CF-7200

Portable 2-channel

Analyzer

GF-7200

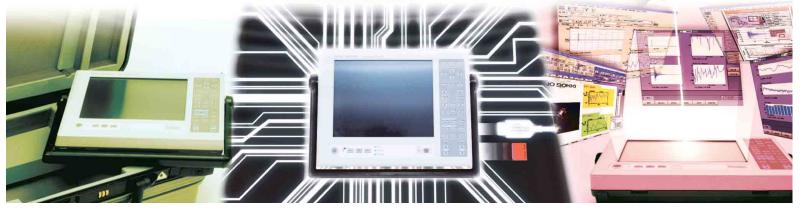
Lightweight, compact and highly portable

The de facto standard for the next generation,

for worldwide use



Portable Size Multi interface Direct Operation



ONO SOKKI

Portable 2-channel FFT Analyzer

CF-7200

ONO SOKKI FFT Analyzer CF-7200

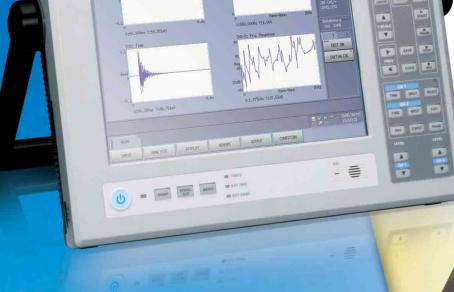
Multi

Flexible Data Sharing

Accepts USB, Compact Flash Card, and other general-purpose interfaces for compatibility with PCs and easy data sharing in the existing environment.

Intuitive Button and Touch-panel Operations

The CF-7200 needs no mouse - simply press buttons for all operations. The click-feel buttons and touch panel allow immediate operations ranging from start/stop of analysis to display of basic functions.

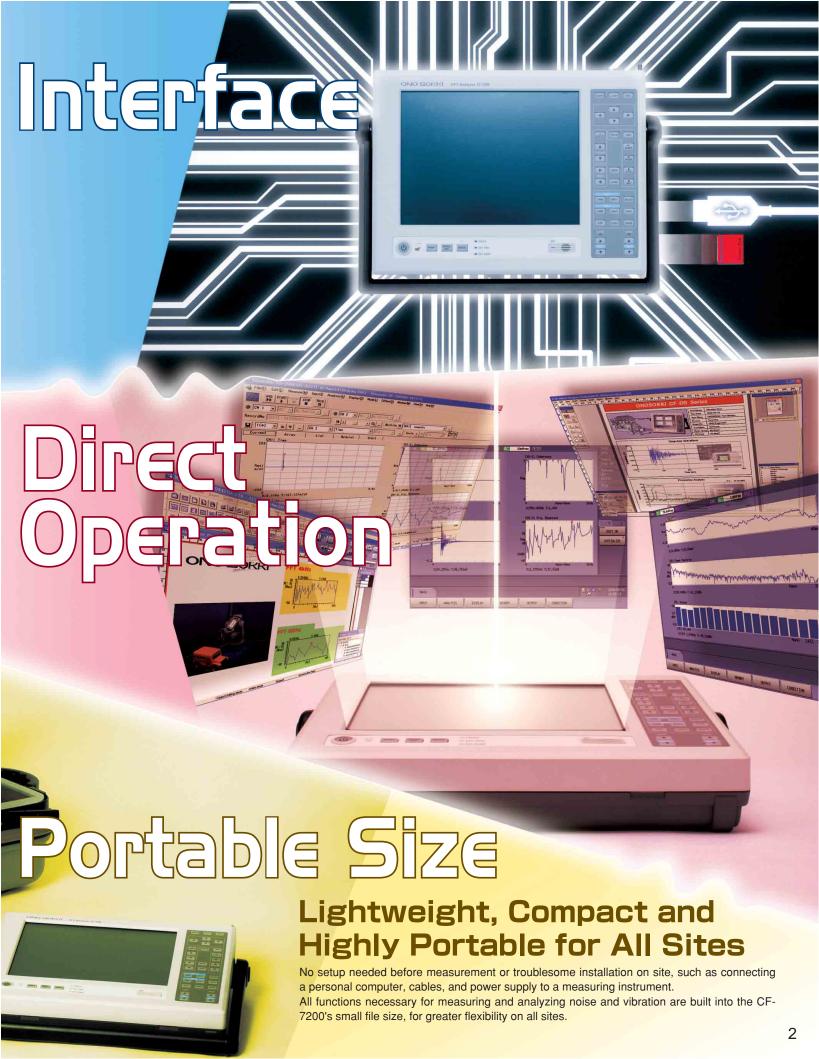


An Advanced FFT Analyzer Covering Sophisticated Needs on Site

The CF-7200 Has Arrived

In this easy-to-use FFT analyzer designed for modern needs, all aspects of the CF Series have been upgraded. With improved PC compatibility and a much smaller size of the main body, the CF-7200 delivers quick and easy measurement and analysis, yet with exceptionally high accuracy. Integrating all on-site needs into its compact body, the CF-7200 is a multifunctional high-performance analyzer that will become the de facto standard for the next generation.



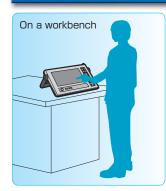


High On-site Flexibility Sets a New Standard for FFT Analyzers

All Field-oriented Functions Integrated into Small File Size

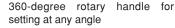


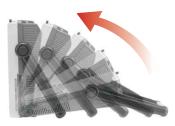
1 Flexible Placement for Good Visibility



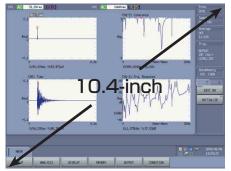








2 Highly Legible Large Screen with Easy Input



Thanks to the 10.4-inch TFT liquid crystal display, detailed data can be displayed even though QUAD display mode is selected. Simple and easy operation is also possible by touch panel.

3 Data Management by Entering Memos Directly



With the supplied stylus pen, comments, marks and memos can be entered directly, making it easier to recognize the working efficiency and data. Memos can be saved simultaneously and be shown or hidden.

4 Intuitive Button Operations



Selection of main data of the FFT analyzer, selection of the input voltage range and frequency range, and saving and loading of data can be performed directly from the hardware keys on the front panel. The CF-7200 offers simple, quick operations and much more. Even when observing a signal with unknown magnitude and frequency, an appropriate range and display conditions can be set with intuitive continuous button operations. And the signal output function can be turned on or off with the hardware keys, so signal output* can be started or stopped with a simple ON/OFF, preventing careless operations. Option)

5 Voice Memos Attached to Data





Equipped with a built-in microphone for voice recording and a speaker, voice memos can be attached to data and played back when the data is displayed, supporting data arrangements. There are also connectors for connecting an external speaker and microphone, allowing you to create voice memos even in a noisy place.

