

PORTABLE CONDITION MONITORING SYSTEMS

WIRED AND/OR WIRELESS VERSIONS



synergys-technologies.com



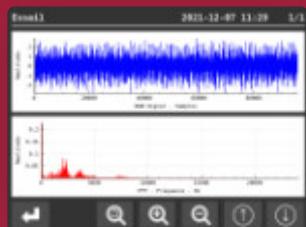
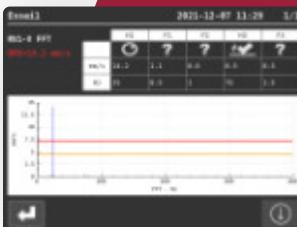
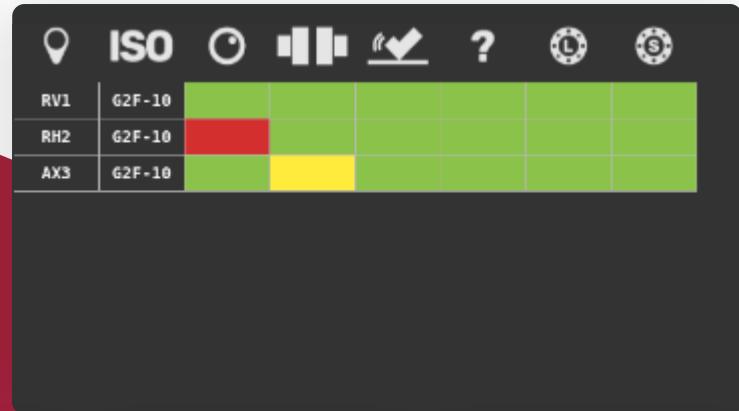


VSHOOTER+®

AUTO VIBRATION ANALYZER

PREDICTIVE MAINTENANCE HAS NEVER BEEN EASIER!

- **Machine Condition Picture (MCP)** at a glance
- High quality wired 100 mV/g ICP&IEPE sensor with strong magnet
- Compatible with wireless triaxial sensor (VSHOOTER+®WL)
- Overall RMS values - FFT spectrum - Time signal - Trend curve - T°
- Li-Ion battery with 6 hours autonomy
- Embedded IR thermal camera (160x120 FLIR Lepton)
- Embedded 5 MP digital visible camera
- AUTO ANALYSIS capabilities : Unbalance - Misalignment - Looseness - ? - Bearing lubrication - Bearing shock
- BALISHOOTER® firmware for severity checking of only Unbalance or Misalignment defaults
- Reporting capabilities with PC via USB
- Stereo headphone output



Unique BALISHOOTER® program for Unbalance & Misalignment default severity detection:



Unbalance is critical in fan installations (direct coupled or with belt pulley transmission)

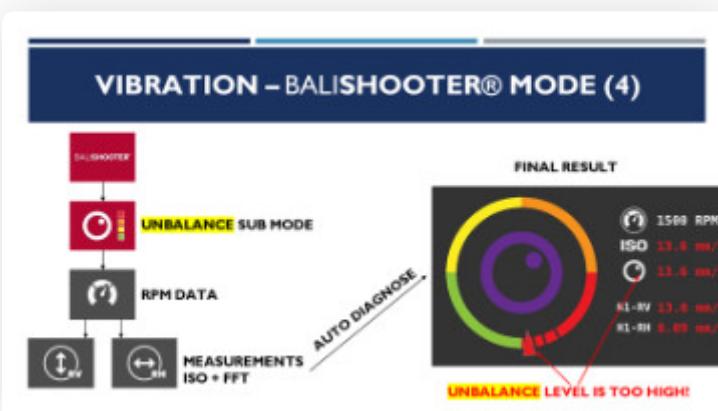


Misalignment is critical in direct coupled machines (with coupling)

Neglecting **Unbalance & Misalignment** can be catastrophic: **BREAKAGE - MTBF DECREASE - BEARING FAILURE - PRODUCTION LOSS - SEAL WEAR...**

Unbalance & Misalignment (direct coupling) represent about **70% of vibration problems** on a rotating machine like an electrical motor, a pump, a fan (blower)...

