

DDX100 SmartCorder



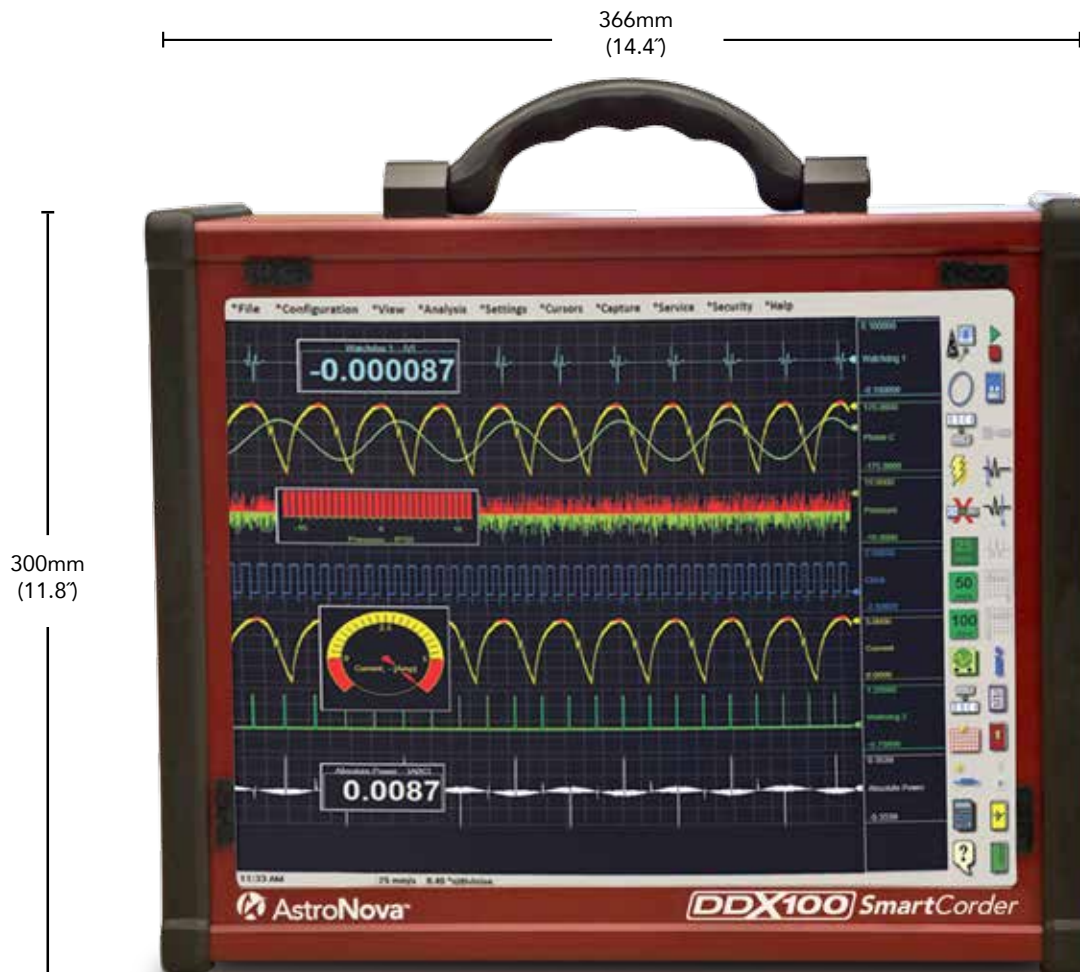
**Compact, Lightweight &
Powerful Data Acquisition!**

DDX100 SmartCorder: Data Acquisition When & Where You Need It

DDX100 SmartCorder brings data acquisition to the next level by capturing data and quickly diagnosing problems. Record only the critical data you want with the intelligent triggering anywhere. Immediate analysis will save resources and eliminate expensive down time.

- Ideal for Maintenance, Troubleshooting & Problem Solving
- Versatile and Convenient for Any Application
 - Plant Maintenance
 - Qual Labs
 - Test Cells
 - Field Service

DDX100 SmartCorder delivers the confidence to record and analyze the data to solve the problem.



DDX100 SmartCorder can be configured to measure 8 channels of "Universal" signals including Voltage (250 VRMS or DC), Thermocouple, DC Bridge, RTD and IEPE Accelerometer inputs. Also available are High Voltage (600 VRMS or DC) or up to 32 channels of 40 VFS.

The Best Engineering Tool on the Market

DDX100 SmartCorder is designed for engineers and technicians who need rugged, compact and portable data acquisition equipment.

