AstroNova®
Test & Measurement
Astro-Med® is now AstroNova®

TELEMETRY SOLUTIONS
ACCURATE MEASUREMENTS FOR INFORMED DECISIONS

SINCE 1969

Since 1969, AstroNova Test & Measurement has been a pioneer in the data acquisition industry. Through the years, we have developed a reputation for our accurate turnkey products and unrivaled technical support engineers, known for providing expert support whenever it is needed. By building a strong legacy with our high quality, U.S. made products; our customers have come to rely on us for all their data recording needs.
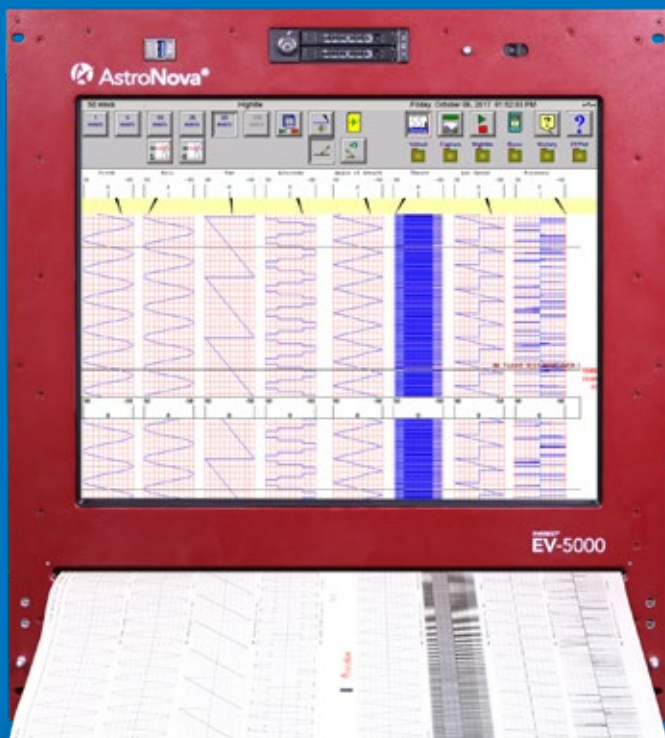
EVEREST® EV-5000
Mission-Critical Data Acquisition

The EV-5000 is ideal for mission-critical data acquisition applications where digital storage and paper printouts are required. Accepting analog inputs, the EV-5000 is engineered to be a direct replacement for the field-proven Everest® series of chart recorders; retaining its best features and allowing for greater accuracy, faster data acquisition rates and increased data storage capacity.

Product Highlights

- Print on standard 16.3" (414 mm) Z-fold chart paper at speeds up to 200 mm/s
- High capacity hard drive
- IRIG or GPS inputs
- 8 single-ended isolated or 16 differential analog inputs
- Enhanced security via Windows® 10
- Easily installs in industry-standard 19" racks
- Review historical data while recording
- Optional 32 channel digital signal inputs via Ethernet

Everest® EV-5000 System Specifications

Signal Inputs	
Channel configuration options	8 isolated single-ended or 16 non-isolated differential analog inputs

Isolated Single-Ended	
Max. channels	8
Sample rate	200 kHz
Band width	40 kHz (-3dB)
Min. input impedance	>1 MΩ
Input type	DC-coupled
Connector	Shrouded Banana or BNC
Max. rated input	± 250 V

Non-Isolated Differential	
Max. Channel	16
Sample rate	20 kHz
Band width	4 kHz (-3dB)
Min. input impedance	>500 KΩ
Input type	DC-coupled
Connector	D shell
Max. rated input	± 40 V

System & connection	
Power consumption	600W
Operating system	Windows® 10
Connection	Gigabit Ethernet (10/100/1000 Base-T) RJ45 connector USB 3.0

Screen	
Dimensions	19" diagonal
Resolution	1280 x 1024

Printed Charts	
Chart width	16.3" (414 mm)
Resolution	300 dpi (12 dpm)
Printing speed	up to 200 mm/sec
Speed accuracy	+/-2% maximum
Waveform size	170 mm max.
Grids	from 2 to 16 individual grids
Time marking tri-level	x1, x10, x100

Environmental Specs	
Temperature	40°F to 105°F (5°C to 40°C)
Operating/Storage Humidity	10% to 90% non condensing
Storage Temperature	-4°F to +140°F (-20°C to 60°C)

Compliance Safety	
EN 61010-1:2001, UL61010A-1, CSA C22.2 No.1010.1-92 EMC FCC Part 15, Subpart B, Class A EN61326 Power Harmonics IEC1000-3-2	
AstroNova is system certified to ISO9001	

Physical Specifications	
Dimensions	21" H x 19" W x 18.6" D
Weight	55 lbs. (25 Kg)

VDiS
Visual Display Software

- Compatible with Windows® 10 and Windows® 7 operating systems

- Powerful Look Back feature stores data on your PC with post-processing conversion to CSV

- Real-time Display of up to 32 channels

- Display speeds from 1 mm/min to 200 mm/sec

- Discrete, overlap or custom grid formats

- Numeric data and X-Y plot displays

- Compatible with third-party telemetry systems

- Customizable user interface

- Create view icons to instantly change which channels are displayed

- Combine with AstroNova Real-Chart RC-300 for printed charts in a modular system to provide both virtual and hard copy telemetry data.

