

PORTABLE CONDITION MONITORING SYSTEMS



VSHOOTER+[®]
AUTO VIBRATION ANALYZER



VSHOOTER-3-WL[®]
WIRELESS VIBRATION ANALYZER

synergys-technologies.com





VSHOOTER+[®]

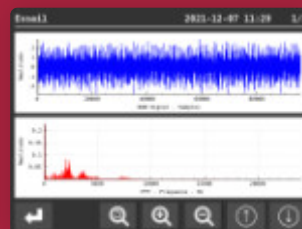
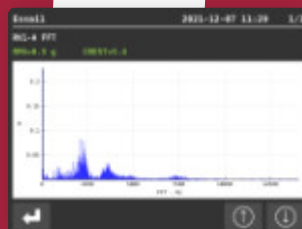
AUTO VIBRATION ANALYZER

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
- 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



Location	ISO	1	2	3	4	5	6
RV1	G2F-10	Green	Green	Green	Green	Green	Green
RH2	G2F-10	Red	Green	Green	Green	Green	Green
AX3	G2F-10	Green	Yellow	Green	Green	Green	Green



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



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

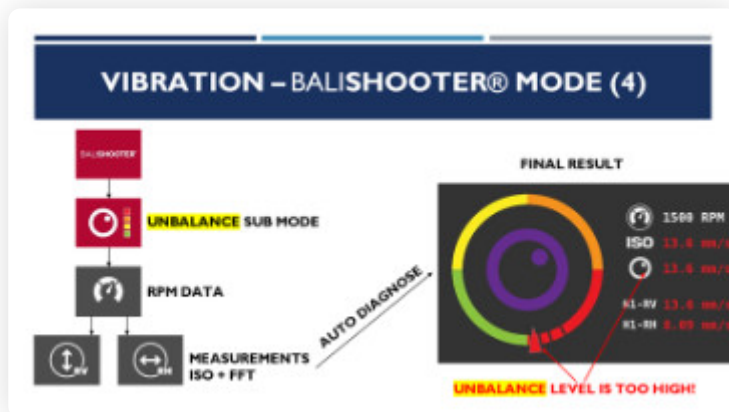


Misalignment is critical in direct coupled machines (with coupling)

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)...

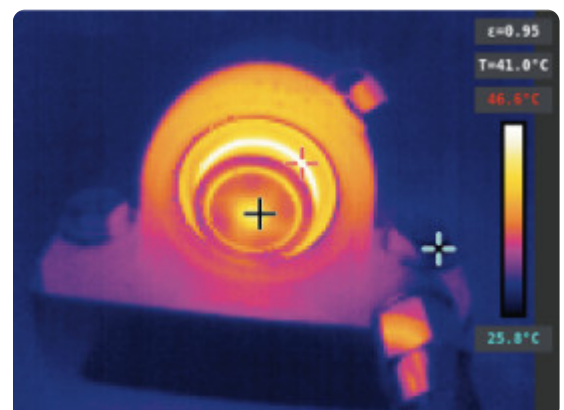
Unbalance & Misalignment (direct coupling) defaults can easily be repaired (Balancing and Alignment job).



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+[®] TECHNICAL SPECIFICATIONS

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 5MP

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

Memory Micro USB output for PC reporting and memory saving

Power charger Universal 12VDC-1,5A

VSHOOTER®-3-WL

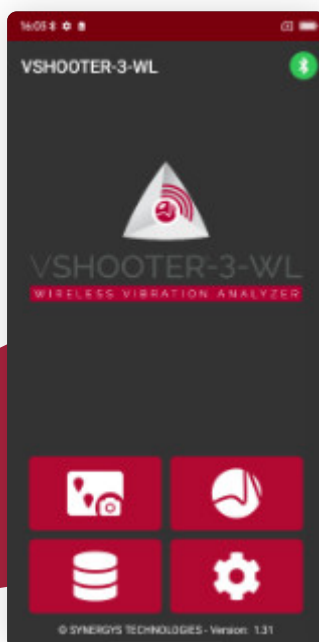
WIRELESS VIBRATION ANALYZER

TRIAxIAL PREDICTIVE MAINTENANCE

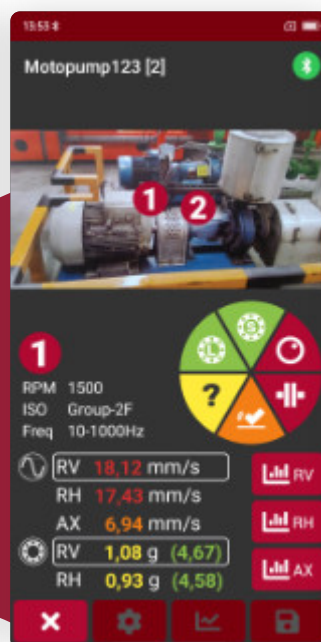
- Rugged smartphone (IP68 - MIL STD 810G)
- Li-PO battery with high continuous 12H capacity
- Overall RMS, FFT, TREND (mm/s & g)
- Large memory (64 GB)
- Data transfer to PC via USB-C
- Multimeter & MCP mode (Machine Condition Picture)
- Auto analysis of defaults:
- Unbalance - Misalignment - Looseness - Bearing Lubrication & Shock