Input and Output Connectors Conveniently Arranged on Top



6 Automatic Sensor Data Input with TEDS

Each channel is equipped with a CCLD (power supply for sensors) which can directly drive an acceleration pickup, a microphone, and other sensors requiring a power supply. TEDS reads data retained in a TEDS sensor and then automatically supplies the power to the sensor and performs unit calibration.



* TEDS

TEDS, an abbreviation for Transducer Electronic Data Sheet, is an information description format for sensor-specific information, prescribed by the IEEE1451 Series. When TEDS data is implemented in a sensor, the sensor has a function called "plug-and-play sensor" which allows sensor data (sensitivity, weight, etc.) to be transmitted and recognized by a measuring instrument connected. As a result, troublesome unit calibration, which can easily lead to errors, can be performed automatically.

* CCLD

CCLD, an abbreviation for Constant Current Line Drive, a method for driving a constant-current type preamplifier incorporated in a sensor. Either an acceleration sensor or microphone with a built-in preamplifier can be driven by connecting it to a signal input terminal.

7 Direct Driving of Rotation Detector

Equipped with dedicated connectors which directly drive a rotation detectors*1 and can be used as an external sampling clock. This makes it easy to perform order ratio analysis*2 which analyzes vibration and noise of engines, motors, and other rotating machinery with rotation-based values.

*1 Applicable to the MP-981 /LG-916. *2 under development

8 Cable Disconnection Detecting Function

Automatically detects cable disconnection of an acceleration pickup and a microphone*, preventing trouble before measurement.

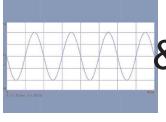
* Intended for sensors with a built-in constant-current type preamplifier.



Panel for rack mounting (for special orders)

Ono Sokki offers a panel which enables the CF-7200 to be rack-mounted.

9 Visual and Aural Check of Phenomena





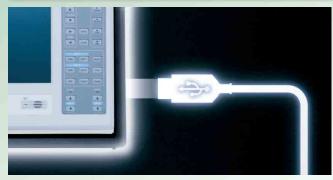


A raw signal coming from an acoustic or vibration sensor connected to each channel can directly be monitored as sound using a headphone or an external speaker. This makes it possible to check aurally whether an intended vibration or sound is input correctly as well as by waveform observation, allowing you to check sensor setup and operation intuitively and with your senses.

Meticulously Designed for Easy Operation on Site

Smooth Operations on a Desk

USB Mass-storage Function with Direct PC Connection



The USB mass-storage function makes it possible to transfer data of the CF-7200 to a PC through a USB cable* without having to remove a storage medium and without needing special software (Windows $^{\circ}$ XP).

* USB connector mini-B type

Data Recording Function



CF card capacity (bytes)	512M	1G	2G
Recording time (approx.)	8 minutes	16 minutes	33 minutes

2-channel, 100kHz-range, data only *Maximum record time at single time

The data recording function for recording a signal waveform in the CF-7200 at a touch of the REC button makes it possible to record long-time phenomena, which are difficult to be caught timely and the like in a memory card*. The recorded data can then be reproduced and analyzed on the CF-7200 at a later time and place. Data can also be analyzed using PC-based sound and vibration analysis software.

* Recording form at: ORF (Onosokki Record Format)



Accepts Large-capacity CF Cards



Data can be recorded in a high-speed 2GB CF card (compact flash memory card*), enabling long-time recording of a large volume of data.

* Recommended by Ono Sokki.

Saving Data Simultaneously in Various Data Formats

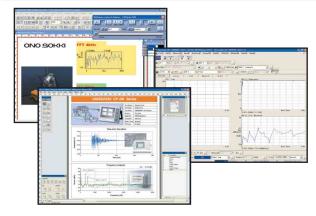






The DAT format (binary), TXT format and BMP format can also be saved simultaneously. Data can also be processed using Office software and pasted into reports. Since the underlying data in DAT format are securely saved, data can be displayed and processed using PC-based FFT software (DS-2000 Series, XN-8000 Series) and the CF unit.

Diverse Data Processing on a Desk



Data recorded by the CF-7200 can be reproduced and analyzed by various sound and vibration analysis software on a Windows®- based PC.

* See page 11 for details.



Outdoor noise analysis using the CF-7200 and an LA Series Sound Level Meter

Highly Portable Analyzer for Use Anywhere

Weighs just 3.5kg



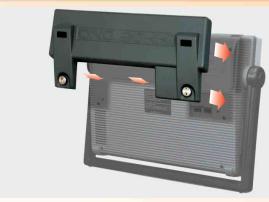
The main unit of the CF-7200 weighs about 3.5kg*, thanks to the simple and compact body for high portability.

* Excluding battery pack

Printing Function



4-hour Battery Operation



By using the detachable lithium rechargeable battery, the unit can run continuously for about 4 hours*. Measurement can be performed freely, even outdoors or where no power supply.

* Without signal output, at 25°C ambient temperature

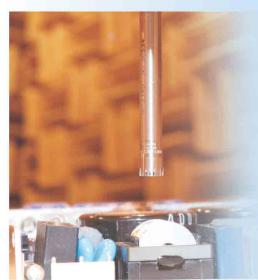
Remote Control



When the remote controller* (DS-0295) is connected to the CF-7200, three main operations can be performed in addition to analysis start/stop. Operating the CF-7200 from near the working or supervising position makes measurement much easier.

Option

State-of-the-art Technologies and High Specifications, All in a Compact Body



Frequency range

10mHz~100kHz

Voltage input range

10mVr~31.62Vr

Data recording

100kHz range max.,

Number of analysis points

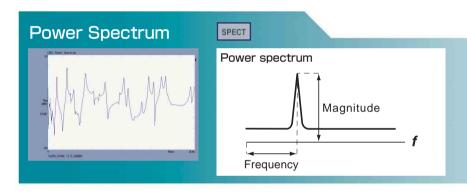
6400 points max.

ANALYSIS

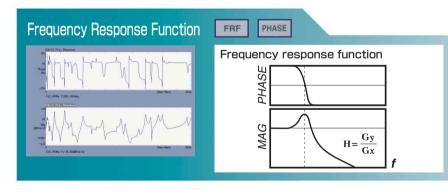
New Possibilities for Measurement and Analysis, from Laboratories to Production Sites

Time-axis Waveform Time-axis waveform Time-axis waveform

Performs A/D conversion of the raw waveform of an electrical signal of vibration, noise, pressure, strain, etc. coming from a sensor and then displays the result as time-domain data. The X-and Y-axis values at any point can directly be read using the search cursor. The delta cursor function makes it easier to read the time difference and level difference.



The power spectrum indicates the magnitude of frequency components contained in a sampled time-axis waveform. Frequency analysis enables detection of abnormal conditions of a facility, which are difficult to estimate through measurement of vibration and noise level and observation of raw time-axis waveform. The natural frequency of a structure can also be measured.