Developed for telemetry facilities and other applications requiring real-time data viewing, the Everest Visual Display Software (VDiS) is a powerful software application that transforms the PC into a virtual strip chart display.

The VDiS application supports either TCP or UDP protocols for digital signals via Ethernet. A complete digital data programming guide is included to get you up and running quickly. The open protocol of VDiS allows it to accept digital data from virtually any telemetry system. VDiS features several useful real-time display capabilities including:

VDiS Display Features

Real-time Display

Telemetry data can be monitored in real-time and simultaneously displayed in strip chart, and x-y plot formats. Display screens are customizable and can be tailored for specific applications.

Real-time with Look Back

The optional VDiS Look Back feature allows you to review previously viewed data while continuing to monitor real-time data on the same screen for comparison purposes.

Numeric Data Display

Data can be viewed in a numeric format in parallel with strip chart displays. Information can be displayed in user-defined engineering units, giving real meaning to your data.

Real-time X-Y Plot

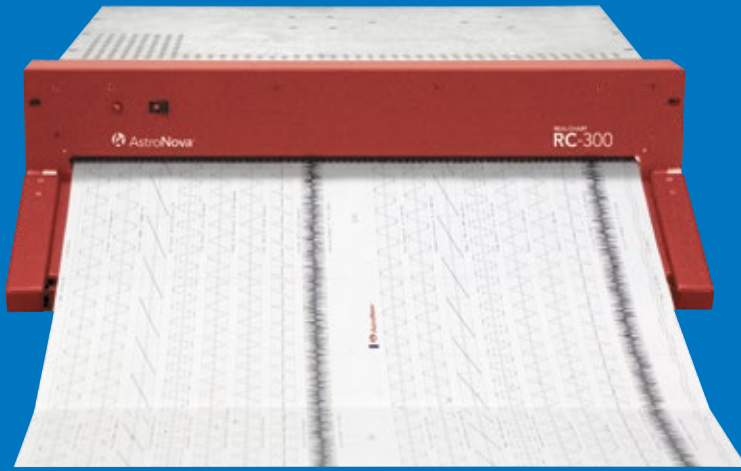Four separate x-y plot windows are available, perfect for measuring phase relationships or phase angles.

Display Icons

Instantly change displayed channels with customizable view icons on control panel.

VDiS License Agreement

VDiS software is available as a single-user license or site license for multiple installations.

REAL-CHART RC-300
Network Printer

The Real-Chart RC-300 is a powerful printing platform designed to provide hard copy recording of telemetry data. It's an ideal wide format printer for aerospace applications where hard copy records are essential. Its 16.3 inch print width supports printing of up to 32 waveforms on separate grids along with alphanumeric annotation and a system log. Signals can also be displayed on an external monitor during printing. Adding a VGA display along with a keyboard and mouse allows the user to control the Real-Chart RC-300 locally. Use the Real-Chart RC-300 with AstroNova VDiS software to provide both virtual and hard copy records of telemetry data in a modular system.

- 300 dpi Print Resolution with 16.3 Inch Wide Charts
- Control Multiple Real-Charts from Server via Ethernet
- Windows® 10 Operating System

Real-Chart RC-300 System Specifications

Printing

Recording Method	Direct Thermal
Chart Widths	16.3-inch (414 mm)
Resolution	300 dpi (12 dpm)
Chart Speed	1mm/min to 200 mm/sec
Speed Accuracy	+/-2%
Maximum Waveform Size	170 mm
Grids	From 2 to 32 individual grids
Time Marking	Tri-level (x1, x10, x100) mark on chart edge; Grid time line controlled by the host
Annotation	System log printed automatically with data and speed
Channel ID	Each channel labeled with channel number
Trace Thickness	User-adjustable
Paper	Z-fold pack (400 sheets per pack)

Interface

Ethernet	10/100/1000 BaseT (RJ45 connector) accepts digital signals and host control commands
VGA	15-pin D-subminiature (male) for displaying data and local control on PC (1024 x 768 screen resolution)
Mouse/Keyboard Port	For local control of printer

Power

Input Voltage Range	102 to 264 VAC
Frequency Range	47 Hz to 63 Hz
Power Factor	0.99
Power Consumption	240W typical 500W maximum

Mechanical

Configuration	Standard 19-inch rackmount or benchtop
Dimensions	7.0" H x 19.0" W x 21.2" D
Weight	37 lbs/16.78 kg without paper 42 lbs/19.05 kg with paper

Environmental

Operating Temperature	40°F to 105°F (5°C to 40°C)
Operating/Storage Humidity	10% to 90% non-condensing
Storage Temperature	-4°F to 140°F (-20 to 60°C)

Compliance

Safety	EN 61010-1:2001, UL61010A-1, CSA C22.2 No.1010.1-92

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