LEADING-EDGE MANUFACTURER
OF TEST AND MEASUREMENT INSTRUMENTS

RULA Technologies produces and offers:

- vibration controllers,
- portable data acquisition systems,
- calibration systems,
- power amplifiers,
- vibration and shock recorders,
- strain-gauge amplifiers.

The advanced hardware features combined with the powerful user-friendly software make our systems the ultimate choice in the fields of vibration control and data acquisition.

- Headquarters in Europe, Latvia
- Distributors all over the world

>10

versatile products
Developed from scratch
and manufactured in Latvia.
CE-certificate provided.

>15

software releases
Backward compatibility with
all versions of Windows starting from
7. Free updates.

> 40

countries of presence
Constantly expanding network
of partners and distributors
worldwide.

Our Customers

BOSCH BYD XCMG 上海交通大学 SHANGHAI JIAO TONG UNIVERSITY HITACHI

VATTENFALL ALPES LASERS 中国中铁股份有限公司 CHINA RAILWAY GROUP LIMITED VERTEX AVIATION GROUP ESL ELITE SENSORS

1

RULA TECHNOLOGIES

RULA PRODUCT RANGE FLEXIBLE. RELIABLE. VERSATILE

RULA systems combine vibration testing, data acquisition and calibration capabilities. Depending on the tasks and purposes of testing, products can be supplied either in combination with sensors, amplifiers, shakers, or independently. All equipment is quality-checked on our site to provide a plug-and-play turnkey solution.

Advanced Controllers and DAQ systems

RL-C21

Up to 32 inputs / 2 outputs
0,1 ÷ 32 000 Hz
ADC/DAC resolution 24 bit

RL-C21M

Up to 64 inputs / 2 outputs
DC ÷ 80 000 Hz
ADC/DAC resolution 24 bit

RL-C25

Up to 512 inputs / 16 outputs
DC, 0,1 ÷ 106 000 Hz
ADC/DAC resolution 24 bit

Portable Spectrum Analyser

RL-R19

4 ÷ 8 measuring channels
DC, 0.1 ÷ 60 000 Hz

Compact Shock Loggers

RL-R17

4 ÷ 8 measuring channels
0.1 ÷ 800 Hz
3-axial accelerometer inside

Convenient Strain Gauge Amplifiers

RL-S039

DC ÷ 20 000 Hz
10, 100, 1000 Gain (configurable)

D-class Power Amplifiers

RL-A500

DC ÷ 20 000 Hz
500 VA output power

RL-A1000

DC ÷ 20 000 Hz
1200 VA output power

RL-A200

2 ÷ 20 000 Hz
200 VA output power

UNIVERSAL AND EASILY UPGRADABLE PRODUCTS

- Vibration testing, sensor calibration, and data acquisition — you can get all these functions within a single unit.
- CE-certified and factory calibrated equipment comes ready to plug-and-play.
- 100% free software updates forever and compatibility with all versions of Windows.

SCALABLE ARCHITECTURE OF HARDWARE AND SOFTWARE

- The modular principle of our controllers allows you to create a configuration with up to 512 input and 8 output channels, hosting more than 20 software options.
- We supply solutions for Automotive, Research and Development, Aerospace, Power and Energy, and many other industries.

THE RIGHT SOLUTION FOR YOUR NEEDS

- RULA systems can carry out tests in compliance with ISO, SAE, MIL-STD810H/G, IEEE, BS N60068-2-27, ISO16750, ISTA, ISO 16063-21, and many other standards.
- We have established partnerships with shaker and sensor manufacturers to bring the best solutions for your tasks.

