

# K-MON GIZZMO ELECTRONICS

Thank you for purchasing the  
Gizzmo K-mon Knock monitor  
This manual contains operating  
instructions and installation  
procedures that are needed for  
the fitting and operation of this  
product



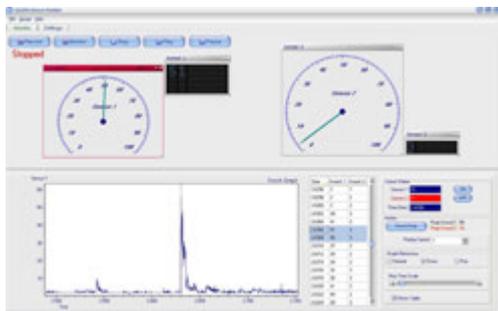
## Instruction Manual



## GIZZMO K-MON

The Gizzmo Kmon will help take your tuning to the next level. The Kmon was designed with leading tuners for tuners with endless hours of dyno development as a major component in the research and development process. Each headphone can independently be configured via the software to listen to different knock sensors e.g. on a RB26DETT you could

configure the left headphone to the front of the motor and the right headphone to the sensor on the rear of the motor or on the V8 one sensor could be used for the right bank and another for the left bank (please note that there Kmon comes with one sensor and sensor loom). There are two headphone jacks for the convenience of training a tuner or a second set of ears when tuning. The knock sensors used for the Gizzmo Kmon are the Bosch donut type that allow a



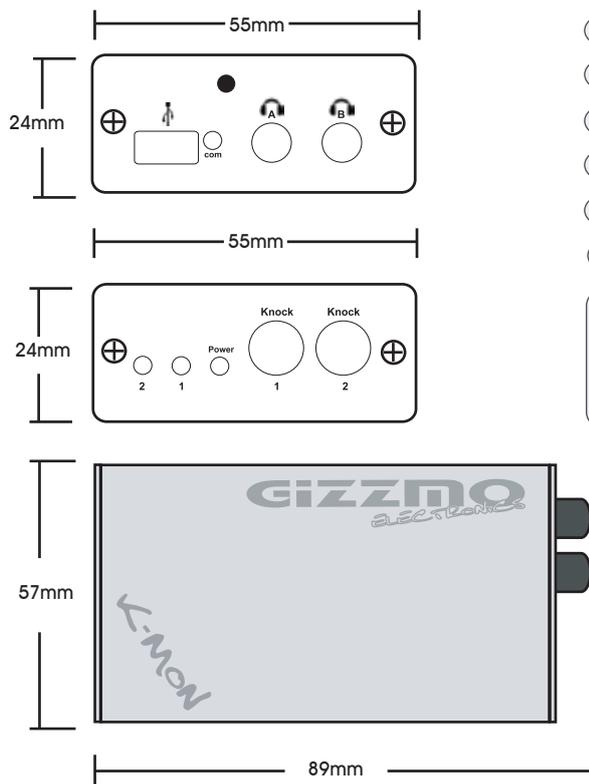
10mm threaded bolt through the centre for easy mounting. The software allows you to tailor the knock channels individually to the motor in addition to setting up the headphones as you desire. It is also possible to set the headphones up so that they are silent until a warning threshold is reached e.g. you can set a warning

level of 60% and if this threshold is exceeded the headphones will emit a loud, sharp buzz. After the software has been configured you can shut down the software and just plug in the Gizzmo Kmon (to a USB2 port) whenever you need it; the Gizzmo Kmon will always just return to your settings every time it is plugged in. The Kmon also has two analogue outputs so that you can log the knock levels into a dyno for comparisons against air fuel ratio's, boost etc. On the side of the Kmon are 4 LED's; one indicates power, one flashes showing communications and 2 ultra bright LED's illuminate if the knock threshold (previously explained) has been exceeded. Internally the Kmon is armed with 5 processors. 2 are 20mhz DSP processors (1 per knock channel), 2 are 48mhz RISC processors for number crunching, control and communications and the last processor is just for timing alignment.

## Functions/Specifications

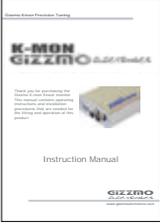
- 2 Independent Audio Output Channels
- 2 independent Knock Input Channels
- Each knock channel has configurable
  - \* Sensitivity
  - \* Centre frequency
  - \* Bandpass width
- Real-time Audio / Visual monitoring for each channel
- Configurable Knock Warning levels for each channel
- Real-time replay of data-logs for each channel
- Left and Right headphones can be dedicated to separate knock channels
- Pre and Post Audio filtering for each independent knock channel
- High Speed USB2 interfacing
- Plug & Play, no external power supply needed
- 0V to 4.5V analogue outputs per channel for analogous recording for external hardware e.g. analogue inputs for ECU's, Dyno's etc

