



#### THE VITAL CONNECTION



110W Trunk Mount Mobile Radio



# Project 25 Compliant

Government • Military • Public Safety • Business



Aluminum Tray

adjustment and channel selection easy

· Trunk Mount P.A. with separate Control Head containing

system is a high power, feature rich, state-of-the-art mobile radio designed for government, public safety, and business applications. It features a powerful 110 Watt power amplifier and a separate console containing the R/T unit for remote control of the entire radio system. The Guardian is fully digital and meets APCO Project 25 FDMA common air standards for compatibility with other Project 25 radios. Guardian also operates as an analog radio, offering full backward compatibility with conventional wideband FM systems. The one radio is useable with today's analog

The Guardian G25RMV110 VHF P25 trunk mount radio

- wideband radios systems and still compatible with tomorrow's digital narrowband world.
- R/T Unit
- · High Power Remote, 110 Watt, RF Power Amplifier Unit
- Multi-mode analog and digital, wideband and narrowband, up to 4 banks, 16 zones and 256 total channels

ambient noise

- Full VHF bandwidth, 136-174 MHz inclusive
- · Shadow Channels allow communication using any mode wide or narrowband, analog or digital, crypto or plain
- Secure Transmissions SBCF DES wideband analog encryption is standard
- · Cloning Capability for quick radio-to-radio programming
- Easy installation

Datron World Communications, Inc.

Contact us today: 760.597.1500 3030 Enterprise Ct. Vista, CA 92083 www.dtwc.com • quardian@dtwc.com

### **GUARDIAN G25RMV110**

### 110W Trunk Mount • Mobile Radio

MODEL DESIGNATION	GUARDIAN TRUNK MOUNT MOBILE RADIO
Datron Model Number	G25RMV110
Frequency Range	136.000 – 174.000 MHz
Banks, zones, Channel, Shadow	4 banks, 16 zones, 256 channels, 7 shadow
Voice Digital	INADETM 4.4.L.
Mode Voice coding	IMBE <sup>™</sup> 4.4 kb
Frame Re-sync interval	180 msec
Error Correction method	RS, Golay, Hamming
Input voltage Current drain @ 13.8Vdc	13.8Vdc, negative chassis ground, only
	0.5.4
Standby Receive @ rated audio	0.5 A 3.0 A
Transmit @ rated power (110W)	3.0 A
Mounting	Control head – under dashboard using bracket;
woonling	Remote unit – trunk of vehicle
Dimensions (HxWxD)	
Control head	2.75" x 7.18" x 3.00"
Remote Unit	4" x 8" x 11"
Weight	
Control head	2.5 lbs
Remote Unit	12 lbs
Case	
Control head	Metal and plastic
Remote Unit	Metal
Temperature Range	-30°C to +60°C
Channel spacing	12.5 and 25 kHz, selectable in 2.5 or 3.125 kHZ step
FCC Type Acceptance Number	B3TG25RMV110, parts 74, 80, 90, 210
Industry Canada	4340A - G25RMV110
	ELA (AZ CTANDADOS)
<b>RECEIVER (MEASUREMENTS PER TIA/</b> Sensitivity	EIA 603 SIANDARDS)
Digital Mode, 5% BER	-116 dBm or better
Analog mode, 12 dB SINAD	-116 dBm or better
Spurious	-75 dB
Intermodulation	-75 dB
Audio Output Power	5 Watts, internal; 10 Watts, external speaker
Audio distortion (at 1000Hz)	5 % @ rated power
Frequency stability (-30 to + 60 oC)	+/- 2.5 ppm
Maximum frequency separation	Full band split
TRANSMITTER (MEASUREMENTS PER RF Power Output	3 power levels, selectable - 25/50/110 watts: low
kr rower Output	power surveillance mode
EM hum and poise (wide/parrowband)	
FM hum and noise (wide/narrowband) FCC Modulation designators	-40/-34 dB 11K0F3E, 16K0F3E, 12K6F3E
FCC Modulation designators Frequency stability (-30 to + 60°C)	
	+/- 2.5 ppm
Audio distortion (at 1000Hz)  Maximum frequency separation	2% Full bandwidth
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GUARDIAN DES ENCRYPTION	
Encryption Keys	16
Code key generator	External
SBCF Analog DES Encryption	Standard feature
OFB Digital DES Encryption	Optional
OTAR	Optional
ENVIRONMENTAL SPECIFICATIONS M	IIL-STD-810F
TEST	METHOD PROCEDURE
Low pressure (altitude)	500.4 II
High temperature	501.4 I, II
Low temperature	502.4 I
Temperature shock	503.4 I
Solar radiation (sunshine)	505.4 I
Humidity	507.4 I
Salt Fog	509.4 I
Sand and dust	510.4 I, II
Vibration	514.4 I
Shock	516.4 I
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GUARDIAN ACCESSORIES	
Mounting bracket	10 Watt external speaker
25 ft. power cable	DTMF Microphone

## Project 25 Compliant Government • Military Public Safety • Business





Call: 760.597.1500 • Fax: 760.597.1510 3030 Enterprise Ct. Vista, CA 92081 www.dtwc.com • guardian@dtwc.com



DTMF Microphone

25 ft. power cable

Palm Microphone