

## Insertion Loss and Return Loss Tester with color screen

Model No. TS- IR3500



### 1. Outlines

Desktop Insertion Return Loss Tester with color screen has stable and reliable performance, which integrates stable light source, high-precision power meter, insertion loss meter and return loss meter into one multifunction instrument. Based on customers' requirements, R&D team combined advantages of same type instrument within overseas and then developed the high-precision tester by several years' unremitting effort. With high cost effective and state of art characteristics, it can be widely used for OEM device verification, research institutions R&D and construction maintenance in optical fiber/passive devices/optical communication system industries where demand plug loss, return loss and stability measurements.

### Advantages:

- Advanced OS  
Multiple display, easy handling, fast response and stability。
- High precision  
Stable output power/high detection speed/wide measurement range。
- Wavelength synchronous switching。
- Light source and power meter achieve wavelength synchronous switching under insertion/return loss mode。
- Multiple working modes  
Return loss mode/insertion loss mode/power meter/dual-wavelength testing。
- Color recognition for test result  
Different colors correspond different test results. Pass/Fail is available by just a glance.
- Easy handling  
Return loss/insertion loss are synchronously measured. No buttons switching。
- Rich display interfaces  
High definition LCD plus multi-level test interfaces bring rich visual experience and easing visual fatigue。
- Perfect outward design  
Electro-magnetic proofing by metal covering. Durable buttons bring comfortable finger handling experience。
- Smart removable interfaces of light source and power meter  
Easy to be disassembled to clean optical detector or replace with others adapters(FC/SC/ST/2.5mm)

general/1.25mm general/MT-RJ) or clean inside APC adapter. Note only need to rotate light source/power meter interface to disassemble it.

- Clock display  
Time is available to reasonably organize work。
- Communication interfaces  
The tester can connect to computer and transmit test data to it. Specialized program give Pass/Fail result of jumper. Test data is available for analysis, readout and record。

## 2. Technical parameters

<b>Model</b>	Insertion and return loss tester
<b>Light source wavelength</b>	SM : 1310/1550nm (option for MM : 850nm)
<b>Optical return loss test</b>	
<b>Wavelength</b>	1310/1550nm
<b>Measurement range</b>	0~75dB
<b>Calibration wavelength</b>	1310/1550nm
<b>Measurement tolerance</b>	±0.4dB
<b>Output stability</b>	0.02dB /hour ( @25 <sup>0</sup> C)
<b>Interface types</b>	SM: 1310/1550nm FC/APC (option for MM:850nm FC/UPC)
<b>Optical insertion loss test</b>	
<b>Calibration wavelength</b>	850/980/1300/1310/1490/1550/1625nm
<b>Measurement range</b>	+3~-80dBm
<b>Measurement tolerance</b>	±0.03dB
<b>Display resolution</b>	Logarithmic: 0.01dB; linear: 0.001nW/μW/mW
<b>Test mode</b>	Linear and non-linear
<b>Interface types</b>	Removable: FC/SC/ST/generalΦ2.5mm/ generalΦ1.25mm adapters
<b>Screen</b>	Color LCD
<b>Resolution</b>	320*240
<b>Communication interface</b>	USB
<b>Power supply</b>	AC 90-260V
<b>Work environment</b>	temperature : -5 <sup>0</sup> C~+55 <sup>0</sup> C ;humidity<95%RH No condensation
<b>Storage environment</b>	temperature : -20 <sup>0</sup> C~+70 <sup>0</sup> C ;humidity<85%RH No condensation
<b>Dimensions</b>	265X265X140mm
<b>Weight</b>	3.5kg