3

RULA TECHNOLOGIES
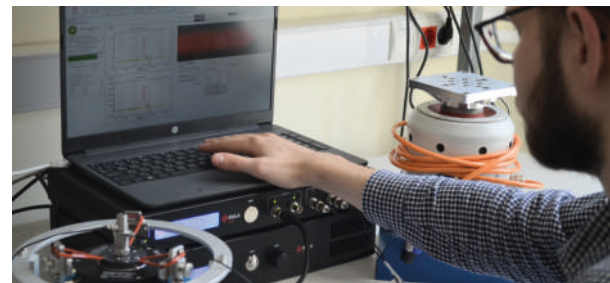
RL-C21   VIBRATION CONTROL AND DAQ SYSTEM

A powerful multi-purpose vibration control and data acquisition system for vibration testing, data analysis, and sensor calibration with a modular scalable architecture. The device has an LCD screen and a set of digital inputs and outputs allowing for autonomous operation.

In its maximum configuration, the system is capable of controlling vibration on up to 8 shakers providing outstanding MIMO test accuracy.

Technical Characteristics

Works with TestUP and SignalUP Software.

- Channels: up to 32 inputs, 8 outputs
- Frequency range: 0,1 ÷ 35 000 Hz
- ADC resolution: 24 bits

Types of supported sensors

- IEPE
- TEDS
- Displacement
- Velocity
- Strain (through RL-S039)
- Force sensors
- Charge

Available software functions

Sine	Shock	Random	Transient Capture	SRS	TTH	SROR	Fatigue test	Sequence of tests

Spectrum Analysis	Ariphmetic Operation	Waterfall	Oscilloscope	Cross-Spectrum	Octave Analysis	Filtering	Balancing	Calibration

contact@rula-tech.com
www.rula-tech.com

RL-C21M VIBRATION CONTROL AND DAQ SYSTEM

Top-of-the-line vibration control system for electrodynamic shakers, featuring up to 8 input channels in one box. RL-C21M has direct control of power amplifiers, supports voltage and temperature measurements. It is the first RULA device to combine vibration and climatic tests.

The controller visualizes temperature and humidity-related data, generates automatic reports, has an LCD screen and a set of digital inputs and outputs allowing for autonomous operation.

Technical Characteristics

Works with TestUP and SignalUP Software.

- Channels: up to 64 inputs, 8 outputs
- Frequency range: DC ÷ 80000 Hz
- Voltage measurement range: up to 40 V
- DC current and DC voltage measurement
- ADC resolution: 24 bits

Types of supported sensors

- IEPE
- TEDS
- Linear
- Charge
- Displacement
- Velocity
- Force
- Strain (through RL-S039)
- Temperature

Available software functions

Sine	Shock	Random

Sine · Shock · Random · Transient Capture · SRS · TTH · SROR · Fatigue test · Sequence of tests

Spectrum Analysis · Ariphmetic Operation · Waterfall · Oscilloscope · Cross-Spectrum · Octave Analysis · Filtering · Balancing · Calibration

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RL-C25   MULTICHANNEL MODULAR CONTROL AND DAQ SYSTEM

Advanced highly-accurate vibration control and data acquisition system designed for multichannel applications. Scalable architecture allows the user to expand the system up to 512 channels in a synchronized data acquisition set. The modular principle of hardware configuration provides flexibility to suit different user demands.

There are three modules available:

- 4 outputs
- 8 inputs
- 4 strain gauge inputs

Modules can be swapped freely to build a suitable hardware configuration.

The following variants of configuration are available: 24/0, 16/4, 8/8 (in/out channels per controller).

Technical Characteristics

Works with TestUP and SignalUP Software.

- Channels: up to 512 inputs, 8 outputs
- Frequency range: DC ÷ 106 000 Hz
- ADC resolution: 24 bits

Types of supported sensors

- IEPE
- TEDS
- Displacement
- Velocity
- Strain
- Force sensors
- Charge

Available software functions

Sine	Shock	Random	Multisine	Multishaker RND	Multishaker classical shock	Multishaker SRS	Multishaker FDR	Fatigue test

Spectrum Analysis	Ariphmetic Operation	Waterfall	Oscilloscope	Cross-Spectrum	Octave Analysis	Filtering	Balancing	Calibration