The frequency response function indicates the ratio of output to input and the frequency characteristics of phase difference. The resonant frequency and phase of a structure can easily be obtained accurately by entering the signal of vibration force generated to Ch1 by an impulse hammer or shaker and then inputting the response (signal of acceleration, velocity and displacement) to Ch2.

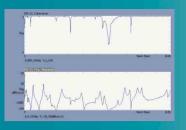


Hammering measurement with the CF-7200, GK-3100 Impulse Hammer and an NP Series Acceleration pickup

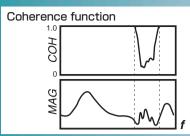


Analysis of micro-object using a LV Series Laser Doppler Vibration Meter and an electromagnetic shaker

Coherence Function

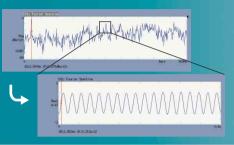


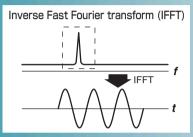
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The coherence function is for evaluating the linearity and correlation of input and output of a transmission system, obtained in the frequency domain. The rate of contribution of the input signal to the output signal is represented as a digit from 0 to 1 for each frequency, for evaluating the reliability of the frequency response function, locating a key factor from multiple noise and vibration sources, and evaluating the correlation.

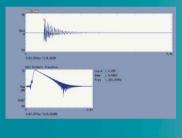
Inverse Fast Fourier Transform (IFFT)

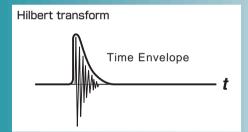




After frequency analysis, a time-axis waveform of a selected band can be obtained again by performing Inverse Fast Fourier Transform (IFFT) for the selected frequency band. For example, by selecting a waveform portion excluding an unnecessary frequency band confirmed in the FFT result and then performing Inverse Fast Fourier Transform (IFFT) for it, a time-axis waveform can be obtained with the selected high frequency band eliminated.

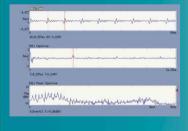
Hilbert Transform

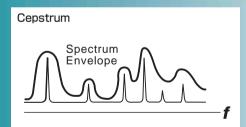




A logarithmic damping factor can be obtained by obtaining a time envelope of a time-axis signal by means of Hilbert transform.

Cepstrum





Cepstrum is obtained by performing Fourier transform of the power spectrum again, allowing detection of the periodicity contained in the spectrum. In addition, reflected waveforms can be eliminated and fundamental frequency extracted by estimating a spectrum envelope from the Cepstrum. Cepstrum can be applied to make an analysis of the sound waves, seismic waves, biowaves, etc.



Vibration measurement in a plant using the CF-7200 and an NP Series Acceleration pickup



Rotational vibration measurement of a large blower using the CF-7200

FUNCTION

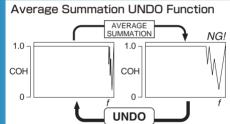
Multiple Applications with a Single CF-7200

EU Function EU Function Volt Pa Direct unit reading

The CF-7200 FFT analyzer can not only directly read values as a voltage (V) but also as a physical quantity. When the input sensitivity has been set and calibration with a reference signal performed for each sensor, waveform values are converted to physical quantities when displayed, eliminating the need to convert from voltage values to physical quantities.

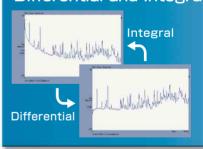
Average Summation UNDO Function



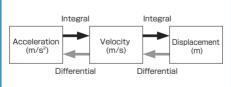


This function is used during average summation to UNDO one average summation. For example, if you end up with a bad result of summation in impulse hammer shaking, you can cancel the result data (by UNDOing the summation) and then try the summation again.

Differential and Integral Functions



Differential and Integral Functions

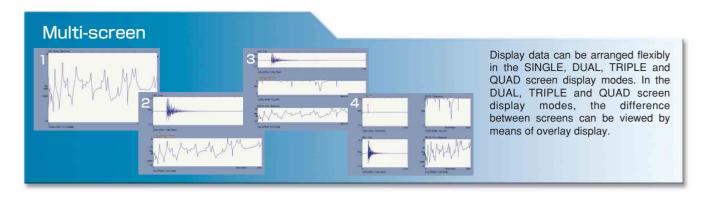


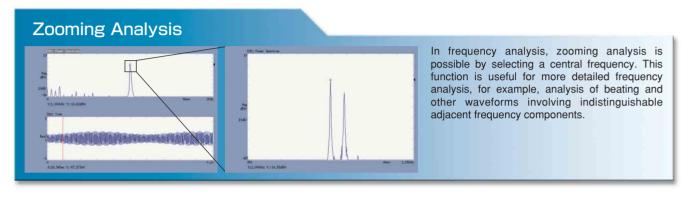
First and second order differential operations and single and double integral operations are possible for time-axis and frequency-axis waveforms. Acceleration data from an acceleration sensor can be converted to velocity and displacement; and velocity data from a laser Doppler vibration meter can be converted to acceleration and displacement and displayed. When the EU function is used together, unit conversion (among "m/s²", "m/s" and "m") is also performed automatically.

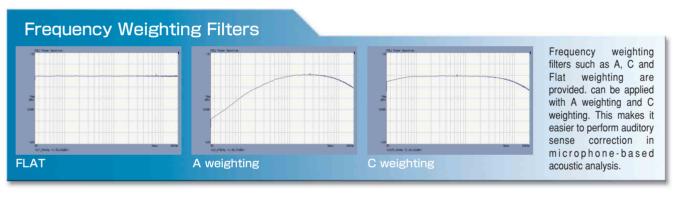
List Display



This function displays a list of X-axis and Y-axis values for selected points on a displayed waveform. Numeric list for 40 points selected, peak value list and harmonic list enable numeric values to be simultaneously checked for multiple points.

