



# ParaScope PON

---

*Advanced Test Set for GPON/EPON Networks*

---



## *Main Features*

- Designed for GPON/EPON Network construction and maintenance connected between OLT and ONT;
- Tests three wavelengths of GPON/EPON simultaneously: 1490nm, 1550nm and 1310nm;
- Tests burst mode signal of 1310nm wavelength upstream;
- Supports 10 user-defined presets of pass/fail thresholds for each wavelength;
- Large color LEDs indicate when one of the pass/fail thresholds is exceeded;
- Uploads data to PC via USB port to Management software;
- Calibrates wavelengths through Management software;
- Stores up to 1000 records;
- Real-time clock display;
- Auto-shut off.

Frederick Engineering, Inc.  
832 Oregon Avenue, Suite M  
Linthicum, MD 21090



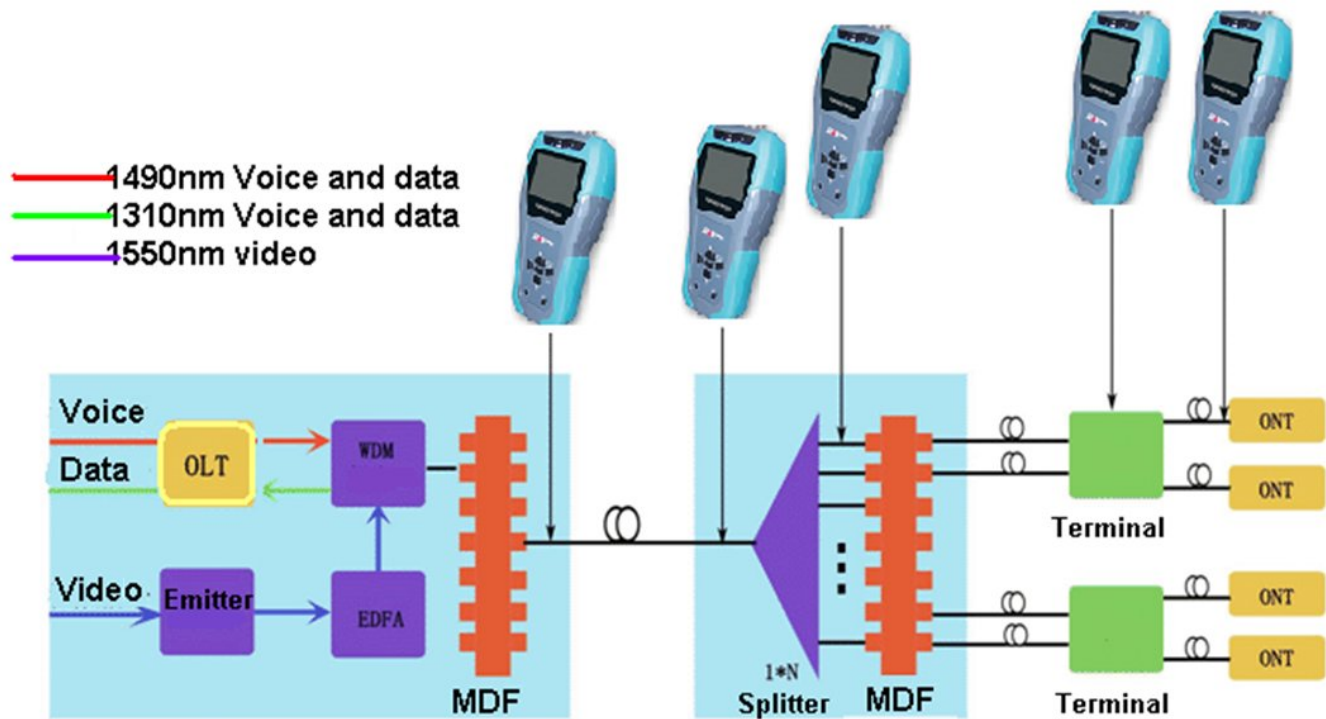
Phone: 410-789-7890  
Fax: 410-789-7670  
e-Mail: fe@fetest.com

[www.fetest.com](http://www.fetest.com)



## Applications

- Telecom optical installations
- PON installations
- Fiber optics installation and maintenance
- Optical network commissioning
- Fiber transmission quality assessment



Frederick Engineering, Inc.  
832 Oregon Avenue, Suite M  
Linthicum, MD 21090



Phone: 410-789-7890  
Fax: 410-789-7670  
e-Mail: fe@fetest.com

[www.fetest.com](http://www.fetest.com)

## *Specifications*

Item	ParaScope PON Power Meter		
Standard wavelength	1310 (Up)	1490 (Down)	1550 (Down)
Pass Zone ( nm )	1260 -1360	1470 -1505	1535 -1570
Range ( dBm )	-40 to +10	-40 to +10	-40 to +20
Isolation@1310nm ( dB )		> 40	> 40
Isolation@1490nm ( dB )	> 40		> 30
Isolation@1550nm ( dB )	> 40	> 40	
Accuracy			
Uncertainty ( dB )	± 0.5		
Polarization relevant loss ( dB )	< ±0.25		
Linearity ( dB )	± 0.1		
Through Insertion loss ( dB )	< 1.5		
Resolution	0.01dB		
Unit	dBm/xW		
Pass/Fail Threshold	LED Indications		
Pass/fail@1310 nm ( dB )	Green: pass; Red: fail; Blue: warning		
Pass/fail@1490nm ( dB )	Green: pass; Red: fail; Blue: warning		
Pass/fail@1550 nm ( dB )	Green: pass; Red: fail; Blue: warning		
General			
Display	128 x 64		
Battery	7.4V 2800mAH Rechargeable Li battery; continuous operation for 120 hours		
Work temperature	-10 to 60		
Storage temperature	-25 to 70		
Dimensions ( mm/in )	179 x 93 x 48 /		

Frederick Engineering, Inc.  
832 Oregon Avenue, Suite M  
Linthicum, MD 21090



Phone: 410-789-7890  
Fax: 410-789-7670  
e-Mail: fe@fetest.com

[www.fetest.com](http://www.fetest.com)