

NanoDiag



MICROTECHNOLOGIES
FOR VEHICLE DIAGNOSIS



TEXA

NanoDiag

SMALL YET POWERFUL!

TOTAL DIAGNOSIS

QUICK AND SIMPLE

PROFESSIONAL

REDUCED SIZE

COST EFFECTIVE

Vehicle repair workshops are confronted every day with more and more vehicles containing sophisticated electronic technology used by manufacturers to meet emission, safety and comfort requirements.

The diagnostic tool they use must be as complete as possible, and able to cover a large range of makes and models with **innovative features to simplify and speed up the use and operation**. An additional requirement coming from the repair workshops is practicality, as diagnostic tools have become a requirement for many service operations. TEXA has responded to these requirements with the NanoDiag, which combines TEXA's traditional high performance characteristics with extremely compact **dimensions and weight: 70x48x2mm and 32g**.

The unit powers from the diagnostic socket and uses a Bluetooth connection to a Windows PC, removing any connecting cable problems. The build quality is of the highest standard, as this unit is produced in house on a robotic production line within our cleanroom. TEXA is indeed one of the few manufactures to offer such a unique solution.



Specially designed for the CAR environment, IDC4 software allows access via the NanoDiag for a full range of diagnostic functions.



SERVICE AND SYSTEM RESETS



READ AND ERASE SYSTEM ERRORS



SYSTEM PARAMETERS



GLOBAL SCAN



CONFIGURATIONS FOR SETTINGS AND ADJUSTMENTS



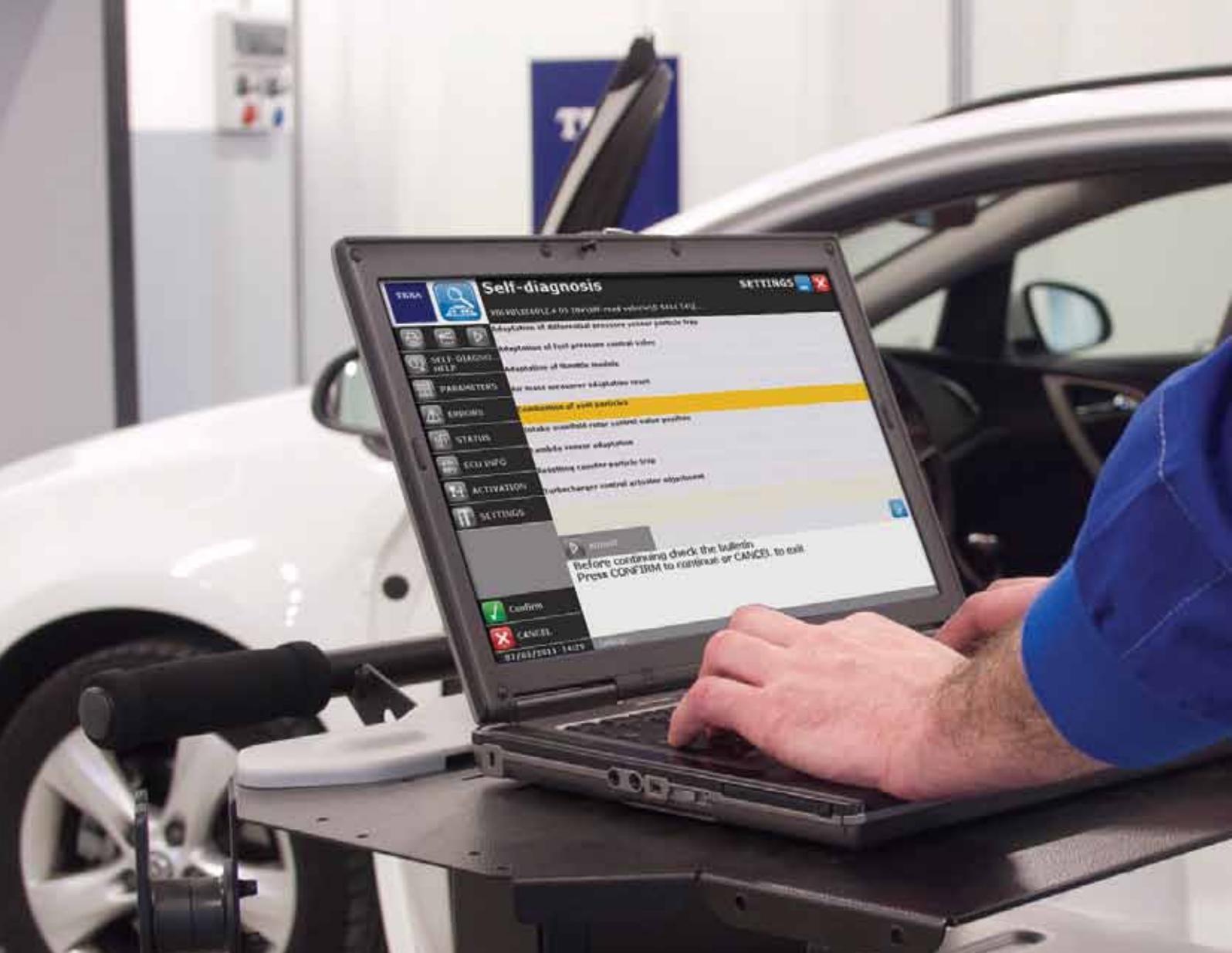
The NanoDiag, can also be used on pre OBD vehicles with specific adapters, and is combined with the new release of the IDC4 BASIC operating software from TEXA.