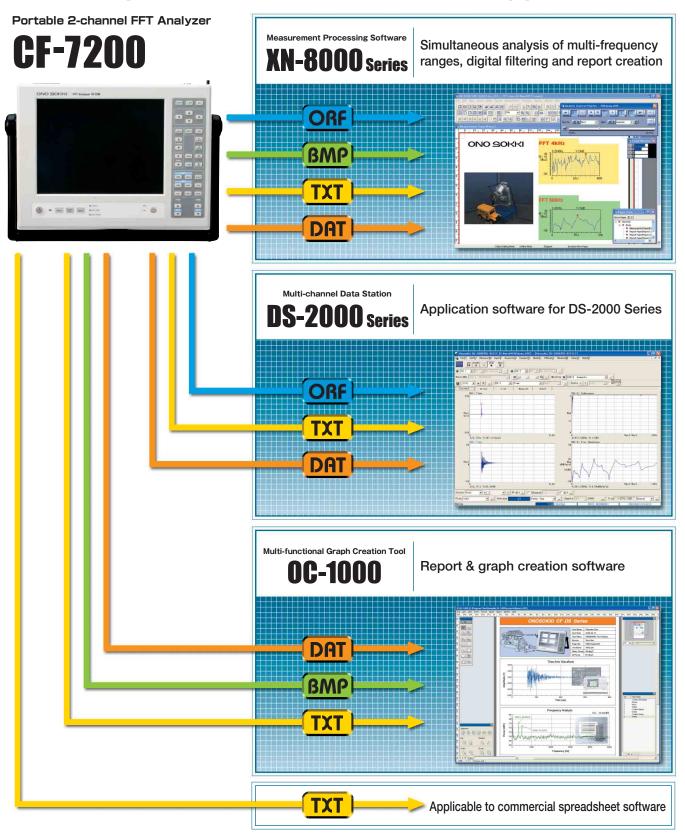








A Variety of Software for Diverse Applications



(Functions)

Function	CF-7200 Data Format
Offline analysis	ORF format
Report	DAT format, TXT format, BMP format

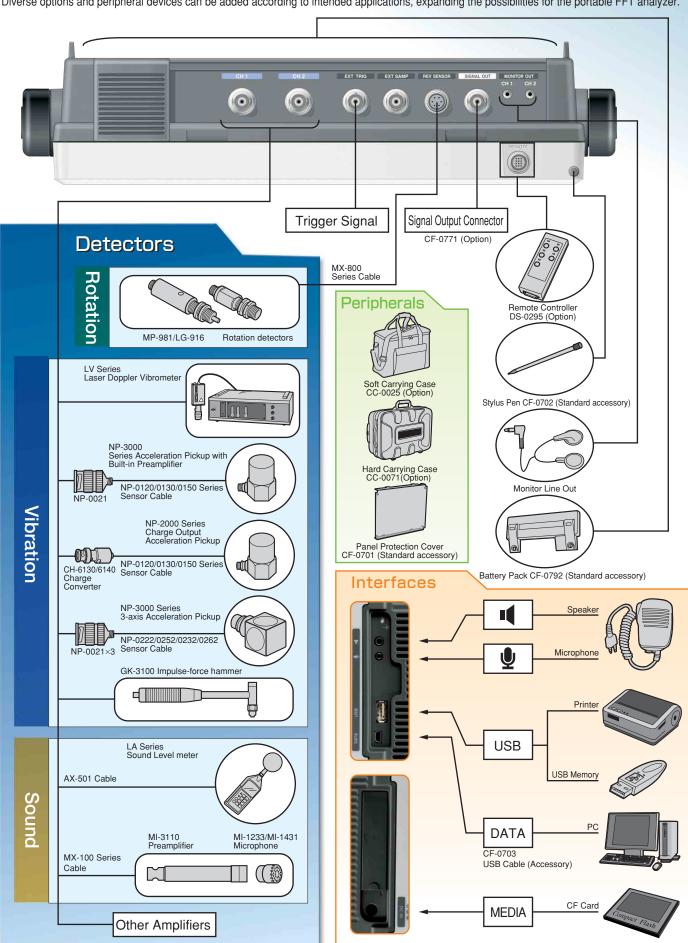
(Software)

Software	Model
XN-8000 series	XN-8100 (Platform) XN-0821 (FFT analysis function)
General-purpose FFT analysis software	DS-0221L
Report & graph creation software	OC-1000

^{*} Refer to catalogs for details.

System Configuration of CF-7200

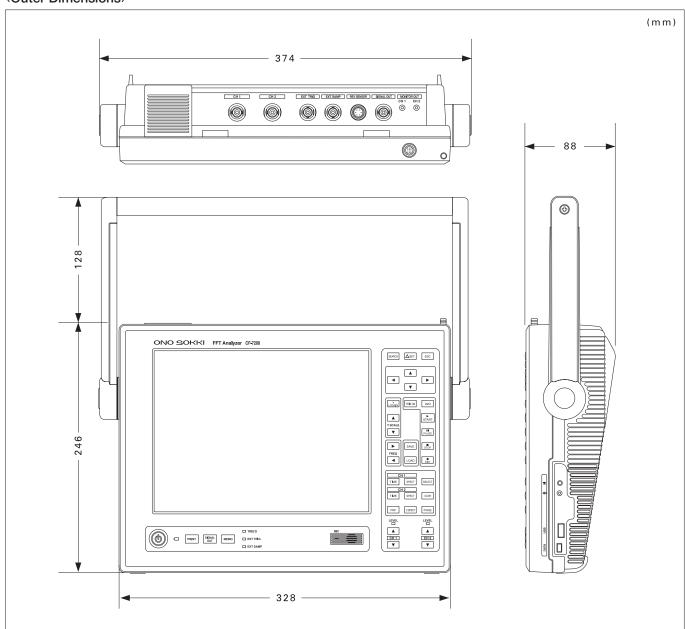
Diverse options and peripheral devices can be added according to intended applications, expanding the possibilities for the portable FFT analyzer.