	RL-C21	RL-C21M	RL-C25
Input channels per unit	1 ÷ 4	1 ÷ 8	1 ÷ 24
Scalability, channels	Up to 32	Up to 64	Up to 512
Output channels per unit	2	2	8
Frequency range, Hz	0.1 ÷ 35 000	DC ÷ 80 000	DC ÷ 106 000
Sample rate, kHz	Up to 108	Up to 216	Up to 265
Dynamic Range, dB	Up to 160	Up to 160	Up to 160
Spectral Lines	52 500	52 500	52 500
Voltage range, V	±10	±10 … ±40	±10
ADC/DAC resolution	24 bit	24 bit	24 bit
Digital I/O's	8	8	8
Sensor types	IEPE, TEDS, Charge, displacement, velocity, force	IEPE, TEDS, charge, temperature, voltage, thermocouples, displacement, force, velocity	IEPE, TEDS, charge, displacement, velocity, force, strain-gauge
MIMO tests up to 8 shakers	Yes	Yes	Yes
Accelerometer and microphone calibration	Yes	Yes	Yes
Amplifier and climate chamber control	Yes	Yes	Yes

7

TECHNICAL ADVANTAGES

- Compatible with any electrodynamic, servo-hydraulic, electro-mechanic shakers and shock machines
- Hardware key and safety checks
- Versatility: controller / DAQ-system / signal analyzer
- Scalability up to 512 channels

COMPARED WITH OTHER CONTROLLER BRANDS, RULA CAN OFFER

- More versatile modular solutions
- More advanced test types like MultiSine, FDS, Fatigue, MIMO FDR, etc.
- Independent automated transducer and microphone calibration module
- Amplifier and climate chamber control through ModBus TCP
- Most accurate and developed MIMO-test subsystem

> Your company saves the minimum of 6 000 USD per year with free RULA Technologies software updates

TestUP

- +20 Test types and features
- Well-developed MIMO and MISO
- Dedicated calibration module
- Black-box mode and test sequences
- User-defined automated test report
- Sensor and shaker database

SignalUP

- 15+ types of analysis and utility modules
- Export and import in .mat, .csv and other formats
- Compatible with all RULA devices
- Balancing mode for rotors, engines and helicopters
- Modal analysis and 3D-graphs
- Open API

VIBRATION TESTING & DATA ANALYSIS PACKAGES

Sine		Multisine	
Shock		Multishaker SRS	
Random		Multishaker RND	
SRS		Multishaker FDR	
Transient capture		Multishaker Classical Shock	
SROR		Spectrum Analysis	
TTH		Statistical Analysis	
Sequence of Tests		Ariphmetic Operation	
System Calibration		Balancing	
Shaker Attestation		Cross-Spectrum	
Field Data Replication (FDR)		Filtering	
Fatique		Octave Analysis	
Data Recording		Oscilloscope	
Advanced Sine		Signal Scope	
Sensor Calibration		Waterfall	
Microphone Calibration		Tacho Analysis	

TESTING EQUIPMENT FOR LABORATORIES

Testing and calibration laboratories around the world choose RULA customized standard solution. We have combined our reliable high-quality equipment for vibration testing, data acquisition and calibration into a turnkey solution for labs.

One controller — infinite value

We made our hardware and software flexible, versatile, and easily upgradable.

- Perform vibration testing, calibrate sensors, and acquire data — all with a single unit
- Get a 3-month free trial for all software options
- Use built-in test templates for ISTA, ISO, SAE, MIL-ST-D810H/G, IEEE, etc.
- Guaranteed 100% free updates forever and compatibility with all versions of Windows

Your laboratory may need:

- Automated sensor calibration system
- Microphone calibration system
- Affordable vibration testing equipment
- Equipment for data acquisition & analysis
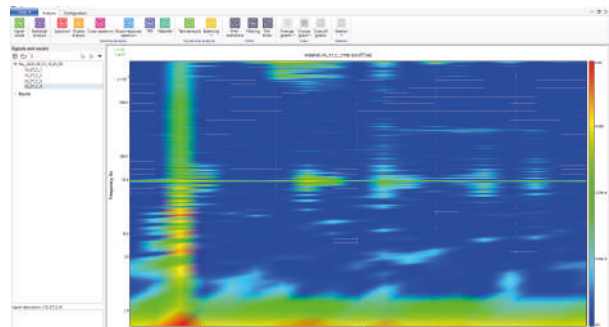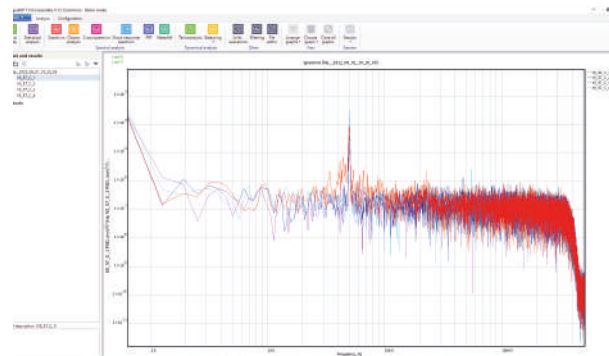
Budgetary Bundle for Testing Laboratories

A starter package for a calibration lab to cover vibration testing, data acquisition and calibration tasks includes a vibration controller, a power amplifier, a shaker, a sensor, and dedicated software.
Send us your inquiry and you will receive our starter pack budgetary offer within a day or get a tailor-made solution based on your specs.

TestUp is perfect for your lab
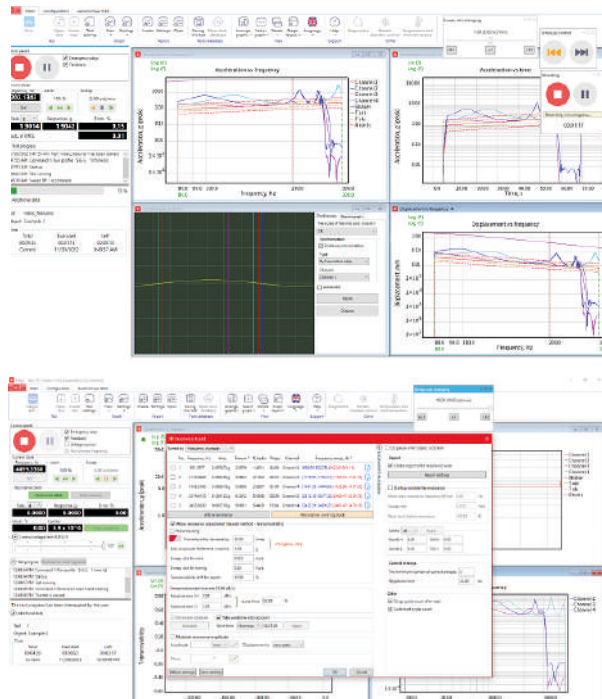
- Embedded test standards templates: BS N60068-2-27, ASTM, MIL STD810-G, MIL STD810-H, Earthquake, ISTA, etc.

- Sequence of tests and complex schedules

- Customizable test and calibration reports in MS Word, Excel, etc.

- Automated calibration wizard

- Safety checks and diagnostics mode

- Shaker, sensor and test database to store your data for easy access

TESTING EQUIPMENT FOR UNIVERSITIES

At RULA Technologies, we are deeply rooted in the field of academics and dedicated to fostering the growth of university labs and research centers worldwide. With our reliable and flexible equipment for vibration testing and data acquisition complemented by user-friendly software packages, we are ready to support and empower the next generation of test and reliability engineers.

Bring your research to the next level

We offer the most reliable and precise vibration testing, data acquisition, and calibration systems on the market. With a low fault rate and CE certification, we guarantee years of uninterrupted work.

