
Daxus
Data Acquisition when
and where you need it
Astro-Med,Inc
TEST & MEASUREMENT PRODUCT GROUP
Astro-Med.com/Daxus

You can record and transmit data anywhere with Daxus. It is a small yet powerful data acquisition device that can be used as a single stand-alone unit for troubleshooting and maintenance, stacked for high channel count jobs, or networked with multiple units located throughout your facility for synchronized data recording in distributed networking applications.

Daxus captures, handles, and stores all data locally. You can record just a few signals or hundreds of parameters essential to maintaining efficient operations in any industry. Standing at just 119.4 mm tall x 323.9 mm wide (4.7″ x 12.75″) and weighing just 3.2 kg. (7 lbs.), the Daxus is compact and tough enough for any environment.

Use in Any Configuration:

Mobile App. Daxus is all about mobility. When you are away from your system, you can view real-time, scrolling waveform data of your ongoing data acquisition on your smartphone or tablet via the Daxus mobile app. You can also receive alerts and review recent captures for quick, on-the-spot troubleshooting.

You can view real-time, scrolling waveform data of your ongoing data acquisition on your smartphone or tablet via the Daxus mobile app.

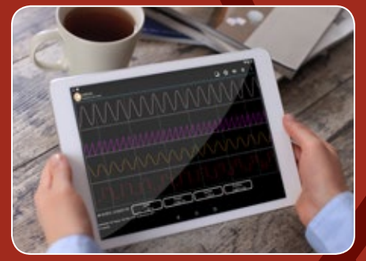
Networked. Multiple Daxus units can be used throughout your operation. In networked applications, an unlimited number of Daxus units can be controlled and monitored from a central workstation or multiple PCs on the network. You can communicate with the Daxus units wirelessly or through the Gigabit Ethernet interface. Daxus captures, handles, and stores all data locally, so network bandwidth has no impact on sample rates.

>> In networked applications, an unlimited number of Daxus units can be controlled and monitored from a central workstation or multiple PCs on the network.

Stand-Alone. When used as a standalone device, simply configure your Daxus on a PC using the included software, then disconnect the PC and let the Daxus collect data. Or, you can load your Daxus setup files onto a USB thumb drive and upload them directly to the Daxus for storage. Daxus features a front panel display with dedicated control buttons for loading setup files, starting or stopping data captures and triggering. You can stack multiple Daxus units to achieve higher channel counts as needed.

Connect Daxus to record your signals

Observe in real-time at your PC



Or observe in real-time on your tablet while you're on the go

PC Software

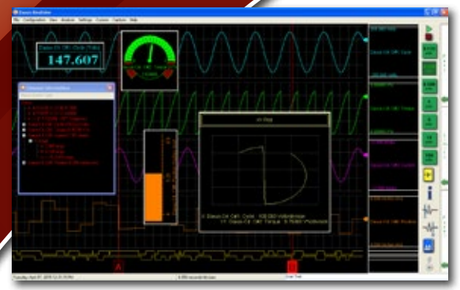
>> You can stack multiple Daxus units to achieve higher channel counts as needed.

Your Daxus can be used either with or without a PC. For PC-based applications, the powerful Daxus software provides intuitive drop-down menus and a customizable control panel to set up one-touch controls for your convenience. Available functions include: loading and saving setup files, amplifier settings, data capture and triggering parameters, cursor measurements and review and analysis functions.

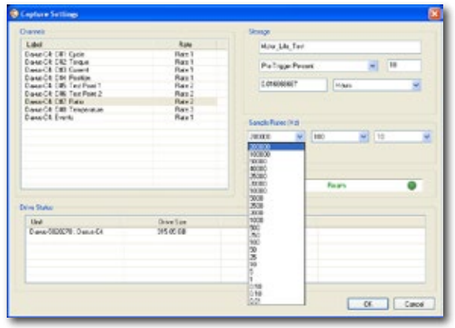
In **Real Time** operation, Daxus signals can be viewed on a PC in a scrolling waveform style. For those who need a **Scope** presentation, Daxus provides a DSO-style display that is useful for viewing high speed signals in detail or where a stationary waveform view is preferred. The **Review** capability is designed to bring up previously captured data for analysis including expansion, compression, search features, measurements and much more.

Daxus software also includes an advanced **Derived Channel** feature that enables real time mathematics on the fly. Pass your data through an equation that you create and you can see calculated values now, not after the fact. Derived channels can be developed based on data from any of the active channels and are displayed as additional channels. Math functions include: +, -, x, ÷, Square Root, Exponential, Sin, Cos, Tan, Absolute Value, Integration and Differentiation.

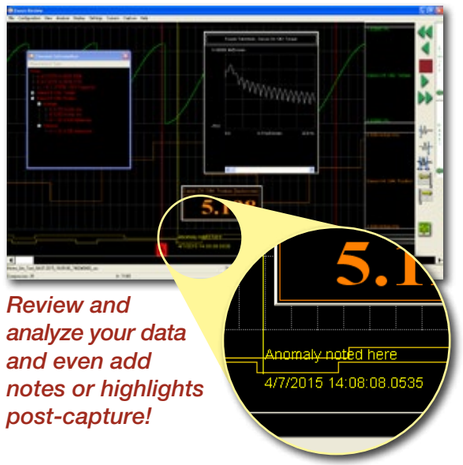
>> Derived channels can be developed based on data from any of the active channels



Customize your data viewing with waveforms, meters, cursor measurements or analysis windows.