Specifications of Portable 2-channel FFT Analyzer CF-7200

	2 Channels					-60dB F.S.	Auto zero ON 120 to	20dBVr range (DC coupling	
Input configuration	2 Channels Isolated single-ended				DO " .				
Input connector	BNC (C02 type				DC offset	-40dB F.S.	Auto zero ON, -30 to -4	10dBVr range (DC coupling	
input connector	` **	,	constant ou	rrent type sensor via a coaxial			llective operation of all c		
Power supply for sensor	cable from the						goes ON when trigger fu	nction turns ON	
(CCLD)	+24V/4mA					<u> </u>	nks when triggered		
IEEE1451.4 (TEDS)	Accepts an IEI	EE1451.4 (TEDS)-bas	ed sensor		Position	±8191		
Input impedance	1MΩ±0.5% 100pF or less				Mode	Free / Repeat / Single			
	AC -3dB at 0.5Hz or less Automatically set to AC when				Source	1 channel/2 channels/External trigger signal			
Input coupling	DC	_		CCLD is used.	Trigger	Slope	+/-/±		
Absolute maximum input voltage	100VrmsAC fo	or 1 minute ((50Hz)			Hysteresis level	Arbitrary setup		
		31.62Vr	(CC)			Trigger level	Arbitrary setup		
Amplitude voltage range	+20dBVr	10.00Vr					Input connector: BNC	(C02 type)	
	+10dBVr 0dBVr	3.162Vr					Input voltage: ±10V		
	-10dBVr	1.000Vr 0.3162Vr	-	40dBVr to 30dBVr in all 8 steps		External trigger	Input coupling: AC/D0	0	
	-20dBVr	0.100Vr		·			Input frequency: 100kH	Iz max	
	−30dBVr	31.62mVr					Hysteresis level: Arbitra	ary setup (default 500mV)	
	-40dBVr	10.00mVr					Input impedance: 100kg	Ω	
Input range step	10dB					A weighting filter,	Conforms to IEC 60651-	1979 TYPE1, ANSI S1.4-19	
Input level monitor	OVER			5% F.S. or more)	Filter	C weighting filter	TYPE1, and JIS 1505-		
•				en LED ON (-12dB F.S. or more)	(Simultaneous use of filters not possible)	High-pass filter	10Hz (-18dB / oct) 、1	100Hz (-18dB / oct)	
Auto range	Whenever the changes autor			ed, the amplitude voltage range	lillers flot possible)	Low-pass filter	1kHz (-18dB / oct) 、1	I0kHz (-18dB/oct)	
A/D	_ <u> </u>	natically ii ii	nput range-	over occurs.		i '	Input voltage: ±10 V/		
A/D converter	16 bits						Input impedance: 100kg		
Dynamic range	90dB or higher:			300 lines, Hanning window,		BNC (C02 type)	Input coupling: AC/DC		
	70dB or higher	r: -40dBVr r	ange 5	0 averages, 20°C, high-pass filter OFF		input		ary setup (default 500mV)	
Harmonic distortion	-80dB or less						<u> </u>	, , ,	
Aliasing	-80dB or less				External sampling input		input frequency: 256kHz	(direct sampling not possi	
Amplitudo flatacco	20kHz or less	±0.1dB					MP-981or LG-916		
Amplitude flatness	20kHz to 100k	Hz ±0.2dB	(0dBVr or	less)		DO2 DEE input	rotation detector ONO SOKKI's made		
Full-scale accuracy	±0.1dB		at 1kHz			R03-R6F input	(DC12V±0.6V, Max.	detectors	
Amplitude linearity	±0.015% at full scale			ale			100mA)		
Cross-talk	-100dB or less	<u> </u>	at ian oo	4.0		* BNC (C02 type) input or rotary encoder input is selected. Simultaneous input not post			
	20kHz or less:		B\/r or locc\	Gain accuracy measured	_	When the DS-0295 Remote Controller is connected, start / stop an			
Gain accuracy between channels	20kHz to 100kHz			in the same voltage range	Remote control		operations are possible.		
between enamicis	2014 12 10 10014 12	L0.LGD (00	2D 11 01 1000)			Sound input and	playback with a built-in n	nicrophone and speaker	
Phase accuracy	Phase accuracy measured in the same 20kHz or less: ±0.5deg (0dBVr or less) voltage range with Equalize OFF				Voice input/output	Voice memo can be stored by linking the measurement data. External connection has prior			
between channels	20kHz to 100kHz			Same voltage range ±0.1deg (typ.)	for voice memo	External MIC inpu	ernal MIC input: φ2.5 stereo mini jack input (L)		
	20KI 12 (0 100KI 12	<u></u> 1.000g (00	ub vi di less)	with Equalize ON		Estamal CDEAK		delie de control (L)	
2.Display Fu							ER output: φ3.5 stereo m		
Display mode	SINGLE scree TRIPLE screen di	n display m	ode / DUA QUAD screen	L screen display mode/ display mode/OVERLAY display mode	Search function	Delta function X Partial OA / Peak	mode / Y mode / XY mode / XY mode / Y mode / XY mode / X	ode rch enhance	
	SINGLE scree TRIPLE screen dis Harmonic	n display m splay mode/(QUAD screen	L screen display mode / display mode / OVERLAY display mode		Delta function X Partial OA/Peak rms/PEAK/0	mode/Y mode/XY mode/XY mode/Y mode/XY mode/XY mode/XY mode/XY mode/XY mode/XY mode/XY mode/Y mode/Y mode/Y mode/Y mode/Y mode/XY mode/Y mode/Y mode/XY mode/Y mode/XY mode/Y mode/XY mode/XY mode/XY mode/XY mode/Y mode/XY mo	ode rch enhance D/ESD	
Display mode	SINGLE scree TRIPLE screen dis Harmonic Peak list displa	n display mosplay mode/(QUAD screen y point list	L screen display mode / display mode / OVERLAY display mode /Octave list display	Search function Vertical axis unit	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co	mode/Y mode/XY mode/XY mode/Y mode/XY mode/XY mode/XY mode/XY mode/XY mode/XY mode/XY mode/Y mode/Y mode/Y mode/Y mode/Y mode/XY mode/Y mode/Y mode/XY mode/Y mode/XY mode/Y mode/Y mode/Y mode/Y mode/XY mode/Y mode/Y mode/Y mode/Y mode/Y mode/Y mode/XY mode/Y mode/XY mode/Y mode/Y mode/Y mode/Y mode/Y mode/Y mode/Y mode/Y mode/XY mode/XY mode/XY mode/Y mode/XY mode	ode rch enhance D/ESD	
Display mode	SINGLE scree TRIPLE screen dis Harmonic Peak list displa Input	n display m splay mode / (ay / Arbitrar Direct har	QUAD screen y point list	L screen display mode / display mode / OVERLAY display mode		Delta function X Partial OA / Peak rms / PEAK / 0 Automatic unit co differential operat	mode/Y mode/XY mode/XY mode/Y mode/XY mode/XY mode/XY mode/XY mode/XY mode/XY mode/XY mode/Y mode/Y mode/Y mode/Y mode/Y mode/XY mode/Y mode/Y mode/XY mode/Y mode/XY mode/Y mode/Y mode/Y mode/Y mode/XY mode/Y mode/Y mode/Y mode/Y mode/Y mode/Y mode/XY mode/Y mode/XY mode/Y mode/Y mode/Y mode/Y mode/Y mode/Y mode/Y mode/Y mode/XY mode/XY mode/XY mode/Y mode/XY mode	ode rch enhance D ∕ESD onversion by integral ∕ relocity ← acceleration)	
Display mode	SINGLE scree TRIPLE screen dis Harmonic Peak list displa Input Color	n display mode/(ay/Arbitrar Direct har 8 colors	QUAD screen y point list, ndwriting us	L screen display mode / display mode / OVERLAY display mode Octave list display ing a stylus pen	Vertical axis unit	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co differential operat Auto/Manual/0	mode/Y mode/XY mix/p-p/MAX-MIN/Sea -p/p-p/V/V2/PSI nversion function- Unit c ions (displacement	ode rch enhance D / ESD onversion by integral / velocity ← acceleration) nwrap function / Delay	
