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AEROSPACE AND DEFENSE

Exposants / Sponsors Gold

16 mai 2019



ARCALE

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ARCALE



SPHEREA

ELECTRONIC WARFARE

ELECTRONIC/POWER TEST BENCH

HIL TEST BENCH



TOULOUSE

ELANCOURT

GRENOBLE

NANTES

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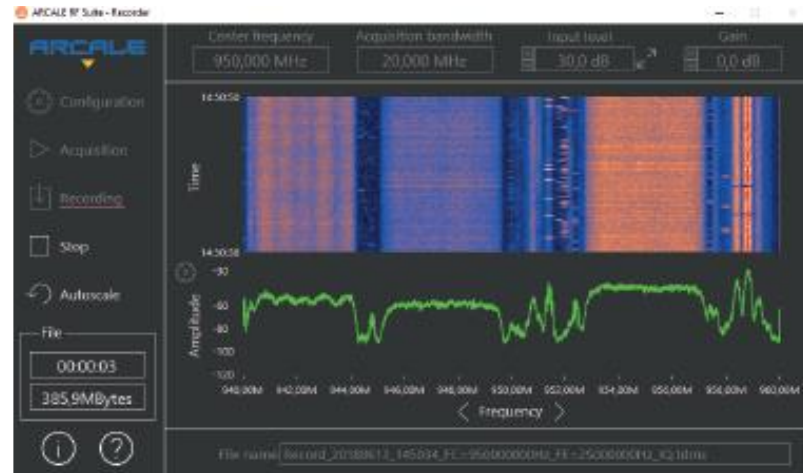


ARCALE



SPHEREA

ARCALE RF SUITE IS A MODULAR SOFTWARE WITH ACQUISITION, RECORDING, PLAYBACK, GENERATION AND ANALYSIS FOR RF SIGNALS.



OPTEL THEVON

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OPTEL  THEVON
PARIS

GEAR HEALTH MONITORING
TORSIONAL VIBRATION & TORQUE
MEASUREMENT
BEARING QUALIFICATION
OPTICAL SYSTEM ADJUSTMENT



TOULOUSE

LILLE

PARIS

MARSEILLE

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DEVELOPING AN EMBEDDED METHOD FOR TORSIONAL VIBRATION ANALYSIS AND TORQUE MEASUREMENT USING LABVIEW AND NI COMPAQ RIO

Torsional Analysis with Torque Measurement Method on rotating machines
Speed measurement with Optical sensors
Customer: confidential

PHALANX

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Phalanx
La compétence à votre côté

TESTEUR COMMANDES DE VOL – CRIO

ANALYSE AUTOMATIQUE D'ESSAIS – DIADEM

MESURES SUR COMPOSITES – PXI



44 ALLÉE DES 5 CONTINENTS,
44120, VERTOU

TEL : 02 40 94 07 37

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Phalanx
La compétence à votre côté

CONCEPTION D'UN OUTIL DE MESURE POUR LA FABRICATION DE COMPOSITES

Recherche d'une méthode de fabrication de composite "0 défaut"

Lecture courant de Foucault

Ensemble PXI et LabVIEW

Paramétrage complet et intuitif



SET

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AVIONICS & EMBEDDED ELECTRONICS

HIL & FUNCTIONAL TEST SYSTEMS

LRU PROTOTYPING & SERIES PRODUCTION



WANGEN/ALLGÄU

MUNICH

DUSSELDORF

EASTHAMPTON

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DEVELOPMENT OF A MODULAR, COST-EFFECTIVE & TIME-SAVING FLY-BY-WIRE FLIGHT CONTROL SYSTEM

Flight Control Computer | Input / Output Module | Actuator Control Module |
Data Acquisition Module | Smart Electromechanical Actuator | Power
Distribution Module

Digital design based on PowerPC architecture

Scalable to meet individual system safety / availability requirements

Standardized communication interfaces providing ARINC 429, FlexRay,
CAN and Ethernet

Ruggedized design to meet RTCA-DO 160 environmental requirements

TECHNICOME.COM

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VDATS • 9050 VXI

VPC's 9050 VXI integrated into the US Air Force's Versatile Depot Automatic Test Station—Digital Analog version 2 (VDATS DA-2), to automatically test avionics circuit cards.

iCon 9050 VXI

 **TECHNICOME.com**
VPC Virginia Panel Corporation



AIRBUS

 AIRBUS
HELICOPTERS

 DASSAULT
AVIATION

MBDA
MISSILE SYSTEMS

 SAFRAN

THALES

ZODIAC
AEROSPACE 



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FXI 9021 LXV NGATS

VPC's interface will support the US Army's Next Generation Automatic Test Station (NGATS). The open-system architecture of NGATS provides flexible and reliable support to various testing requirements in a joint capable strategy.

FXI 9021 LXV VIPER/T • 9025 VXI

VPC's 9025 VXI integrated into the US Marine Corps' Virtual Instrument Portable Equipment Repair/Tester (VIPER/T) automated test system.



