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**Advanced Test
Equipment Corp.**

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PRODUCT OVERVIEW



ULTIMATE TOOLS FOR TEST &



AUTOMOTIVE



AEROSPACE



ENERGY

I THINK I MENTIONED IN PREVIOUS EMAILS HOW DEWESOFT HAS MUSHROOMED HERE, BUT EVEN I DIDN'T KNOW HOW MUCH. I WAS INFORMED TODAY THAT THE DATA WAS BEING REVIEWED BY UP TO 50 TO 60 DIFFERENT CENTERS, ALONG WITH NASA PERSONNEL AS HIGH AS THE MANAGER OF THE ENTIRE SPACE SHUTTLE PROGRAM.
NASA KSC -



MEASUREMENT APPLICATIONS



CIVIL ENGINEERING

INDUSTRIAL

HEAVY MACHINERY

AGAIN, THANKS FOR ALL OF THE NEW FEATURES THAT ARE BEING INCLUDED IN DEWESOFT X. IT IS ALREADY A FANTASTIC PRODUCT AND DESERVES TO BECOME THE "MICROSOFT WORD" OF DATA ACQUISITION SOFTWARE.

GOODRICH -

SIRIUS[®] MOST FLEXIBLE DATA ACQUISITION SYSTEM EVER

FLEXIBLE CONFIGURATIONS Available in many form factors from four to thousands of channels

HIGH DYNAMIC DualCoreADC[®] technology provides amazing dynamic range

HIGH ISOLATION High channel-channel and channel-ground isolation prevents ground loops

SIRIUS MODULAR

Most flexible single distributable slices with USB and EtherCAT[®] interface



SBOX

Synchronised, highly reliable data logger and powerful data processing computer



R4

Integrated solution with 4 SIRIUS slices and powerful SBOX computer in one unit with real time EtherCAT[®] slave interface



DualCoreADC[®] slice: dual 24 bit with 160 dB dynamic range, 200 kHz rate, each of 8 isolated amplifiers in a slice can be chosen from

HD slices 24 bit, 200 kHz rate ADC; 16 channels per slice with



STG or STGM universal and strain gage amplifier



ACC or CHG for IEPE Accelerometer/microphone



HV for high voltage up to ± 1200 V



LV for powered sensor inputs



HD STGS universal and strain gage amplifier HD LV powered sensor input



HD ACC for accelerometer/microphone; HD LV BNC for 100 V voltage input

R8

Integrated instrument with 8 SIRIUS slices, powerful SBOX computer, optional 19" display (R8D) and batteries (R8DB) and real time EtherCAT® slave interface (R8rt)



R1DB/R2DB

Small size instrument with embedded computer, 12" display and batteries



R3

Up to 3 SIRIUS slices in a rack mounted lab unit with standard easy-to-upgrade computer



HS slices: with 16 bit, 1 MHz rate ADC, each of eight isolated amplifiers in a slice can be chosen from



STG or STGM - universal and strain gage amplifier



ACC for dynamic pressure sensors CHG for combustion pressure



HV for high voltage up to ± 1600 V



LV for high bandwidth current transducers

Optional inputs/outputs

Counter/encoder/digital IO with SuperCounter® patented technology perfectly synchronizes analog and counter angle data
Analog out 24 bit analog outputs
CAN bus interface



RUGGED DATA ACQUISITION SYSTEMS FOR HARSH ENVIRONMENT

EtherCAT®, DISTRIBUTED, IP67, EXTREME TEMPERATURES, SHOCK&VIBRATION



KRYPTON - CPU

EtherCAT

USB 2.0



KRYPTON® RUGGED SYSTEMS FOR HARSH ENVIRONMENTS

DISTRIBUTABLE DEVICES will bring data acquisition directly to the sensors

SINGLE CABLE with EtherCAT® interface up to 100m between devices for power, data and synchronization

MADE TO BE EXTREME IP67, dust proof, waterproof, 100g shock and vibration resistant, wide temperature operating range

KRYPTON® CPU

Compact, highly portable logger for data recording in harsh environments from -40 to +70 °C operating range



KRYPTON®

Ultra rugged and distributable data acquisition devices from -40 to +85 °C operating range

KRYPTON® 1 SERIES

Distribute your measurements down to a single channel



Wide variety of KRYPTON amplifiers:

