

COFDM Receiver



High Performance Digital Microwave video and Audio Receiver

COFDM for multipath immunity

MPEG-2 Video

Two audio and one data channel

P,L,S and C—Band Models

User programmable

Integral LNA

Built-in audio monitoring and headphone amplifier

Rugged Packaging

Intuitive operator interface with VFD

The PMR CōDR Series brings a new level of digital performance and reliability to video and audio collection. Available in L, S and C-Bands, the DR-100 provides demodulation of COFM digital video and audio signals. The integral LNA and high-selectivity IF filters guarantee reliable receiver operation in harsh RF environments. A user AES encryption key safeguards against unauthorised intercept.

Receiver parameters are controlled from the front panel user interface. Frequency selection, COFDM mode and encryption key codes are accessible through a front panel push-buttons and an easy to read multi-line VFD. Two balanced audio outputs and one data channel are standard.. Both NTSC and PAL analogue output formats are supported. Built-in speakers and a headphone jack facilitates monitoring. A LAN connection allows extended remote control.

Packaged in a compact and rugged housing the construction lends the PMR CōDR Series to applications more quick set-up with a minimum of external equipment is desired. The PMR CōDR Series receiver includes a universal power supply and may be operated from commercial power or batteries. Front panel connectors include a video output and dedicated A/V outputs for recording. Additional features are contained on a comprehensive rear panel 15 pin connector for quick and easy integration into any system without expensive specialised connectors

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The PMR CōDR Series digital receiver is well suited for video collection applications in surveillance, law enforcement, military UAV, RPV, UGV and MOUT, as well as airborne data/telemetry.

Technical Specifications - PMR—CōDR Series

Frequency range	DR 200P—340—400MHz; DR200L—1.7 to 1.9 GHz DR200S—2.2—2.5 GHz ; DR200C1 -3.1—3.5 GHz DR200C2—4.4—5.0GHz
Frequency tuning	Channelised (1MHz steps)
Frequency stability	± 0.002%
Sensitivity	-95dBm threshold
Compression	MPEG 2 4:2:0
Modulation	COFDM 2K
Video Output Format	NTSC or PAL
Video Delay	Low latency (<50ms)
Video output impedance	75 ohm unbalanced BNC female
Video Output level	1V p/p
Audio	Two channels
Operating temperature	-10 to +55 °C
Humidity	0-95%, non condensing
Operating voltage	10—36 volts DC
Current	850mA @13.8Vdc
PTO-power,	Multipin—audio, data control
Dimensions	4.11 cm Height, 11.4 cm Width, 17.2cm Length
Video Output Connectors	BNC female (2x)
Audio Output—	Multipin Connector
Data Output—	Multipin Connector
Housing	Milled aluminium - 1.8kg
RF input connector	SMA female
Diversity Input Connector	SMA felame
Ethernet Connector	RJ45
Antennas	A complete line of antennas for a variety of applications is available