

KI 025 Series

Handheld Optical Talk Set

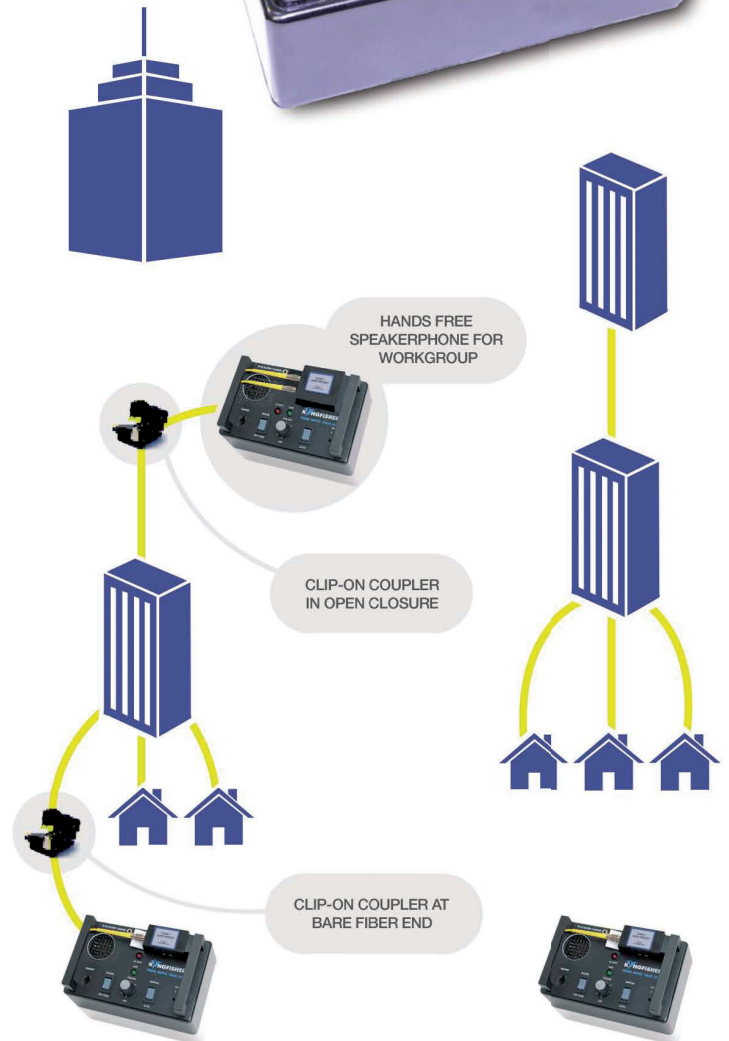
A fiber optic talk set is used during fiber cable installation, commissioning & repair, when other communications systems are inconvenient or not available. A pair of KI 025DD Optical Talk Sets provide convenient full duplex voice communication over a single optical fiber.

Optical Communications Applications

- Temporary optical voice link / order wire set.
- Cable installation and testing.
- Transmission system set-up.
- Restoration.
- Fiber identification source.

Features

- Field proven reliability.
 - Full duplex over one fiber.
 - Interchangeable optical connector.
 - Hands free speakerphone or headset operation.
 - 250 Km typical distance range.
 - Conferencing with 1 instrument per site.
 - No matched pair requirement.
 - Multiple units per fiber span.
 - Long battery life.
 - Call buzzer.
 - Clip-on probe available.
 - 3 ~ 7 year warranty.
- The Kingfisher KI025DD talk set is used during installation and maintenance of fiber optic transmission systems. It provides superb performance and convenience and is used during installation and maintenance of fiber optic transmission systems.
 - A talk set is typically used where alternative communications may be impossible, unreliable, inconvenient or expensive. They typically save time and help make field operations more efficient and predictable.
 - This talk set can be easily used by semi-skilled staff, and the hands free speakerphone facility enables easy group discussions. Interchangeable connectors adapt to changing job sites.
 - A buzzer function alerts staff if needed, and an optical test tone can be used with fiber identifiers and tone detectors.
 - The single model is suitable for all general singlemode and multimode applications.
 - It has up to 250 Km range, and incorporates a conferencing feature which only requires one instrument at each work site, so 3 or more work sites can be connected by just 3 or more instruments.
 - An alternative conferencing method, is to use the optional clip-on coupler. This uniquely enables multiple talk sets to communicate over a single fiber link. The clip-on coupler can connect to 250u coated fibers with no termination when an optical connector is not fitted. The same coupler can also be used for conferencing at mid-span, with additional talk sets at both ends of the span.
 - The KI025DD Talk Set is very efficient to deploy, since only one instrument per field group enables the full range of functionality. Further, since all units are identical, there will be no matched pair problems.



- Reliable field operation is guaranteed by a unique combination of features such as very simple to operate controls, rugged drop protected construction and reliable analogue transmission.
- High quality voice transmission is maintained over the full optical range, with no operator intervention.
- The hands-free speakerphone is convenient for most users. This automatically changes to headset operation when the headset is plugged in. For extremely noisy situations or intermittent use, a manual transmit mode is available.
- All Kingfisher talk sets are compatible, so current models work with old models, regardless of wavelength.

KI 025 Series

Handheld Optical Talk Set

GENERAL SPECIFICATIONS

Size	190 x 120 x 95 mm (7.4 x 4.7 x 3.7")
Carry case	280 x 330 x 150 mm (11 x 13 x 5.9")
Weight	2.5 Kg (8.2 lb)
Temperature	Operating: -15 to 55 °C / Storage: -40 to 75 °C
Power	Internal rechargeable batteries 10 ~ 20 hrs operation, with low battery indicator 16 hrs re-charge from unregulated charger 9V/200 mA DC, 3.5 mm jack, +ve pin
Optical level	-7 dBm ±1 dB
Optical tone	2 KHz ± 1%, 50% modulation depth, sine wave
Transmission	Analog

OPTICAL RANGE

Model	λ	Min Range SMF dB / Km1	Approx Range MMF dB
KI 025DD50	1550 nm	dB / 250	30 dB

Note 1: The dB range is tested and guaranteed using SMF fiber. The Km range is typical for Corning® SMF-28e™ fiber.

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements. Class 1 Laser product, complies IEC60825-1 and 21CFR1040.10.

ORDERING INFORMATION

Description	P/N
Talk Set with PC connector	KI 025DD
Talk Set with APC connector	KI 025DD-APC

The above P/N is for one instrument. Minimum practical order qty is 2.

STANDARD ACCESSORIES

Description	Quantity
SC metal-free interchangeable connector adaptor	2
FC metal-free interchangeable connector adaptor	2
ST metal-free interchangeable connector adaptor	2
Headset	1
Operation manual	1
Soft carry case, carry strap	1
Emergency power pack	1

Purchaser will need to either specify a mains charger, or purchase locally.

OPTIONAL ACCESSORIES

Description	P/N
Fiber clip-on coupler, 20 ~ 30 dB typ coupling loss2	OPT130
Mains charger, IEC, 90~240V	OPT103
Mains charger, Australian	OPT102

Note 2: The Clip-On coupling loss is 17 dB under ideal conditions, however 20 ~ 30 dB is often achieved under practical conditions.

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

Description	P/N	Description	P/N
E2000/LSH, green	OPT060G	MU	OPT080
E2000/LSH	OPT060	2.5mm Universal	OPT081
LSA / DIN47256	OPT071	SMA 905/906	OPT082
LC / F3000	OPT072		

This instrument is supplied with ceramic optical interchangeable connector adaptors. The ferrule type is fixed and customer specified as either PC or APC. Green is associated with APC. You can order any number of connector adaptors.