- Powerful and only 18.5 pounds
- Portable All-In-One Box
- Easy to Carry On Location to Job Site

Large Capacity

- 500 GB Hard Drive Standard (SSDs optional)
- Record Data for Days or Weeks
- Record Data for Short or Long Term Test Requirements

Internal Battery Power

- Rechargeable Battery Operation
- Convenient where AC Power is not Accessible

Additional Features

- 8-32 Channels (Signal Input Board Dependent)
- Choice of Three Different Capture Rates per Record
- Sample Rates to 200 KHz/channel with Individual ADs per Channel for Fully Synchronized Data
- Inputs for High & Low Voltage, Thermocouple and Sensors
- Intuitive Touch Panel Operation

Portable Data Acquisition

DDX100 SmartCorder is the data acquisition system designed to simply grab and go into the field for any application.



Automotive



Transportation

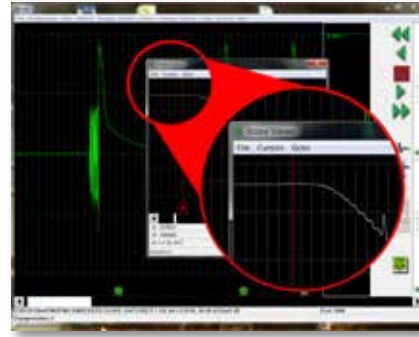


Energy



Trouble Shooting Features

In addition to the high resolution and the zoom window, the DDX100 SmartCorder has exceptional troubleshooting features:

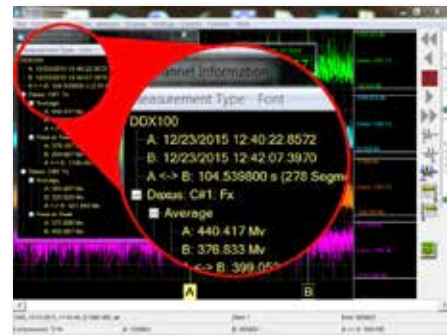
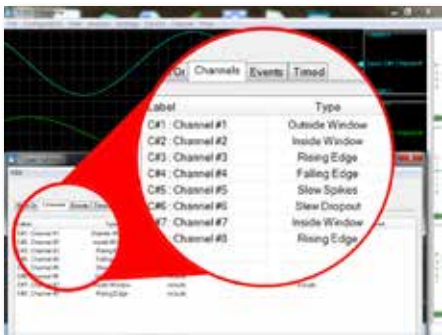


Data Capture is powerful with a standard 500 GB hard drive supporting 8 channel captures at the full 200 KHz sample rate for almost 2 days. For ruggedized systems 400 and 800 GB are optional SSDs. The user can capture data for over one year at a 1KHz sampling for 8 channels. Use any of the signals to trigger a high sample rate capture for much smaller records. Signals can be assigned one of three different sample rates per capture to make efficient use of hard drive and reduce record size. Simply choose the number of signals to record, select sample rate and capture length, and the DDX100 SmartCorder will calculate recording time based on available free space in the capture drive.

Intelligent Triggering allows the user to record only critical data. Set sample rate and trigger conditions to get a precise data capture that is easily shared with colleagues in a variety of different formats. Triggers for each channel are AND/OR selectable and include:

- Rising or Falling Edge, or Both
- Inside and Outside Window
- Slew Rate Trigger for Frequency Changes
- Time-Based
- External Trigger

Easily catch and identify an elusive glitch and eliminate expensive down time with an array of trigger choices.



Embedded Scope capture feature combines high speed and trending data captures in one record. This is the perfect feature for unattended operation, showing the big picture as well as high speed details for any problem areas. The DDX100 SmartCorder is designed to store long term trending data while simultaneously capturing high resolution transients, identifying problems in a perfect time sequence.

Data Review capability allows look-back of the data capture while still recording. This fantastic feature allows you to see what happened on a specific date/time during the live capture. Drop down a few cursors, expand the time base and see the exact nature of the problem signal.

Exceptional User Experience

On-Board Signal Processing allows the user to perform immediate calculations and make simultaneous decisions. Write a math equation in real-time with data, from select channels with the derived channel feature, resulting in a new calculated data channel. Up to 20 derived channels can be included in a record.

Math functions include: addition, subtraction, multiplication, division, square, square root, sum of squares, sine, cosine and tangent. A powerful suite of digital filters are included with lowpass, highpass, bandpass and bandstop filters of various types and programmable cutoff frequencies. Advanced processing functions are also included such as RMS calculation, differentiation and integration.

