

# HOOTS Product Family Overview

SKU: HO-850 / HO-1300

Multimode Talk Set / Light Source

## Features

- Offers secure communications that is immune to electromagnetic interference
- Automatic volume control
- Wide receiver dynamic range -20 to -40 dBm
- Doubles as a stable, temperature compensated 850 or 1300nm LED multimode light source with -20.0 dBm output power
- Long battery life (>20 hours)
- Low battery indicator
- Signal level indicator
- Headphone jack doubles as the power switch

To calculate talkset distance:  $D = R / A$

where: D = talkset distance  
R = dynamic range (HOOTS = 20 dB)  
A = typical fiber attenuation at specified  $\lambda$

**Example ( $\lambda = 1300\text{nm}$ ,  $R = 20\text{ dB}$ ,  $A = 1.0\text{ dB/km}$ ):**  
 $D = 20\text{ dB} / (1.0\text{ dB/km}) = 20\text{ km}$

## Key Specifications

Receiver Dynamic Range	-20 to -40 dBm
Source Power	-20 dBm into multimode
Initial Accuracy	+/- .10dB @ 25 C
NIST traceable calibrated wavelengths	850nm or 1300nm
Center Wavelength	850nm +/- 20nm or 1300nm +50/-10nm
Spectral Width	35nm @ 850nm or 170nm @ 1300nm
Dimensions	4.94 x 2.75 x 1.28 in

Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.



## Applications

HOOTS stands for High Output Optical Talk Set. This LED based talk set also serves as a calibrated -20 dBm light source. It uses our LED light source technology to convert your voice into optical signals. The HOOTS is a reliable alternative to wireless communications systems used within a premise environment due to its electromagnetic immunity.

We designed the HOOTS 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 it during the installation for end-to-end voice communications. After installation leave it attached to a pair of dark fibers inside the fiber patch panel. This way, the HOOTS can be used by Information Technology (I.T.) personnel for talking over any time 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 drown out radio signals. Fiber communications is more secure and most of all, immune to the effects of EMI/RFI.

With all this in mind you can see why one would prefer to use and embed HOOTS for clients on spare or otherwise dark fibers. Call today to see what potential applications the HOOTS can have for your voice and data fiber networks.



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