Wireless CardVibro Air 2 is available at any measuring situation.

- Wildly vibrating place
- Narrow space
- Partitioned place
- Robot arm
- Narrow space between machines
- Clean Room
- Cooling tower
- Maintenance of rotating machineries
- Measurement of small displacement
- Vibration condition check
- Blowers or Pumps
- Pipes

WiFi Portable Vibrometer

- Operation with Android Tablet PC
- Reliable Wireless Data Collection (WiFi)
- Compact and Lightweight
- Low Power Consumption

**Specifications**

*CardVibro Air 2 Common Specifications*

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>WiFi Communication Mode</td>
<td>IEEE802.11b, In conformity to WiFi Spec</td>
</tr>
<tr>
<td>Operational Tablet OS</td>
<td>Recommended tablets.</td>
</tr>
<tr>
<td>AD Resolution</td>
<td>16bit</td>
</tr>
<tr>
<td>Sampling Frequency</td>
<td>Max. 76.8kHz</td>
</tr>
<tr>
<td>Ambient Humidity</td>
<td>30~90% No condensation</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>+5°C~+50°C (Guaranteed by attached battery)</td>
</tr>
<tr>
<td>Consumption Current</td>
<td>Under measurement (During Use of WiFi): about 150mA</td>
</tr>
<tr>
<td>Power Supply</td>
<td>2 pcs. of AAA battery</td>
</tr>
</tbody>
</table>

**CardVibro Air 2 Composition**

- Dedicated holder
- Charge Amplifier
- Low Frequency Vibration
- Piezoelectric Acceleration Pickup
- Long Cable
- Long probe
- Small size strong magnet (for sphericial surface)
- Carrying Case
- Equipment Diagnosis Software
- Data Management Software

A low noise cable between CA-2012 and the pickup is additionally necessary.

For ICP sensor connection:

- A holder to fix the Air 2 Unit of connector type.
- Use measurement of Low Frequency Vibration fixed on the spot by both side adhesive tape etc.
- Piezoresistive type, cable extension 2.5m.

*Please feel free to contact us if you wish to use the conventional optional extras.*

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Catch the Vibration

Wildly vibrating place
High place
Narrow space
Partitioned place

Wildly vibrating place
Robot arm
Cooling tower
Narrow space between machines
Clean Room

Maintenance of rotating machines
Vibration condition check
Measurement of small displacement

WiFi Portable Vibrometer
CardVibro
Air 2

CardVibro Air 2 is available at any measuring situation

Wireless CardVibro Air 2 is of course capable in the conventional use and other severe condition places with WiFi and powerful data processing function.

2 choices of measuring methods

Direct Measurement
Hands-free Measurement

With dedicated sensor probe, it can measure vibration directly, and no need to worry about a cable pulled into a rotating machine with wireless Air2.

Hands-free measurement with a magnet
Small magnet: Option

Low Power Consumption
Reliable Wireless Data Collection (WiFi)
Compact and Lightweight

Operation with Android Tablet PC

4 features of CardVibro Air 2

Compact and Lightweight

WiFi Portable Vibrometer

Operation with Android Tablet PC

Low Power Consumption
Reliable Wireless Data Collection (WiFi)
Compact and Lightweight

Operation with Android Tablet PC

Low Power Consumption
Reliable Wireless Data Collection (WiFi)
Compact and Lightweight
CardVibro Air2 is a compact and lightweight WiFi Portable Vibrometer that supports quick and easy measurement. It is suitable for a variety of applications, including

- **Simultaneous Measurement**: CardVibro Air2 allows you to measure plural times switching objective functions one by one.
- **FFT Analysis**: You can perform FFT analysis only by the frequency analysis function of the device.
- **Full Scale**: All data acquired can be saved in the full scale.
- **Compact and Lightweight**: The device is compact and fits easily into a breast pocket.
- **Continuous 6 hour operation**: With 2 AAA batteries, CardVibro Air2 can operate continuously for 6 hours.
- **Low Power Consumption**: It has a low power consumption rate of about 145g (Including a sensor).
- **Easy to carry**: You can attach a neck strap for easy carrying.
- **Compact design**: It is compact and lightweight, fitting easily into a breast pocket.
- **FFT data, waveform data**: FFT data, waveform data can be output in CSV format.
- **Data transfer or synchronization**: Data transfer or synchronization between tablet PC and PC is easily available.
- **Measurement start key**: You can just press on the measurement start key.
- **Trend graph**: Reports can be made automatically.
- **Measurement data in PC**: CardVibro Air2 can display abnormal frequency or diagnosis with judgment function based on DS-2013Tr.

The device features an Android table PC with firmware that is easy to use. You can make reports automatically.

- **30 minutes of waveform**: You can know the maximum and minimum condition setting.
- **Easy analysis with 12800 lines**: Try fine analysis with 12800 lines on the small body.
- **Failure Mode Detection**: It can root out harmful vibration!