8xTH, 16xTH isolated universal thermocouples module
3xSTG, 6xSTG differential universal and strain module
4xACC, 8xACC IEPE accelerometer amplifier

4xLV, 8xLV isolated voltage input module
8xRTD, 16xRTD amplifier for temperature
Sync junction with optional GPS

1xSTG isolated universal and strain amplifier
1xACC isolated IEPE accelerometer amplifier
1xLV DSUB powered sensor input
1xHV isolated high voltage module
4xDI, 4xDO four channel digital I/O amplifier
1xAO analog output

SIRIUS[®] AND SBOX WATERPROOF

SIRIUS DAQ TECHNOLOGY in rugged chassis, DualCoreADC[®], high dynamic range 160 dB, high isolation, SuperCounter[®]

SBOXwe

Ultra rugged and powerful
data logger from -40 to +50 °C

SIRIUSiwe

High-end signal conditioning
in rugged form factor
from -40 to +60 °C



Configuration examples:

SIRIUSiwe 8xSTGM 8-channel, universal strain gage amplifiers

SIRIUSiwe 6xSTGM,2xSTGM+ 8-channel universal strain gage amplifier with two counter inputs

SIRIUSiwe 16xHD STGS 16 channel universal strain gage input

IOLITE® DATA ACQUISITION AND CONTROL FRONT-END FOR INDUSTRIAL APPLICATIONS

DUAL EtherCAT® INTERFACE buffered data acquisition bus and real time control bus - at the same time
REAL TIME CONTROL AND FEEDBACK MONITORING for troubleshooting of real time applications
GREAT PRICE/PERFORMANCE for measurement, test bed and production applications
REDUNDANT POWER SUPPLY together with dual interface provides maximum system reliability

IOLITEr

19" rack version with up to twelve slots, dual EtherCAT® interface and redundant power supply



IOLITEs

SIRIUS style chassis with up to eight slots, dual EtherCAT® interface and redundant power supply



6xSTG universal and strain gage differential amplifier



8xTH isolated universal thermocouple amplifier



4xDI 4xDO isolated digital input/output amplifier

INSTRUMENTS AND ADAPTERS



MINTAURs

Versatile mixed signal data acquisition instrument and multichannel data logger with cutting edge technology at an attractive price



DEWE-43A

Award winning versatile data acquisition device with unmatched price/performance ratio



SIRIUS MINI

4 channel ACC SIRIUS module, perfect for mobile DSA/NVH applications



PCM FS2

Dual frame sync IRIG Class II decommutator with up to 40 MBit data rates



CAN INTERFACES

2, 4 and 8 channel USB CAN interfaces with support for XCP/CCP, OBDII, J1939, DBC and CAN transmit



DS-DISP12

Rugged, high resolution LED display for mobile, in-vehicle test and measurement applications



DS-BP2i, DS-BP4i

Hot swappable Li-ion battery solutions with least weight per power (90 Wh for BP2i and 180 Wh for BP4i)



DSI ADAPTERS

Will turn your channel in truly universal amplifier for 200V, thermocouple, RTD, IEPE, charge, current or LVDT



DS-CAM

300 or 600 fps GigE video cameras compress picture before transfer reducing bandwidth and disk space



GPS/IMU DEVICES

High accuracy positioning systems provide time, position and velocity information