Display mode List display mode	SINGLE scree die TRIPLE screen die Harmonic Peak list displa Input Color Line type	n display mode/0 ay/Arbitrar Direct har 8 colors 3 different	QUAD screen y point list ndwriting us t thicknesse	L screen display mode / display mode / OVERLAY display mode Octave list display ing a stylus pen	Vertical axis unit Vertical axis scale Horizontal axis unit	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co differential operat Auto/Manual/I Hz/r/min/Ord	mode/Y mode/XY m x/p-p/MAX-MIN/Sea -p/p-p/V/V2/PSI nversion function- Unit c ions (displacement	ode rch enhance D / ESD onversion by integral / velocity ← acceleration) nwrap function / Delay	
Display mode List display mode	SINGLE scree TRIPLE screen dis Harmonic Peak list displa Input Color	n display mode/(ay/Arbitrar Direct har 8 colors	QUAD screen y point list ndwriting us t thicknesse	L screen display mode / display mode / OVERLAY display mode Octave list display ing a stylus pen	Vertical axis unit Vertical axis scale Horizontal axis unit Horizontal axis scale	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co differential operat Auto/Manual/I Hz/r/min/Orc Zooming with defe	mode/Y mode/XY mix/p-p/MAX-MIN/Sea -p/p-p/V/V2/PSI nversion function- Unit c ions (displacement	ode rch enhance D / ESD onversion by integral / relocity ← acceleration) nwrap function / Delay b) / s (sec) / EXT	
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Display mode List display mode Label function 3. Display U Size Type 4. Analysis Frequency accuracy Frequency range Sampling frequency Number of sampling points / analysis points Overlap processing Window functions	SINGLE scree die Harmonic Peak list displating lingut Color Line type Display nit 10.4-inch TFT color LCC Section ±0.005% of re 10mHz to 100 Frequency rar Number of sam 256 512 1024 2048 4096 8192 16384 MAX/66.7%. Rectangular/	n display m splay mode/(a) ay/Arbitrar Direct har 8 colors 3 different Show/hi with touch eading (±50kHz nge x 2.56 (i) pling points /50%/09 (Hanning/F	QUAD screen y point list. ndwriting us t thicknesse ide panel func ppm) internal sar Number of 100 800 1600 3200 6400 6 Flat-top. Fo	L screen display mode / display mode /OVERLAY display mode /Octave list display sing a stylus pen es tion mpling) analysis points	Vertical axis unit Vertical axis scale Horizontal axis unit Horizontal axis scale Calculation functions Resolution Lighting (back light) Time-axis waveform processing function Real-time analysis Search enhance	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co differential operat Auto/Manual/I Hz/r/min/Orc Zooming with def Differential and integre Hilbert transform, 800 x 600 dots Cold-cathode tub The time-axis wave First and second Absolute value convers 40kHz/2 channe Calculation resolu Y-axis accuracy Setting of numbee Averaging setup t Averaging can be Time domain Frequency domai A/D-over cancel	mode_Y mode_XY mm	ode rch enhance D/ESD onversion by integral/ velocity → acceleration) mwrap function/Delay b) /s (sec) /EXT n/Inverse Fast Fourier Transforr y half-value width method ustment can be selected with soft key a and double integrals ation/Smoothing/Hilbert convent (196 points) if (in 0.1-second steps) number of times or time. ge/Exponential average Exponential average/Peak hol sep average/Fourier average/Max ge	
Display mode List display mode Label function 3. Display U Size Type 4. Analysis Frequency accuracy Frequency range Sampling frequency Number of sampling points / analysis points Overlap processing Window functions	SINGLE scree die Harmonic Peak list displa Input Color Line type Display nit 10.4-inch TFT color LCC Section ±0.005% of re 10mHz to 100 Frequency rar Number of sam 256 512 1024 2048 4096 8192 16384 MAX 66.7%, Rectangular	n display m splay mode/(a) ay/Arbitrar Direct har 8 colors 3 different Show/hi with touch eading (±50kHz nge x 2.56 (i) pling points /50%/09 (Hanning/F	QUAD screen y point list. ndwriting us t thicknesse ide panel func ppm) internal sar Number of 100 800 1600 3200 6400 6 Flat-top. Fo	L screen display mode / display mode /OVERLAY display mode /Octave list display sing a stylus pen es tion mpling) analysis points price / Exponential / User-defined	Vertical axis unit Vertical axis scale Horizontal axis unit Horizontal axis scale Calculation functions Resolution Lighting (back light) Time-axis waveform processing function Real-time analysis Search enhance	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co differential operatt Auto/Manual/I Hz/rmin/Orc Zooming with def. Differential and integre Hilbert transform, 800 x 600 dots Cold-cathode tub The time-axis wave First and second Absolute value convers 40kHz/2 channe Calculation resolu. Y-axis accuracy Setting of numbe Averaging setup to Averaging can be Time domain Frequency domain A/D-over cancel Averaging permiss	mode_Y mode_XY mm	ode rch enhance D/ESD onversion by integral/ velocity → acceleration) nwrap function/Delay b) /s (sec) /EXT n/Inverse Fast Fourier Transforr y half-value width method ustment can be selected with soft key a and double integrals ation/Smoothing/Hilbert convent 196 points) 6 1 (in 0.1-second steps) number of times or time. 199 /Exponential average Exponential average/Fourier average/Max 199 /Exponential average/Peak hol 199 /Exponential avera	
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Display mode List display mode Label function 3.Display U Size Type 4. Analysis Frequency accuracy Frequency range Sampling frequency Number of sampling points analysis points Overlap processing Window functions Delay function	SINGLE scree die Harmonic Peak list displa Input Color Line type Display nit 10.4-inch TFT color LCC Section ±0.005% of re 10mHz to 100 Frequency rar Number of sam 256 512 1024 2048 4096 8192 1024 MAX/66.7%, Rectangular/	n display m splay mode/(a) ay/Arbitrar Direct har 8 colors 3 different Show/hi by with touch cading (±50 kHz nge x 2.56 (i pling points /50%/09 'Hanning/F	QUAD screen y point list. ndwriting us t thicknesse ide panel func Dppm) internal sar Number of 100 200 400 3200 6400 66 Flat-top/Fo	L screen display mode/ display mode/OVERLAY display mode Octave list display sing a stylus pen es tion mpling) analysis points price/Exponential/User-defined syed by 0 to 8191	Vertical axis unit Vertical axis scale Horizontal axis unit Horizontal axis scale Calculation functions Resolution Lighting (back light) Time-axis waveform processing function Real-time analysis Search enhance Averaging mode	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co differential operat Auto/Manual/I Hz/r/min/Orc Zooming with def Differential and integre Hilbert transform, 800 x 600 dots Cold-cathode tub The time-axis wave First and second Absolute value convers 40kHz/2 channe Calculation resolu Y-axis accuracy Setting of numbee Averaging setup t Averaging can be Time domain Frequency domai A/D-over cancel Averaging permiss 32-bit floating poi	mode_Y mode_XY mm	ode rch enhance D/ESD onversion by integral/ relocity → acceleration) nwrap function/Delay b) /s (sec) /EXT n/Inverse Fast Fourier Transforr y half-value width method ustment can be selected with soft kee e and double integrals ation/Smoothing/Hilbert conver 196 points) fun 0.1-second steps) number of times or time. ge/Exponential average Exponential average/Peak hol pea average/Fourier average/May ge el/ +1)/Averaging undo funct informat)	