Powerful data capture includes multiple sample rates, advanced triggering and automation.



Review and analyze your data and even add notes or highlights post-capture!

Any channel can be set up to display the **Engineering Units** of your choice with linear scaling. This allows data to be viewed in familiar terms such as Amps, PSI, RPM, Ft-lbs., etc.

A built-in **Meter Package** gives you the ability to display screen data in an easy to read visual format. Choose from various meter formats including gage, numeric, horizontal or vertical bar, needle and LED readouts. They can be sized and placed anywhere on the screen for a truly custom look and feel.

Easy-to-use Cursors allow immediate measurements with functions such as: Time, Sample Point, Average, Min/Max & Peak-Peak Slope, RMS, Sum, Sum of Squares, Variance, Standard Deviation and Area.

Recording Capacity

Each Daxus has loads of data recording capacity with a standard 500GB SATA drive or an optional Solid State Drive for more demanding environments. Intelligent Data Capture features include pre/post triggering, logical and/or triggers, multiple sample rates and data capture automation for repetitive testing. A battery backup ensures no loss of data in the event of a power disruption.

Optional Interfaces

Interfaces include CAN Bus for automotive testing, IRIG time codes for aerospace applications and GPS time and location stamping for transportation or other applications.

Daxus records data in virtually any industry or environment

OVERVIEW SPECIFICATIONS

SYSTEM	
PC Connection	Gigabit Ethernet (10/100/1000Base-T)
Input Module Slots	2
Link Ports	Multiple unit synchronization for higher channel counts
Digital I/O	8 Events, alarms, programmable I/O
User Interface	Display with easy-to-use menu system and dedicated buttons for local control.
DATA ACQUISITION	
Recording Method	Internal SATA disk drive.
Maximum Sample Rate	200,000 samples/second/channel
Minimum Sample Rate	1 sample/minute
Multiple Sample Rates	Yes, up to 3 different rates
Total Capacity	500 GB (100GB or 200GB SSD optional)
Maximum Record	Limited to drive size
Time Stamp	Time and 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	
ISEV-4	4-Channel Isolated Voltage 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 High Voltage Module (accepts up to 600 Vrms)
NIDX-16	16-Channel Non-isolated Differential Voltage Module (accepts up to 35 Vrms)
GENERAL	
Maximum Channels	32 (module dependent)
Engineering Units	User defined units with y=mx+b scaling
Pre-capture Filter	Lowpass, highpass, bandpass, bandstop
Advanced DSP	RMS, Integration, Differentiation
Post-capture Filter	Lowpass, highpass, bandpass, bandstop, RMS
Counter Modes	Gated time frequency counter, cycle based frequency counter, pulse counter, pulse width detector, period width detector, duty cycle detector, quadrature counter. (module dependent)

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, B, E, H for timecode synchronization
CAN bus	Support for CAN signal acquisition, 2 ports
Wireless	Wireless connectivity
UNIT POWER	
Input Voltage	14-24 VDC
Power Consumption	60 W Max (35W Typical)
AC POWER ADAPTER (INCLUDED)	
Input voltage	100-240 VAC
Frequency	50 - 60 Hz
Output voltage	19V DC
Maximum Power	70W
BATTERY	
Battery Type	Lithium Ion (rechargeable)
Charge Time	4 Hours
Battery Life	20 minutes on single charge
PHYSICAL	
Enclosure	Aluminum
Dimensions (inches)	323.9mm W x 180.3 mm D x 119.4 mm H (12.75˝ W x 7.1˝ D x 4.7˝ H) with endcaps
Weight	3.2 kg (7 lbs.)
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* **With solid state drive option*
Vibration	MIL-810-F Method 514.5, Procedure I* **With solid state drive option*

OTHER DATA AQUISITION PRODUCTS AVAILABLE FROM ASTRO-MED, INC.

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

DMX-8000: *The DMX-8000 features 8-16 channels, an exclusive full-color 12" advanced touch screen technology, and pre-defined set up options.*

Astro-Med, Inc
TEST & MEASUREMENT PRODUCT GROUP

ASTRO-MED WORLD HEADQUARTERS
600 East Greenwich Ave.,
West Warwick, RI 02893 USA
Toll-Free: 877-867-9783
Fax: (401) 822-2430
E-mail: mtgroup@astromed.com
Astro-Med.com

ASTRO-MED CANADA
3505 Suite O, Isabelle
Brossard, QC, J4Y 2R2
Tel.: (800) 565-2216
Astro-Med.ca

ASTRO-MED DEUTSCHLAND
Senefelderstrasse
1/T6, D-63110 Rodgau
Tel.: +49 (0) 6106-28368-0
Astro-Med.de

ASTRO-MED FRANCE
Parc Euclide
ZA la Clef de St Pierre
10A Rue Blaise Pascal
78990 ELANCOURT
FRANCE
Tel.: (+33) 1 34 82 09 00
Astro-Med.fr

ASTRO-MED UNITED KINGDOM
11 Whittle Parkway
Slough, Berkshire SL1 6DQ
Tel.: +44 01628 668836
Astro-Med.co.uk