

Fiber Optic Talk Sets

Multimode Singlemode



Description

HOOTS stands for High Output Optical Talk Set. HOOTS Series fiber optic talk sets use our light source technology to convert your voice into optical signals and provide full-duplex communications using a pair of terminated optical fibers. These talk sets are a reliable alternative to wireless communications systems used within a premise environment due to their electromagnetic immunity. We designed the HOOTS Series to be economical in order to be sold as an alternative to walkie-talkies. Optionally, they can be embedded as a permanent part of a fiber network installation. Use them during the installation for end-to-end voice communications, then after installation leave them attached to a spare pair of optical fibers inside the fiber patch panel. This way, the HOOTS can be used by Information Technology (I.T.) personnel for communications whenever operations or management functions need to be done in the fiber cable closet. There are several advantages to using a fiber talk set versus walkie talkies. The first advantage is when I.T. personnel are setting up voice or data optical equipment, they may give away passwords and secret net addresses over un-secure walkie-talkie channels to a nearby neighborhood of listening ears! The second advantage is that everyone is buying these cheap walkie-talkies from the local discount stores. It's getting much more difficult to find free channels over the air waves. The third advantage is the noise and walls in many plants inhibit radio transmissions. Fiber communications is more secure and most of all, immune to the effects of EMI/RFI. Four models are available: HOOTS 850 and HOOTS 1300 for communicating over multimode fibers, and Laser HOOTS 1310 and Laser HOOTS 1550 for singlemode fibers. Each set comes with a pair of headsets and headset adapters, hard-shell carrying case, protective rubber boots, carrying straps, 9-volt batteries, NIST-traceable certificate of calibration, and CD-ROM with operations manual.

Specifications

Center Wavelength	
850	850 +30 / -10 nm
1300	1300 ± 50 nm
1310	1310 ± 20 nm
1550	1550 ± 30 nm
Spectral Width	
850	50 nm
1300	180 nm
1310	2 nm
1550	2 nm
Output Power	
multimode	-20.0 dBm (LED)
singlemode	-10.0 dBm (FP laser)
Receiver Dynamic Range	-20 to -40 dBm
Initial Accuracy	± 0.10 dB
Dimensions	4.94" x 2.75" x 1.28"
To calculate talkset distance:	D = R / A
where:	D = talkset distance R = dynamic range (HOOTS = 20 dB) A = typical fiber attenuation at specified λ

Example (λ = 1300nm, R = 20 dB, A = 1.0 dB/km):
D = 20 dB / (1.0 dB/km) = 20 km

Ordering Info

HO-850	HOOTS 850 multimode talk set (850nm; LED; ST connectors)	490.00
HO-1300	HOOTS 1300 multimode talk set (1300nm; LED; ST connectors)	900.00
LH-1310	Laser HOOTS 1310 singlemode talk set (1310nm; Laser; ST connectors)	1490.00
LH-1550	Laser HOOTS 1550 singlemode talk set (1550nm; Laser; ST connectors)	1850.00