Counters are a great benefit of the DDX100 SmartCorder, providing a number of counter/totalizer modes such as frequency counters, quadrature counter, gated pulse counter, pulse width detector, edge separation timer, and others.





AstroNova Test & Measurement

Capture Critical Data Accurately & Reliably

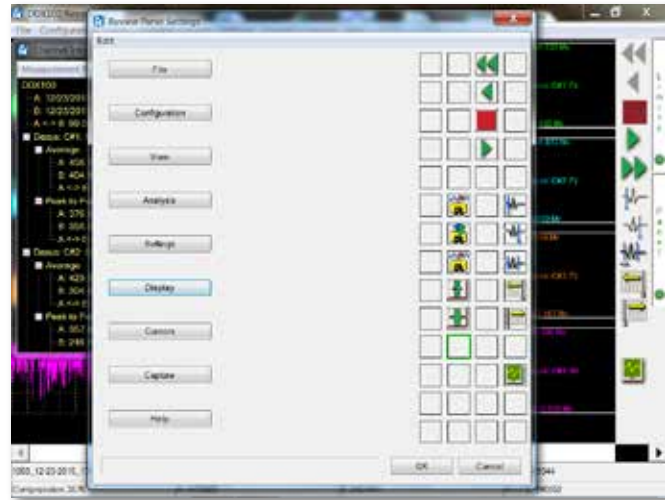
Since 1971, we have been a pioneer in the data acquisition industry. By building a strong legacy with our high quality, U.S. made products; our customers have come to rely on us for their data recording needs. As engineers, we understand which data capture needs are important and design our products with precision & user experience in mind. We have a reputation for accurate, turnkey products and unrivaled factory-trained support technicians, who provide expert support whenever our customers need it. Our company is committed to innovating and adapting to meet the ever-changing needs of our customers, and our customers look to us to create products that offer revolutionary solutions for data acquisition. Whatever our customers' data acquisition needs, we offer the total solution for tailored applications.

Customize the Control Panel with one-touch icons on the viewing screen for commonly used menu items. Any menu item can be saved as an icon in the control panel to be as simple or as inclusive as required. The control panel can be designed by users and saved for various tests.

Customize the View of the 15-inch touch panel display to make data easily recognizable.

On Screen:

- View Only the Channels Required for the Application
- Size Channels Individually
- Signals can Overlap on One Grid
- Place the Meters Optimally to View
- Label Each Channel
- Place Signal IDs
- Add Text Highlights When Important Events Take Place
- Identify Signals with Different Colors, Change the Background & Grid Color and More



Custom Control Panel

Setup Files defining test parameters can be stored and recalled with ease. Setup files can be assigned as icons on the control panel for one-touch test setup changes.

AstroView X Software is included for viewing and signal measurements.

Offline Software Package (optional) provides the user with a powerful interface, views, menus, and data capture records that are easily transferred and viewed on a PC. Setups can also be created on a PC and transferred to the DDX100 SmartCorder.

DESIGN YOUR DDX100 SMARTCORDER

DDX100 SmartCorder Mainframe P/N: 42960000

The DDX100 SmartCorder mainframe accepts two signal input modules. The five available DDX100 signal input modules are featured below.



UNIV-4
P/N: 32950600

The UNIV-4 module accommodates 4 signals. It accepts voltages up to 250 Vrms using double banana connectors. Additional universal capabilities: DC bridge measurements, thermocouple measurements with a U type mini thermocouple plug in, and RTD and IEPE transducer measurements that use available adaptors for the screw terminal provided.



NIDX-16
P/N: 32950620

The NIDX-16 module accommodates 16 non-isolated differential signals up to 40 VDC. Connections are made utilizing screw terminal connectors.



ISEV-4
P/N: 32950605

The ISEV-4 module accommodates 4 signals. It accepts voltages up to 250 Vrms using double banana connectors.



IHVM-4
P/N: 32950630

The IHVM-4 module accommodates 4 signals. It accepts voltages up to 600 Vrms or 1000 VDC using double banana connectors.