COMPLETE AND COST EFFECTIVE DIAGNOSIS

CARS AND LIGHT COMMERCIAL VEHICLES

ALFA ROMEO	ASTON MARTIN	AUDI	AUTOBIANCHI	BMW	CADILLAC	CHERY	CHEVROLET
CHRYSLER	CITROEN	DACIA	DAEWOO	DAIHATSU	DODGE	DR	FAW
IKCO	INFINITI	IVECO	LDV	FIAT	FORD	GAZ	GONOW
GREAT WALL	HONDA	HUMMER	HYUNDAI	INNOCENTI	ISUZU	JAGUAR	JEEP
KATAY	KIA	LADA	LANCIA	LAND ROVER	LEXUS	LOTUS	MAHINDRA
MAYBACH	MAZDA	MERCEDES-BENZ	MG	MINI	MITSUBISHI	NISSAN	OPEL (GM)
PERODUA	PEUGEOT	PIAGGIO	PORSCHE	RENAULT	RENAULT SAMSUNG	ROVER	SAAB
SEAT	SKODA	SMART	SSANGYONG	SUBARU	SUZUKI	TATA	TOYOTA
UAZ	VAZ	VOLKSWAGEN	VOLVO				

THE NEW IDC4 BASIC OPERATING SOFTWARE



The new IDC4 BASIC operating software is used for the NanoDiag which can be installed on any Windows PC through a simple guided setup procedure. This "Entry Level" version of the IDC4 software from TEXA, combines the **complete diagnostic functionality with ease of diagnosis and a speed of use**, and maintains the innovative features that have made IDC4 the ideal partner for every Car and Light Commercial workshop. **IDC4 BASIC** as part of the IDC4 software family from TEXA, and guarantees outstanding coverage of makes and models with approximately 100 manufacturers and over 300.000 possible diagnostic system selections, allowing you to have one universal tool and keep pace with the times.

NanoDiag can work also in combination with **IDC4 PLUS** version. Available also as an optional extra, in addition to the contents of **IDC4 BASIC**, this includes a database with the information on wiring diagrams, technical bulletins, service schedules and vehicle technical information.

And with the PLUS version of IDC4 (optional) there are is a multitude of information indispensable during a repair:



MECHANICAL DATA



WHEEL ALIGNMENT



AIR CONDITIONING



TYRE PRESSURES



TIMING BELTS/CHAINS



SERVICE SCHEDULES



ADDITIONAL
WIRING DIAGRAMS



COMPONENT LOCATION



FUSE POSITION
AND IDENTIFICATION



SERVICE ILLUSTRATIONS

...AND MANY OTHERS

EXCLUSIVE TEXA FUNCTIONS



“SOLVED PROBLEMS” FUNCTION powered by Google*

The “SOLVED PROBLEMS” which is powered by Google is at the forefront as regards to technological solutions, TEXA along with Google has implemented this optional feature in the IDC4 software. With an internet connection technicians can access the TEXA database to search for any previously identified solution to different problems, and through the use of the “Google” search algorithms, allows them to easily find any relevant data. It is an evolving platform, developed by the sharing of information from mechanics around the world filtered through the TEXA call centers.



STRAIGHT TO THE POINT!

Innovative short cuts in the application allow you to perform scheduled maintenance functions quickly, simply select the operation required from the list; and the software automatically connects to the electronic system functions, reducing the time taken to access the required function.



CONTINUOUS UPGRADE

The CONTINUOUS UPGRADE function, which TEXA has made available to its customer using an internet connection, allows them to download the latest software for new vehicles and new models as soon as it is available, without having to wait the next full software release. All this is provided through the latest and fastest servers, providing a reduction in the time required to download this information.



RECORDING FUNCTION

The RECORD & PLAY function allows a recording session of 8 selected parameters, providing the operator with data sampled every 0.25 seconds. Thanks to simple and intuitive graphical display, the mechanic can perform road tests safely, and review the data back in the workshop.

