



**DATA HARVEST**

# EASYSENSE VISION



COMPREHENSIVE • VERSATILE • SIMPLE • COMPATIBLE • RELEVANT

# EASYSENSE VISION

## USB Host

Connect: Mouse, Keyboard, Memory Stick, HP Printers (PCL)

## High Visibility Stylus

(or use a finger!)

## Power Button

(Instant on)

## USB Client

Connect VISION to a PC to:

- Transfer captured data from VISION to the PC for further analysis and reporting
- Use VISION as an interface and capture data using the FREE PC software

## VGA Connection

Connect VISION to any standard Projector or Monitor - Essential for teacher led presentations and student training

## Hi Resolution full colour LCD display

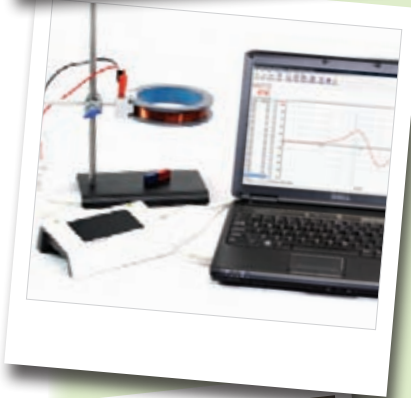
With the full EasySense software built-in. VISION has everything required to capture, display & analyse data.

ORDER CODE: 2020

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**Vision completely replaces the standard PC & Logger or Interface combination - a huge cost saving! (it can still be used as both a remote data logger and with a PC when required).**

- **4 SmartQ Sensor inputs** compatible with all SmartQ sensors
- **2 SmartQ Digital inputs** used as A & B for Time / Velocity & Acceleration experiments
- **Fast datalogging** for Physics (Up to 50,000 samples per second)
- **Long term remote datalogging** (Up to 14 days logging on a single battery charge)
- **Battery life** : A full 'classroom day' (User replaceable Lith-ION)
- **USB Client** : Mouse, Keyboard, Memory Stick, Printers etc.
- **USB Host** : Connect to a PC to run in interface mode and transfer data
- **VGA Connection** : Connect to a Projector or Monitor for whole class activities
- **High resolution screen** full colour, fast response to stylus or finger
- **EasySense software** looks and behaves the same as the PC version



## VISION Standalone

**Record, Save, Display, Analyse and more all from VISION (without a PC!)**

VISION is a full datalogger, offering all the features you would expect from a logger in the multi award winning EasySense range: general purpose classroom data logging, fast logging for Physics, long term recording for Biology & Environmental experiments and of course fully compatible with the SmartQ Sensor range.

VISION offers many new and exciting features including a full colour high resolution LCD touch screen. The graphing and analysis tools, normally only found on the PC are now built-in. VISION can even print out the graph\* VISION is truly a stand-alone data logger and analysis tool.

VISION has a large user memory for storing data files. Captured data can be transferred to a PC either by direct USB connection, or via a Pen Drive (Flash memory stick).

**Tip.** At the end of a lesson students can save their data to a pen drive and transfer it back to a school PC or take it home to analyse and write reports on their own PC.

\*VISION is compatible with a wide range of HP printers (PCL).

## VISION With a PC

**Connect VISION to a PC, and you can:**

- Use VISION as an interface, control VISION from the PC. Great for whole class demonstrations
- Data captured on VISION can be transferred to the PC and opened directly into PC EasySense software
- Workroom setup files can be transferred to & from VISION
- Use Windows Explorer to manage VISION's storage area - Delete, Copy, Rename etc

VISION to PC connection is simple and straight forward:

1. Connect VISION to the PC using the supplied USB cable
2. VISION will appear as a removable storage device on the PC (No special drivers required)
3. Use Windows Explorer to drag and drop files between your PC and VISION

## VISION With a projector

**Simply plug VISION into a Projector (or monitor) and it automatically switches from the built-in LCD to the connected display.**

This is absolutely essential in a classroom setting, required whenever you need to:

- Present a teacher led demonstration to a class of students
- Introduce an experiment to the class
- Share captured data from one group with the whole class
- Provide training on how to use VISION

Please note. When using VISION connected to a display, we recommend the use of a Mouse (USB, Wired or Wireless)

# EASYSense SOFTWARE

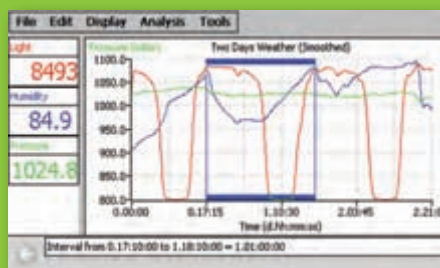
The EasySense software built into VISION looks similar and offers all of the features and functions of the PC version.

- Capture data using VISION
- Transfer it to the PC
- Simply open it in the PC EasySense software!



Don't forget you can download the PC EasySense software from [www.data-harvest.co.uk](http://www.data-harvest.co.uk)

It is completely FREE for use both in School and at home. This is the full version of this comprehensive software, not a 'cut down' or 'light' version. (future updates are also free!)

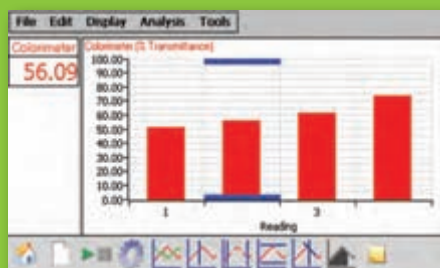


## EasyLog

EasyLog is simplicity itself, simply click on the start button and recording begins, clever automatic scaling of the time axis makes recording of data that simple. Very useful when the duration of an experiment is not known.