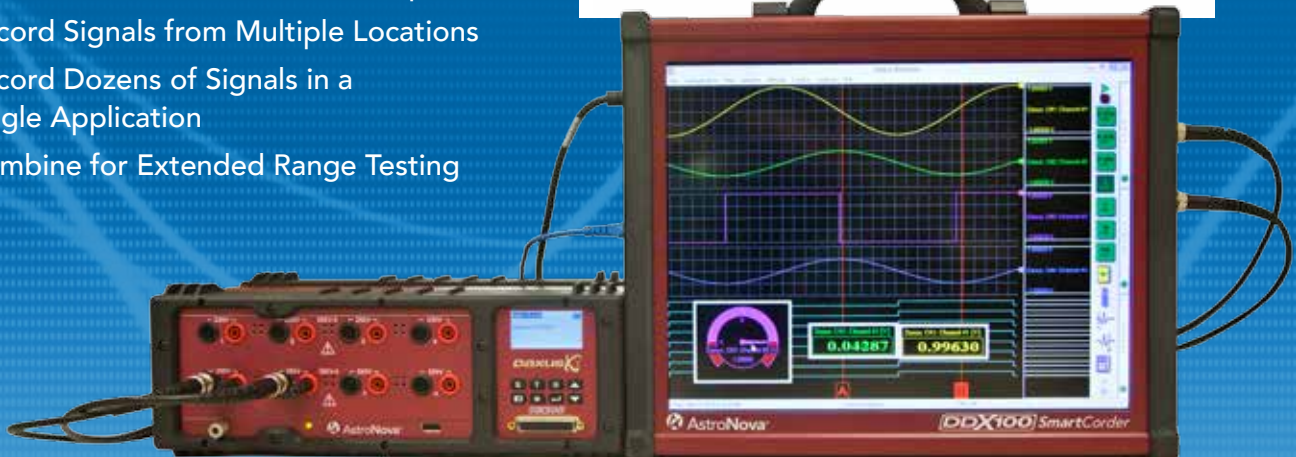
IHVM-4P
P/N: 32950635

The IHVM-4P accepts 4 inputs up to 600 Vrms and provides 4 power calculations for each input for up to 16 measurements. Sample rates up to 50 KHz are selectable by the user.

DDX100 SmartCorder Expandable for Increased Capability

The Daxus family of data acquisition systems is designed for compatibility. DDX100 SmartCorder and Daxus easily integrate to:

- Increase Channel Counts
- Provide Networked Recording Capability
- Record Signals from Multiple Locations
- Record Dozens of Signals in a Single Application
- Combine for Extended Range Testing



MODULE SPECIFICATIONS



UNIV-4
P/N: 32950600

UNIV-4 COMMON SPECIFICATIONS

Channels Per Module	4
Rated Isolation	250 VRMS or DC, Cat II (iso-common to chassis and other iso-commons)
Frequency Counter Capability	Yes, all channels. Software selectable.
Counter Modes	Gated time frequency counter, cycle based frequency counter, pulse counter, pulse width detector, period width detector, duty cycle detector, gated pulse event counter, quadrature counter, edge separation detector.
Frequency ctr range	2 – 40 KHz
Frequency ctr accuracy	+ 0.07% of Measurement + .002 Hz
Min counter input amplitude	25% of span for frequency and pulse counters, 90% of span for all other modes
Pulse counter range	4,000,000,000 maximum. (16 bit display resolution)
Pulse width accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Pulse width range	25 μ s – 2,500,000
Edge separation accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Edge separation range	25 μ s – 5,000,000 μ s
Period width accuracy	.001% of measurement + .00167% of span + 0.7 μ s
Period width range	25 μ s – 100,000 μ s (10 Hz – 40 KHz)
Duty cycle accuracy	.5% (Inputs in the 1 Hz - 5 KHz range with 5% - 95% duty cycles)
Cold Start Drift	< 0.1% of attenuator (60 min.)

UNIV-4 SINGLE ENDED INPUT

Connector	Guarded banana jacks (red/black)
Input	Single-ended, AC/DC coupled
Sample Rate	200 KHz
A/D	16 bit SAR (one per channel)
Anti-Aliasing Filter	4 pole Bessel
Bandwidth	40 KHz (-3dB) (400V, 200V and 100V Attenuators) 35 KHz (-3dB) (10V and 1V attenuators)
AC Coupled 3dB Point	< 0.54 Hz (0.47 Hz typ)
Off Ground Measurements	Yes
Zero Suppression	Yes, digital
Attenuator Ranges	1, 10, 50, 200 and 400 Volt
Measurement Ranges	\pm 400 V (400 VFS or 800 VFS w/ zero offset) \pm 200 V (200 VFS or 400 VFS w/ zero offset) \pm 100 V (100 VFS or 200 VFS w/ zero offset) \pm 10 V (10 VFS or 20 VFS w/ zero offset) \pm 1 V (1 VFS or 2 VFS w/ zero offset. 0.1V min span)
Max Rated Input	250 Vrms or DC, Cat II
Max Transient Input	\pm 800 V peak (not to exceed 250Vrms)
DC Accuracy (25°C)	\pm 0.06% of attenuator
Overshoot	< 0.25%
Intrinsic Noise (pk-pk)	< 0.02% of attenuator + .02% of span (400V through 10V atts) < 0.16% of attenuator + .02% of span (1V att)
IMR at 60 Hz	Better than -80 dB
Min Input Impedance	> 1 Megohm