50+ YEARS OF SUCCESS

- JSF
- LANTIRN
- CATES
- PACIII
- EuroFighter
- TETS
- VDATS
- MATE
- C17
- B2
- F-16
- E-35
- B52
- K-SACE
- F-22
- RAF
- F-15E
- SHUTTLE
- BART
- C-130

MASS INTERCONNECT SOLUTIONS

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AVERNA

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**TESTING LIFE-CRITICAL RF DEVICES FOR THE
BATTLEFIELD**

**RP-6500: 500MHZ WIDEBAND RF RECORD &
PLAYBACK**

**GPS SYSTEM FOR AN EXECUTIVE JET FLIGHT
SIMULATOR**



BELGIUM

POLAND

UNITED STATES

NETHERLANDS

CANADA

JAPAN

MEXICO

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RP-6500: 500MHZ WIDEBAND RF RECORD & PLAYBACK

- Better performance, more features and lower price than competition
- Combination of a real-world RF record & playback and a real-time GNSS Simulator
- Can also capture most standard RF signals and more:
 - AM/FM, Bluetooth, WiFi, GNSS (L1, L2, L3, L5), RDS/TMC, IBOC, HD Radio [FM], Satellite Radio, DAB, DVB-T, ATSC, etc.*
- Includes RF Studio for quick setup, R&P, analysis, storage



CENTUM ADENEO

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PRODUCTION TEST BENCH



HIL SIMULATOR



EMBEDDED ACQUISITION SYSTEM



DAQ cRIO FPGA

ELECTRONIC PROTOCOL SIMULATOR: NI FPGA + VHDL

ELECTRONIC SPECIFIC DESIGN: cRIO, FLEXRIO, SLSC
ADD-ON MODULES



LYON

PARIS

TOULOUSE

GRENOBLE

CHARLEROI

BANGALORE

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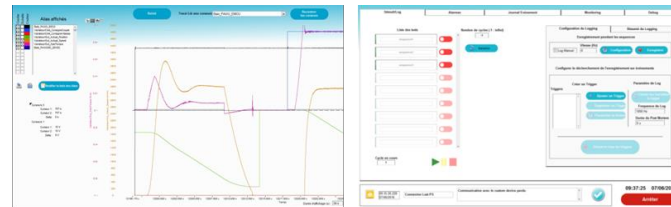
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DYNAMIC SOFTWARE NEOVESTA

BASED ON VERISTAND FOR DYNAMIC MEASUREMENT & SIMULATION

- Customizable test sequence
- Management of alarms - possible stop of the sequence in case of critical problem
- Manage recording/ manual, automatic trigger & trigger with Post Mortem recording
- Event log
- IHM customizable via configuration file
- Selection of elements displayed on graphics
- Tests performed under a real-time environment, with a fully customizable test report



DAM GROUP

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PPU HIL TEST BENCH FOR PLASMA THRUSTER

Different PPU tester possibilities:

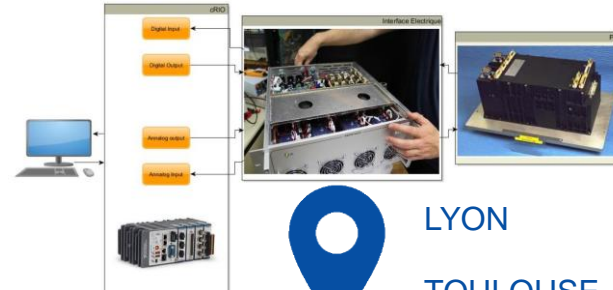
exemple 400V/8A | 300V/15A

Resistive load:

- 16 Ohm to 4.5k Ohm | Step: 30 Ohm
- Pink noise or Adjustable noise | Frequency band: 20 to 40 kHz.
- Power consumption: up to 5 kW

Magnetic charge: 20 to 100mH adjustable by step of 20mH

Software : LabVIEW Realtime and FPGA on cRIO



LYON

TOULOUSE

ALES

SHANGHAI

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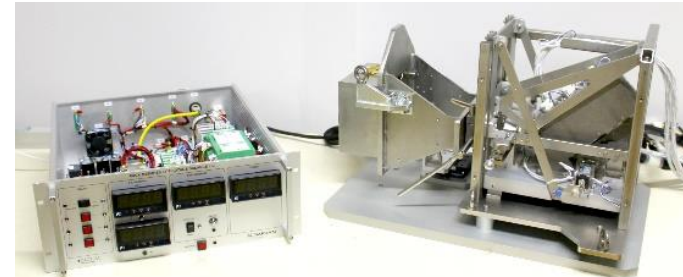
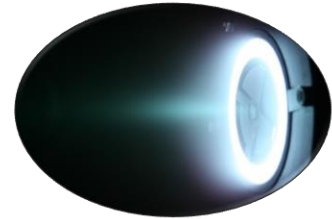


PLASMA THRUSTER BALANCE

Dynamic and precise measurement of thrust

Thrust measurement by electrical compensation

Measurement and control handle by LabVIEW RT and FPGA on single-board RIO



LYON

TOULOUSE

ALES

SHANGHAI

LGM INGENIERIE

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A PROPOS DE NOUS

La connaissance et la capacité d'intégration des produits COTS, la capacité à développer des cartes spécifiques et le **partenariat GOLD avec National Instruments**, font de LGM Ingénierie un acteur majeur dans le monde du moyen d'essais.