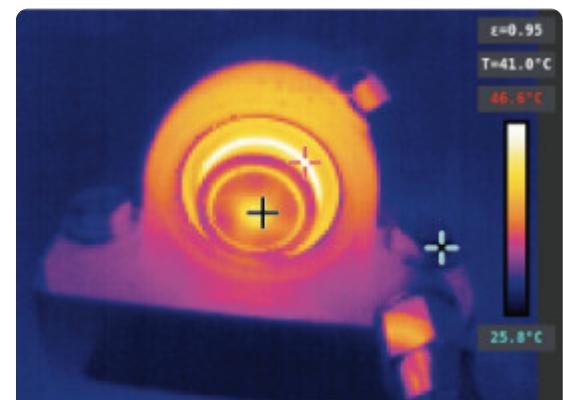
Unbalance & Misalignment (direct coupling) defaults can easily be repaired (Balancing and Alignment job).



VSHOOTER+® will automatically analyze UNBALANCE or MISALIGNMENT defaults levels and will let you know what's happened on your machine at a glance.



VSHOOTER+® also includes an infrared thermal camera (160x120 pixels FLIR LEPTON) program with **Emissivity setting**, **Central cursor**, **Max Auto cursor**, **Min Auto cursor**. Thermal pictures can be taken and downloaded to PC via USB.



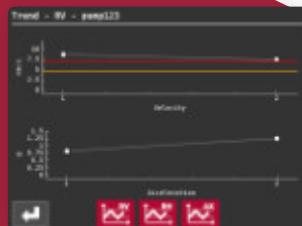
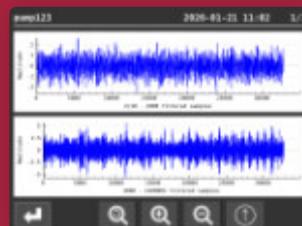
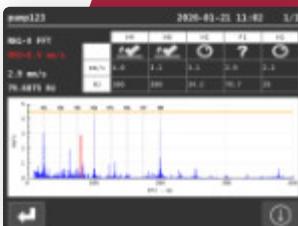