UNIV-4 DIFFERENTIAL INPUT

Connector	8 wire screw terminal
Input	Differential, DC coupled
Sample Rate	200 KHz
A/D	16 bit SAR (one per channel)
Anti-Aliasing Filter	4 pole Bessel
Bandwidth	35 KHz

UNIV-4 DIFFERENTIAL INPUT Continued

Measurement Ranges	\pm 1000 mV \pm 100 mV \pm 20 mV
Max Transient Input	\pm 20 V
Common Mode Voltage	\pm 10V
Zero Suppression	Yes, digital.
DC Accuracy (25°C)	\pm 0.06% of attenuator
Overshoot	< 0.25%
Intrinsic Noise (pk-pk)	< 0.02% of attenuator + .02% of span (1000 mV Att) < 0.05% of attenuator + .02% of span (100 mV Att) < 0.18% of attenuator + .02% of span (20 mV Att)
IMR at 60 Hz	Better than -60 dB
Min Input Impedance	> 300 Kilohm (150 Kilohm balanced to isolated common)



NIDX-16
P/N: 32950620

NIDX-16 SPECIFICATIONS

Channels Per Module	16
Connector	8 wire screw terminals (8)
Input	Differential, DC coupled
Bandwidth	4 KHz (-3dB)
Sample Rate	20 KHz
A/D	16 bit SAR (one per channel)
Anti-Aliasing Filter	4 pole Bessel
Frequency Counter Capability	Yes, first 8 channels. Software selectable.
Counter Modes	Gated time frequency counter, cycle based frequency counter, pulse counter, pulse width detector, period width detector, duty cycle detector, gated pulse event counter, quadrature counter, edge separation detector.
Frequency ctr range	2 – 3 KHz
Frequency ctr accuracy	+ 0.07% of Measurement + .002 Hz
Min counter input amplitude	25% of span for frequency and pulse counters, 90% of span for all other modes
Pulse counter range	4,000,000,000 maximum. (16 bit display resolution)
Pulse width accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Pulse width range	25 μ s – 2,500,000
Edge separation accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Edge separation range	25 μ s – 5,000,000 μ s
Period width accuracy	.001% of measurement + .00167% of span + 0.7 μ s
Period width range	25 μ s – 100,000 μ s (10 Hz – 30 KHz)
Duty cycle accuracy	.5% (Inputs in the 1 Hz - 5 KHz range with 5% - 95% duty cycles)
Off Ground Measurements	Yes
Zero Suppression	Yes, digital
Attenuator Ranges	40, 20, 10 5 and 1 Volt
Measurement Ranges	\pm 40 V (40 VFS or 80 VFS w/ zero offset) \pm 20 V (20 VFS or 40 VFS w/ zero offset) \pm 10 V (10 VFS or 20 VFS w/ zero offset) \pm 5 V (5 VFS or 10 VFS w/ zero offset) \pm 1 V (1 VFS or 2 VFS w/ zero offset)
DC Accuracy (25°C)	\pm 0.1% of attenuator
Overshoot	< 1%
Intrinsic Noise (pk-pk)	< 0.2% of attenuator
IMR at 60 Hz	Better than -60 dB
Min Input Impedance	> 500 Kilohm



