

AD-3527

PORTABLE FFT ANALYZER

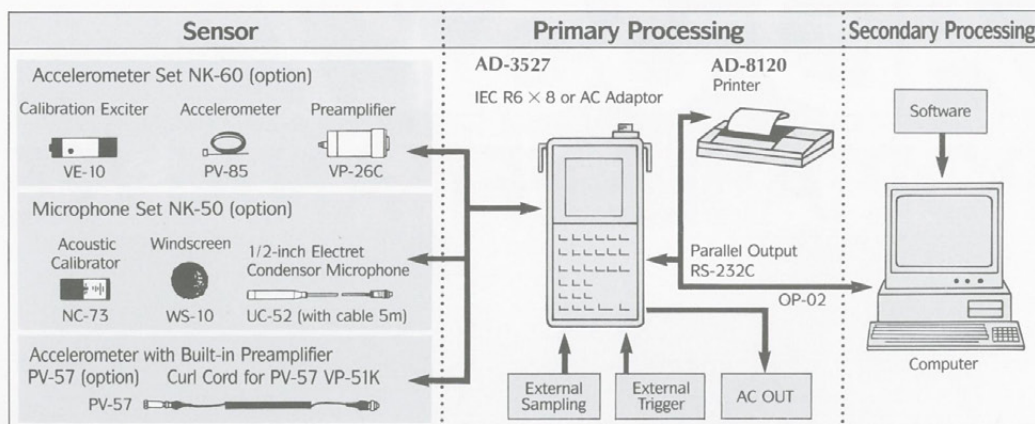


- Concentrating a FFT Analyzer's basic functions into an ultra-small, lightweight body.
- Excellent system expandability for printer or personal computer connections.
- Perfect for inspection and maintenance of factory equipment or in the laboratory.
- The AD-3527 is a compact single-channel FFT Analyzer with the functions you need for vibration or noise field measurement.

AND
A&D Company, Limited

System Configuration

The AD-3527 is equipped with a Preamp Input Terminal for accelerometer or microphone set connection. By connecting a printer or personal computer, you can printout a hard copy or store data to disk. The AD-3527 is flexible to meet your needs.



Specifications

DISPLAY UNIT

Analysis Displayed Time Waveform, Spectrum, Amplitude Probability Density Function
 Display LCD (128×128 dots)
 Marker Units V, dBV, Vrms, dVrms, EU, dB EU
 Display Contents Data, Setting Condition, Menu, Marker Values, Grid, Harmonic Lines

	Y-axis	X-axis
Spectrum	Logarithm Indication: 80, 40, 20 dB Linear Indication: Magnification 2 ⁿ (n=0 to 7)	Hz, KCPM, ORDER
Time Waveform	Magnification 2 ⁿ (n=0 to 7)	ms Magnification 32
Amplitude Probability Density	Range: 1, 2.5, 5, 10, 25, 50, 100%	64 data with the resolution of 1/32 of full scale
Phase	-180°~+180°	Hz, KCPM, ORDER

INPUT UNIT

Number of Channels One
 Input Filters -18dB/octave (ON/OFF possible) (High-pass/Low-pass)
 Anti-aliasing Filter -95dB/octave or more
 Detector Detection of absolute value for envelope processing
 Input Coupling AC, DC

TRIGGER UNIT

Trigger Modes Free-run, Single Shot Trigger, Multi-single Shot Trigger
 Trigger Sources Input Signal, External Signal

ANALYSIS UNIT

Number of Sampling Points ... 1 Frame=256, 512, 1024, 2048 points
 Frequency Ranges 100Hz to 50kHz (1-2-5 step range)
 A/D Converter 12-bit
 Dynamic Range 72dB
 Lines of Display 100 to 800 lines

Zooming ×1, ×2, ×4, ×8. Calculation of 256 points (101 lines), 512 points (201 lines), 1024 points (401 lines), 2048 points (801 lines) is performed and displayed in 101 lines. Frequency shift is performed and partial data is zoomed.
 Averaging 2 to 8000 times
 Averaging Modes Arithmetic, Exponential, Peak Hold
 Secondary Processing Any FFT for stored Time Waveforms, Averaged Waveform, Differential and Integration of up to twice marker value.

MEMORY UNIT

Memory Section 30,720 points at maximum screen (battery backup) (manual or auto-store).

DATA OUTPUT AND CONTROL INPUT

Interface RS-232C
 Parallel output for printer
 AC output terminal 3.54Vrms (for full scale)

GENERAL SPECIFICATIONS

Power Source IEC R6 or ANSI AA battery ×8 (alkaline=approx. 10h for continuous operation, manganese=approx. 4h for continuous operation), AC adaptor, Memory Backup Battery (lithium CR-1/3N)
 Dimensions Approx. 210(H)×110(W)×40(D)mm
 Weight Approx. 650g (including batteries)
 Operating Temperature 0 to 50°C, less than 90% RH

STANDARD ACCESSORIES

3527 Main Unit ×1	External Input Adaptor JM:UA-01 ... ×1
IEC R6P Battery ×8	Plug, Cap AV-25, MC-08 ×1 pair
Lithium Battery CR-1/3N ×1	Strap NA-29-003 ×1
External Output Cable KO:CC-24 ... ×1	Storage Case CF10-D ×1

Notice; Specifications subject to change for improvement without notice.



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