

## TR300 Optical Time Domain Reflectometer



### TR300 handheld OTDR is mainly used for the following tests:

- Determine fiber optic cable or fiber optic's failure point, connection point, breakpoint position
- Describe fiber optic cable or fiber's loss distribution curve, measure cable, fiber's length and the loss, attenuation coefficient between two points
- Measure fiber optic cable, optical fiber connectors' insertion loss
- Measure fiber optic cable, optical fiber's reflection loss;

### Technical Specifications

<b>Model</b>	<b>TR300</b>		
Dynamic (1)	26/24dB		
Wavelength (± 20 nm)	1310/1550		
Display	3.5' TFT LCD touch screen		
Light source type	LD		
Optical interface	FC/UPC		
Distance range (km)	0.3、1、5、10、30、60		
Pulse width (ns)	5、10、20、40、80、160、320、640、1280、2560、5120、10240、20480、Auto		
Measurement duration	15s、30s、1min、2min、3min		
Attenuation dead zone (2)	15m		
Event dead zone	3m		
Distance measurement precision	$\pm(1\text{ m} + 5 \times 10^{-5} \times \text{Distance} + \text{Sampling interval})$		
Data storage	> 60000 test traces		
Communication interface	USB		



50 Charl Cilliers Avenue | Alberton North | 1456  
Reg No: 1985/001887-07 | VAT: 448 012 6319  
PO Box 136873 | Alberton North | 1456  
Tel: +27 11 869 3925/6/7 | [www.age.co.za](http://www.age.co.za)



Directors: DJ Badenhorst | MA Powell | NL Jackson | RP Dreyer

**Note:**

1) Technical specifications describe the guaranteed performance of the OTDR when a typical UPC connector is used for measurement. The uncertainty caused by the reflection ratio of the optical fiber is not considered.

The dynamic range of **TR300 is measured when the measuring range is 60km**, the pulse width is 2560ns, and the average time is 3 min.

2) Dead zone measurement conditions: The reflection event occurs within 4 km. The reflection strength is smaller than -45dB. The minimum pulse width is used.