ISEV-4
P/N: 32950605



IHVM-4
P/N: 32950630

ISEV-4 SPECIFICATIONS	
Channels Per Module	4
Rated Isolation	250 VRMS or DC, Cat II (iso-common to chassis and other iso-commons)
Sample Rate	200 KHz
A/D	16 bit SAR (one per channel)
Anti-Aliasing Filter	4 pole Bessel
Frequency Counter Capability	Yes, all channels. Software selectable.
Counter Modes	Gated time frequency counter, cycle based frequency counter, pulse counter, pulse width detector, period width detector, duty cycle detector, gated pulse event counter, quadrature counter, edge separation detector.
Frequency ctr range	2 – 40 KHz
Frequency ctr accuracy	+ 0.07% of Measurement + .002 Hz
Min counter input amplitude	25% of span for frequency and pulse counters, 90% of span for all other modes
Pulse counter range	4,000,000,000 maximum. (16 bit display resolution)
Pulse width accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Pulse width range	25 μ s – 2,500,000
Edge separation accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Edge separation range	25 μ s – 5,000,000 μ s
Period width accuracy	.001% of measurement + .00167% of span + 0.7 μ s
Period width range	25 μ s – 100,000 μ s (10 Hz – 40 KHz)
Duty cycle accuracy	.5% (Inputs in the 1 Hz - 5 KHz range with 5% - 95% duty cycles)
Cold Start Drift	< 0.1% of attenuator (60 min.)
Connector	Guarded banana jacks (red/black)
Input	Single-ended, AC/DC coupled
Bandwidth	40 KHz (-3dB)
AC Coupled 3dB Point	< 0.54 Hz
Off Ground Measurements	Yes
Zero Suppression	Yes, digital
Attenuator Ranges	1, 10, 100, 200 and 400 Volt
Measurement Ranges	\pm 400 V (400 VFS or 800 VFS w/ zero offset) \pm 200 V (200 VFS or 400 VFS w/ zero offset) \pm 100 V (100 VFS or 200 VFS w/ zero offset) \pm 10 V (10 VFS or 20 VFS w/ zero offset) \pm 1 V (1 VFS or 2 VFS w/ zero offset. 0.1V min span)
Max Rated Input	250 Vrms or DC, Cat II
Max Transient Input	\pm 800 V peak (not to exceed 250Vrms)
DC Accuracy (25°C)	\pm 0.06% of attenuator
Overshoot	< 0.25%
Intrinsic Noise (pk-pk)	< 0.02% of attenuator + .02% of span (400V through 10V atts) < 0.16% of attenuator + .02% of span (1V att)
IMR at 60 Hz	Better than -85 dB
Min Input Impedance	> 1 Megohm

IHVM-4 SPECIFICATIONS	
Channels Per Module	4
Connector	Guarded banana jacks (red/black)
Input	Differential, DC coupled
Bandwidth	35 KHz (-3dB)
Rated Isolation	600 VRMS or DC, Cat III (channel to chassis and other channels) 1,000 VRMS or DC, Cat II (channel to chassis and other channels)
Sample Rate	200 KHz
A/D	16 bit SAR (one per channel)
Anti-Aliasing Filter	4 pole Bessel
Frequency Counter Capability	Yes, all channels. Software selectable.
Counter Modes	Gated time frequency counter, cycle based frequency counter, pulse counter, pulse width detector, period width detector, duty cycle detector, gated pulse event counter, quadrature counter, edge separation detector.
Frequency ctr range	2 – 30 KHz
Frequency ctr accuracy	+ 0.07% of Measurement + .002 Hz
Min counter input amplitude	25% of span for frequency and pulse counters, 90% of span for all other modes
Pulse counter range	4,000,000,000 maximum. (16 bit display resolution)
Pulse width accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Pulse width range	25 μ s – 2,500,000
Edge separation accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Edge separation range	25 μ s – 5,000,000 μ s
Period width accuracy	.001% of measurement + .00167% of span + 0.7 μ s
Period width range	25 μ s – 100,000 μ s (10 Hz – 30 KHz)
Duty cycle accuracy	.5% (Inputs in the 1 Hz - 5 KHz range with 5% - 95% duty cycles)
Off Ground Measurements	Yes
Zero Suppression	Yes, digital
Attenuator Ranges	40, 200 and 1000 Volt
Measurement Ranges	\pm 1,000 V (1000 VFS or 2000 VFS w/ zero offset) \pm 200 V (200 VFS or 400 VFS w/ zero offset) \pm 40 V (40 VFS or 80 VFS w/ zero offset)
Max Rated Input	600 Vrms or DC, Cat III, 1000V DC, Cat II
DC Accuracy (25°C)	\pm 0.06% of attenuator
Overshoot	< 0.25%
Intrinsic Noise (pk-pk)	< 0.18% of attenuator + .05% of span (40V att) < 0.045% of attenuator + .02% of span (200V att) < 0.015% of attenuator + .025% of span (1000V att)
IMR at 60 Hz	Better than -60 dB
Min Input Impedance	> 10 Megohm

MODULE SPECIFICATIONS



IHVM-4P

P/N: 32950635

The **IHVM-4P** is a new high voltage signal input module designed to provide critical power measurements required in many industries where power quality is essential. The IHVM-4 P accepts 4 inputs up to 600 Vrms and provides 4 power calculations for each input for up to 16 measurements. Sample rates up to 50 KHz are selectable by the user.

