional kitbag enables field use and laboratory testing.

The OTM-20 models combine Laser Source and Optical Power Meters, and are ideal for both single-mode and multimode fiber checkouts. Besides conducting absolute and relative power value measurements, the OTM-20 also activates a self-testing system to measure optical loss of optic fiber cable and passive devices, making it perfect for field installation, routine inspection and maintenance of Optic Telecom and CATV as well as for lab testing and research work.

Features

- Supports quick test, intelligent operation
- Graphic interface, large easy-to-read LCD display
- Measurement units in dB, dBm and W (or mW)
- Large memory capacity (4000 measurements)
- Supports auto test of optic fiber loss
- Draw changing curve of power value
- Support the optical power alarm function
- Automatical data storage
- Moisture-, dust- and shock-proof design, ideal for field operation
- Interchangeable fiber-optic adapters (choice of FC, SC, or ST)
- RS-232 data upload port PC software for data analyzing, graphic drawing and reporting
- Low-battery indicator and auto-recharging display
- Powered by battery or AC adapter
- Auto-off function conserving battery life
- CE, FCC, FDA certificate



OTM Standard Configuration

- Instrument (including rechargeable battery)
- OTM data analysis software disk
- Data transfer cable (RS232)
- AC Adapter
- Rubber Boot
- Compact carrying soft bag
- Warranty card
- CE, FCC certificate
- Certificate of calibration
- User's manual

Specifications — OTM-20A/OTM-20C

Model	OTM-20A / OTM-20C
Detector Type	InGaAs
Measurement Range (dBm) ¹	-70 ~ +10 / -50 ~ +27
Calibrated Wavelength (nm)	850, 1300, 1310, 1550 / 980, 1310, 1480, 1550
Accuracy (25°C and -10dBm)	±0.25 dB (5%)
Resolution (dB)	0.001
Laser Source Module	
Emitter Type	FP-LD
Wavelength (±20nm)	1310/1550
Output Power (dBm)	≥ -7
Spectral Width (nm)	≤ 5
Stability	± 0.05 dB/15 min ±0.10 dB/8hr@1310/1550 nm; ±0.15 dB/8hr@850/1300nm
Modulation Frequencies (Hz)	270, 1K, 2K Optional
Connector Type	FC/PC (Interchangeable SC, ST)
General Specifications	
Data Storage	1000 measurements per wavelength totaled 4000 measurements
Data Transmission	RS232
Power Supply	NIMH rechargeable battery / AC adapter
Battery Life	Support ≥ 80 hrs for only OPM operation / ≥ 35 hrs for OPM and OLS together on one charge
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Relative Humidity	0 to 95% (non-condensing)
Weight	1.3 lbs (0.6 kg)
Dimension	7.7 x 3.9 x 1.7 inch (196 x 100 x 44mm)

Note: ¹For 850 nm, the lower limit of the measurement range is -60dBm.