

### PRODUCT OVERVIEW

The VOICE LINK™ series of optical talk sets were designed to provide the test technician with a quick and simple voice communication link over a single strand of single mode or multi mode fiber. These talk sets allow communication while testing or troubleshooting when conventional phone access is not possible or when radios and cellular phones are prohibited or otherwise not an option.



PX-G101



### FEATURES

- Made in the USA
- Full 3 year warranty
- Speaker microphone or Headset operation
- Rugged aluminum construction
- Low battery / Tx / Rx indication
- Standard 9V battery operation
- Waterproof carry case(s)

### APPLICATIONS

Applications for the VOICE LINK™ series of optical talk sets are centered around situations where land line, cellular, or radio communications are not possible. Such areas include:

- Small communication closets
- Subterranean areas such as manholes and basements.
- RF shielded rooms
- Electrically noisy / high voltage rooms
- Areas where RF emission is prohibited
- New installation sites
- Remote splice or service panel sites

## SPECIFICATIONS

Parameter	Value
Emitter	Laser, FP, Class 1
Wavelength	1310nm
Bandwidth	5nm
Power	<-1dBm
Dynamic range	30dB (SMF), 12dB(62.5/125 MMF)
Port	ST style
Detector	InGaAs
Operating Temperature	-5C to 50C
Storage Temperature	-10C to 60C
Battery	9V Alkaline
Battery Life	30hr standby, 12hr headset, 8hr handset volume variable performance.
Battery Life	24hr standby, 10hr typical usage

## ORDERING INFORMATION

Model	Description
PX-G101	Voice link™ Talk set Kit (contains two pods with speaker microphone handsets, two mini carry cases)
PX-G103	Voice link™ Talk set Kit (contains two pods with VOX headsets, one carry case for both pods)

Optional ports add the following suffix:

-FC For FC output port.

-SC For SC style output port

## ENHANCED PRODUCT OVERVIEW

VOICE LINK™ talk sets allow point to point communications in a manner similar to using tin cans and a string. The two talk set pods are connected to either end of a given fiber and the users simply speak into a headset microphone (PX-G103) or push a button and speak into a speaker microphone handset (PX-G101).

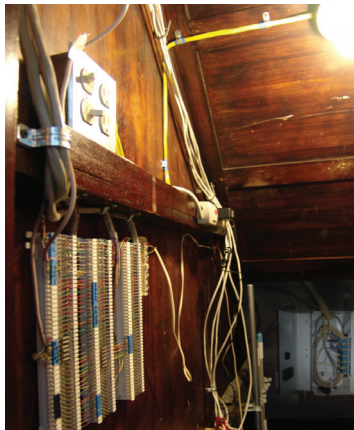
VOICE LINK™ talk sets are professional grade tools and designed to be rugged. As with all Photonix test instruments, these talk sets are constructed within a single piece aluminum extrusion with high impact bumpers. In fact, this talk set can uniquely tough enough to survive being driven over by an automobile.

Many fine details were incorporated in the design of this product. The 9V alkaline battery is cartridge loaded into the bottom of the unit thereby eliminating awkward and failure prone battery snaps. The control knob is rubber molded for ease of use. Belt and Shirt clips are built in to keep the hands free when working. The instruction manual is pocket sized and laminated to make it not only convenient but tear and water resistant as well. The audio driver is powerful enough to allow the PTT version (PX-G101) to be heard well over 50' away. The units not only provide a typical 30dB dynamic range with 9/125 Single mode fiber, but also function over a 12dB range with multi mode fibers.



## ENHANCED APPLICATIONS OVERVIEW

### Small communication closets, new installation sites and remote splice / service panel sites



When servicing or installing optical fiber cables, technicians can find themselves in surroundings where standard telephone access is not available. Often times, such areas are not easy to leave and enter once work has begun and it would be convenient to use dark fibers at hand for an ad-hoc communication link. Voice link™ talk sets can be connected to fibers which have been terminated or un-terminated fibers using a bare fiber adapter.



## ENHANCED APPLICATIONS OVERVIEW

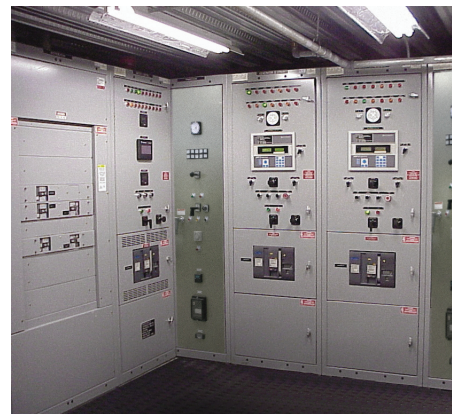
### Subterranean areas such as manholes and basements and RF shielded rooms



In some areas, lack of a land line telephone link isn't the only impediment to communication between technicians. In subterranean areas such as manholes and basements and in RF shielded rooms, radio and cellular telephone communication is also restricted because of shielding. A fiber optic talk set is often the only solution when a channel of communication is required.

### Electrically noisy / high voltage rooms

Electrically noisy environments and power facilities often require communication over a dielectric medium such as fiber for clarity or safety. Generators, high power motor control systems, and scientific equipment can create an environment where a fiber talk set could be of use.



### Areas where RF emission is prohibited



In some environments, the use of RF transmitting communication equipment is prohibited. Secure facilities and military applications are often highly restrictive when it comes to communications equipment. The Voice link™ series of optical talk sets are highly shielded and radiate almost untraceable energy levels.