

COFDM - VIDEO, AUDIO TELEMETRY & IP PRODUCTS

SOLO - DIGITAL WIRELESS VIDEO SYSTEM

SOLO - MINIPIX RECEIVE CASE

The MiniPIX is a briefcase receiver/recorder package for tactical video surveillance operations. Additionally it can be used as a remote video receiver for UAV and UGV applications.

The MiniPIX combines a SOLO Receiver with two diversity down-converters and two antennae into one rapidly deployable briefcase kit. A 13" colour monitor is mounted in the lid. A choice of recording options are available, including the SONY GVD 200 and STING Digital Video Recorder. Power sources include a LiON internal, rechargeable battery; AC operation; and DC operation. All cables are included.

The optional Network Engine IP board provides the MiniPIX with a video streaming capability for network interfacing.

The narrow bandwidth modulation offers unprecedented spectrum efficiency, while also increasing the system sensitivity and, therefore, range.

The MiniPIX has comprehensive on screen display diagnostic capability to show link quality and spectrum and is equipped with video, two voice and data channels. Security of transmission is ensured by the use of optional AES128/256 bit encryption algorithms, subject to export controls.

Features:

- Comprehensive demodulation 8/7/6/2.5MHz (1.25MHz optional)
- Maximum ratio combining antenna diversity for fade and multipath elimination
- Lid mounted antennae
- 13" colour monitor in lid
- AC, DC, internal battery operation
- SONY GVD or Digital Video Recorder
- Lightweight rechargeable LiON batteries
- Comprehensive on screen display (OSD) diagnostics for link analysis, including spectrum analyser
- Internal AES128/256
- Optional IP interface board for IP streaming and network connection.



Specification:

Input	
Dual Diversity Antenna (lid)	TNC
Optional external antennae input	TNC
AC Supply	IEC
12-24V Input	4 Pin Locking
Output	
Video BNC	BNC
Audio 1	XLR
Audio 2	XLR
Data	Dtype
Headphone	Jack Socket
RF	
Frequency Bands	2280 to 2550MHz, 1100 to 1400MHz (others on request)
Tuning Steps	250KHz
Modulation	
DVB-T bandwidth	8/7/6MHz
DVB-T Guard	1/32, 1/16, 1/8, 1/4
DVB-T FEC	1/2, 2/3, 3/4, 5/6
DVB-T Modulation	QPSK, 16QAM, 64QAM
Sensitivity	-95dB plus
SOLO Bandwidth	2.5MHz (1.25MHz optional)
SOLO Guard	1/16, 1/8
SOLO FEC	1/3, 2/3
SOLO Modulation	QPSK, 16QAM
Sensitivity	-95 to -105dB
Video	
Line Standard	PAL/NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG2 (MPEG4 optional)
Delay	43ms to 120ms depending on mode
Frame Rate	Full/Half/Quarter/Eighth (selectable) Physical

Audio	
Output	Line Level
Sample Rate	32KHz, 16KHz, 8KHz
Bits per Sample	12 or 8 bit
Data Interface	
RS232 Data Output	1K2 to 115K2 baud switchable
Encryption	
Format	ABS 32 bit as standard AES128/256 (optional)
Control	
Remote Control	RS232 Control from PC GUI Application
Local Control	Front Panel 4 channel select, OSD on/off, power level, power on/off
On Screen Display	Spectrum, RX SNR, RX Power
Dimension	L 420mm, W 280mm, H 180mm
Weight	Less than 8kg
Power	
AC input	110/240V
DC input	12-24V
Battery Back-up	Lightweight LiON
Environment	
Temperature Range	-10 to +50 deg C

Products are available to security users only, in licensed frequency bands. These products are not approved for use by unlicensed users. Commercial products are available to unlicensed users – please contact us for details.

Product Code: SOLMIP-228255 SOLMIP-110140 (2.5MHz TO MPEG4 1.25MHz UPGRADE ADD SOL4RXUP)

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