3 versions available:

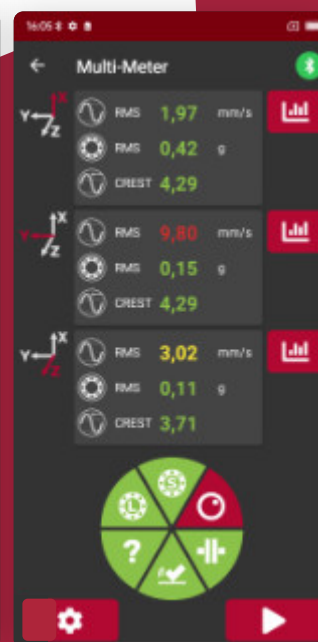
1. VSHOOTER®-3-WL, standard version
2. VSHOOTER®-3-WL-IR, with thermal camera (80x60 pixels - 9 Hz)
3. VSHOOTER®-3-WL-IRHD, with thermal camera (256x192 px - 25 Hz)



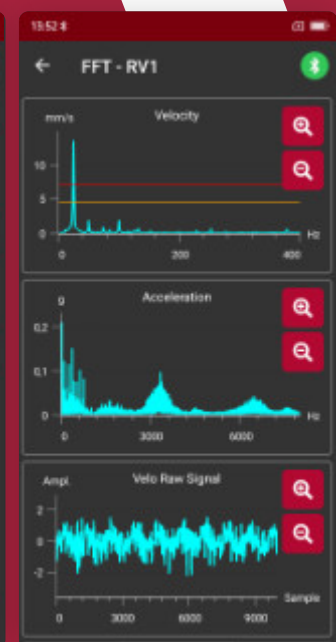
HOME MENU



MCP MODE



MULTIMETER MODE



FFT SPECTRUM

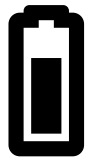
NEW!

A UNIQUE VIBRATION ANALYSIS EXPERIENCE WITH THE VSHOOTER®-3-WL AND ITS **WIRELESS TRIAXIAL SENSOR!**



Bluetooth connectivity

For more security!



Large autonomy

About 2 years!