Nos solutions s'articulent autour de briques technologiques accélérant et fiabilisant le processus de développement tout en vous garantissant la propriété intellectuelle complète de la solution livrée.

NOTRE OFFRE SUR MESURE

- Des briques technologiques réutilisables
- Des architectures éprouvées
- Des solutions pour environnements exigeants
- Un atelier logiciel de génération de séquences
- Une maîtrise de l'embarqué
- Le transfert de la propriété intellectuelle
- Un engagement forfaitaire
- Le maintien en condition opérationnelle sur site client
- Le développement système complet
- Le développement logiciel sur cahier des charges

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REALISATION SAMPLE : TEST BENCH FOR PRIMARY ELECTRIC POWER DISTRIBUTION SYSTEM

4 test benches:

- Functional tests
- Acceptance tests,
- Qualification tests (x2)

Simulation of Loads (180kW) and generators (150 kW)

1200 signals Acquire and generate in parallel

Hardware In the Loop

Analog sampling rate 10kHz,
Discrete sampling rate 2kHz.
Main cycle 1kHz.



Use case : <http://sine.ni.com/cs/app/doc/p/id/cs-17054#>

M3 SYSTEMS

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GNSS Simulation Test and Measurement Solution

- StellaNGC Simulation
- StellaNGC Record & Playback
- StellaNGC Scenario Replayer

AUTOMOTIVE | AERONAUTICS | SPACE | DEFENSE



TOULOUSE

BRUXELLES

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Software suite which supports GNSS tests and measurements needs throughout the **design cycle**, from **prototyping** to **manufacturing**.



Positioning
Performance
Evaluation



GNSS Sensor
Characterization



System
Integration



End of Line
Testing

NERYS

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TESTS BENCHES TURN KEY
DATA ACQUISITION SYSTEMS
INDUSTRIAL SOFTWARE
TRAINING SOFTWARE COURSE



RÉGION SUD

AUVERGNE-RHÔNE ALPES

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nerlys

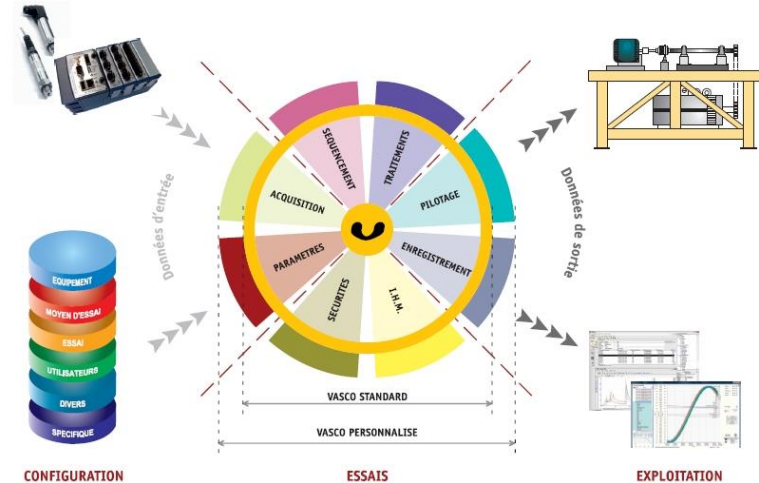
SOFTWARE PLATFORM TO MANAGE YOUR TESTS VASCO IS 100 % CUSTOMIZABLE AND CONFIGURABLE

Modular, scalable and stable architecture

Easy to manage for everyone

Fits for all tests rigs and systems

Add your own requirements by using Labview



PCB PIEZOTRONICS

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ESSAIS SATELLITES

ESSAIS CHOCS

ESSAIS EN ENVIRONNEMENT HAUTE
TEMPERATURE



FRANCE

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PCB PIEZOTRONICS^{INC.}
MTS SYSTEMS CORPORATION

NOS SOLUTIONS DE MESURE

Capteurs de vibration, accélération, choc

Capteurs de pression

Capteurs de choc

Microphones de mesure

Solutions d'étalonnage

Pots vibrants

STYREL

URARTU

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URARTU

TEST
AUTOMATION

STATIC AND DYNAMIC LOADING;

HYDRAULIC TESTING;

HIL-SIMULATION;

VIBRATION & ACOUSTIC CONTROL.



LAUSANNE

YEREVAN

SAMARA

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URARTU | TEST
AUTOMATION

GTE FUEL AUTOMATIC SYSTEMS TESTING

HIL simulation of engine

FADEC testing

Hydromechanical fuel units