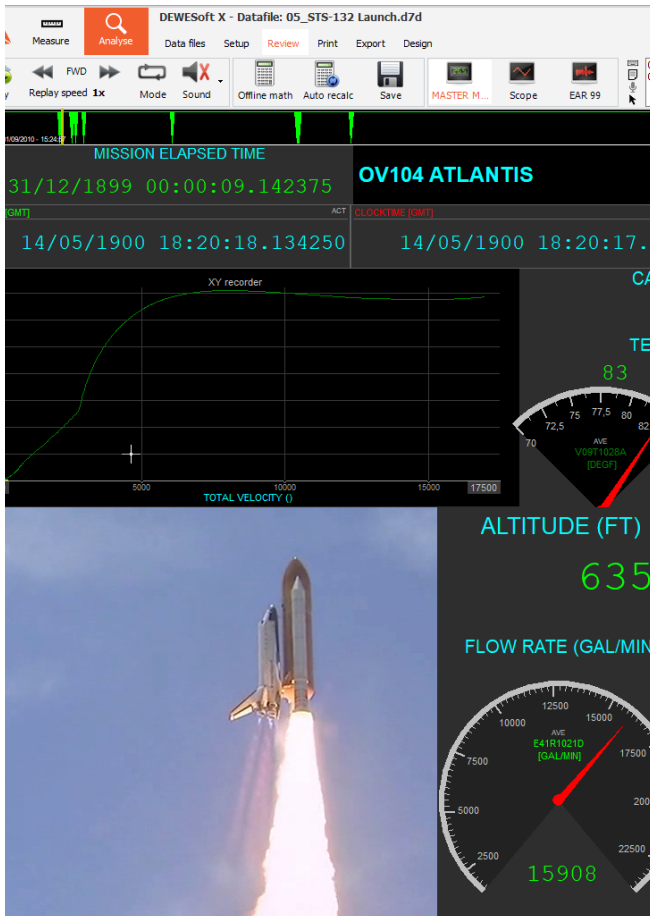
SENSORS

ACCELEROMETERS: Single axis, triaxial accelerometers and impulse hammers for vibration measurement and structural modal analysis

CURRENT CLAMPS: High-accuracy sensors for AC and DC current measurement. From current clamps, Rogowski coils to high-precision zero flux current transducers

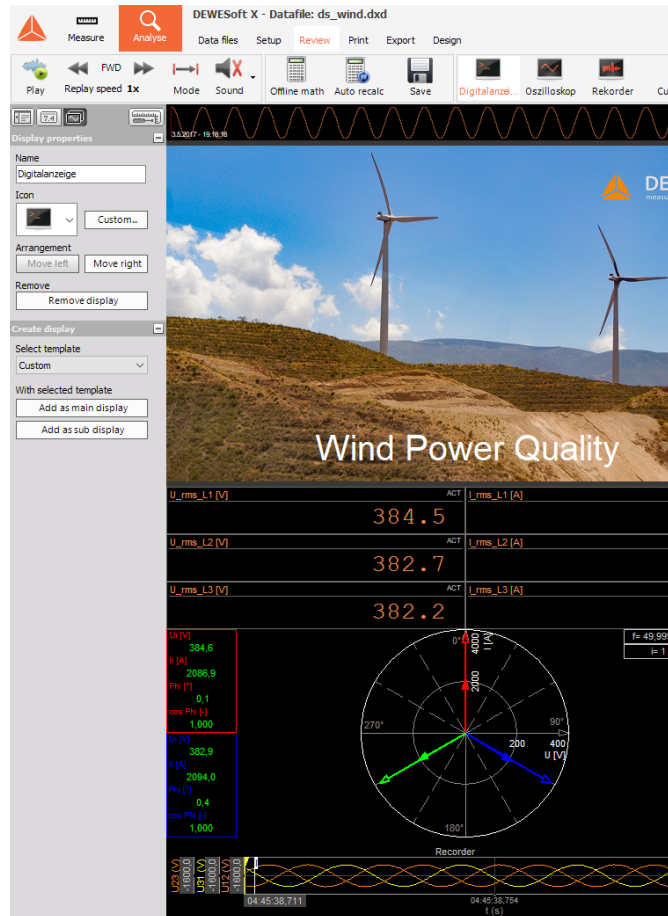
ANGLE SENSORS: A range of tacho and tape angle sensors can be used in applications like order tracking, rotational and torsional vibrations

