



# PRS-(x) Portable Receive Site

## 6-Way Diversity COFDM Video Receive System



### > Applications

- Six-Way Portable Receive Site
- Fixed or Mobile Operation
- Overt/Covert Surveillance
- Airborne Downlink Reception

### > Features

- High performance FFT-MRC Diversity
- Enclosed Six-Way Diversity Antenna
- COFDM DVB-T 2k Standard
- MPEG2 and H.264 Decoding
- 17" Color LCD Monitor
- Simple Cable Connector Panel
- Frequencies from 1.99-6.525 GHz (in bands)
- Streaming IP output
- BTP Decryption Standard

### > Included

- BDC Power Supply
- Ethernet Remote Control

### > Options

- AES 128/256 Decryption
- BISS Decryption

### > System

The Portable Receive Site combines a Diversapod antenna and DR6000 six-way diversity receiver with an integrated shipping/operations case. A 100' connecting cable, BTA-110 tripod and set of shipping cases completes the system.

The six-way, 360 degree antenna affords excellent gain in all directions. An uplook antenna allows reception during flyovers. Easy to use with no calibration or mechanical steering by the operator.

Simple setup with a single cable between antenna and receiver.

### > Receiver

The DR6000 UHF receiver provides many professional features, like; ASI, SDI, HD-SDI, composite and analog/embedded audio and metadata outputs. Auto-detection of H.264 and MPEG-2, GI, FEC, are standard. Optionally the DR6000 can be operated as a repeater with automatic COFDM DVB-T configuration. Each antennas input spectrum can be displayed separately making signal analysis easy.



19" x 4RU Rack Mount Receiver Case showing Connector Panel

System Power Requirement:  
100-250 VAC 50/60 Hz, 150 Watt

Antenna Characteristics	
Antenna Gain/Polarity (Panel)	2 GHz 12 dBi/vertical; 4 GHz 15 dBi/vertical; 6 GHz 15 dBi/vertical
Antenna Gain/Polarity (Up look)	7 dBi/RHC
IF	70-810 MHz
LNA Gain	20 dB
LNA Noise Figure	3 dB or better
Azimuth Beam Width	360° main panel, linear/vertical
Elevation Beam Width (HPBW)	30°
Beamwidth (Up-look)	70° x 70°, RHCP
Filters	Varies by frequency; check with BMS
IF Connector	PTO type disconnect
Cable Length	100' (contact factory for other lengths)
Voltage	16-24 VDC
Power	400 mW per channel
Weight	15 lbs. max.
Radome	Weather proof Fiberglass Polyester Resin
Dimensions	Standard Radome: 18" H by 18" dia.; Low-Profile: 14" H by 18" dia.
Color	White (standard); O.D. Green (consult factory)

Antenna Case	
Dimensions	26.50" x 26.50" x 25.25" (67.3 x 67.3 x 64.1 cm)
Weight (Empty)	41 lbs. (18.6 kg)

Monitor	
Monitor	17" color LCD, 1 RU slide out rack

Tripod	
Dimensions	45" tall x 9" dia. (114.3 x 22.86 cm) folded
Height	76" (193 cm) max. 34" (86.36 cm) min.
Load Capacity	40 lbs. (18.15 kg) max
Weight	17 lbs. (7.71 kg)

Tripod Case	
Dimensions	50" tall x 10" dia. (127 x 25.4 cm)
Weight (Empty)	9 lbs. (4.08 kg)

Receiver Characteristics	
Frequency	70 to 860MHz
Channel Bandwidth	6, 7, or 8 MHz
Diversity Method	Six input, Fast Fourier Transform - Maximal Ratio Combining (FFT-MRC)
Demodulation	COFDM, DVB-T, 2K carriers
H.264 Decoding	SD MP@L40 (4:2:0, 4:2:2) HD MP@L40 (4:2:0, 4:2:2) HD HP@L40 (4:2:2) HI422@ML HI422@HL 4.0
MPEG2 Decoding	•MPEG-2 4:2:0 MP@ML •MPEG-2 4:2:2 422P@ML •MPEG-2 4:2:2 422P@HL
Resolutions	• 1920x1080i (HD) 25/29.97/30/50/59.94/60 fps • 1920x1080p (HD) 25/29.97/30 fps • 1280x720p (HD) 25/29.97/30/50/59.94/60 fps • 576i (PAL) / 480i (NTSC)
Local Control	LCD Touch Panel with spectrum display, C/N bar graph, and video preview
Control/Configuration	RS-232 control and configuration
Power Input	100 to 240 VAC (50 to 60 Hz)
Consumption	< 100 W
Temperature	0 to + 40°C (+32 to +104°F)
Relative Humidity	5 % to 95 %
Dimensions	485 x 400 x 88.9 mm (19" x 15.7" x 2RU)
Weight	5.25kg (11.57 lbs)

Receiver Case	
Dimensions	36.00 X 26.75 X 16.25" Tall 4RU (91.44 x 67.95 x 41.28 cm Tall)
Assembled Weight	<100 lbs. (44 kg) includes caster set

Ordering Information	
PRS-2	2.2-2.4 GHz
PRS-4	4.4-5.0 GHz
PRS-6	6.425-6.525 GHz

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