AN ECONOMIC DIAGNOSTIC SOLUTION

New technology has meant that many traditional mechanical systems are now electronically controlled, and often electronic access is required for component replacement or initialisation. TEXA's NanoDiag, in conjunction with the IDC4 BASIC software, gives the workshop a **simple, professional and economical solution that provides in depth diagnosis**. Simply select the make and model of the vehicle, and the software will offer all the features available on a single page to ensure efficient and quick operation. In these pages you can find just a few of the many examples of possible diagnosis.

PARTICULATE FILTER REGENERATION FOR VOLVO XC60

An accumulation of particulate matter greater than 80% in the Particulate filter, requires the technician to perform a forced regeneration with the diagnostic tool. With the NanoDiag you can make these complex and necessary operations using a very simple procedure. The technician just needs to follow the on screen procedures after selecting "**Combustion of soot particles**" from the settings menu and the IDC4 software automatically requests the ECU to perform this function.



CALIBRATION OF ZF AUTOMATIC GEARBOX BMW 3 SERIES E90

The Meccatronic ECU controls the gearbox on the BMW 3 Series E90. The replacement of an individual solenoid valve integrated directly into ECU, or even just changing the Gearbox Oil requires a calibration procedure. This is handled by the IDC4 software simply by selecting **“Component learning”** that allows the ECU to recognize the new components fitted to the system ensuring maximum efficiency.



EGR VALVE INITIALISATION RENAULT 2.0DCI M9R

The EGR valve does not always generate faults that can be resolved just by replacing the component, as these require a setup procedure to operate correctly. With the NanoDiag and its IDC4 BASIC Software thanks to its full diagnostic capability, you can complete the complex procedure of reprogramming this essential component through the dedicated adjustments menu **“Reinitialise EGR Valve”**.



COMPRESSOR REPLACEMENT VOLKSWAGEN TOURAN/GOLF VI

Electronic climate control systems are increasingly complex on modern cars, after the replacement of the compressor, a single solenoid control valve or the Climate control unit, you will be require 'Relearn' that the NanoDiag is able to perform (**“first use function of the AC Compressor”**). The tool performs a procedure for adaptation according to the component replaced and within minutes the air-conditioning system is set optimally.



BRAKE PAD REPLACEMENT WITH ELECTRONIC CALIPERS

The diagnostic access for the braking system becomes indispensable when you want to safely replace the brake pads. The NanoDiag allows operators to perform this essential procedure on many cars without using additional tools. The IDC4 BASIC software allows the release the brake calipers simply by accessing the menu. This performs the correct motor activation without creating errors that could affect its operation.

- PRACTICAL SOLUTION
- COST EFFECTIVE
- DIAGNOSTIC DATABASE COVERING 300.000 SYSTEMS
- EXCELENT COVERAGE -DRIVETRAIN, SAFETY, COMFORT, HYBRID, SERVICE SYSTEM COVERAGE
- SETTINGS AND ADJUSTMENTS TO COMPLETE THE REPAIR
- CAN BE USED DYNAMICALLY ON THE ROAD WITH THE IDC4 RECORD FUNCTION

TECHNICAL FEATURES

Processor: STM32F103G CORTEX 72MHz, FLASH 1024 Kbytes

Memory: SRAM 8 Mbit, NAND FLASH 256 Mbit

Operation voltage: 8 ÷ 16 Volt

Power consumption a 12 V: 0.2 A max

Wireless communication: Bluetooth (30m)