CardVibro Air2, a successor of CardVibro Air1, has been developed to detect harmful vibration and root it out. It is a strong handheld weapon to diagnose harmful vibration.

Support of Quick and Easy Measurement

The device features an Android table PC with firmware that is easy to use. You can make reports automatically.

- **Route Setting Function**: You can set the route at the site.
- **Data Save**: Data save is possible.
- **Measurement with Android OS**: Measurement with CardVibro Air2 Input the data into PC Uniform control of Frequencies for detailed diagnosis

Other Features of CardVibro Air2

- **USB connection**: Communication with tablet.
- **Function**: Equipment diagnoses software DS-2013Tr can display abnormal frequency or diagnosis with judgment function based on CardVibro Air2.

Features

- **Other optional pickups**: Connector type is compatible to other optional pickups.
- **Language**: Japanese/English
- **Data Management Software**: DB-2012
- **Measurement spots**: Measurement spots management / Trend spot / Waveform display / FFT analysis function.

Advanced Software

- **Data Management Software (DB-2012)**
- **Equipment Diagnosis Software (DS-2017Tr)**
- **DS-2012**
- **Reports**: Reports can be made automatically.

Useful Functions

- **FFT Analysis**: It is possible to perform FFT analysis only by the frequency analysis function of the device.
- **Support of Quick and Easy Measurement**: There are many functions to support quick and easy measurement.
- **Easy and quick judgement**: Based on the standard for the Vibration evaluation, the evaluation is possible based on ISO-10816 (JIS-B-0906).
- **Severity Evaluation Function**: Bearing evaluation is possible based on the vibration evaluation.
- **Severity ISO-10816 (JIS-B-0906)**: The standard for the Vibration evaluation is possible based on rotational machineries as blowers or motors at the site.
- **Easy and quick judgement**: Based on the severity evaluation, bearing evaluation is easy and quick.
- **Severity Evaluation Function**: Bearing evaluation is easy and quick.
- **Severity ISO-10816 (JIS-B-0906)**: The standard for the Vibration evaluation is possible based on rotational machineries as blowers or motors at the site.

Equipment Diagnosis Software (DS-2017Tr)

Equipment diagnosis software DS-2017Tr can display abnormal frequency or diagnosis with judgment function based on CardVibro Air2. It is able to manage and display Trend graphs, FFT analysis, and Waveform. Data transfer or synchronization between tablet PC and PC is easily available.

Features

- **Data transfer or synchronization**: Data transfer or synchronization between tablet PC and PC is easily available.
- **Equipment diagnoses software**: Equipment diagnoses software DS-2017Tr can display abnormal frequency or diagnosis with judgment function based on CardVibro Air2.
- **Waveform Display Screen**: Waveform Display Screen
- **Measurement Point Setting Screen**: Measurement Point Setting Screen
- **Operation with Android Tablet PC**: Measurement with CardVibro Air2 Input the data into PC Uniform control of Frequencies for detailed diagnosis
- **Abnormal Frequencies**: Abnormal Frequencies are displayed.
Specifications

Evaluation at the site easy and quick judgement. and the original criteria for Severity ISO-10816 (JIS-B-0906) the standard for the Vibration evaluation is possible based on With CardVibro Air 2, such blowers or motors at the site by evaluation of conditions of the You may want to make Function Important Basic management software.

ef/fficient handling by using data transferred to PC for more such as SD card. Data can be if the Android tablet PC is measurement start key.

Envelope for bearing condition Displacement, Velocity and simultaneous measurement CardVibro Air 2 which has objective functions one by one. necessary for the conventional vibration. However, it is express characteristics of There are many functions to Support of Quick and Easy Measurement

Other Features of CardVibro Air 2

- High speed signal communication with WIFI
- Continuous 6 hour operation with 2 AAA batteries
- Reliable Wireless Data Collection (WiFi)
- Low Power Consumption
- Other optional pickups. Connector type is compatible to VP-2012PS1.
- Vibration Measurement Pickup of CA-2012 and Small Pickup VP-02S.

*Screen are under development, it may be changed.

Data Management Software (DB-2012)

- Data management software DB-2012 can display abnormal frequency or display FFT data, waveform data can be output in CSV format.
- Equipment diagnoses software DS-2013Tr can display abnormal frequency or diagnosis with judgment function based on measurement data from Air2 device by setting of bearing information and judgment criteria is possible in master registration.
- Measurement with CardVibro Air2 Input the data into PC Uniform control of Abnormal Frequencies are displayed.

Advanced Software

Data Management Software (DB-2012)

- Data transfer or synchronization between tablet PC and PC is easily available.
- Trend management by easy diagnosis function, imbalance or misalignment location by detailed diagnosis function etc. are available item by item.
- Equipment diagnosis software DS-2013Tr can display abnormal frequency or display FFT data, waveform data can be output in CSV format.
- Measurement with CardVibro Air2 Input the data into PC Uniform control of Abnormal Frequencies are displayed.