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Display mode List display mode Label function 3. Display U Size Type 4. Analysis Frequency accuracy Frequency range Sampling frequency Number of sampling points / analysis points Overlap processing Window functions Delay function	SINGLE scree die Harmonic Peak list displating lingut Color Line type Display nit 10.4-inch TFT color LCC Section ±0.005% of re 10mHz to 100 Frequency rar Number of sam 256 512 1024 2048 4096 8192 16384 MAX/66.7%, Rectangular/ Time frame of points with ref Time-axis waw Amplitude prot	n display m splay mode/(a) ay/Arbitrar Direct har 8 colors 3 different Show/hi Direct har 9 colors 1 different Show/hi Direct har 1 different Show/hi Dir	QUAD screen y point list. ndwriting us t thicknesse ide panel func Dppm) internal sar Number of 100 200 400 800 1600 3200 6400 6 can be dela hannel 1.	L screen display mode / display mode / OVERLAY display mode / Octave list display sing a stylus pen es tion mpling) analysis points price / Exponential / User-defined syed by 0 to 8191 on function / Cross-correlation function / Amplitude probability distribution	Vertical axis unit Vertical axis scale Horizontal axis unit Horizontal axis scale Calculation functions Resolution Lighting (back light) Time-axis waveform processing function Real-time analysis Search enhance Averaging mode FFT operation on/Impulse response/Confunction	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co differential operat Auto/Manual/I Hz/r/min/Orc Zooming with def Differential and integre Hilbert transform, 800 x 600 dots Cold-cathode tub The time-axis wave First and second Absolute value convers 40kHz/2 channe Calculation resolu Y-axis accuracy Setting of numbee Averaging setup t Averaging can be Time domain Frequency domai A/D-over cancel Averaging permiss 32-bit floating poi	mode_Y mode_XY mm	ode rch enhance D/ESD onversion by integral/ relocity → acceleration) nwrap function/Delay b)/s (sec)/EXT n/Inverse Fast Fourier Transforr y half-value width method ustment can be selected with soft key e and double integrals ation/Smoothing/Hilbert conver 196 points) for (in 0.1-second steps) number of times or time. ge/Exponential average Exponential average/Peak hol pea average/Fourier average/Max ge el/ +1)/Averaging undo funct informat)	
Display mode List display mode Label function 3.Display U Size Type 4. Analysis Frequency accuracy Frequency range Sampling frequency Number of sampling points / analysis points Overlap processing Window functions Delay function 5.Processir Time domain	SINGLE scree die Harmonic Peak list displating lingut Color Line type Display nit 10.4-inch TFT color LCC Section ±0.005% of re 10mHz to 100 Frequency rar Number of sam 256 512 1024 2496 8192 16384 MAX 66.7%, Rectangular Time frame of points with ref Ig Funct Time-axis wav Amplitude prot Spectrum	n display m splay mode/(spay/Arbitrar Direct har 8 colors 3 different Show/hi Show/hi	QUAD screen y point list. ndwriting us t thicknesse ide panel func Dppm) internal sar Number of 100 200 400 800 1600 3200 6400 6 can be dela hannel 1.	L screen display mode / display mode /OVERLAY display mode /Octave list display sing a stylus pen es tion mpling) analysis points price / Exponential / User-defined syed by 0 to 8191	Vertical axis unit Vertical axis scale Horizontal axis unit Horizontal axis scale Calculation functions Resolution Lighting (back light) Time-axis waveform processing function Real-time analysis Search enhance Averaging mode FFT operation on/Impulse response/Confunction	Delta function X Partial OA/Peak rms/PEAK/0 Automatic unit co differential operat Auto/Manual/I Hz/r/min/Orc Zooming with def Differential and integre Hilbert transform, 800 x 600 dots Cold-cathode tub The time-axis wave First and second Absolute value convers 40kHz/2 channe Calculation resolu Y-axis accuracy Setting of numbee Averaging setup t Averaging can be Time domain Frequency domai A/D-over cancel Averaging permiss 32-bit floating poi	mode_Y mode_XY mm	ode rch enhance D/ESD onversion by integral/ relocity → acceleration) nwrap function/Delay b) /s (sec) /EXT n/Inverse Fast Fourier Transforr y half-value width method ustment can be selected with soft kee e and double integrals ation/Smoothing/Hilbert conver 196 points) fun 0.1-second steps) number of times or time. ge/Exponential average Exponential average/Peak hol pea average/Fourier average/May ge el/ +1)/Averaging undo funct informat)	
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6.Memory Fu									
	Frequency rar		00kHz(M		File format			simultaneously with three different format	
	Recorded channels		Ch1&Ch2 (Max.100kHz),Recording of single channel is not possible. 2GB: Approx. 33 minutes		Panel condition memory	DAT, TXT and BMP(TXT and BMP selectable). 10 types			
	Recording time			x. 33 minutes h2 at 100kHz)	Contents of panel	- ''	rameters wh	ich can reproduce all software and	
	Recording for		RF	,	condition memory			anel condition memory mode.	
Data record	Max. recordable mem	ory capacity 2G	GB (in a C	F card slot)	Voice memo memory	200 data items	s or less (dep	pending on the CF card capacity)	
	Record number			mbering by main unit start/stop operation	Handwritten memo memory			pending on the CF card capacity)	
	Event mark nu			mbering by [MARK] button operation		Main unit built	in memory (fixed) or CF card can be selected.	
	Off-line analys	is 🛏	RF Tanalusia ia	possible at recording frequency range or lower.	December device	Main unit built	in memory	x1 (Cannot be replaced by user)	
	Marria			0 1 7 0	_	Card slot (CF		x1	
Data file	Max. recordate memory capa			ms, 10 record data items on the CF card capacity)		CF card inserti removal warnii		When LED (green) is lit, insertion or removal of memory card is inhibited.	
