

PSRX6-D

Portable Surveillance Receiver



FEATURES

- 6-way maximum ratio combining diversity receiver
- Unmatched adjacent channel performance
- Broadcast quality video
- Ultra bright ten inch direct sunshine display monitor
- Four internal down converters
- Built in speakers and audio jacks
- External video and audio outputs
- Two internal antennas
- Customized versions
- Web GUI

OPTIONS

- AES decryption
- DVR
- 12" display monitor
- External SDI, ASI outputs
- Two external weatherized down-converters with antennas

ACCESSORIES

- High-gain, long-range antennas
- AC/DC battery charger
- 12V car adapter

APPLICATIONS

- Portable and mobile video surveillance monitoring

The RF Extreme PSRX6D is a ruggedized COFDM (DVB-T compliant) 6-way diversity portable receiver/monitor. It offers exceptional RF performance and durability, combined with true ease of operation and superb decoding. The unit displays COFDM video transmissions using a built-in internal 10" or 12" ultra bright daylight readable display. The display features an easy to use menu driven interface designed with the user in mind. The PSRX6D has optional AES decryption capabilities that make it ideal for applications ranging from public security monitoring to covert surveillance.

The unit includes a wide array of video input and output formats, including Composite, ASI and HD-SDI. It consists of four built in block down-converters, two with internal antennas and two for use with high power external directional antennas. It also has two UHF input ports for optional external downconverters, enabling the user to have true 6-way diversity or dual band capabilities. It runs off internal batteries, external +12VDC or AC via an external power supply. All of these features provide an unequalled value in a high quality COFDM receiver/monitor.

The PSRX6D is designed with the user in mind. The receiver has ten programmable channel settings and an easy to use soft key menu. It has an on screen display of the input level, SNR, modulation and spectrum of the incoming signal. External high power directional antennas give the user extended system range and versatility. The unit is housed in a portable light weight self contained case and requires minimal setup to operate making it ideal to use in any location or setting.

The PSRX6D is a critical downlink control point in surveillance applications with its easy to view display, integral audio amplifier with speakers, front panel headphone jack with volume control. Finally, a standard Web GUI allows enhanced control and configuration of the 6 way receiver via your external laptop.

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RF:

Base Model Number	Frequency (GHz)	DC Power (W)
20 PSRX6D-HD	2.00-2.50	48
58 PSRX6D -HD	5.70-6.00	48
64 PSRX6D -HD	6.40-6.70	48
70 PSRX6D -HD	6.70-7.10	48

(Other plans are available per user request.)

Tuning Step Size:	250 kHz step size (others available)
Frequency Stability:	± 10ppm
Sensitivity:	-95dBm @ QPSK -86dbm @ 16 QAM -81dBm @ 64 QAM

Demodulation Modes:

Modes are auto detected within modulation format.

Modulation Formats:	COFDM (DVB-T)
Carriers:	2k
Constellation:	QPSK, 16 QAM, 64 QAM
Code Rate:	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval:	1/32, 1/16, 1/8, 1/4
Bandwidth:	6 MHz, 7 MHz, and 8 MHz
Diversity Channels:	6 input maximum ratio combining

MPEG Decoder:

Video:	
Method:	MPEG-2 4:2:0/4:2:2
Video Format:	1080i, 720p, 480i & 576i
Video Output:	SDI-HD SMPTE-292M Composite (PAL/NTSC)

Audio:

Audio Output:	Digital: 2 x AES3/SDI Embedded or Analog: 2 x Stereo 1 x Stereo Headphone Jack
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Monitor:

Aspect Ratios:	16:9, 4:3
Brightness:	1450 nts
Features:	Picture-in-Picture

System:

ASI Output	Auto output rate follows modulation or fixed output user selectable (PCR realtime stamp)
Decryption (optional):	AES block cipher, supporting key sizes of 32, 128 or 256 bit (FIPS PUB 197)
Remote Control	Ethernet WEB GUI
Local Control	8 button control (soft-programmable)

Power Requirements:

Input Voltage	Internal batteries or External +12 VDC or External 110/220 VAC to DC Supply
Power Consumption:	See table above

Environmental:

Temperature Range:

Full Specification:	-15° to +55°C
Storage:	-40° to +80°C
Humidity:	0 to 95% non-condensing

Altitude:

Operating:	20,000ft (6,000 m)
Storage:	50,000ft (15,000 m)

Physical Characteristics:

Size:	20.5" x 14.1" x 8.9"
Weight:	35 lbs

