

Digital RF

COFDM Transmitter



Digital Video COFDM microwave surveillance link
Multipath immunity
MPEG-2 Video
Video, Audio and Data channel
AES Digital Encryption
P,L,S and C- Band Models
Rugged packaging
Multichannel selection
Compact size for Police, Fire, and Military surveillance

The PMR DR200 Digital Video Transmitter is designed to provide a high quality video, audio, and data transmission for Police, Fire and Military personnel in a tactical environment. A range of linear amplifiers are available to extend its range to 5-10 Km The basic DT200 is ideal for front line public and military personnel involved in anti terrorist missions, situation assessment, search and rescue, incident response, and peace time or battle field surveillance. In addition to high quality video the link provides for real time audio or recorded commentary without the need for conventional radios. The data channel may be used for GPS data or outputs from nuclear, biological or chemical sensors.

Available in P,L,S and C-Bands, the DR 200 performs exceptionally well in the non line of site environment allowing personnel to move freely through a threat while providing reliable imagery. Having a total weight of 0.4 Kg the unit may be fitted to a belt or vest or worn covertly. In its tactical role the 150mW linear transmitter only draws 0.75A giving a reasonable battery life, Its range may be boosted using compact 1-5W external amplifiers. The video can be encrypted for security

.Its rugged aluminium housing is engineered for applications where severe environmental conditions are the norm. Frequency selection is via the front panel , other functions are set via a D type interface.

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Technical Specifications DT200 COFDM Transmitter

Frequency range	DT-200P—340—400MHz; DT-200L—1.7 to 1.9 GHz DT-200S—2.2—2.5 GHz ; DT-200C1 -3.1—3.5 GHz DT-200C2—4.4—5.0GHz
Output protection	Ferrite isolator
Modulation	COFDM 2K QPSK
Channels	Up to 10 programmable
Frequency stability	$\pm 0.002\%$
Spurious/Harmonic Output	> -65 dBc
Occupied Bandwidth	8 MHz
Compression	MPEG 2 4:2:0
Video Format	NTSC or PAL
Video Input impedance	75 ohm unbalanced BNC female
Audio	200 Hz—15KHz ± 1.5 dB, 600 ohm balanced input
Power output	150mW nominal, separate 1-5W linear amplifiers available
Spurious output	>-65dBc
Data	RS232 28.4Kb/s
Operating temperature	-10 to +55
Humidity	0-95%, non condensing
Operating voltage	10—36 volts DC
Current	0.75 amps at 13.8v DC
Mechanical	Milled aluminium housing 0.4kg
RF output	SMA female
Control	D connector
Dimensions	13.5 cm long, 8.8cm Width, 2.85cm high
Antennas	A complete line of antennas for a variety of applications is available
Battery	Rechargeable belt mounted battery
Camera	Helmet mounted colour video camera

Digital RF maintains a policy of improvement and reserves the right to modify the specification without notice