Two modes of operation are included. The standard mode provides calculations for RMS, applied filters, frequency counters, and other powerful math functions. This mode allows the user to decide how the output channels are generated.

The power mode provides calculations for power factor, true power, apparent power and frequency based on current probe inputs. The IHVM-4 P module is ideal for single and three phase power (2 modules required) measurements as well as a variety of other applications.

- **4 High Voltage Inputs up to 600 Vrms**
- **4 Power Calculations per Input for up to 16 Measurements**
- **Sample Rates up to 50 KHz**
- **Two Operational Modes**
- **Single and Three Phase* Power Measurements**

IHVM-4P SPECIFICATIONS

Channels Per Module	4
Connector	Guarded banana jacks (red/black)
Input	Differential, DC coupled
Bandwidth	14 KHz (-3dB)
Rated Isolation	600 VRMS or DC, Cat III (channel to chassis and other channels) 1,000 VRMS or DC, Cat II (channel to chassis and other channels)
Sample Rate	50 KHz
A/D	16 bit SAR (one per channel)
Anti-Aliasing Filter	4 pole Bessel
Frequency Counter Capability	Yes, all channels. Software selectable.
Counter Modes	Gated time frequency counter, cycle based frequency counter, pulse counter, pulse width detector, period width detector, duty cycle detector, gated pulse event counter, quadrature counter, edge separation detector.
Frequency ctr range	Up to 20 KHz
Frequency ctr accuracy	+ 0.07% of Measurement + .002 Hz
Min counter input amplitude	25% of span for frequency and pulse counters, 90% of span for all other modes
Pulse counter range	4,000,000,000 maximum. (16 bit display resolution)
Pulse width accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Pulse width range	25 μ s – 2,500,000
Edge separation accuracy	.002% of measurement + .00167% of span + 0.7 μ s
Edge separation range	25 μ s – 5,000,000 μ s
Period width accuracy	.001% of measurement + .00167% of span + 0.7 μ s
Period width range	25 μ s – 100,000 μ s (10 Hz – 30 KHz)
Duty cycle accuracy	5% (Inputs in the 1 Hz - 5 KHz range with 5% – 95% duty cycles)
Off Ground Measurements	Yes
Zero Suppression	Yes, digital
Attenuator Ranges	40, 200 and 1000 Volt
Measurement Ranges	\pm 1,000 V (1000 VFS or 2000 VFS w/ zero offset) \pm 200 V (200 VFS or 400 VFS w/ zero offset) \pm 40 V (40 VFS or 80 VFS w/ zero offset)
Max Rated Input	600 Vrms or DC, Cat III, 1000V DC, Cat II
DC Accuracy (25°C)	\pm 0.06% of attenuator
Overshoot	< 0.1%
Intrinsic Noise (pk-pk)	< 0.047% of attenuator + .013% of span (40V att) < 0.013% of attenuator + .02% of span (200V att) < 0.005% of attenuator + .024% of span (1000V att)
IMR at 60 Hz	Better than -75 dB
Min Input Impedance	> 10 Megohm

*2 IHVM-4P modules are required

DDX100 SMARTCORDER ACCESSORIES



ADP-I P/N: 32950501
IEPE Adapter for UNIV-4 Module



ADP-T P/N: 32950502
Thermocouple Adapter for UNIV-4 Module



ADP-R P/N: 32950503
RTD Adapter for UNIV-4 Module



GL-40 P/N: 13442000
General Use Lead Set



LC-40 P/N: 13441003
Test Leads/Clips: Pair of Test Lead and Pincer Clips (1 red, 1 black)



LC-40S P/N: 13441201
Test Leads/Spades: Pair of Test Leads with Spade Connector for # 8 Screw



