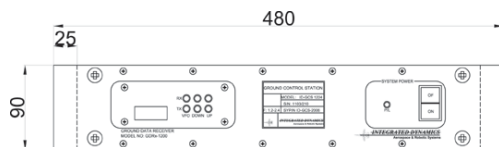
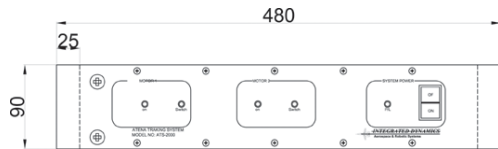
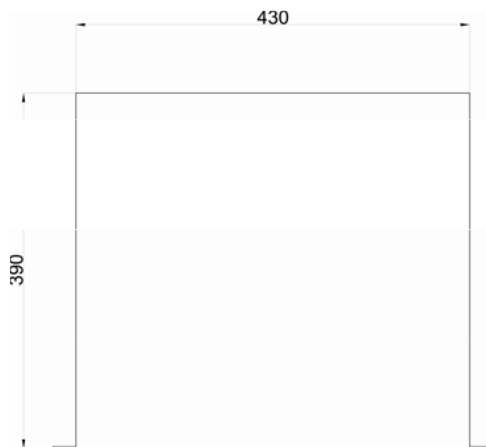


VIDEO / DATA DOWN LINK RECEIVER Model: GCR-1300

- Analog FM or COFDM
- Available in 1.2-1.3 GHz and 2.2-2.4 GHz bands.
- One programmable Video and two audio channels.
- LCD frequency set display.
- Data recording modem option.



The GCR-1300 Video and Data receiver is a proven system that interfaces with our GCS-1200 and GCS-2000 Ground Control Stations. It provides excellent spectral response over a wide frequency band and supports both RS-232 and analog data formats.

Optional data logging and recording options on a simple VCR type magnetic tape drive provide a cost-effective storage and analysis option.

The GCR-1300 is designed to be rack mounted in 19" size enclosures but can be provided in a compact form for direct installation on the antenna tracking system.

Low-power consumption and component reliability make for a unit that is suited for the most demanding applications.

The GCR-1300 can also be supplied as a true 2- or 4-channel diversity receiver to ensure greater redundancy. COFDM applications are also supported where the receiver needs to be used in an urban or high multi-path interference environment.

Please contact us for specific customized options.

Specifications	
ELECTRICAL SPECIFICATIONS	
Frequency Range Frequency Stability Noise Figure Local Oscillator Band Width RF Input Impedance Output impedance Spurious & Harmonics Less than Modulation Data Channel Maximum RF Input Video output Level stability	1260 Mhz to 1300 Mhz, 3 Channel, PLL 1 Mhz steps .007% Long term @ 0 deg C to +70 deg.C Total system NF including LNA less than 4 dBc VCO 8 Mhz 50 Ohms 50 Ohms -80 dBc True FM 4800-19200 BPS 2 V rms 3 V p-p for peak deviation ¼ IF Bandwidth 0.3 dB Long term
INPUT POWER	
Input Voltage Input Current	+11 vdc to +15 vdc (reverse polarity protection) 0.5 Amp @ 13.8 vdc True FM
ENVIRONMENTAL	
Operating temperature Humidity Altitude Weather & Corrosion Resistance Shock Vibration EMI/RFI	-5 deg. F to +160 deg. F 95% Long term (MIL-STD-810) 12000 ft AGL Epoxy powder coated (Polane T) Matt black 100 g half sine, 11 ms any axis 20 g rms, 20 Hz to 2000 Hz, any axis MIL-STD-461- Class A2
MECHANICAL SPECIFICATIONS	
Enclosure Dimensions Weight Connectors Controls Indicators	Standard 19" IU Rack mount 19"W x 19.5" D x 3" H 6 lb DC power (4-pin circular) - Cannon RF Input - F-type Signal/Control (option) - DB9 AFC - SPDT switch Pre-amp voltage - RCA mini-pin Antenna - (option) - F-type BNC - Video out BNC - Audio out RCA 1 - option RCA 2-2nd. Audio out (option) System power - SPDT switch Frequency tune – Push button Signal level - (option) P/L - LED system power indicator