

Providing measurement and analysis With all on one display

Portable FFT Analyzer

CF-3800AT / CF-3800AR

Portable FFT Analyzer CF-3800A (8ch) series is an all-in-one type with touch panel computer utilizing the latest and inclusive technology in high performance. With its portability, the CF-3800A series provides the less restricted and more convenient testing platform while still achieving high accuracy in noise and vibration measurement and analysis.

Features

● Easy setup

The ease of transportation and setup make the CF-3800A series ideal for work on the jobsite. The lightweight all-in-one configuration makes using the unit at a jobsite easy and efficient. A battery backup built in the unit ensures the data will never be lost in the event of a power loss.

● Direct Interface

Equipped with a 15-inch color touch panel monitor, the CF-3800A series achieves direct and intuitive operations and eliminates the need of a keyboard and mouse.

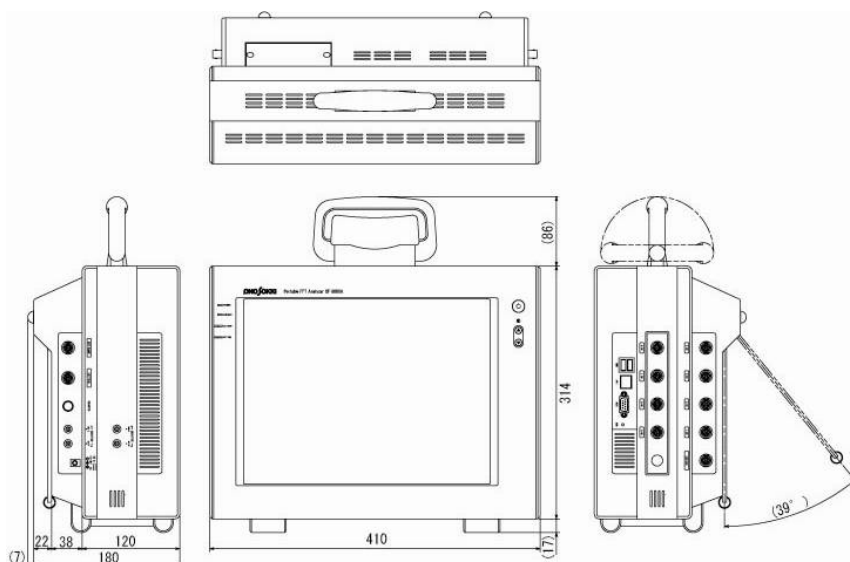
● Various analysis

Combining with versatile of applications, the CF-3800A series provides a wide array of analysis tools such as noise and vibration measurements, tracking analysis, throughput-disk function, real-time octave analysis, octave tracking analysis, field balancing.

*Please refer to the next page for the standard configurations.

● Digital Recording

The CF-3800A series can perform waveform recording simultaneously maximum at 8ch 24-bit A/D in field measurement. The recorded data can be analyzed off-line with the CF-3800A series and performed accurate and versatile analyses such as multi-frequency range analysis, digital filter processing, and diagnosis analysis.



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Specifications of CF-3800A series

