

MotionPro™ Data Acquisition

Synchronized Data Acquisition System for Highspeed Cameras



SnapShot

- Multifunction Data Acquisition Module
- 16 analog input channels with programmable gains
- 4 analog output channels for waveform generation
- Internal or External Clock Source
- Various Triggers
- 500V Galvanic Isolation Barriers
- Plug & Play
- PC-Interface USB 2.0

Target Markets

- R&D / Testing
- Maintenance / Field Service
- Machinery Construction
- Production / Packaging
- Biomechanics / Sports



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MotionPro™ Data Acquisition – Specifications

Analog Input

Number of Inputs	16
Resolution	16-bit
Programmable Gains	1x, 2x, 4x, 8x
Ranges	±10, ±5, ±2.5 and ±1.25V
Single Channel A/D throughput	500 kS/s
Multi Channel A/D throughput	500 kS/s ± 0.05%
A/D Conversion Time	2 µs
Bipolar Input Range	± 10V
Output Coding	Offset binary
Max. Input Voltage (power off)	± 35V
Max. Input Voltage (power on)	± 20V
Input Impedance (channel off)	100 MΩ, 10 pf
Input Impedance (channel on)	100 MΩ, 100 pf
Bias Current	± 20nA
Non Linearity	< 1/2 LSB

Analog Output

Number of DACs	4
Resolution	16-bit
Throughput	500 kS/s
Output Range	± 10V
Data Coding	Offset binary
Output Current	± 5 mA
Output Impedance	0.1 Ω
Capacitive Driver Capability	0.004 µF
Protection Against	Short circuit to analog ground
Non Linearity	1 LSB

External A/D and D/A Triggers

Logic	TTL
Logic Low Input Voltage	0.8V
Minimum Pulse Width	25 ns
Trigger Source & Type	Software selectable / edge sensitive
Input Termination	2.2 kΩ, pull-up to +3.3 V
Logic High Input Voltage	2.0V

Miscellaneous

Dimensions	480 x 350 x 100 mm
Power Requirements	15 VDC @ 10 Watt, 100/240V Power Supply
Operation Temperatur Range	0° to +55°C
Operating Systems	Windows 2000 and Windows XP

Version: 20.10

Note: Specs are subject to change at any time.

