

IBF 125

Tactical wireless multi-channel hand-held

- Point to Point Full Duplex Time Division wireless remote access kit
- Simultaneous Audio & Data
- Audio capability:
 - Voice or Local Intercom
- Data capability:
 - Asynchronous
 - Synchronous
 - Remote Control
- 2.45 GHz ISM band
- Operating range up to 800 meters
- Dynamic Channel Selection
- Easy and flexible deployment
- User friendly operation
- Direct connection to VHF PR4G or HF System 3000
- Integrated microphone and earphone
- Low consumption and high autonomy
- Lightweight, compact and rugged
- Waterproof
- Built-in test

PR4G

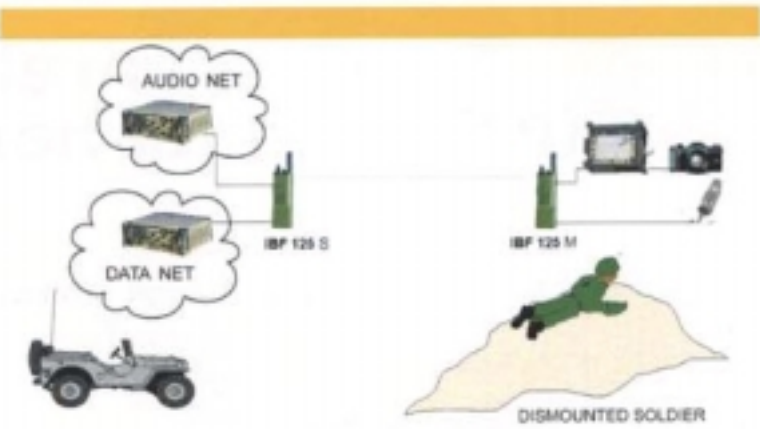
**SYSTEME
3000**



The IBF 125 is a **tactical wireless multi-channel hand-held** system, designed to easily remote the peripherals (i.e. voice handset, data terminal, control unit) usually connected to a main station. An intercom voice feature is available between the removed emplacement and the main site.

• **WIRELESS SYSTEM**

The wireless solution allows the removal without using any cable link, providing quick and flexible



deployment on the field in few seconds.

The IBF125 is designed to be used as hand-held, and can be also mounted on a vehicle or on the ground.

• **MULTI CHANNEL SYSTEM**

Audio and Data services are simultaneously available on different nets, both controlled from a remote operator, by taking advantage of a multi-channel waveform between the two IBF125 radio sets.

• **INTEROPERABILITY**

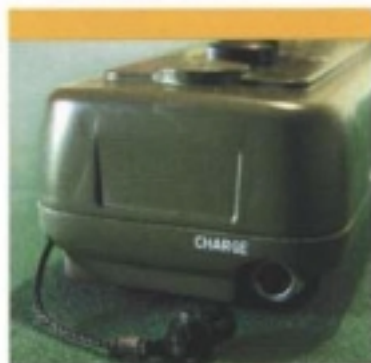
The IBF125 is part of PR4G and System 3000 families; it may be used with any other system requiring to remote audio and data services.

• **FULLY TACTICAL**

The IBF125 is a tactical radio set, compact and lightweight designed for use under severe conditions: moisture, shocks, vibrations, temperature.

• **ADVANCED TECHNOLOGY**

Its high reliability comes from the use of modern and tested technologies, including fast and powerful control microprocessor, FPGA, as well as widespread use of surface mounted components.

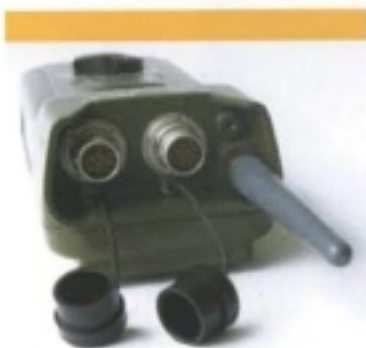


• **EASY OPERATION**

The IBF125 is designed for easy operation, even by an unskilled operator. The IBF125 is automatically ready for use after powered-up. The IBF125 is normally in Stand-By mode, improving autonomy and reducing spectrum pollution. When in traffic mode, the Dynamic Channel Selection feature automatically chooses a free radio channel and the full duplex services are immediately available.

