

HUMMINGBIRD**12 Channel
Ultra Portable
Acquisition
System**

- 12 Channels
- 80 KHz Bandwidth
- Ultra Portable
- Individual 24-bit ADCs Per Channel
- 96 dB SNR
- +/- 2.5, 5.0, 10.0 V Input Ranges
- Multiple Tacho Inputs
- AC, DC, ICP Input
- Gigabit Ethernet Data Link
- On Board DSP Capability
- Multi-Unit Sync Capability

**Overview**

Hummingbird is a new data acquisition system designed to provide a world class ultra-portable solution for low channel count dynamic data recording, real time monitoring and analysis requirements.

Hummingbird features 4, 8 or 12 analogue input channels:

- 24 bit delta sigma A to D converter per channel
- Synchronous sample rates 5-200 kHz (effective 80 kHz bandwidth)
- All inputs are configurable for AC, DC, ICP or Tachometer signals
- Each channel includes selectable ranges up to +/-1, 2, 5 or 10 volts
- Synlink interface to allow multi-unit operation
- < 1 kg weight

Hummingbird features a gigabit Ethernet connection, allowing acquired data to be streamed to any laptop or PC computer. The unit is constructed in steel and is robust enough for use close to the test vehicle with the PC located remotely.

It can also be used as a standalone data logger, recording broadband RMS values at a lower rate.

The Hummingbird is completely compatible with HGL's existing range of data acquisition, real-time monitoring, analysis and archiving systems.



Hummingbird Models

Hummingbird is available in 5 models

- Hummingbird Standard (4, 8, 12 channels) - no signal conditioning included
- Hummingbird ICP (4, 8, 12 channels) - ICP module included
- Hummingbird Professional (4, 8, 12 channels) - Available late 2006. Full signal conditioning module including:
 - ⇒ 1/4, 1/2 & full bridge strain gauges
 - ⇒ Constant Current / Voltage for dynamic strain gauges
 - ⇒ 7 gain ranges
 - ⇒ 4 filter ranges
- Hummingbird 16 bit - 6 channel low-cost variant of Hummingbird
- Hummingbird Hi-Speed - 1 MHz sampling 6 channel variant

Software

HGL Dynamics can supply Hummingbird with the following software options:

- Programmers API - allows basic control and data collection from the hardware
- Standard Acquisition and Monitoring Pack
- Rotating Machinery Pack
- Basic Modal Analysis Pack (Autumn 2006)

Data Formats

Hummingbird supports a number of data formats as standard:

- HGL standard data format
- HGL open tape format (new for Autumn 2006)
- DSPCon DATX format
- EDAS raw data format

Evaluation

HGL Dynamics is so convinced that the Hummingbird will revolutionise your portable data acquisition needs that it is offering to provide a unit to all potential clients for up to 3 months on an evaluation basis. Please call your local HGL office for more details.

Pricing and Availability

Hummingbird is now available for purchase or lease (with or without associated PC hardware). Please contact your local HGL representative for pricing options.



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