| ■Input section | | ■General specifications | |
|--|---|--|---|
| Input channel | 8 | Rated power voltage | Approx. 16VDC |
| Input connector | BNC (C02) | Operating temperature range | +5 to 40°C (humidity: 20 to 80%RH, with no condensation) |
| Input impedance | 1MΩ±0.5%, 100pF or less | Storage temperature range | -10 to +55°C (including lithium ion secondary battery cell) (humidity: 20 to 80%RH, with no condensation) |
| Input format | Single ended | Cooling FAN | Not provided (natural air cooling) |
| Input coupling | DC or AC (-3dB 0.55Hz or less) | Equipped the lithium ion secondary battery cell for treatment against instantaneous power failure. | |
| Current supply for sensor | 2mA/4mA | Internal battery charging circuit | Provided |
| Sound filter | Sound filter A,B,C weighting (provided as standard), conforming to IEC 60651-1979 type1, ANSI S1.4-1983 TYPE1, JIS 1505-1988 TYPE1 | Battery life | Maximum at 30 minutes |
| | | Power consumption | Approx. 100VA (when used in AC adapter at 100VAC) |
| Input voltage range | -40 to +20dBVrms (in 10dB steps, 7 ranges) | Outer dimensions | 410(W) x 314(H) x 180(D)mm (not including protruded section) |
| Absolute maximum input voltage | AC70Vrms for one minute (at 50Hz) | Weight | Approx. 11.5kg |
| Residual offset | -60dB F.S. or less (after calibration, 0dB Vrms range) | ■Remote controller (DS-0295) | |
| Frequency range | DC to 40kHz | LED | Green LED x 5 (displaying the status) |
| Sampling frequency | 32kHz, 44.1kHz, 48kHz, 51.2kHz, 64kHz, 96kHz, 102.4kHz | Operating switch | 5 (START/STOP/F1,F2,F3) *F1 to F3 is user-defined. |
| Frequency accuracy | ±50ppm or less | Connection cable | 2m |
| A/D converter | 24bit $\Sigma\Delta$ type | Outer dimensions | 45(W) x 25(H) x 117(D)mm (not including protruded section) |
| Dynamic range | 100dB or more (at 40kHz range, 0dBVrms range, when analyzing at 2048 points) | ■AC adapter specifications | |
| Harmonic distortion | -90dB or less (1kHz, 0dBV range, when input of 1Vo-p) | Rated input voltage | 100 to 240VAC |
| Aliasing | -100dB or less | Input frequency | 50/60Hz |
| Amplitude flatness | ±0.3dB or less | Output voltage | 15VDC |
| Full scale accuracy | ±0.1dB or less (1kHz input) | Output current | 4A |
| Amplitude linearity | 0.0015% (to F.S.) | ■Accessories | |
| Gain accuracy between channels | ±0.3dB or less (DC to 20kHz) | Instruction manual, AC adapter, Power cable for AC adapter, remote controller (with cable), front panel protection cover, Windows XP license (CD-ROM), lithium ion secondary battery cell (treatment against instantaneous power failure) *one piece for each | |
| Phase accuracy between channels | ±0.5° or less (DC to 20kHz), ±1.0° or less (20kHz to 40kHz) | ■Software options can be installed (Please refer to the exclusive brochure of CF-3600A series for details.) | |
| Cross talk between channels | -100dB or less (1kHz input) | DS-0221 | FFT Analysis |
| External sample input | 20kHz/8ch (FFT length 2048 points or less, when in internal sampling), input connector: BNC (C02 type), AC/DC selectable, ±10V, 0 to 85kHz (with out-of-band filter), 0.5 to 1024 P/R, clock dividing function can be used when the frequency is over 3kHz. | DS-0222 | Tracking Analysis |
| | | DS-0223 | 1/1, 1/3 Real-time Octave Analysis |
| External trigger input | 1ch, input connector :BNC (C02 type), AC/DC selectable, ±10V, 0 to 85kHz (with out-of-band filter) | DS-0224 | 1/N Real-time Octave Analysis (required for DS-0223) |
| | | DS-0227 | Field Balancing |
| ■Output connector for input signal monitor | | DS-0243 | Octave Tracking Analysis (required for DS-0223) |
| Connector for input signal monitor | 3.5φmini-stereo jack for ch5/6 and ch7/8 1Vrms (F.S.) ±1.0% with respect to the input voltage range (at 1kHz, under 1MΩ loaded) | DS-0244 | Campbell Plot Function |
| ■Touch panel computer section | | DS-0250 | Throughput Disk Function |
| CPU | AMD Geode LX800 | DS-0251 | File Export Function |
| Memory | 256MByte | ■Hardware (option) | |
| HDD | 40GByte | CF-0371 | Signal Output |
| Net work | 10BASE/100BASE-TX/1000BASE-T x 1 | CC-0036A | Carrying case |
| LCD | 15-inch, 1024 x 768 dots XGA with brightness adjustment | ■Basic configurations (Installed software for CF-3800AT / CF-3800AR) | |
| OS | Microsoft Windows XP Professional SP2 | CF-3800AR | DS-0221, DS-0223, DS-0250, DS-0251 |
| Touch panel | Resistive method | CF-3800AT | DS-0221, DS-0222, DS-0250, DS-0251 |
| USB I/F | USB2.0 (High Speed) x 2 | | |

* The number of channels at CF-3600A series can be increased to 8 channels by adding optional hardware CF-0364.
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*Outer appearance and specifications are subject to change without prior notice.
 URL: <http://www.onosokki.co.jp/English/english.htm>

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