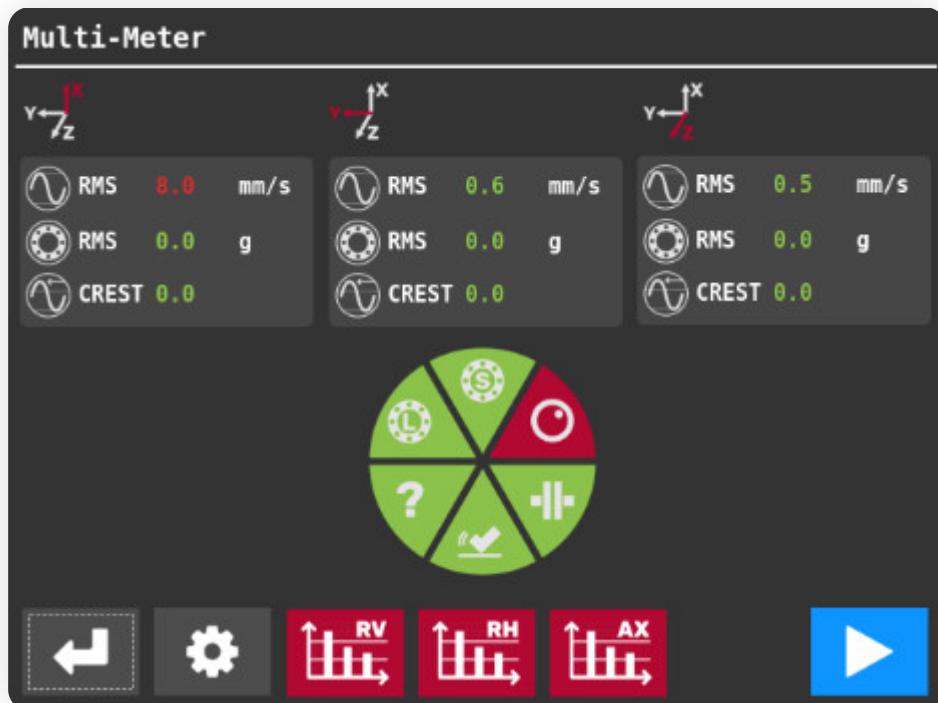
VSHOOTER+® WL

WIRELESS VIBRATION ANALYZER

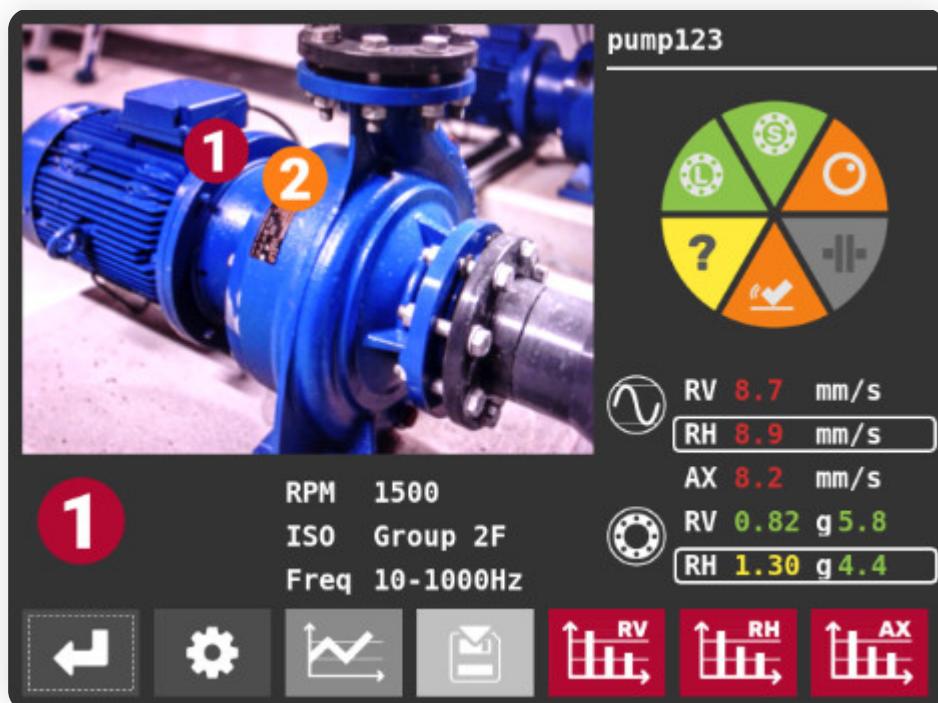
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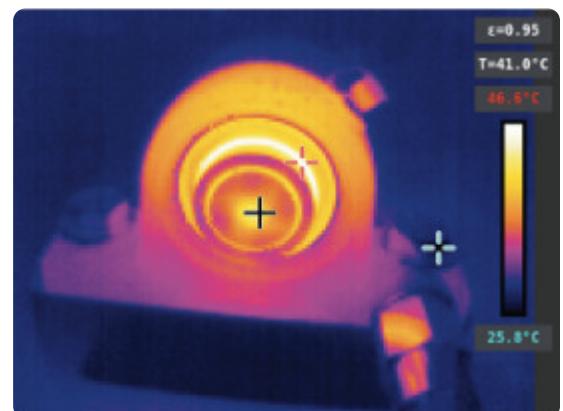
Multimeter Mode – Triaxial measurement and fault diagnosis



MCP Mode – Full machine history with triaxial measurement, fault diagnosis, trends, FFT spectra with harmonics...



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TECHNICAL SPECIFICATIONS

VSHOOTER+®

Weight	3,2kg with case - 0,7kg for device only
Size	310x165x65mm for device only
	IP54 for device only (ABS plastic) - 6H Li-Ion rechargeable battery
Camera	Digital 5 MP
IR Camera	FLIR LEPTON 160x120 px
Display	5,7" 640x480 px touchscreen
Sensor	ICP/IEPE accelerometer - 100 mV/g with strong magnet
Output	Stereo headphone for "mechanical" listening
Measurements	10(2)-1000 Hz ISO RMS in mm/s 1000-14000 Hz RMS in g & CREST T° from -10°C > +400°C 2-400 Hz in mm/s & 2-14000 Hz in g FFT & TIME TRENDING mm/s & g BALISHOOTER® firmware
Memory	Micro USB output for PC reporting and memory saving
Power charger	Universal 12VDC-1,5A

VSHOOTER+® WL

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