• **AUDIO AND DATA**

The following full duplex services are simultaneously provided both for Audio and Data.



The operator can choose the Audio ser-

vice as Voice and Intercom.

The operator can choose the Data service, for data transmission and/or remote control as:

ADT (two asynchronous data channels, including handshake data controls)

SDT (one synchronous data channel plus one asynchronous data channel, including handshake data controls).



• **IBF125 COMPOSITION**

It is composed of:

- IBF 125S, connected to the main station and externally powered
- IBF 125M, connected to the remoted



peripherals and self-battery powered (125BP or ALI 124 battery pack)

- Antennas

Optional accessories are:

- Carrying Harness
- DC/DC battery charger (outdoor) able to charge up to two battery packs
- AC/DC & DC/DC battery charger (indoor), able to charge up to eight battery packs High gain fixed antenna.

IBF 125

Technical specifications

General characteristics

Frequency band	2402 - 2482 MHz
Channel separation	1 MHz
Modulation	FSK ± 250 KHz
Full Duplex Services	Audio (Voice or Intercom) RS232 Synchronous-Asynchronous Data
Power supply	battery pack: 7 or 14.8 Vdc external: 10.7 - 36 Vdc
Traffic autonomy	≥ 8 hours
Stand-By autonomy	≥ 60 hours
Line of sight range	Up to 800 meters

Transmission characteristics

Nominal Power	+ 18 dBm
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Reception characteristics

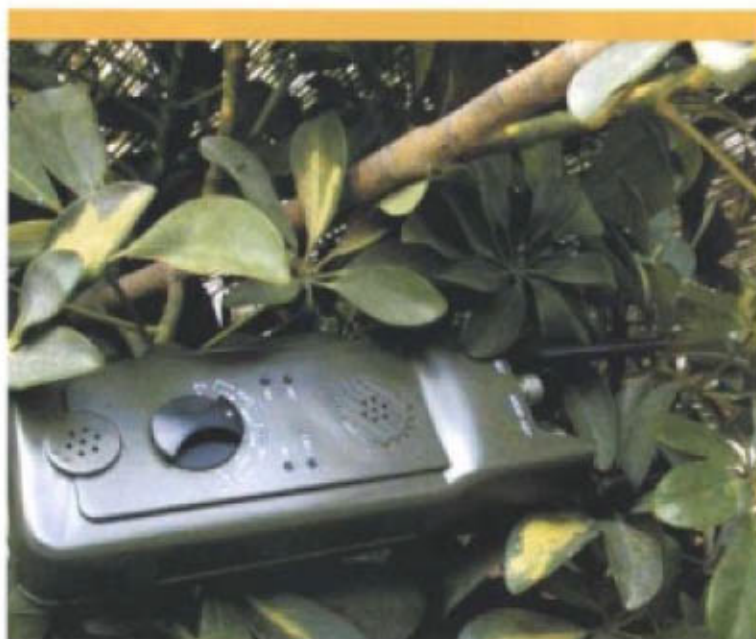
Sensitivity (1E-5 B.E.R.)	- 90 dBm
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Interfaces

Built In	Microphone Earphone PTT button
Connectors	Antenna PR4G 14 pin Audio & Data Charge

Mechanical & environmental characteristics

Weight (with battery pack)	≤ 600 g.
Max Dimensions (exc. antenna)	Width: 70 mm Length: 185 mm Depth: 54 mm
Mechanical characteristics	According to MIL-STD 810E
EMC & EMP characteristics	According to MIL-STD 462D
Temperature range	-20 °C - +60 °C operating -40 °C - +70 °C storage
Relative humidity	95% @ 55 °C
Waterproofing	1 m



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