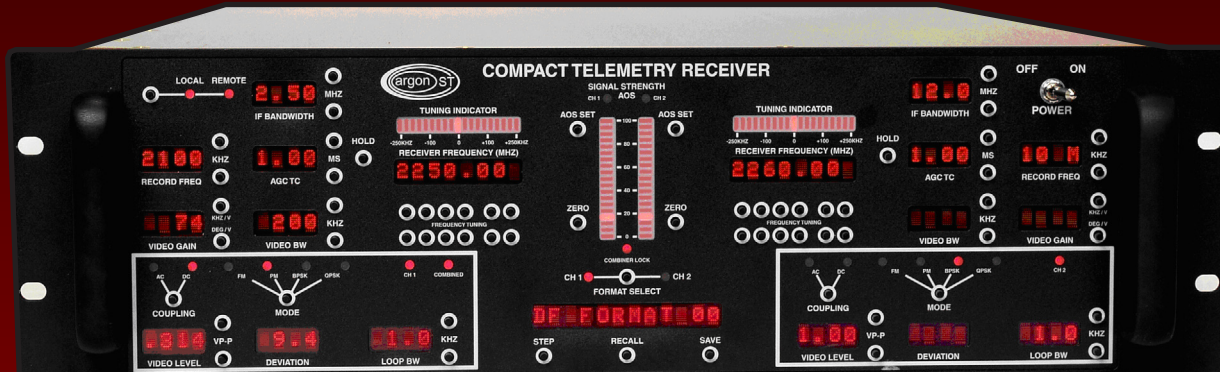




Compact Telemetry Receiver



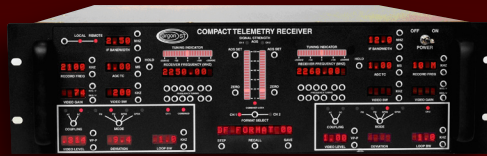
Operate as Dual Channel Receiver or Two Independent Receivers

- Dual Channel, Superheterodyne Receivers With 70 MHz IF Output
- Dual Channel, Maximal-ratio, Pre-detection Diversity Combiner
- Simultaneous Pre-detection Combined Data and Post Detection Best Signal Selected Tracking AM
- Covers Frequency Ranges of 2200-2400 MHz, 1700-1850 MHz, 1435-1540 MHz
- Frequency Resolution of 100 kHz steps
- IF Filters Covering 0.3, 0.6, 1.2, 2.5, 4.0, 6.0, 10, 12, 16.0, 20 and 26 MHz
- Video Bandwidth Coverage for 0.2, 0.4, 0.6, 0.8, 1.6, 3.0, 4.0, 6.0, 8.0, 12 and 16 MHz, and NTSC
- Selectable Tape Carrier Frequencies (100 kHz to 10 MHz in 25 kHz Steps)
- Multi-mode Demodulation for AM, FM, PM, BPSK and QPSK (Also Demodulates FQPSK and SOQPSK) Signals
- AM Demodulator Provided by an Absolute Value AM Detector
- Five AGC Time Constant Selections From 0.01 to 100 ms
- Provides absolute value AGC
- Supports Auto, Manual and Hold Gain Control Modes
- Internal FM, PM, and PSK Demodulators Provided for Each Receiver and the Pre-detection Combiner
- Linear IF Outputs Provided for Each Receiver Channel and the Pre-detection Combiner
- Record Carrier Outputs for Each Receiver Channel and the Combiner
- Tape Carrier Outputs for Each Receiver Channel and the Combiner
- Output Ahead of IF Bandwidth Selection Used to Drive an External Spectrum Analyzer
- The Easy to Use Graphic User Interface (GUI) is Available as an Option





Compact Telemetry Receiver



Physical Specifications

Weight:	40 lbs.	Electrical:	115 VAC, 60 Hz, 40 W; also 230 VAC and DC input options
Dimensions:	19.00" (W) 5.25" (H) 22.00" (D)	Connections:	RJ-45 (ethernet connectivity) D 9-pin RS-232 (remote control interface) BNC and N-Type for all coaxial signal interfaces

Operational Specifications

Frequency Bands:	1435 - 1540 MHz 1700 - 1850 MHz 2200 - 2400 MHz	2nd LO Tuning Range:	Fixed at 355 MHz
Remote Control:	RS-232, Ethernet, IEEE-488	2nd IF Filters:	12 Customer Specific IF Filters (300 kHz to 30 MHz)
Dynamic Range:	Threshold to 0 dBm	AGC Time:	0.01, 0.1, 1, 10, & 100 ms measured with a 6dB step in input power level
Maximum Safe Input Level:	+12 dBm	AGC Zero/Freeze:	AGC zero, AGC hold and manual gain functions provided
1st LO Tuning Resolution:	100 kHz steps	AGC Outputs:	Channel 1, Channel 2, and AGC OR provided
1st LO Stability:	2.5ppm over temperature range +/- 1 ppm over temperature range	Baseband Video Output:	Channel 1, Channel 2, and pre-detection combined level-selectable bipolar outputs provided
System Reference:	10 MHz internal	I and Q Output:	Channel 1, Channel 2, and pre-detection combined I and Q bipolar outputs provided
First IF Bandwidth:	Selectable 10 MHz and 40 MHz	2nd IF Center Frequency:	70 MHz
1st IF Frequency:	285 MHz	2nd LO Type:	Heterodyne
Noise Figure:	< 8dB	2nd LO Stability:	2.5ppm over temperature range +/- 1 ppm over temperature range
VSWR:	1.5:1 maximum		
Image Rejection:	75 dB minimum		
Spurious Signal Rejection:	60 dB minimum		
IF Rejection:	85 dB minimum		
1st LO Type:	Heterodyne		
2nd LO Tuning Resolution:	A function of the 1st LO Tuning Resolution		

For more information, contact our office at:
8419 Terminal Road, POB 1430
Newington, VA 22122-1430
703-541-1577 Fax: 703-550-0883



Corporate Headquarters:
12701 Fair Lakes Circle, Fairfax, VA 22033
703-322-0881 Fax: 703-322-0885
www.argonst.com