SINGLE SOLUTION FOR EVERY



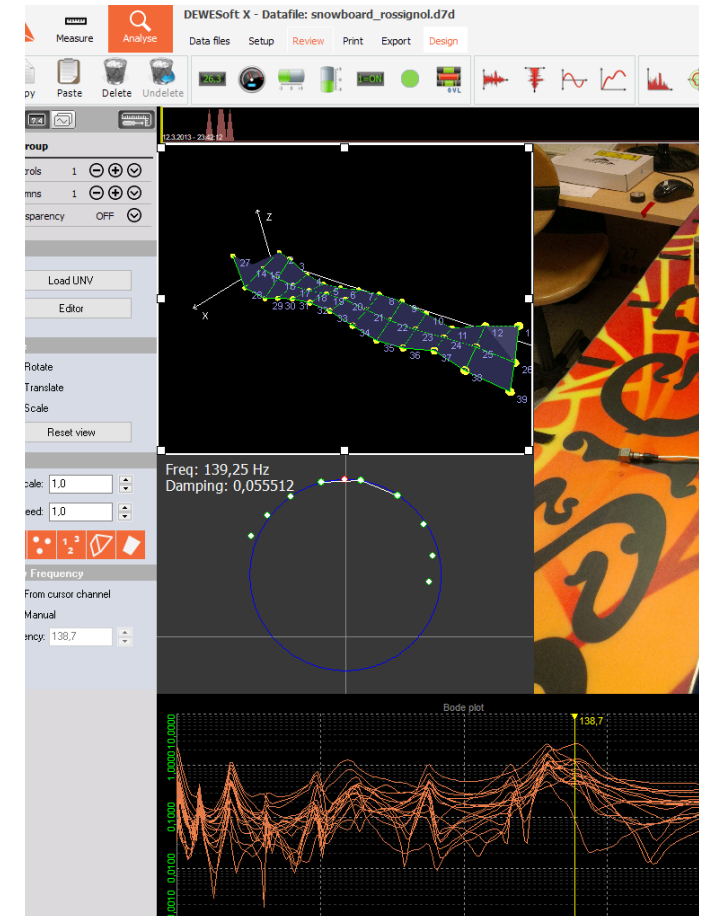
DATA RECORDING

Dewesoft systems are perfect for synchronized data recording from any source like analog, digital, video, vehicle bus systems, communication with other devices and high level systems. One single package for everything.



POWER

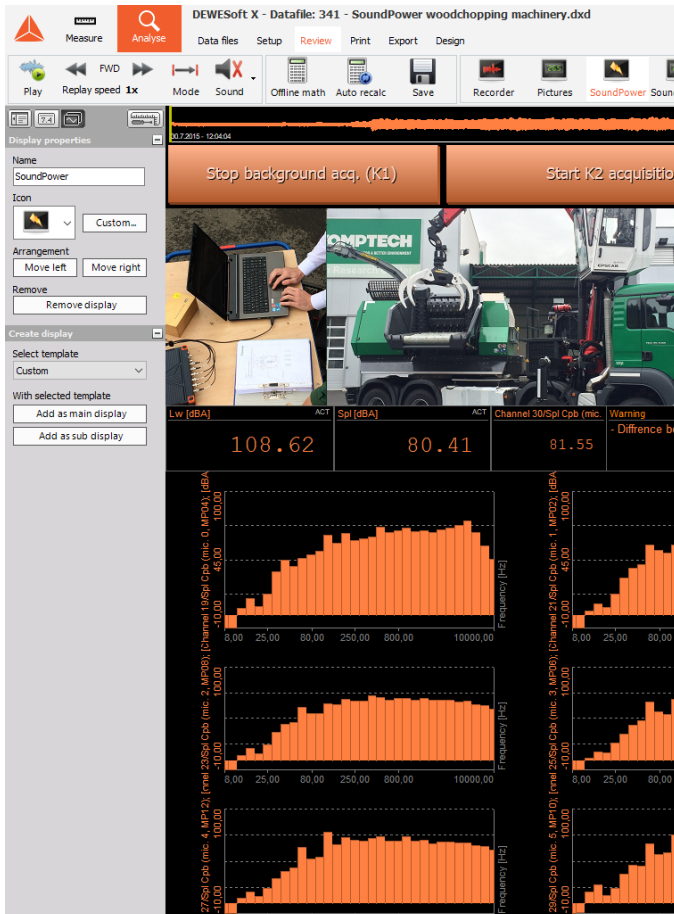
Dewesoft offers highly-accurate Power Analysis of motors, inverters, transformers, electric vehicles, etc. as well as sophisticated Power Quality Analysis such as analysis of Harmonics, Interharmonics, Higher Frequencies, THD, Symmetrical Components, Flicker and Flicker emission (according to IEC61000-4-30, IEC61000-4-7, IEC61000-4-15, IEC61400-21,...)