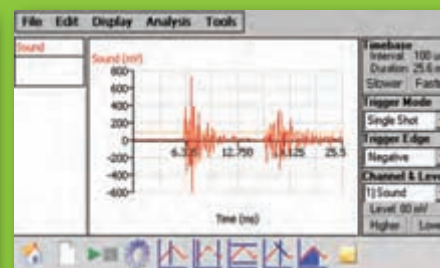
## Graph

Graph is ideal for the more experienced user, particularly when the duration of the experiment is known. Options for multiple graphs and comprehensive triggering are included. Logging rates can be set from one reading per hour, useful for long term biology experiments, to 50,000 samples per second essential for capturing that fast moving physics data.



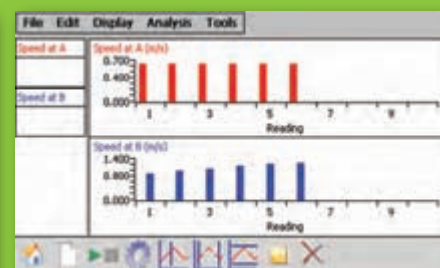
## Snapshot

This is very useful for recording data when a time base is unimportant. Simply clicking in the graph area records the sensor values at that specific point. eg for recording titrations and environmental monitoring etc.



## Scope

Scope mode allows VISION to act just as a traditional oscilloscope but with all the advantages of display that VISION gives so that the whole class can see. Comprehensive trigger options are included. When used with our ECG sensor the Scope mode displays a waveform similar to that as found in a hospital.



## Timing

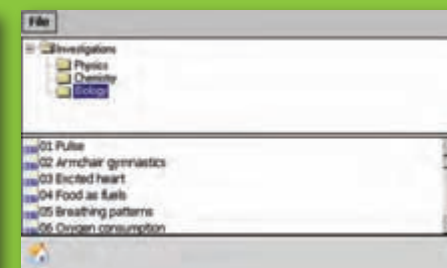
This very comprehensive program meets all the needs of the most discerning scientist. Great for use with Data Harvest's Dynamic System for measuring Time, Speed, Velocity, Acceleration, Momentum & Kinetic energy.



## Meters

Ideal as an introduction to sensors and how they respond to changes. In everyday life data is represented in many different ways:

- Analogue gauges such as thermometers
- Dials as in car speedometers
- Colour variation to show sensor changes
- Numeric display as in calculators



## Workroom

Experiment setup files are stored in the workroom. Each setup file automatically configures the graph and logging functions. Over 60 different setup files are supplied with VISION, covering Physics, Chemistry & Biology they are suitable for use with students aged 8 to 18+



# SENSORS

## THE SMARTQ DIFFERENCE

Beneath SmartQ's simple and bright exterior is a revolutionary architecture that dramatically enhances the intelligence, accuracy and value of our entire range of sensors. Among many of the remarkable improvements of the SmartQ design is the incorporation of a microprocessor that enables our production team to individually calibrate every single sensor digitally. You will be astounded by the accuracy and reliability of our sensors.

- **High Accuracy**
- **Robust & Reliable**
- **Auto Identification**
- **Auto Calibration**
- **No Batteries**



For full details visit [www.data-harvest.co.uk](http://www.data-harvest.co.uk)

### Sensors available

- Accelerometer
- Balance Adaptor
- Breathing Rate Belt pack
- Carbon Dioxide Gas
- Charge
- Colorimeter
- Conductivity pack
- Crocodile Clip Leads
- Current
- Drop & Bubble Counter
- ECG
- Force
- Gas Pressure
- Geiger Muller
- Heart Rate and Pulse Waveform
- Heat Flow
- Humidity
- Infrared
- Light Gate
- Light Level
- Magnetic Field
- Motion
- Oxygen pack
- pH pack
- Polar Heart Rate Exercise Sensor
- Pulse Tachometer
- Push Button Switch
- RF Electrosmog
- Rotary Motion
- Sound
- Speed of Sound pack
- Spirometer
- Stethoscope
- Temperature
- Timing Mats
- Ultra Violet
- Voltage



Carbon Dioxide Gas



Heart Rate and Pulse Waveform



Sound



Stethoscope

## ACCESSORIES



### 1 Low Cost USB Mini Mouse

**Order Code: 2031**

With a retractable cable for easy storage.

### 2 Low Cost USB Wireless Mini Mouse

**Order Code: 2032**

### 3 Mini USB Keyboard

**Order Code: 2030**

An alternative to the on-screen touch keyboard.

### 4 USB Pen Drive (Memory Stick)

**Order Code: 2033**

Offers students a quick and low cost method of taking their experiment results to a PC, either in school or at home.

### 5 4 Port USB Hub (Powered)

**Order Code: 2034**  
Allows the connection of multiple USB devices simultaneously (Keyboard, Mouse, Pen Drive etc.)

### Carry Case

**Order Code: 2035**  
Neoprene case, simple and robust design.

*Please note, VISION will operate with any standard USB Mouse, Keyboard, Pen Drive or USB Hub (Including wireless mice and keyboards etc.)*

## CURRICULUM BOOKS

- Over 400 practical student activities with teachers notes, in 9 volumes
- Each volume includes a CD-ROM with set-up files and PDFs
- Each subject area is grouped into experiments to suit student ages:  
**L2 - up to 14 year olds • L3 - 14 plus**
- Photocopiable resource
- Full listing of experiments illustrated on our website:  
[www.data-harvest.co.uk](http://www.data-harvest.co.uk)



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