## K-MON Specifications

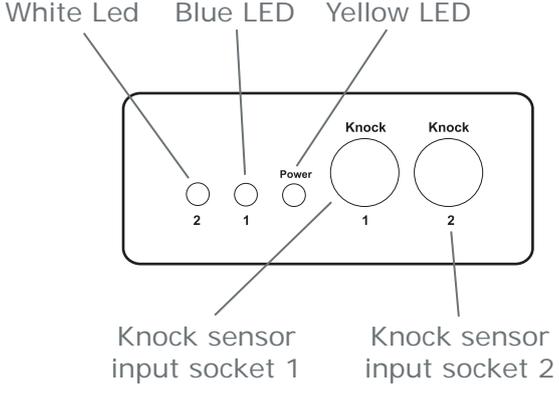
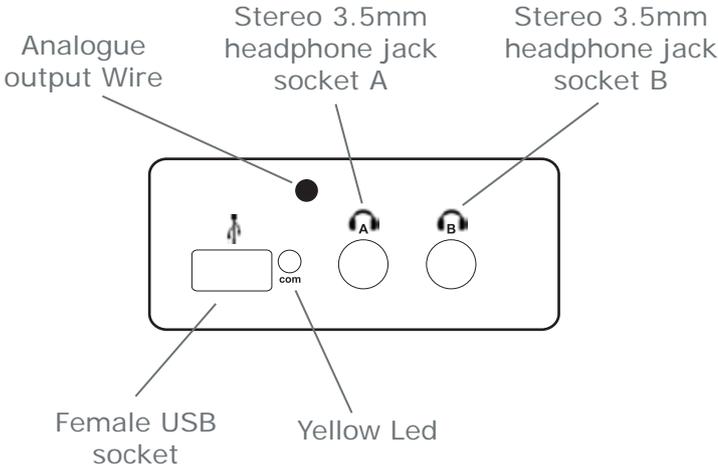


Audio Output Channel	2 independent
Knock Input Channel	2 independent
K~MON size	89mm * 57mm * 24mm
K-MON weight	105g
Operating Voltage (v)	5 V
Case Material	Anodised Extruded Aluminium
Processor	2 * 48mhz RISC processors 2 * 20mhz DSP processors 1 * 8mhz RISC processors

# K-MON Parts List

 <p>K-mon Module x1</p>	 <p>Knock Sensor x1 Knock Sensor Loom x1</p>	 <p>USB Cable x1</p>
 <p>HeadPhone x1</p>	 <p>Instruction Manual x1</p>	 <p>Software CD x1</p>

# Operating Instructions



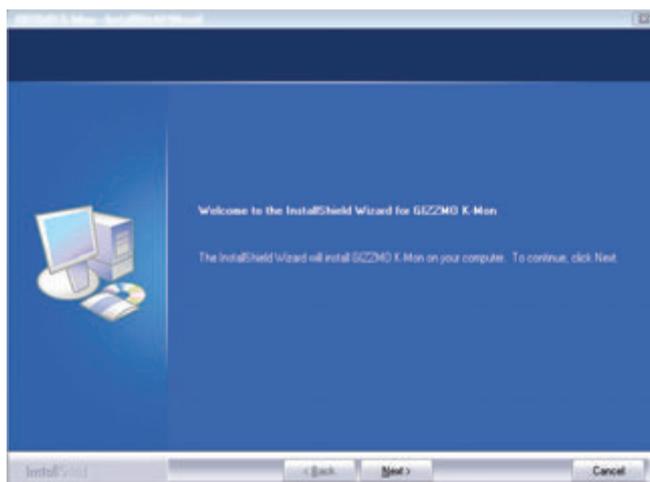
## Software Installation

The following information will guide you through installing the GIZZMO K-Mon software. Please read each step carefully to ensure the software is being properly installed. The following steps apply to Windows® 98SE, ME, 2000, and XP operating systems only. Please ensure you are using a supported operating system.

Insert the Gizzmo K-mon installation CD in the CD-ROM/DVD-ROM drive. The Gizzmo K-mon menu will appear. Click the **Click here to install GIZZMO K-Mon** The software installation menu will appear.



Click the **NEXT** This will start the installation of K-mon. Please follow the on screen instructions to complete the installation.



**NOTICE:** If you are not automatically prompted to install the GIZZMO K-Mon software you can perform the following actions to install the Software. Double click the My Computer icon located on your Windows desktop. Locate your CD-ROM drive icon. Using the RIGHT mouse button click the CD-ROM Icon. Using the left mouse button click OPEN. Double click the **setup.exe** (may be listed as **setup** without the .exe) to start the installation.

Notes:

# **GIZMO** *ELECTRONICS*

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