DSA / NVH

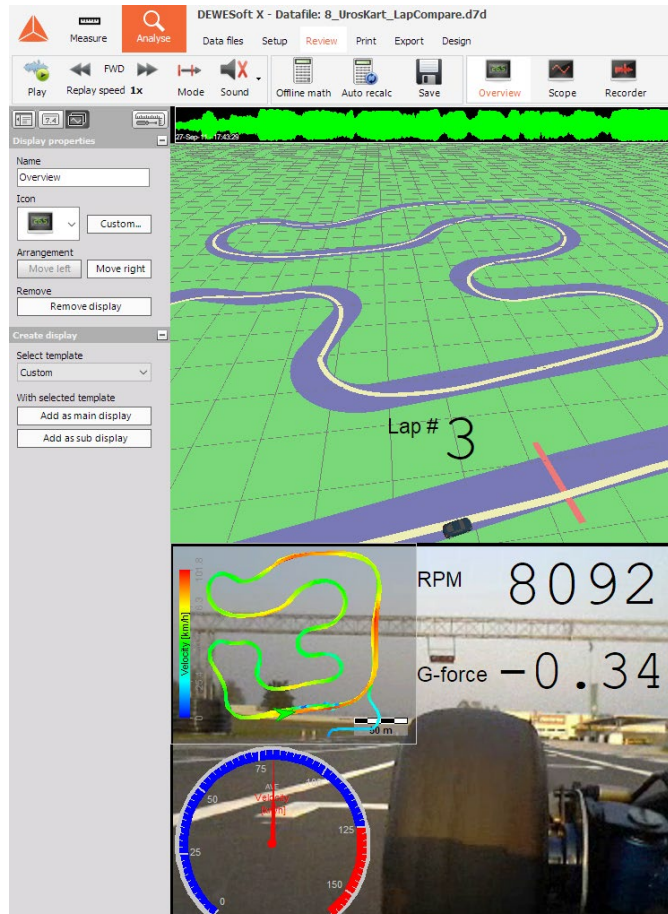
Dewesoft offers extensive NVH analysis tools such as FFT analyzer, rotating machinery diagnostics (Order tracking, Bearing envelope analysis, Cepstrum, Torsional vibration, Balancing), Modal analysis, SRS, Human vibration (ISO8041), ...

TEST & MEASUREMENT CHALLENGE



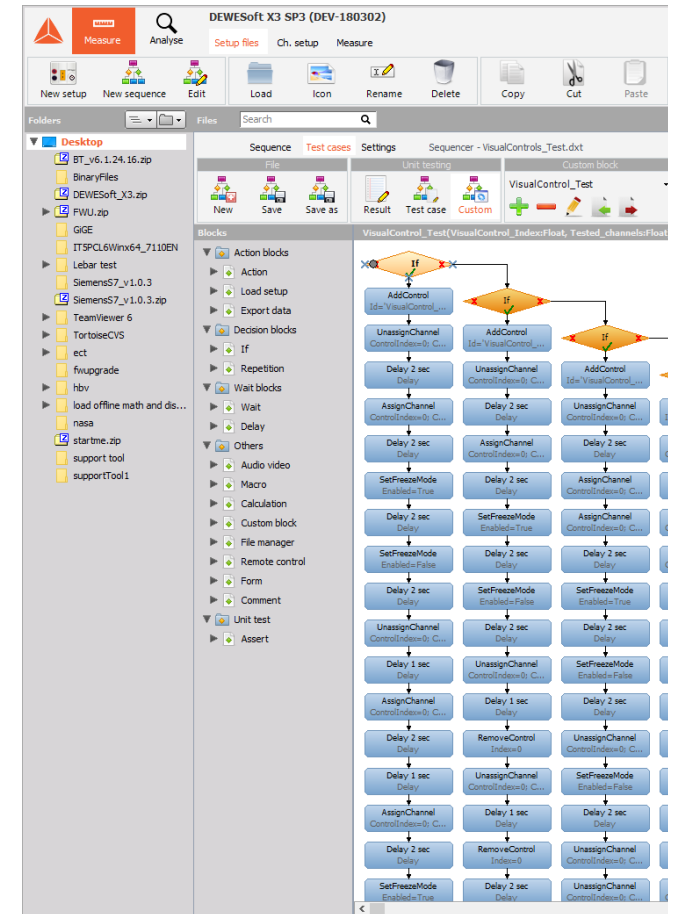
ACOUSTICS

SIRIUS DualCoreADC® systems are a perfect base for Sound level meter (IEC60651, IEC60804, IEC61672), Octave analysis, Sound power (IEC61260), Sound intensity (ISO9614-1&2) and Reverberation time analysis (RT60).



