

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.

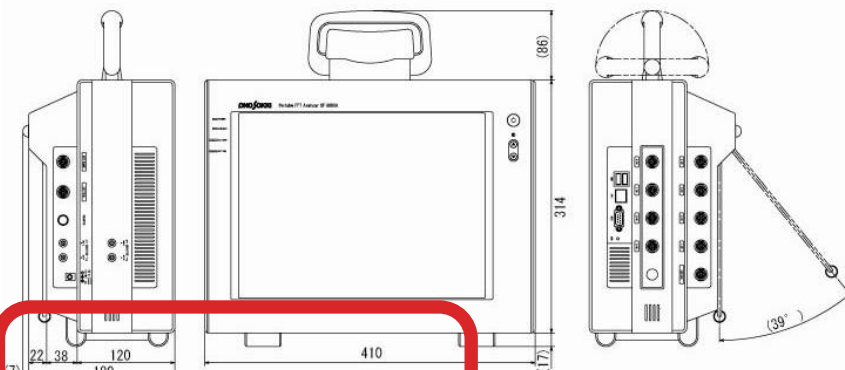
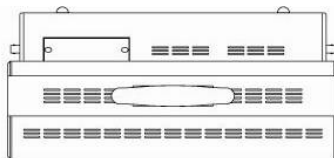
● Various analysis

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.



**Discontinued
(Reference only)**

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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>

U.S.A & CANADA
Ono Sokki Technology Inc.
2171 Executive Drive, Suite 400,
Addison, IL 60101, U.S.A.
Phone: +1-630-627-9700
Fax : +1-630-627-0004
E-mail : info@onosokki.net
<http://www.onosokki.net>

THAILAND
Ono Sokki (Thailand) Co., Ltd.
29/67 Moo 5 Tivanon Road, Pakkred,
Nonthaburi 11120, Thailand
Phone: +66-2-964-3884
Fax : +66-2-964-3887
E-mail : osth_sales@onosokki.co.jp

P.R.CHINA
Ono Sokki Beijing Office
Beijing Jing Guang Center 3510
Hu Jia Lou, Chao Yang Qu,
Beijing 100020, P.R.China
Phone: +86-10-6597-3113
Fax : +86-10-6597-3114
E-mail : onosokki@public.bta.net.cn

WORLDWIDE
Ono Sokki Co., Ltd.
3-9-3 Shin-Yokohama, Kohoku-ku
Yokohama, 222-8507, Japan
Phone: +81-45-476-9712
Fax : +81-45-470-7244
E-mail : overseas@onosokki.co.jp