CLM-420 P/N: 26487000
4 to 20 mA Current Adapter for Current Loop Measurements



DCS-8 P/N: 13123000
10 A, 100 mV Current Shunt for Current Measurement



SL261 P/N: 24661201
Current Probe Reads AC or DC Current, 100 A Maximum



MR411 P/N: 24661200
Current Probe Reads AC or DC Current, 600 A Maximum



MR521 P/N: 24661100
Current Probe Reads AC or DC Current, 1500 A Maximum



MN255 P/N: 24661300
Current Probe Reads AC Current, 240 A Maximum



SR759 P/N: 24661400
Current Probe Reads AC Current, 1200 A Maximum



JM875 P/N: 24661500
Current Probe Reads AC Current, 3000 A Maximum



FP300A P/N: 24661600
Flexible Current Probe Reads AC Current, 300 A Maximum



FP3000A P/N: 24661700
Flexible Current Probe Reads AC Current, 3000 A Maximum



FP6000A P/N: 24661620
Flexible Current Probe Reads AC Current, 6000 A Maximum



ADP-4810 P/N: 25765000
High Voltage Probe Reads Up to 1000 Vrms



SOFT CASE
Soft Carry Case for DDX100

DDX100 SMARTCORDER SYSTEM SPECIFICATIONS

SYSTEM	
Digital I/O	8 events, alarms, programmable I/O
Operational Modes	Scope, review, real-time (strip-chart)
Maximum Analog Modules	2
Maximum Analog Waveforms	32 (module dependent)
Event Inputs (TTL)	8
COLOR DISPLAY	
Type	Active Color Matrix LCD (TFT) w/ LED backlight
Viewing Area	15" diagonal
Resolution	1024 x 768
Touch	Full screen resistive
DATA ACQUISITION	
Recording Method	Internal SATA disk drive
Maximum Sample Rate	200,000 sample/ second/channel
Minimum Sample Rate	1 sample/ minute
Multiple Sample Rate	Yes, up to 3 different rates
Total Capacity	500 GB (SSD options available)
Maximum Record	Limited to drive size
Time Stamp	Time & date automatically saved with data
Header	Information on units, range, sample rates, etc. saved with data
Events	Recorded with data
Trigger Point	Pre and post trigger is user adjustable
Auto Re-Arm	Allows automatic stacking of captures
QuickLook	Yes
SIGNAL MODULES	
ISEV4	4-Channel Isolated Module (accepts up to 250 Vrms)
UNIV-4	4-Channel Universal Module Voltage and DC Bridge (accepts up to 250 Vrms) Supports thermocouple RTD and IEPE transducers with available adapters
IHVM-4	4-Channel Isolated High Voltage Module (accepts up to 600Vrms or 1000 VDC)
NIDX-16	16-Channel Non-Isolated Differential Voltage Module (accepts up to 35 Vrms)
IHVM-4P	4-Channel Isolated High Voltage Module (accepts up to 600Vrms or 1000 VDC) with power calculations

GENERAL	
Maximum Channels	32
Engineering Units	User defined units with y=mx+b scaling
Pre-capture Filter	Lowpass, highpass, bandpass, bandstop, RMS
Advanced DSP	RMS, Integration and Differentiation
Post-capture Filter	Lowpass, highpass, bandpass, bandstop, RMS
Math Functions	Addition, Subtraction, Multiplication, Division, Trigonometric, Statistical and other general math functions
Calibration	Semi-automated to external reference
ADDITIONAL FEATURES	
GPS	For time and location synchronization
IRIG Timestamp	IRIG A and B for timecode synchronization
CAN bus	Support for CAN signal acquisition, 2 ports
Wireless	Wireless connectivity
SYSTEM POWER	
Input Voltage Range	100 to 264 VAC
Frequency Range	47 Hz to 63Hz
Maximum Power	120 W
BATTERY	
Type	Lithium Ion (rechargeable)
Charge Time	4 Hours
Battery Life	40 minutes on single charge
PHYSICAL	
Enclosure	Aluminum
Dimensions	300mm H x 366mm W x 168mm D
Weight (including modules)	8.4kg (18.5lbs)
COMPLIANCE	
Safety	EN 61010-1:2010, UL 61010-1:2012, CSA C22.2:2012
EMC	FCC Part 15, Subpart B, Class A, EN 61326
Power Harmonics	IEC1000-3-2
ENVIRONMENTAL	
Operating Temp	0 to 40°C (32 to 104°F)
Storage Temp	-20 to 60°C (-4 to 140°F)
Operating Humidity	10% to 90% non-condensing
Shock	MIL-810-F Method 516.5, Procedure I*

Other Data Acquisition Products Available from AstroNova



THE TMX FAMILY

TMX features up to 96 channels, an exclusive full-color 17" advanced touch screen technology, a dedicated, 1 TByte Removable Hard Drive for Data Capture, and pre-defined set up options.



TMX-18 features 18 channels of voltage and DC Bridge inputs, a high resolution, 17" touch screen display, and pre-defined set up options.



DAXUS small but powerful data acquisition system for 8-32 channels with an internal 500GB hard drive. No PC required during data collection. Multiple units can be stacked or networked.



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