VEHICLE ANALYSIS

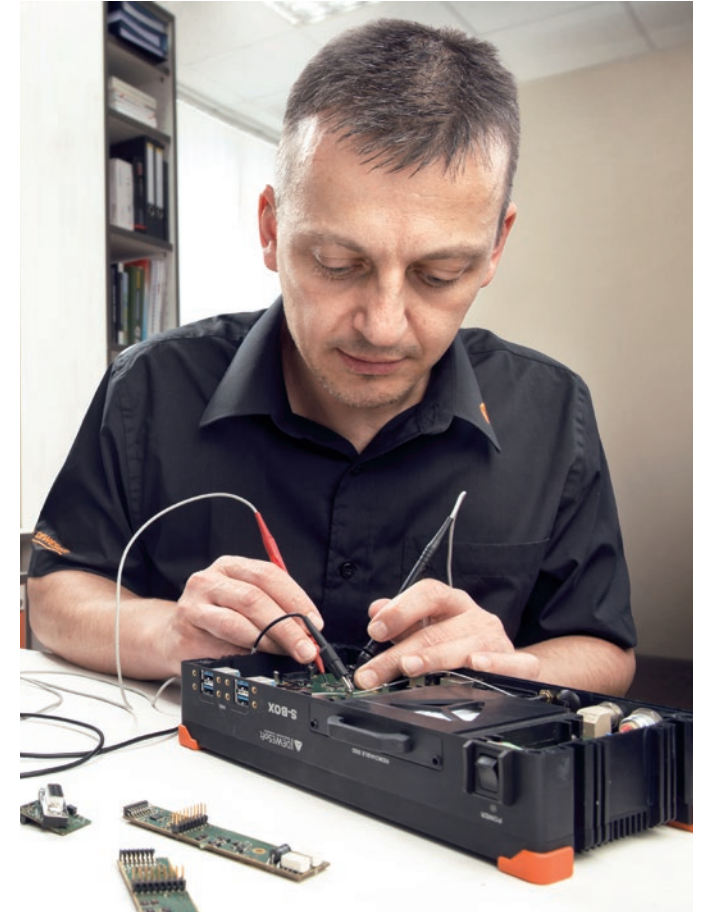
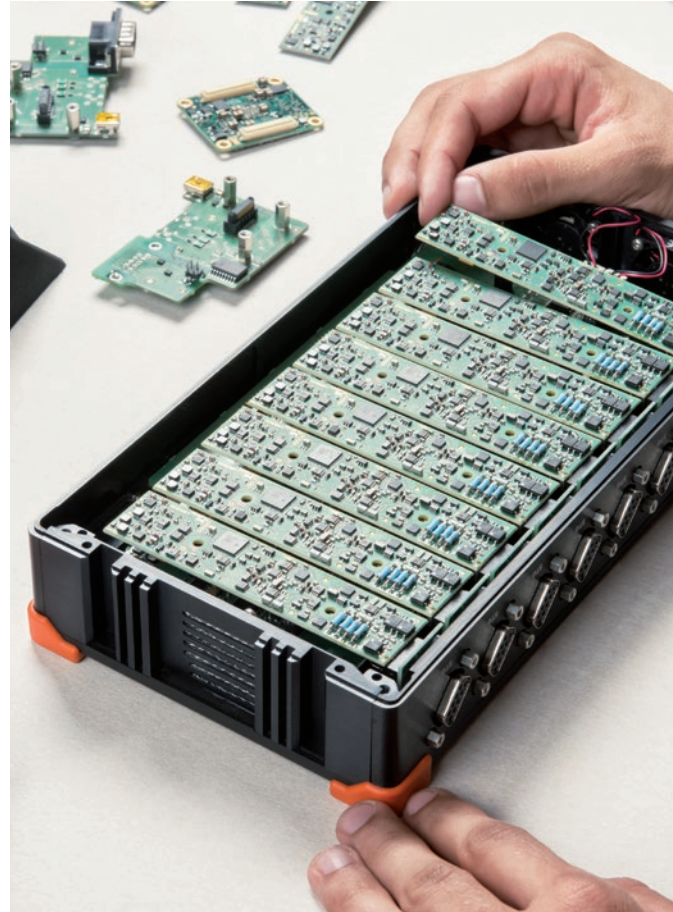
Dewesoft can perform Road load data analysis, Combustion analysis, Combustion noise, Brake test, Fatigue analysis, Polygon analysis, ADAS analysis, Pass by noise VTS suite can perform vehicle dynamic maneuvers like Constant radius cornering, Step Steer, Pseudo Random Steer, On center sinusoidal input, Pulse Input Method, Slowly increasing steer, Sine with dwell, ... according to standards.



