



VSHOOTER[®]

EASY VIBRATION ANALYZER WITH EMBEDDED CAMERA

www.synergys-technologies.com



VSHOOTER® VBS1T

Shoot your machine condition defaults thanks to the first Easy Vibration Analyzer with embedded camera !

Machine Condition Picture (MCP) with condition states



Photo capture

Validation



EASY VIBRATION ANALYZER

VGA integrated camera - Photo capture

High quality ICP 100 mV/g sensor with strong magnet - Vibration

6X integrated stroboscope LEDs - RPM

High quality integrated infrared pyrometer - temperature

Stereo audio output, listening of bearing / gear signal

Colored ISO 10816 included

FFT spectrum with Auto Machine Diagnosis of : Unbalance, Misalignment, Looseness, Bearing lubrication and shocks problems (predictive maintenance)

Trend View

High quality VGA colored TFT screen

Micro USB output for reporting on Windows-PC

8 hours rechargeable Li-Ion battery - Universal power charger or USB charger

IP 54

Default detail

Unbalance, Misalignment, Looseness, Bearing lubrication problems, Bearing shocks problems

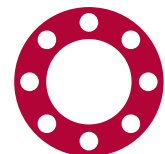
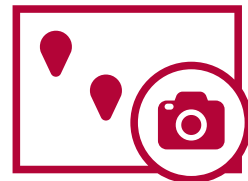
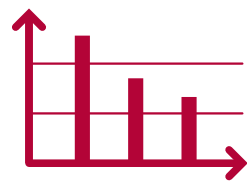
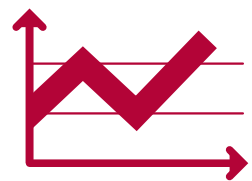
Measurement detail

Menu browsing

Home On/Off

View on site measurements and diagnosis immediately on the VSHOOTER® screen:

Overall values, FFT spectrums, Trend curves, Defaults table









ISO



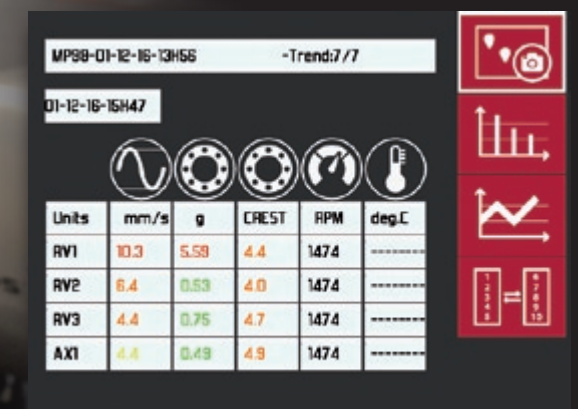
AUTO DIAGNOSE

Thanks to machine speed (RPM) and alarm FFT spectrum auto analysis, VSHOOTER® is able to give the severity and the opinion about possible machine defaults :

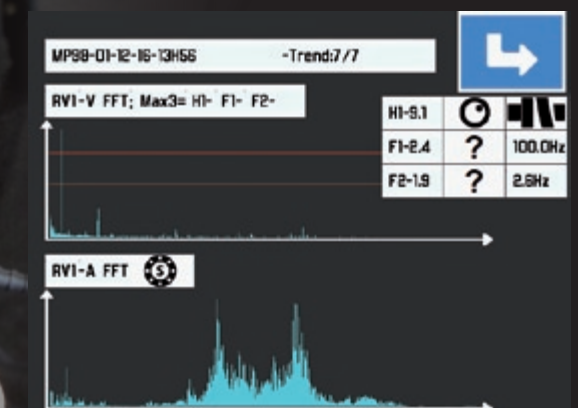
-  Possible unbalance detected (often radially)
-  Possible offset misalignment detected (often radially)
-  Possible angular misalignment detected (often axially)
-  Possible looseness detected
-  Possible non standard default detected
-  Possible bearing problem detected (L for possible lubrication problem and S for possible shock problem)



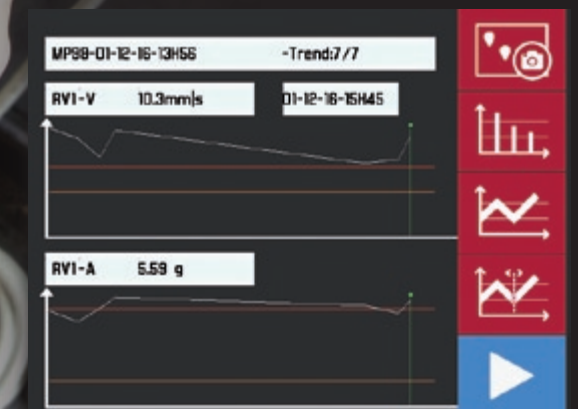
MCP - Default information



Overall values



FFT Spectrums (V:2-500 Hz ; A:2-10000 Hz)



Trend curves (V - A - T°)

ALARM REPORT

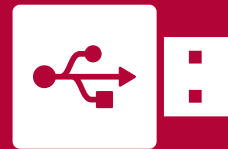
You can edit an ALARM REPORT to view which machines are in poor working condition (ORANGE & RED).

Then, you can check the report of each of them to see all measurements in detail, all explanations and conclusions made by the VSHOOTER® to plan the maintenance tasks.

You will optimize your work and your time by only checking the "IN ALARM" machines.



MP98-01-12-16-13H55-R.prj	Red	Trash icon
ABCE-24-11-16-12H09-R.prj	Red	Line graph icon
ABG-23-11-16-13H59-R.prj	Red	Document icon
ABC-22-11-16-22H14-B.prj	Red	Document icon
AAA-22-11-16-13H07-G.prj	Green	Document icon
FAN M46-22-11-16-21H06-R.prj	Red	Document icon
GS-22-11-16-11H36-R.prj	Red	Document icon
H1-16-11-16-14H49-R.prj	Red	Document icon



Autocreation of report :
MCP + DATA + FFT + TREND

USB Mass Storage,
Auto connection
(no need of software)

Editable report with PC browser (HTML File)
or with WORD (Microsoft ®)

Possibility to customize the report

Data saving : The database is secured on your PC

1000 MCP files in memory

REPORTING & DATA SAVING

VSHOOTER® VBS1T

Condition Monitoring with
Easy Machine Condition Picture (MCP)

TECHNICAL SPECIFICATION

Frequency range	(2)10 to 1.000 Hz for vibration and 1.000 to 10.000 Hz for bearing
Reading unit	RMS / Peak-Peak / Crest depending of measuring unit
Measuring unit	Acceleration (g) / Velocity (mm/s or ips) / Displacement (µm or mil)
Condition evaluation	According to ISO 10816 Part 3 & Part 7 (from 120 rpm (2Hz))
Alarm FFT spectrum	3200 lines, Hanning window and linear view
Temperature	Infrared pyrometer, 0°C to +150°C (2,2°F to 302°F)
Stroboscope	LED's stroboscope, 60 RPM to 30.000 RPM
Camera	High quality colored 640x480 pixels CMOS camera
Display	High quality colored 640x480 pixels TFT screen with backlight
Keypad	Sealed membrane
Housing	ABS Plastic, IP54
Battery	Rechargeable Li-Ion with universal power charger or USB power (5V-2A)
Battery life	> 8 hours of typical use
External sensor	100 mV/g IEPE accelerometer (ICP) with magnet and flexible cable (1.5m)

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® and of the MCP (Machine Condition Picture) concept with the VSHOOTER®.

We are present worldwide with professional and trained distributors.



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