

# LMR Series Frequency Agile Receivers

**COBHAM**

The most important thing we build is trust.

The LMR Series of receivers from GMS combine the proven reliability of the MR Series Receivers with the features required for the most demanding surveillance applications. In addition to the features found in the MR receiver, the LMR Series includes a built-in AC power supply and a 7 inch color monitor.

All this is packaged in a rugged enclosure which is pre-drilled to accept a wedge plate for mounting on a conventional tripod to make field setup fast and easy. The LMR Series Receivers are ideal for temporary point-to-point links where maximum flexibility is required. Tracking an airborne relay is easy using the built-in video monitor and optional on-screen display. The LMR Series can even be powered from the cigarette lighter in an automobile and has proven to be an ideal solution for remote video broadcast and surveillance applications.



# LMR Series Frequency Agile Receivers



## Specifications:

### RF

Frequency Range: 1.7-6.0 GHz standard, consult factory for additional frequencies  
Frequency Stability: 0.005%  
Noise Figure: 4 dB typical L,S; 7 dB typical C  
Dynamic Range: 75 dB  
Sensitivity: -83 dBm; S/N weighted of 43 dB for L/S & 40 db for C is typical  
Input Impedance: 50  $\Omega$

### Power

Voltage: 11 to 15 VDC or 100 to 240 VAC  
Current: 900 mA DC typical incl. monitor

### Video

Output Impedance: 75  $\Omega$   
Output Level: 1 volt (peak to peak)  
De-emphasis: Per CCIR 525/625 line  
Frequency Response: 10 Hz- 5.5 MHz  
10 Hz-10 MHz composite  
Signal to noise: 58 dB p-p/rms weighted typical  
Signal to low freq noise: 50 dB

Meets or exceeds EIA/TIA 250-C end to end performance specifications

### Environment

Temperature Range: -20 to 70° C  
Humidity: 0 to 100% non-condensing

### Audio

Subcarriers Available: 4.83, 5.8, 6.0, 6.2, 6.5, 6.8, 7.02, 7.5, 8.3, 8.5, 8.59 MHz  
Output Impedance: 600  $\Omega$  balanced  
Output Level: +9 dBm

Meets or exceeds EIA/TIA 250-C end to end performance specifications

### Mechanical

Size: 5.6" x 7.5" x 3.5"  
(14.2 cm x 19.1 cm x 8.9 cm)  
Weight: 5.5 lbs/2.5 kg  
RF Input Connector: Type "N"  
Video Output Connector: BNC Female (2)  
Audio/Power Connector: PTO2H-12-10P  
Pinout: A: -11 to 15 VDC  
B: Ground  
C/E: Audio 1  
D/F: Audio 2  
G/H: RS-232  
J: Video  
K: Composite