The Harmony of Solutions

VisProbe SL

RL-C21 is a state-of-the-art vibration control system for electro-dynamic shakers. The system is distinguished by simplicity, reliability and high safety standard.

RL-C21 vibration controller has a modular scalable architecture, which allows the user to get from 1 to 32 input channels. The configuration of **RL-C21** system is flexible: it is determined by the user and can be modified at any time.

The most innovative techniques of digital signal processing are embedded in the system. The PC is not used in the control loop, all calculations and safety checks are run by a DSP directly in the controller. This feature provides the highest level of shaker protection.

Main parameters:

- 4 inputs and 2 outputs per controller
- Auxiliary logical inputs and outputs
- LCD
- Scalability from 1 to 32 input and from 1 to 8 output channels
- 6 DOF MIMO tests
- Possibility to apply in production lines
- 3 years of warranty

Inputs	
Analog channels	1 ÷ 32
ADC resolution, bits	24
Frequency range, Hz	0.1 ÷ 35000
Sensor type	IEPE, TEDS, charge, displacement, velocity, force sensors
Filtration	Analog, digital high-pass and low-pass filters
Voltage range, V	±10
Dynamic range, dB	≥120
Noise level, μV	≤20
Channels crosstalk, dB	≤-100

Outputs	
Analog channels	1 ÷ 8 control channels, Up to 8 COLA channels
DAC resolution, bits	24
Frequency range, Hz	0.1 ÷ 35000
Relative error of frequency setting	$\leq 5 \times 10^{-5}$
Filtration	Analog filters, digital high-pass and low-pass filters
Voltage range, V	± 10 V
Dynamic range, dB	120

Main Hardware Features	
Dimensions, mm	$390 \times 274 \times 54$
Weight, kg	2.3
Supply voltage, V	110 ÷ 245
Temperature range, °C	+5 ÷ +50

«RULA Technologies», SIA
Birzes Iela 32-57, RIGA, LV-1016 Latvia

Phone: +371 6610 2166
e-mail: contact@rula-tech.com
http://rula-tech.com
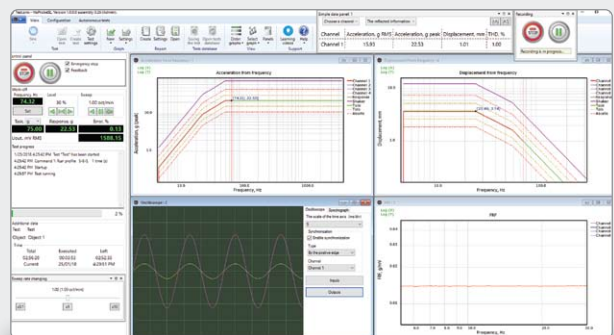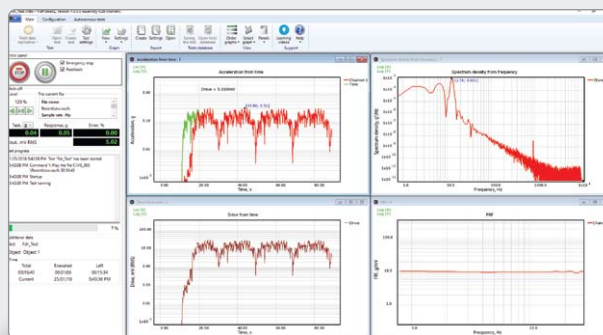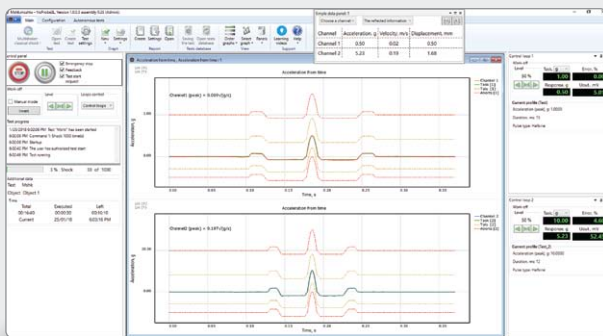
Vibration Control System RL-C21

Software features:

- Sine
- Resonance Search and Tracking Dwell
- Random
- Shock
- Sine on Random, Random on Random, Sine and Random on Random, Sine on Sine
- Field Data Replication
- Shock Response Spectrum
- Transient Time History
- Transient Capture
- Data Recording
- Multishaker tests
- Fatigue tests

Applications:

- Vibration tests according to ISO, DIN, IEC, etc. in Aerospace, Automotive, Telecom and other industries
- Tests of serial production
- Research and Development
- Fatigue tests