7.Output Fu	nctions	,							
		Number of	f ports	2		Printer interfac	е	USB	
Interface	USB	Standard		USB Ver.1.1/2.0 (High Speed)	Printer output	Device	Accepts the	rmal printers of recommended model	
IIIteriace	035	USB (type	e A)	For USB1.1 printer/USB memory	Filiter output	Source	On-line data	ı	
		DATA (mini	mini B type) For USB2.0 USB node function				Saved data		
	Number of connectors	1					2	Each connector outputs Ch1 or Ch2 da	
	Maximum output	100mW or	r more		Manife			6 for input voltage range F.S. (1kHz sine wave, 1MΩ loa	
External SPEAKER output	Impedance	8Ω Dlaw book			Monitor output	 	Approx. 33Ω		
	Voice memo Connector	Play back		eo mini jack (L)		Source Connector	Input signal ϕ =2.5 mona	(after analog filtering)	
	Output adjustment	· · ·		o mini jaon (L)		JOHNEGIOI	y-2.0 111011d	urar jaun	
8.Signal Ou				n					
Number of channels	1		- optio			0.1mHz to 100	kHz (sine wa	ave)	
Output connector	BNC (C02 typ	e)			Frequency range	Band limiting n		/	
D/A converter	16 bits				Harmonic	-70dB or less			
Maximum output voltage	±10V (Amplit	ude + DC o	offset)		distortion		Prescribed with 1V ₀ -p amplitude value		
Amplitude resolution	Approx. 2.5m		,					AL OUT button(Turned off at the time of activation	
Offset resolution	Approx. 5mV					ON/OFF for ea		,	
Output format	Unbalanced of	utput			Output ON/OFF	ON	LED goes	s on when ON.	
Protection circuit	Short-circuit p					OFF		s off when OFF.	
Isolation	No isolation		plation bet	ween chassis and digital common		Sine wave	1 9		
	0Ω Low impedance output (unbalanced)				Swept sine				
Output impedance	50Ω	±10%		o datpat (diribalaricod)	Output	Pseudo randor	n		
				ania diatortian	waveform	Random			
Output current 50mA (If 10mA is exceeded, harmonic distortion, flatness, and crest factor are not prescribed.)				Impulse					
	Continuous			· · · · · · · · · · · · · · · · · · ·	Analysis frame length	256 to 4096			
		Can be se	et from 1 t	o 32767 in 1-cycle steps	Zoom mode analysis	Possible for all	waveforms		
Outrout made			nterval 62.5 µs to 524s (Can be set in 62.5-µs steps)		Cnostrum flatnoss	±1.0dB or less	20kHz-1	100kHz	
Output mode	Burst	Single-sho			Spectrum flatness	±0.2dB or less	0-20kHz	Z	
		Continuou				Sine wave	About 1.4	¥1	
		Time setu	ıp is possi	ble.		Swept sine	About 1.4	4 to 1.6	
			dually increased or		Crest factor	Pseudo randor	n 3.3 or les	s	
Taper function	decreased when the signal is turned on or off.					Random	3.3 or les		
raper ranotion	Taper rising time 1ms to					Impulse	32.0 or le		
	Taper falling t			1-ms steps)	Pink filter	Analog filter: -3	3dB ∕ oct ±1	.0dB (prescribed for 20Hz to 20kHz)	
9.Miscellan	eous Fu	nction	S						
Condition view	List display of	condition s	ettings	rmat of condition	Clock	-		d time (hour, minute, second)	
	Can be saved	III LIIE XIVIL	- (1 ex() 10	rmat of condition.	Operation beep			conjunction with ON/OFF of warning beep	
10.0	0				Warning beep	Can be turned	on or off (in c	onjunction with ON/OFF of operation bee	
10.General		_							
Power requirement	Input voltage	10.5 to 1			Outside dimensions (not including			H) (battery not mounted) / 328mm(W) x 246mm(D)	
Power connector				ve electrode, Inner side: Positive electrode	the handle and protrusions)	120mm(H) (battery mounted) / Refer to outer dimensions for details			
Power consumption	About 60 VA (AC adapter	used)		Suspension of chassis	VESA standard 100 x 100 (mm) / Can be suspended by attaching a φ5 ada			
Operating temperature range	0 to +40°C	oludina ac	ovtorna! -	ocendary bettery)	Stylus pen	Can be stored in the main unit (accessory) 0° (top level position)/30°/60°/90°/110°/130°/180° (bottom level position)			
Storage temperature range	Grounding ten			econdary battery)	Carrying handle position		Forced-air cooling by an electric fan		
Eupotional grounding torminal	Grounding (en	a. 101 1101	noc ellililli	auon	Main unit cooling			(Reference value)	
Functional grounding terminal					Weight			g (battery pack mounted)	
Functional grounding terminal					12.Battery I				
	ter (soe	0W15P-	-03)						
11.AC Adap			-03)		Battery	l Lithium ion sec		er v	
11.AC Adap	ter (SQ6 100 to 240VA 50/60Hz		-03)		Battery Shape	Lithium ion sed Fixed to the re		•	
11.AC Adap	100 to 240VA 50/60Hz		-03)		Shape	Fixed to the re	ar section of	the main unit (detachable)	
11.AC Adap	100 to 240VA		.03)		-	Fixed to the re Operates for 4 h	ar section of ours under sta	•	
11.AC Adap Input voltage Input frequency Output voltage	100 to 240VA 50 / 60Hz Rating 15V				Shape	Fixed to the re Operates for 4 h Signal output op	ar section of ours under sta tion not mount naining battery	the main unit (detachable) undard operating conditions (2ch FFT analysis, sed / 25°C room temperature with a new batter	
11.AC Adap Input voltage Input frequency Output voltage Output current	100 to 240VA 50 / 60 Hz Rating 15V Rating 4A				Shape Operating time Remaining battery	Fixed to the re Operates for 4 h Signal output op Displays the rem 4-level display.	ar section of ours under sta tion not mount naining battery	the main unit (detachable) undard operating conditions (2ch FFT analysis.	
11.AC Adap Input voltage Input frequency Output voltage Output current	100 to 240VA 50 / 60 Hz Rating 15V Rating 4A				Shape Operating time Remaining battery level display	Fixed to the re Operates for 4 h Signal output op Displays the rem 4-level display. Displays a war	ar section of ours under sta tion not mount naining battery ning messag	the main unit (detachable) undard operating conditions (2ch FFT analysis und / 25°C room temperature with a new batter level when operating on the secondary batter	



⟨Main	Unit	>
/IAICIIII	Ollic	/

Model Name	Product Name
CF-7200	Portable 2-channel FFT Analyzer

(Standard Accessories)

Model Name	Product Name
CF-0792	Battery Pack
CF-0701	Panel Protection Cover
CF-0702	Stylus Pen
CF-0703	USB Connection Cable
SQ60W15P-03	AC Adapter

⟨Options⟩

· · · · · · · · · · · · · · · · · · ·	
Model Name	Product Name
CF-0771	1Ch Signal Output Module
CC-0025	Soft Carrying Case
CC-0071	Hard Carrying Case
DS-0295	Remote Controller
	Rack Mount Adapter

⟨Recommended Products⟩

Model Name	Product Name
SDCZ2- 512-J65A	USB memory 512MB (Cruzer mini)
SDCFH- 512-903	CF card 512MB (Sandisk Ultra)
SDCFH- 1024-903	CF card 1GB (Sandisk Ultra II)
BL-112UI	Thermal printer
HM-131	Speaker microphone

ONO SOKKI

*Outer appearance and specifications are subject to change without prior notice.

URL: http://www.onosokki.co.jp/English/english.htm

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