

DASH 8HF-HS

HIGH FREQUENCY, HIGH SECURITY DATA RECORDER



- 8 channels of isolated inputs
- Capture continuously to 250 GByte hard drive at 2 MHz sample rate per channel
- 200 kHz bandwidth per channel
- Removable, lockable system and data capture drives (compatible with AstroDock accessory)
- GBit Ethernet, USB 2.0 for exporting data to your PC
- Link ports for synchronizing data capture between systems
- Pre- and post-capture filtering
- Compact, portable design

 **Astro-Med, Inc**
TEST & MEASUREMENT PRODUCT GROUP

DASH 8HF-HS



The Dash 8HF-HS is a powerful, compact and portable data acquisition recorder engineered specifically for capturing high frequency data and transient signals. It provides isolated inputs with sample rates up to 2 MHz and a bandwidth of 200 KHz per channel. The Dash 8HF-HS is the ideal system to give you an accurate record of your high speed data.

High-Speed Data Acquisition:

The Dash 8HF-HS offers intelligent, versatile data capture. Eight isolated analog inputs and eight event inputs can be streamed directly to a removable 250 GByte hard drive. Sample rates can be varied from 2 MHz per channel to 100 Hz per channel. You can even capture trend data at slower sample rates while embedding higher sample rate scope capture at the same time!

Isolated Inputs

A wide variety of voltages can be measured by the Dash 8HF-HS. From 100 mVFS to 800 VFS (0 V offset for 800 VFS range), the Dash 8HF-HS accommodates most of the popular recording parameters. Channel-to-channel isolation means you will never have to worry about cross-talk and signal interference again. Each channel input can be independently configured.

AstroDock Accessory

The AstroDock is a two-drive docking station that accepts the removable hard drives from any Dash HF-HS (high security) series recorder. The AstroDock connects to your PC via USB 2.0 and provides immediate review capability as well as direct transfer of data capture files to your computer.

Simply remove the 250 GByte capture drive from your Dash 8HF-HS recorder, plug it into the AstroDock and begin reviewing the data on your PC.....all in seconds. Insert a new capture drive in your Dash HF-HS recorder and continue to record data while you review and archive on your PC. Working with large data files has never been this fast and easy!

Large 15" Touch-Screen Display

The Dash 8HF-HS has a large 15" color display which allows you to view your data in real-time and post capture. Operation of the Dash 8HF-HS is quick and easy with the intuitive touch-screen display. Familiar Windows® icons and menus provide for straightforward setup and operation. There are no switches, push-buttons or other controls—complete operation is from the touch-screen. And, you can easily customize it to fit your exact needs. This means less setup time and more time for gathering data.

PC Interface

In today's environment, it is essential that your test equipment talk to your PC. The Dash 8HF-HS's GBit Ethernet port, USB interface, and off-line software make it easier than ever to do this. From setting the system up through your PC to uploading captured data from the hard drive, the Dash 8HF-HS seamlessly integrates with your computer. Best of all, the Dash 8HF-HS comes standard with PC-based review software, making it easier than ever to review data.

Rugged Enough For Any Environment

Test equipment is only useful if it will survive your most harsh environments. With its rugged case and compact design, the Dash 8HF-HS can handle almost any condition you give it. Whether you need to gather data in a steel mill, vehicle, power plant or in the comfort of your own office, the Dash 8HF-HS is the data acquisition recorder for the job.

Optional Strip Chart Recorder

An optional strip chart recorder is available for real-time or post-capture strip chart output. It provides hard copy output wherever and whenever you need it. Take it to the field for on-location printing of vital data, or leave it at the lab to print out certain parts of your test when you return.

Secure Your Data

Each Dash 8HF-HS recorder includes removable system and data capture drives—perfect for streamlining data transfer or securing classified data. Use the AstroDock to review and transfer large data files from the removable drives to your PC quickly and efficiently.



*Additional Dash 8HF-HS Accessories
(including SCR-8 Strip Chart Recorder)*

DASH 8HF-HS OVERVIEW SPECIFICATIONS

Color Display	
Type	Active matrix color LCD (TFT)
Viewing Area	15.0 inch (38.1cm) (diagonal)
Resolution	1024 x 768
Touch	Full screen, resistive
A/D Modules	
Maximum Waveforms	8
Event inputs	8
User Engineering Units	Yes
Calibration	Semi-automated to external reference
Pre- and Post-capture Filter	Advanced low pass, high pass, band pass and bandstop filtering
Isolated Input Module	
Connector	Guarded banana jack
Bandwidth	200 kHz 4 pole Bessel
Maximum Rated Input	± 250 Vrms or DC
Maximum Transient Input	± 800 V
Isolation	250 Vrms, channel to channel, channel to chassis
Specified Ranges	100 mVFS to 800 VFS (0 V offset for 800 VFS range)
Attenuator Ranges	1, 10, 50, 200 and 400 V
Accuracy (25°C)	± 0.07% of attenuator
Intrinsic Noise (pk-pk)	<0.2% of attenuator
Minimum Input Impedance	1 Megohm

Frequency Counter	Yes, on channels 1 & 5
Frequency Accuracy	± 0.005% of measurement
Recording	
Operational Modes	Scope, Review, Real-time (strip-chart)
Recording Method	Internal ATA disk drive, removable
Maximum Sample Rate	2,000,000 samples/second per channel
Minimum Sample Rate	100 samples/second per channel
Total Capacity	Over 100 billion samples
Maximum Record	Up to the drive capacity (250 GByte)
Data Stored	Raw (unfiltered) data is saved to the drive
Time Stamp	Time and Date automatically saved with data
Header	Information on units, range, sample rates, etc., saved with data
Data Filtering	Post capture filtering changes can be made
Events	Stored with data
Trigger Point	Amount of pre- and post-trigger data is user adjustable (0-100%)
Auto Re-Arm	Automatic stacking of captures
Interface	
Ethernet	10/100/1000BaseT

VGA	For displaying data on external monitor
Link Ports	For synchronizing data capture for multiple systems
USB 2.0	For connecting external hard drives, Flash Drives, etc.
Power	
Input Voltage Range	100 to 250 VAC
Frequency Range	47 Hz to 63 Hz
Power Factor	0.99
Physical	
Enclosure	Aluminum, with armored endcaps
Dimensions	12.1" H x 16.0" W x 6.6" D (30.8 cm x 40.64 cm x 16.84 cm) (not including handle)
Weight	22.5 lbs. (10.21 kg)
Environmental	
Operating Temperature	5 to 40°C (40 to 105°F)
Operating Humidity	10% to 90% non condensing
Compliance	
Safety	EN 61010-1:2001, UL 61010A-1, CSA C22.2 No. 1010.1-92
EMC	FCC Part 15, Subpart B, Class A, EN 61326
Power Harmonics	IEC1000-3-2

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OTHER EXCITING PRODUCTS AVAILABLE FROM ASTRO-MED



TMX: The TMX features up to 96 channels, an exclusive full-color 17" advanced touch screen technology, a dedicated, 1 TByte Removeable 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.



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