

DIAGNOSIS

D-SCOPE 2

**USB/WIRELESS
AUTOMOTIVE SCOPE**



D-SCOPE 2

Automotive scope, equipped with a USB.2.0 interface for the PC connection. Consents the analysis of all types of electrical and electronic signals present on board of the vehicle.

D-SCOPE 2 is equipped with an integrated Bluetooth® module.

MODULAR STRUCTURE

The modular structure of **D-SCOPE 2** enables the use of different measuring modules special to their typology of function in the same central unit. The 2 channel lab-module is supplied with the basic configuration, and its performances enable the analysis of fast signals such as CAN BUS, within a voltage range that goes from $\pm 100\text{mV}$ to $\pm 50\text{V}$.

The central unit is equipped with an internal memory in which to register minutes of acquisition.

The rich supply of accessories and optional measuring modules enables car mechanics building themselves an optimal configuration based on their own needs.

WAVE.NET

The powerful software **WAVE.net** enables the exploitation to the utmost of the instrument's capabilities, by integrating the classic LAB-SCOPE functions but with additional DMM and DATA LOGGER functions. Applicative is supplied with online helps that makes the learning of all available functions extremely simple. The automatic update via web enables operating with the last available version of **WAVE.net**.

LAB-SCOPE. The powerful graphic interface performed for the LAB-SCOPE function places at the user's disposal a series of standard functions (channel coupling configurations; selection of probe attenuation factor per channel, antistatic filter; wave-shape measuring rulers and cursors) that render the device extremely flexible for all kinds of diagnosis or for simple signal measurements.

DMM. Multimeter functions which are used together with LAB-MODULE, to measure voltage, electric resistance, current (with optional amperometric clamps) and diode tests.

PC DATA LOGGER. It enables recording in the PC the signals displayed during the functioning of the device; recordings shall be filed in a proper database and viewed subsequently.

STAND ALONE DATA LOGGER. An exclusive WAVE.net function, it enables the operator to memorise 2 measurement setups directly inside the scope (F1 and F2) and to use the device in the absence of connection to the PC, for the acquisition of signals.

The recording START/STOP buttons are commanded by simply pressing the corresponding buttons F1 and F2 present on the device. By subsequently connecting the device to the PC, using the WAVE.net software the operator shall be able to download the recordings performed for their visualization, analysis and filing.

TECHNICAL FEATURES

D-SCOPE 2 with LAB-MODULE

VERTICAL RESOLUTION	12 BITS
NUMBER OF CHANNELS	2 CHANNELS WITH A "COMMON GROUND" BNC CONNECTOR
INPUT IMPEDANCE	1 MOHM
BUFFER MEMORY	512K
MEMORY DATA LOGGER	INTERNAL MICROSD (256 MB MIN)
SAMPLING FREQUENCY	6MSPS
ANALOGICAL INPUT PASSBAND	0/3MHZ
VOLTAGE PRECISION DC	±1%
SCALE (VOLT)	FROM ±100mV A ±50V/us (± 500 V using the attenuator X10 on the probes)
INPUT OVERVOLTAGE PROTECTION	±100V
TIME/DIV	FROM 1US TO 50S
TRIGGER	INTERNAL PROGRAMMABLE ON CH 1 OR CH 2 IN AUTOMATIC, NORMAL OR SINGLE MODE

MULTIMETER FUNCTIONS (DMM-CH1)

AUTORANGE DC/AC VOLTMETER WITH A CAPACITY OF UNTIL ±50V (± 500 V using the attenuator X10 on the probes);
AUTORANGE OHMMETER WITH A CAPACITY OF UNTIL 1MOHM;
DIODE TEST WITH A TRIAL VOLTAGE OF 2VDCMAX

PC DATA LOGGER FUNCTION TO RECORD CH1 AND CH2 SIGNALS IN THE PC
STAND-ALONE DATA LOGGER FUNCTION FOR THE MEASUREMENT SETUP CONFIGURATION OF BUTTONS F1 AND F2
COMMUNICATION INTERFACE OPTOISOLATED AND/OR BLUETOOTH® V2.0 USB || POWER SUPPLY | 2,2AH INTERNAL RECHARGEABLE LI-ION BATTERY WITH AUTONOMY OF >8 HOURS |
| EXTERNAL CHARGER SUPPLIED | |

SYSTEM MINIMUM REQUIREMENTS FOR WAVE.NET

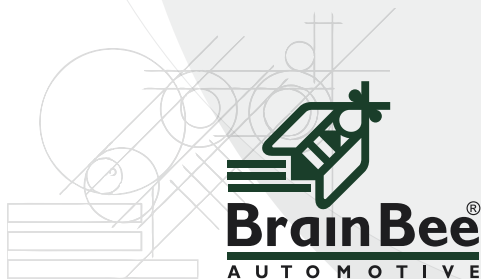
WINDOWS® XP OR HIGHER	
PROCESSOR	CELERON 1MHZ OR HIGHER
HARD DISK	100 MB FREE
MONITOR	16 BIT COLOUR DEPTH; MINIMUM RESOLUTION 800X600
INTERNET CONNECTION	RECOMMENDED FOR AUTOMATIC UPDATE

STANDARD SALE CONFIGURATION

D-SCOPE 2 central unit, with integrated Li-Ion battery pack
Measurement LAB-MODULE
Power supply 15VDC @18W for the battery charger
2 scope probes
Multimeter cable
Attenuator module 10:1
Accessories (crocodile clips and perforation rods)
Instructions manual
WAVE.net Installation CD
Case

OPTIONALS

DMO DataBank - Data bank with wave-shape samples and motor vehicle electric schemes
Motor tester module 6 Ch to measure high voltage and analyse ignition systems
AC/DC Amperometric clamps CC-60 for measurements until 60A CC-600 for measurements until 600A



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