Britannia2000

Mini TAC-P II

ISTAR Video Downlink Receiver System

Features

- Ruggedised
- Extremely Small and Lightweight
- Sealed to IP67
- Multi Channel Receiver
- Can be Interfaced with a PC via Ethernet
- Powered from Standard Radio Battery or Any 9-36vdc Source

Description

Gaining access to valuable reconnaissance data is critical to mission effectiveness. Today, users such as FAC/TACPs, Infantry and other light weight mobile forces don't have the products necessary to provide them with the information needed for ultimate mission effectiveness.

The Mini TAC-P II is a small hand-held device designed to receive full motion video images, transmitted from targeting pods, UAVs or other surveillance platforms. An auxiliary role is to receive video from ground based, portable surveillance systems where available and display the information on a variety of displays.

The receiver will cover all the radio bands to be expected in theatre and can either be specifically tuned to the available pod frequency, or can be set to automatically scan all frequencies and receive video from any available asset in the vicinity.

The universal connector allows the user to view the images in IP protocol for connection to a small tablet PC via Ethernet or even an IP distribution system (LAN). Utilising other cable options, the user can also choose to view the video on a helmet mounted display (HMD), or any computer with a USB port. When used in conjunction with a PC, the computer controls the operation of the receiver. In the patrol role the frequency is set by simple up/down buttons on the interface cable.

The unit is extremely lightweight, and when used in conjunction with either a small, hand-held tablet PC or HMD, the unit can easily be carried and controlled by ground troops on the move.

The Mini TAC-P II is also supplied with two extremely compact, purpose designed Omni-directional antennas, to optimise reception of video transmitted from an airborne platform

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System Parameters

Options

- Receive any analogue frequency from UHF to Ku Band
- Receive digital video transmission
- PAL or NTSC video
- Different colour finish
- Various battery connections (either hand held or man pack)
- Viewing software, with or without a still image/video record facility

Accessories

- USB interface cable (different lengths available), usually supplied as standard
- IP Protocol (Ethernet) Interface cable (different lengths available), usually supplied as standard
- L/S band antenna, usually supplied as standard
- Wide band antenna
- Antenna cables (different lengths available), usually supplied as standard
- Batteries, usually supplied as standard
- HMD interface cable
- NATO power lead (different lengths available)
- Various battery connection cables (Harris, Thales etc)
- Cigarette lighter power lead (different lengths available), usually supplied as standard
- Vehicle fitting kit with mag-mount antennas
- Head mount display
- Relaxed view monitor
- Test transmitter with built-in camera (various camera options available including Day/Night and Thermal)
- Wrist mounted LCD monitor
- Rugged, sunlight viewable tablet PC
- Rugged, sunlight viewable hand held PC, usually supplied as standard
- Viewing software with graphical user interface, usually supplied as standard

Specifications

C-Band Analogue

4.400 GHz to 5.8020 GHz, 1.0 MHz steps
FM demodulation
NTSC/RS-170 video

L-Band Analogue

1.700 GHz to 1.850 GHz, 1.0 MHz steps
FM demodulation
NTSC/RS-170 video

S-Band Analogue

2.200 GHz to 2.500 GHz, 1.0 MHz steps
FM demodulation
NTSC/RS-170 video

Interfaces

16Way Fischer Connector (Sealed to IP67): Ethernet 10/1000 baseT RS232 data Composite video out (NTSC) 12vdc out (200A max)
Coaxial BNC : RF connector for L/S band antenna
Coaxial SMA: RF connector for C band antenna
3Way Fischer Connector (Sealed to IP67): 9-36VDC Power
PRC-152/MBITR Battery Connector: 9-36VDC Power

Dimensions

165mm x 50mm x 80mm (approximately without the battery)

Weight

< 1kg (approximately without the battery)

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