HIC^{PRO}

Wireless Head Injury Criterion Meter

HGL Dynamics

Pratical | Precise | Portable

Key Features

- Ultimate in Portable HIC Measurement
- Full Wireless Operation
- Built-in Removable Dytran Triaxial Accelerometer
- Built-in MEMS Accelerometer for Height Calculation
- 2+ Hours Operating Time (AAA NiMh Batteries)
- On-board Storage (SD Cards to 128GB)
- Onboard HIC & Height Indication

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Introduction

HIC^{PRO} represents the ultimate in handheld Head Injury Criterion measurement equipment. Within the ultra-compact handle it provides 3 axes of accurate acceleration measurement using a calibrateable Dytran 10mV/g Triax accelerometer. The handle also houses a MEMS based 3 axis Accelerometer and 3 axis Gyroscope for accurate height and attitude measurement.

The HIC^{PRO} includes a mdern ARM processor to calculate the Height and HIC value for each drop as well as determining the quality of each drop immediately after the drop is completed (< 100mS). Drop data is recorded to an onboard SD card (upto 128 GB capacity) and can also be streamed in real-time over Wifi to a connected PC, Tablet or Phone for instant display from a distance.

Power is supplied by 4 on-board AAA cells which can be either Alkaline (1+ hours) or NiMh rechargeable (2+ hours), When not in use the unit can be disconnected from the batteries via the simple On/Off switch. The use of standard AAA cells allows change of batteries within seconds for extended operation, as well as access to new batteries simply anywhere in the world..

HIC^{PRO} includes a built-in OLED display screen that indicates the Height and HIC value from the last drop locally to the user, for occasions when simple operation is required.

Portable

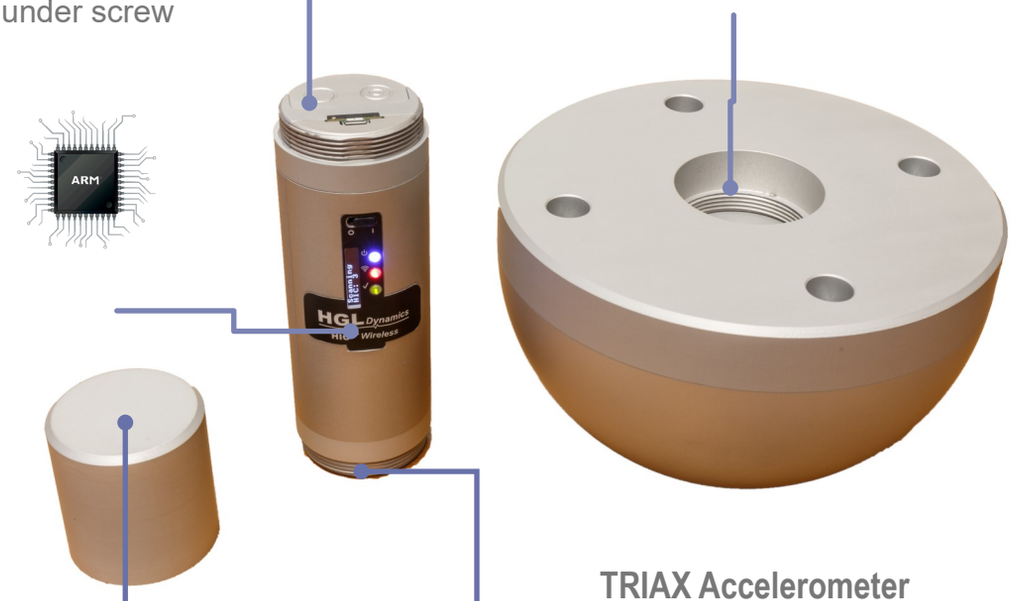
AAA Bateries, USB, SD Card

Replace Batteries & SD Card in < 10s
Secure Slide-lock Catch under screw lock End Cap

Powerful Processing
Embedded FPGA & ARM CPU
LED Indicators
OLED Text Screen
MEMS Height Triax

Impact Head

Milled and Anodised Aluminium



End Cap

Hand-drop: Aluminium
Magnetic: Steel & Delrin

TRIAX Accelerometer

10mV/g Removable Calibrateable

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Practical

SD Card Storage

Available Anywhere
Upto 128GB

Standard AAA Batteries

Available Anywhere

Precision Triaxial Accelerometer

10mV/g Dytran
Removable for Calibration

Simple On/Off Switch

Clear Indicators

Power LED
Wifi LED
Good Drop LED
OLED Display

Standard USB Interace

Tethered Operation
Data Upload

Precise

General

Dimensions (W x H x D):	160 x 160 x 260mm
Weight:	4,600g (+/-0.5%)
Supply Voltage:	4 x AAA Batteries
	5.0 V DC (USB)
Power:	1.5 W (typical)

Environmental

Operating Temp.:	-30 to 70°C
Storage Temp:	-40 to 85°C
Relative Humidity:	< 95% RH non condensing

Input Configuration

Input Channels:	3 Analogue, 6 MEMS
ADC Type:	Sigma Delta
Quantization:	16-bit
Input Ranges:	±10 V, ±1 V, ±0.1 V
IEPE:	4 mA
DC Offset:	< ±0.1 mV
Input Coupling:	AC, DC *
Input Impedance:	>100 kΩ
SNR:	>90 dB
Anti-aliasing:	<-100 dB
Sample Rate:	10 kHz
Frequency Response:	DC to >10 kHz ±0.1 dB
Battery Life:	2 hours (1000mAh), 3 hours (1500mAh)
Wifi Range	25+ metres (typical)
Accuracy:	< 0.5% (HIC error)
	<1% (Height reading)

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Training

Training

HGL Dynamics offers a wide variety of training workshops and courses. Workshops are conducted at one of our global offices or at the client's site by our training team, all of whom have many years' of industry experience and knowledge.

Typical training courses include: Vibration Fundamentals, Signal Processing, Rotating Machinery, Advanced use of HGL Software and Analysing Large Datasets.

Information

About HGL Dynamics

HGL Dynamics is a world-leading supplier of services and high specification equipment for the integrated capture, monitoring, analysis, storage and management of high bandwidth data.

Purchasing & Availability

The HGL Dynamics HIC^{PRO} is now available for purchase or lease. Please contact one of our HGL Dynamics offices below for further information or to request a quote:

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