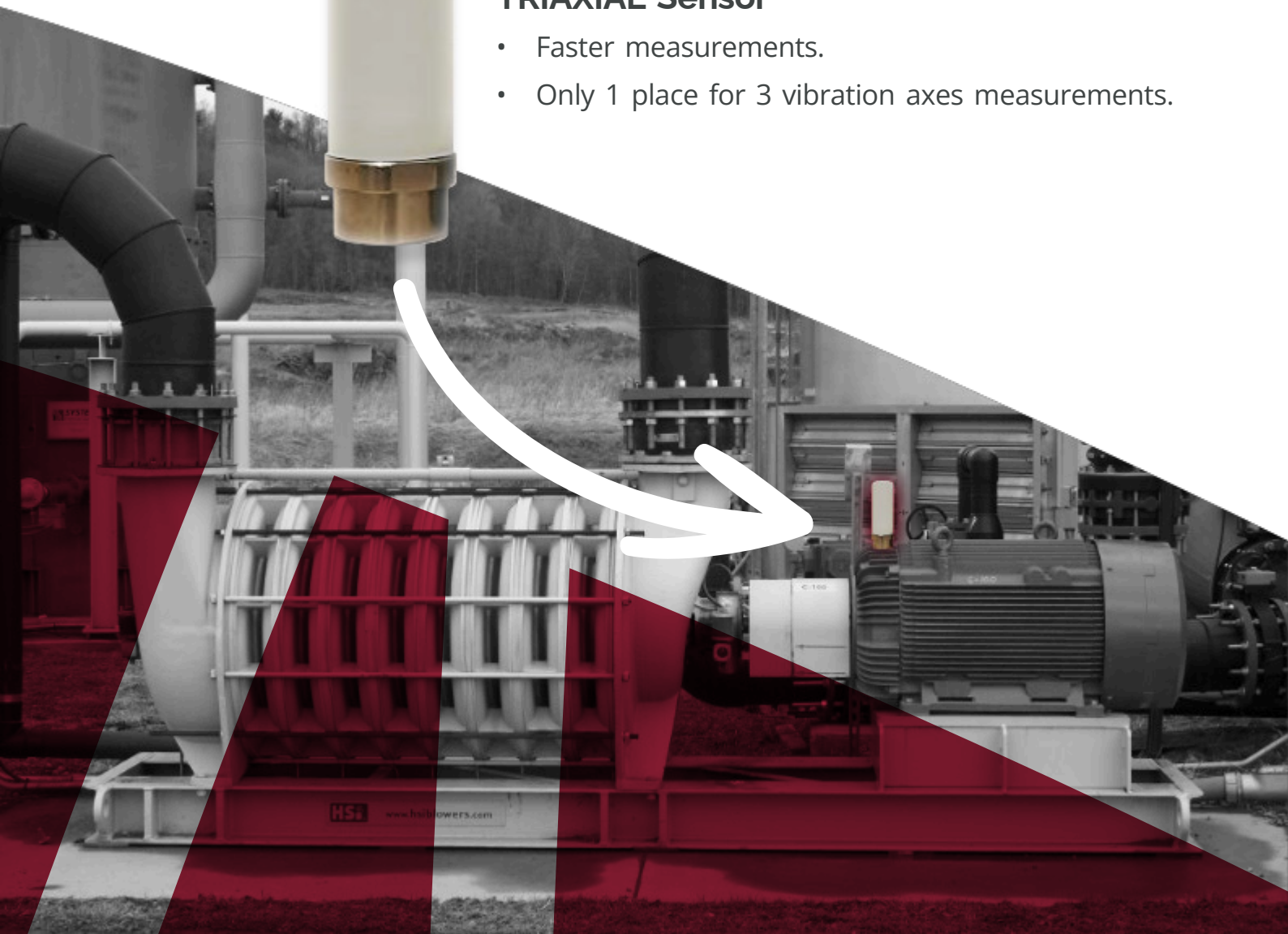


Rugged & Waterproof

For more efficiency!

TRIAxIAL Sensor

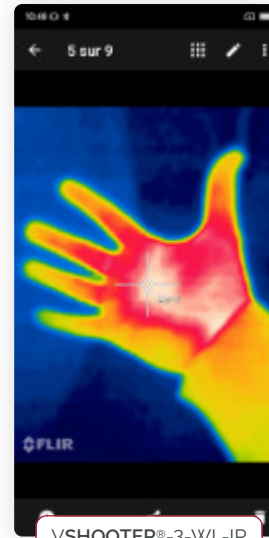
- Faster measurements.
- Only 1 place for 3 vibration axes measurements.



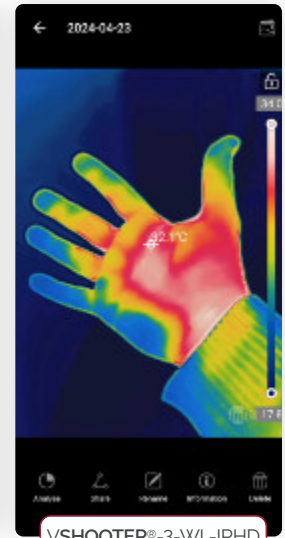


VSHOOTER®-3-WL-IR has an embedded thermal camera (80x60 pixels, 9 Hz, FLIR LEPTON) where you can view the hottest and the coldest temperatures of the scene (Automatic) but also a fixed central cursor. Thermal pictures can be saved and reported to PC. Adjustable emissivity.

A version IRHD is also available with a better resolution and refreshment (256 x 192 px - 25 Hz).



VSHOOTER®-3-WL-IR



VSHOOTER®-3-WL-IRHD

VSHOOTER®-3-WL TECHNICAL SPECIFICATIONS

Weight 1,5 kg with case - 0,3 kg without case

Size 159x80x18mm smartphone only – 235x180x106mm case only

IP68 for smartphone (MIL STD 810G) - Rechargeable Li-Po battery

Camera Digital 16+8 MP

Thermal Camera IR version: FLIR LEPTON 80x60 px & MSX function
IRHD version: INFIRAY 256x192 px & PIP - DUAL - FUSION functions

Screen 5,7" 1440x720 px touchscreen

Sensor IP67 Triaxial MEMS Bluetooth® (Li-SOCI2 battery) with magnet

Measurements 10(2) - 1000 Hz ISO10816 RMS in mm/s
1000 – 8000 Hz RMS in g & CREST
2-400 Hz in mm/s & 2-8000 Hz in g FFT spectrum & TIME & TREND

Memory USB-C output for PC reports and data saving

Power Universal USB-C charger



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WIRELESS VIBRATION ANALYZER

SYNERGYS TECHNOLOGIES has been established in 1996 in France, to offer innovative and professional solutions for preventive and predictive maintenance.

SYNERGYS TECHNOLOGIES is the inventor of the ultrasonic visualization concept with the LEAKSHOOTER[®], of the MCP (Machine Condition Picture) concept with the VSHOOTER[®] and of the thermal contour concept with the TSHOOTER[®].

We are present worldwide with professional and trained distributors.



SYNERGYS
TECHNOLOGIES

VSHOOTER[®] une innovation
de SYNERGYS TECHNOLOGIES

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