AUTOMATION & CONTROL

Dewesoft systems can provide real time EtherCAT® data and Industry 4.0 OPC UA data streams. Dewesoft offers simple Sequencing automation tools and Programming interfaces to customized standard solutions to meet project needs (DCOM interface, Alarms, Open plugin math, visual control, export interface).

DESIGNED AND MANUFACTURED IN EU

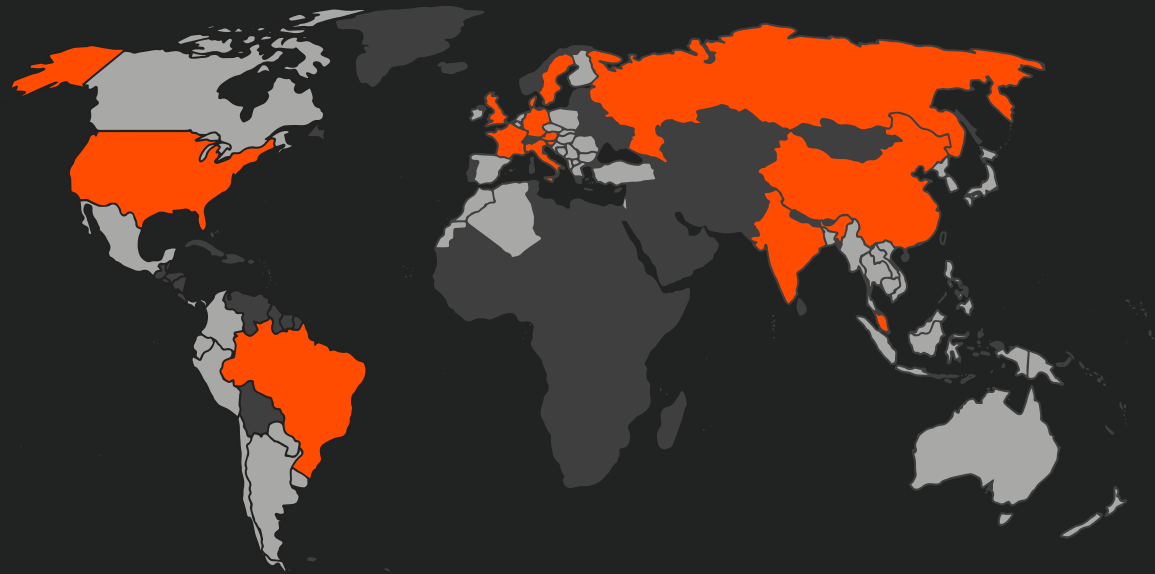


IN-HOUSE RESEARCH AND DEVELOPMENT, TESTING FACILITIES, PRODUCTION AND CALIBRATION SERVICES BACKED UP WITH HIGHEST ISO QUALITY STANDARDS ENSURE HIGH BUILD-IN QUALITY.

WHERE CREATIVITY MEETS PRECISION



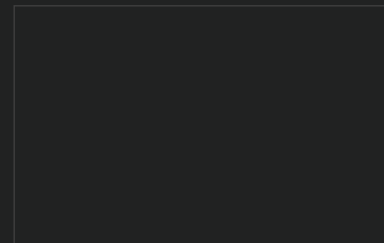
DEWESOFT COMPANY IS OWNED BY EMPLOYEES PROVIDING A LONG TERM COMMITMENT TO DELIVER PERFECTLY INTEGRATED HARDWARE AND SOFTWARE MEASUREMENT SOLUTIONS. OUR WORLDWIDE PRESENCE ENSURES HIGHLY RESPONSIVE SUPPORT EVERYWHERE AROUND THE GLOBE.



DEWESOFT® WORLDWIDE: SLOVENIA, AUSTRIA, BRASIL, CHINA, DENMARK, FRANCE, GERMANY, HONG KONG, ITALY, INDIA, RUSSIA, SINGAPORE, SWEDEN, UK, USA. PARTNERS IN MORE THAN 50 COUNTRIES

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