Here's what universities appreciate the most:
- Compliance with international testing standards & profile templates
- Effortless setup and connectivity
- Seamless integration with any electrodynamic shakers and sensors
- Comprehensive tech papers, user manuals, and video materials
- Open API and easy integration with external software
- Free educational resources
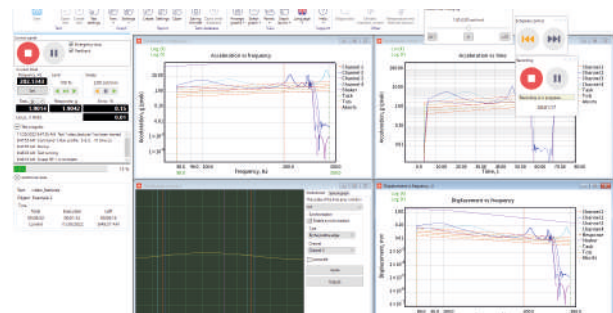
Maximize your investment

Our starter package is specifically designed for universities, providing an easy-to-use vibration testing set.

- Tailored «University Package» for vibration testing
- Versatile equipment for testing, data analysis and calibration
- Demo keys and free trials
- Free software updates
- Extended warranty and lifelong technical support

Send us your specification, and our team will curate the best budget-friendly vibration testing solution for universities tailored to your needs, with the academic discount already applied.

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RULA TECHNOLOGIES

SPECIAL OFFER FOR DISTRIBUTORS

High-quality hardware and software, assistance with
promo materials and exhibitions, technical and sales
support, individual terms of partnerships, free training —
this is only a short list of benefits we provide to RULA
distributors all over the world.

SUCCESS STARTS WITH RULA

- ● Reliable hardware & software. We develop and
  manufacture all products in the EU and export them to
  more than 40 countries.
- ● Marketing Support. We help with promotion by
  providing print materials, organizing joint publications
  and co-activities in your region. Your company will
  be guaranteed max exposure on our website and on
  social media.
- ● Sales Support. Demo version of software and
  hardware, flexible payment terms & warranty, short
  lead-time, comprehensive online demonstrations, and
  joint customer presentations upon request will help
  maximize customer reach.
- ● Technical Support. We provide EU-based service
  and responsive technical support along with a local
  adaptation of tech papers and marketing materials to
  the specifics of your country.

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TURNKEY SOLUTIONS FOR ALL FIELDS

At RULA Technologies, we produce vibration control and data acquisition systems, recorders, and spectrum analyzers. The modular principle of our controllers allows you to create a configuration with up to 512 input and 64 output channels, hosting more than 20 software options.

We supply solutions for Automotive, Research and Development, Aerospace, Power and Energy, and many other industries. Our systems can carry out tests in accordance with the standards BS N60068-2-27, ISO16750, ISTA, ISO 16063-21, and many others.

Partnership options

- Controller / DAQ / full product range distributor
- Country / group of countries / regional distributor
- Exclusive / non-exclusive distributor

15

:::RULA TECHNOLOGIES

SERVICES FOR CUSTOMERS AND PARTNERS

Calibration

We value your time and quality of our products: all RULA Technologies controllers get to the client pre-calibrated. It is recommended to perform calibration verification annually to guarantee the health and effectiveness of your system.

Training

We continue to help our customers and partners master RULA hardware and software with our online education courses. The benefits of the course include: an individual program tailored for your needs, a Q/A session with our experts, a live demonstration of our hardware and software.

Warranty

We are confident in our products and constantly improve their technical characteristics and our own software for testing and data analysis. We guarantee the flawless operation of our devices and offer long standard warranties and extended warranty terms for the selected items.

Software Demo & Free Updates

Curious to see how our software performs? Try our free demo, where you can explore the full range of test types and experience the benefits of controller emulation. We provide free updates forever with backward compatibility for all Windows versions starting from Windows 7, so you never have to buy the system twice.

ADVANTAGES

- Free online installation support and education
- English, Chinese, French interface and Quick Start Guide
- Free factory calibration
- Demo key for all test types for 1-3 months
- EU-based storage and support

“ With less than 1% hardware fault rate, we give 1-3 years full warranty.