INSTRUMENTATION DATA RECORDER

Instrumentation signal recording, analysis, and playback

Rugged, cost-effective, multi-purpose, analog data acquisition and analysis system



IDR



Features

- High channel count options
- Playback
- Export via GigE, DVD or USB
- Timecode annotation
- Removable system and data drives
- Event Recording
- Several maximum bandwidth options
- Various chassis options, including TEMPEST Level III
- Signal Conditioning Modules (Current, High-Voltage, IEPE, Strain, Temperature, etc.)

Recording:

- Single-ended or differential
- Variable gain on all channels
- 16 or 32-bit format
- Simultaneous sampling up to the highest sample rate on all channels
- Duration only limited by disk size
- Wave64 or IRIG-106 Chapter 10 formats

Analysis:

- Signal level meters
- Signal level history
- Real-time FFT display of all channels
- Real-time high-resolution FFT of a single channel
- Multi-channel oscilloscope
- Extend analysis with SoundView installation
 single-resolution multi-channel
- Extend analysis with TrueView processing system
 - ♦ multi-resolution multi-channel
 - ◊ extended time history
 - ◊ aural listening/playback

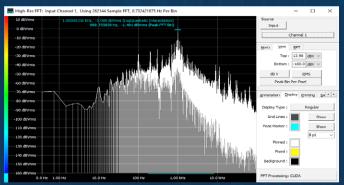
Playback:

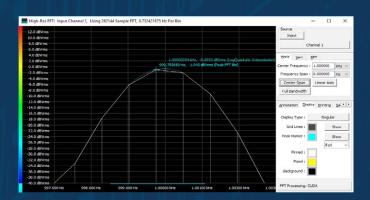
- 1:1 (input:output) signal reproduction
- Real-time data multicasting to thrid-party processing or custom software applications

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Technical Specifications

Analog

Option:

Signal Type: Sample Rate: Bandwidth: Quantization: Input Signal Range: Input Dynamic Range: Input Gain Mismatch: Input Gain Mismatch: Input Phase Mismatch: Input THD: Input Imgedance: Input Coupling: Input Filter: Output Signal Range: Output THD: Output Impedance:

Annotation Options

Voice Bandwidth: IRIG-B Timecode I/O Level:

Storage Media

Type: Form Factor: RAID:

Power

BXXX

A##

D##

CC

Input Voltage Range: Input Frequency Range:

Temperature

Operating Range:

-70K

Single-ended or differential 4 to 144 kSPS 70 kHz 24-bit {±1V, ±2V, ±5V, ±10V, selectable} 114dB (unweighted) 0.005 dB (0.1%) inter-channel ±120 ns inter-channel -100 dB @ -1 dB signal 1 MΩ DC {1Hz high-pass filter, selectable} {±1V, ±2V, ±5V, ±10V, selectable} -41 dB @ -3 dB signal 170 Ω

-01M

Single-ended or differential 64 to 4000 kSPS 1 MHz 24-bit {±1V, ±2V, ±5V, ±10V, selectable} 114dB (unweighted) 0.005 dB (0.1%) inter-channel ±10 ns inter-channel -70 dB @ -1 dB signal 1 MΩ DC

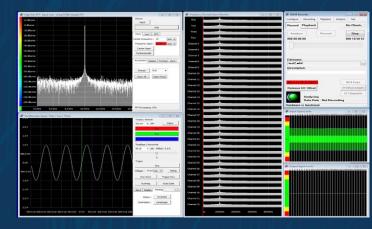
{±1V, ±2V, ±5V, ±10V, selectable} -41 dB @ -3 dB signal 170 Ω

4 to 8 kHz

2 VPP

SSD or HDD 2.5" 0, 1, 5

110-240VAC 50-60Hz



0 to +40°C

Ordering Options

IDR-BXXX-A##-D##-CC

Maximum Bandwidth Number of analog channels Number of digital channels Chassis

{70K: 70kHz, 01M: 1MHz}
{08 to 96 (multiples of 8)}
{08 to 96 (multiples of 8)}
{CN: 4U Rack (TEMPEST-III),
P: Portable,
R: 4U Rack,
W: Workstation }

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