Pin adaption: 2 way, 13 independent positions

Diagnostic connector: OBD ISO 15031-3

Operating temperature: 0°C / +50°C

Storage temperature: -20°C / +60°C

Operating humidity: 10% ÷ 80% without condensation

Dimensions: 70 x 48 x 24 mm

Weight: 32 g

Diagnostic protocols

Flash codes (blink codes),

K, L (60mA current protection) ISO9141-2, ISO14230

CAN ISO11898, ISO11519-2,

SAE J1850 PWM,

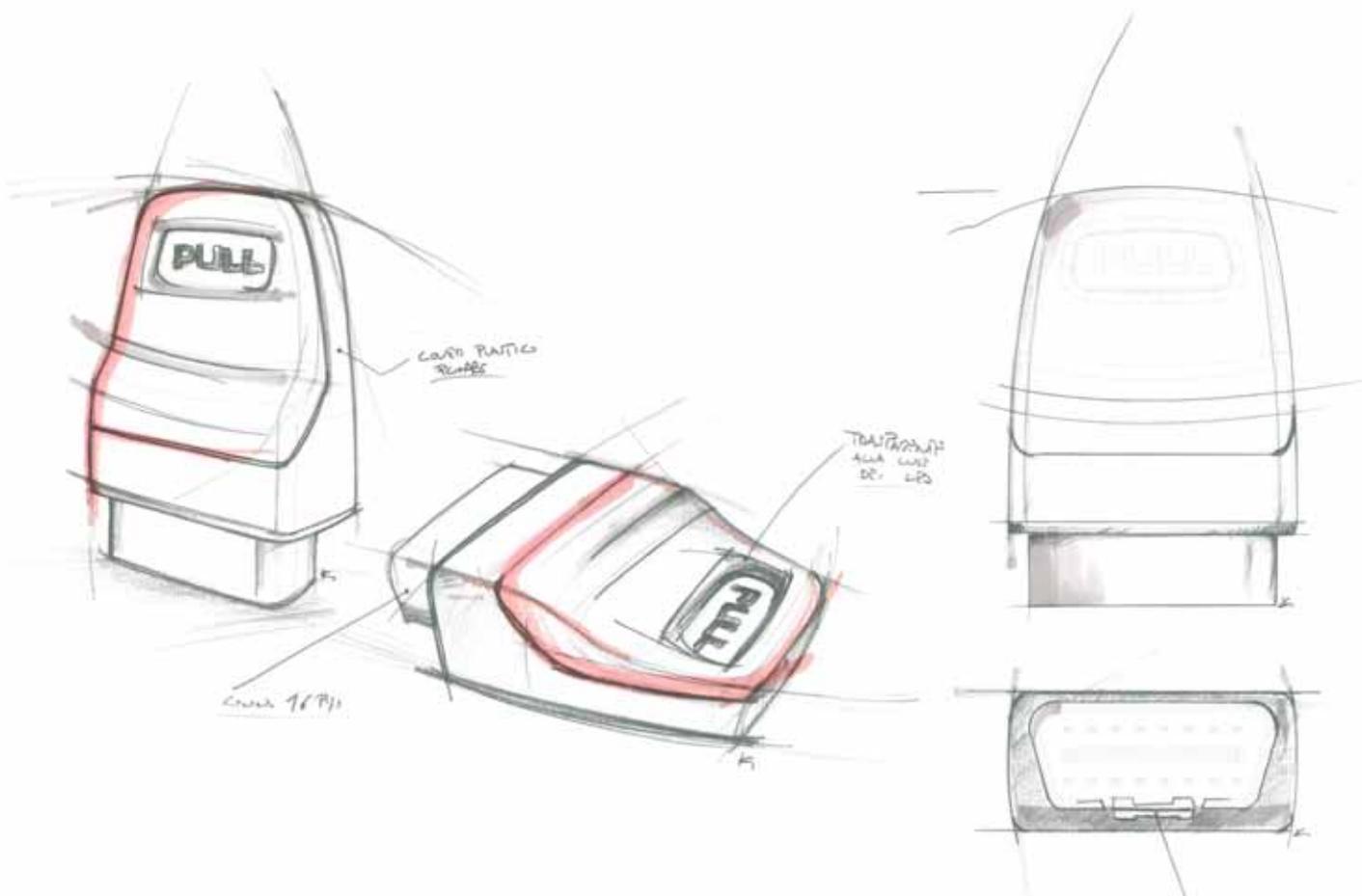
SAE J1850 VPW,

EOBD (all protocols) ISO15031-5, ISO15765-4

Legislative requirements

ETSI EN 301 489, ETSI EN 300 328,

CEI EN 60950-1, EUROPEAN DIRECTIVE 1999/5/EC



To check out the extensive coverage of TEXA products visit
www.texa.com/applicationlist

To view demos showing TEXA instruments in operation visit
www.texa.com/demo

For information on IDC4 compatibility and minimum system requirements go to www.texa.com/system



**ALL TEXA PRODUCTS
ARE GUARANTEED
FOR 24 MONTHS**

WARNING

The trademarks and logos of vehicle manufacturers in this document have been used exclusively for information purposes and are used to clarify the compatibility of TEXA products with the models of vehicles identified by the trademarks and logos. Because TEXA products and software are subject to continuous developments and updates, upon reading this document they may not be able to carry out the DIAGNOSTICS of all the models and electronic systems of each vehicle manufacturer mentioned within this document. References to the makes, models and electronic systems within this document must therefore be considered purely indicative and TEXA recommends to always check the list of the "Systems that can be diagnosed" of the product and/or software at TEXA authorized retailers before any purchase. **The images and the vehicle outlines within this document have been included for the sole purpose of making it easier to identify the vehicle category (car, truck, motorbike, etc.) for which the TEXA product and/or software is intended.** The data, descriptions and illustrations may change compared to those described in this document. TEXA S.p.A. reserves the right to make changes to its products without prior notice.

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 **MADE IN EUROPE**

TEXA

TEXA S.p.A.
Via 1 Maggio, 9
31050 Monastier di Treviso
Treviso - ITALY
Tel. +39 0422 791311
Fax +39 0422 791300
www.texa.com - info@texa.it