IE-33 SPECIFICATIONS

IE-33 SPECIFICATIONS AND FEATURES

FUNCTIONS:
- Real Time Analyzer
- Sound Pressure Level Meter
- Seat-To-Seat SPL
- Strip Chart Recorder
- Polarity Checker
- Oscilloscope: Dual Trace and XY
- Signal Generator
- Electrical Measurements
- RT-60 (Optional)

REAL TIME ANALYZER:
FFT based with:
- 1/1,1/3,1/6 Octave bands from 20 Hz to 20 kHz on ISO centers
- Max Resolution of 2048 data points
- Max Res Display: 240 frequency data points
- Display can be "weighted" with A, C, or Flat filters
- Accuracy +/- 0.5dB
- Adjustable display decay
- Peak-detect and hold
- Frequency detection display
- Continuous, solid-bar or LED style display
- Continuous or Individual Sample Averaging
- NC/NR
- (F)STC, STC, (N)NIC, NIC

SOUND LEVEL METER:
- Response modes: Fast, Slow, Impulse, Peak
- Display: Four-digit readout with 0.1dB resolution
- Selectable filter weighting: A, C, Flat
- Octave bandwidths @ 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz
- Meets ANSI S1.4-1983 Type II with supplied microphone; Type I with optional Type I microphone preamp and capsule.

SEAT-TO-SEAT:
- Seat-to-seat SPL measurement
- Absolute, Relative and Min/Max

STRIP CHART RECORDER:
- Amplitude vs time
- Recording time: Continuous to 8 hours
- Data can be stored to a file

POLARITY CHECKER:
- Built-in pulse generator
- Electrical and Acoustic input/output

SIGNAL GENERATOR:
- Sine wave
- Square wave
- Triangle wave
- White Noise
- Pink Noise

ELECTRICAL MEASUREMENTS:
- Oscilloscope: Dual Trace and XY
- Voltage Measurements:
  - AC Volts
  - dBu
  - dBV
  - AC V

MICROPHONE:
Supplied microphone (Type II):
- Element: Electret Condenser
- Directional Pattern: Omni directional
- Frequency Response: 20 Hz to 20 kHz
- Remotable with optional cable

Optional microphone (Type I):
- Ivie IE-2P preamp/power supply
- Ivie 1133 or 1134 mic capsule
- Element: Air Condenser
- 200 Vdc Polarization
- Directional Pattern: Omni directional
- Frequency Response: 10 Hz to 20 kHz

MEMORIES:
- 9 Temporary or "Scratch"
- 1 "Preferred or offset"
- 1 Subtraction
- 1 Peak
- Single button push to save a memory

All temporary memories can be named and stored as standard delimited files. The maximum number of files is limited only by available memory on the Pocket PC.

Memories are stored at maximum resolution (2048 data points) regardless of RTA resolution setting.

MECHANICAL:
- Height: 5.3 in, 135 mm
- Width: 3.3 in, 84mm
- Depth: 1.8 in, 46 mm
- Weight: 1 lb 7 oz (.65 kg)

ENVIRONMENTAL:
Temperature Range:
- Operating: 32 to 104 F, 0 to 40 C
- Non-operating: -22 to 140 F, -30 to 60 C

Relative Humidity:
- Operating: 10 to 90%
- Non-operating: 10 to 90%

Maximum Altitude:
- Operating: 0-15,000 ft., 0-9,500 m, 14.7 to 10.1 psia
- Non-operating: 0-15,000 ft, 14.7 to 10.1 psia

THERE'S ALWAYS MORE TO COME!

The IE-33 software is continually evaluated and upgraded. Numerous free enhancements will continue to be added to the software to enhance the versatility and focus of the IE-33. More extensive software enhancements may require a purchase.

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Ivie reserves the right to change, augment, enhance, modify, add features, etc. to the IE-33 software without prior notice.

THE INDUSTRY'S BEST AUDIO PROBLEM SOLVER!

New! RT-60 Software Option Now Available!

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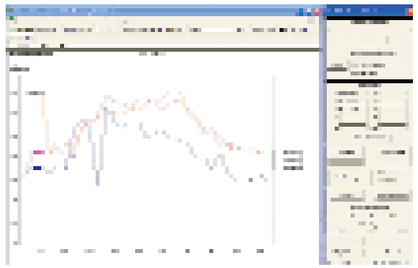
MINIATURE HANDHELD ACOUSTIC ANALYZER

3.5" x 7"
small, calibrated,
type-accepted
and affordable

Standard Feature: IvieXLS



After transferring data files to your PC, you may create graphs, make comparisons and customize reports.

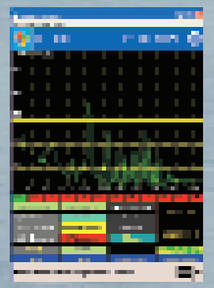
A Long And Reliable History

Ivie set the standard years ago for real-time audio analyzer concepts with the introduction of the IE-30A. Today, even more is available in the IE-33's palm-size package. Yes, it's been a long time since an instrument this revolutionary has been introduced, but we think you'll agree–it's been worth the wait. After all, it's an Ivie!

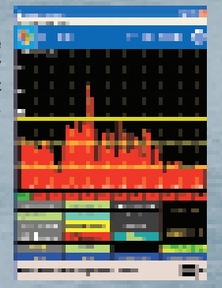
1978-2004 IE-30A

IE-33 STANDARD FEATURES

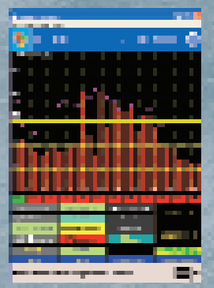
Max Res
Shows real time audio spectrum from 20 Hz to 20 kHz over 240 pixels giving up to 1/24 octave display above 125 Hz.



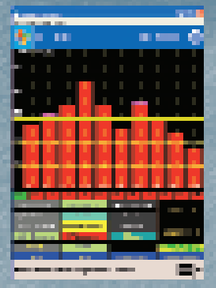
1/6 Octave
Displays sixty 1/6 octave bars at ISO centers.



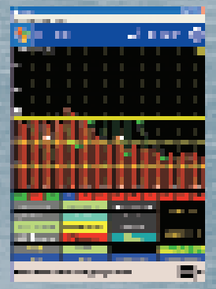
1/3 Octave
Displays thirty 1/3 octave bars at ISO centers with Peak Hold. Different weighting and integration can be applied to RTA as well as SPL window.



1/1 Octave
Displays ten octave bars at standard ISO center frequencies and SPL window.

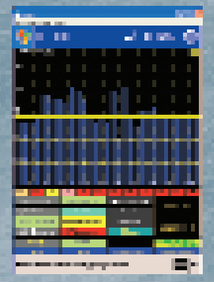


Sampling and Scratch Memories
The row of twelve buttons (R, A, 1, 2, 3, 4, 5, 6, 7, 8, 9, PE) allows both control of what is viewed on screen and the ability to store data in "Scratch" memories."

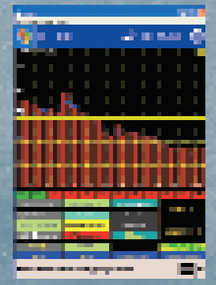


Memory Management
Allows storing, loading, and clearing of scratch memories, averages, and preferred or "target" curves. Virtually unlimited storage space.

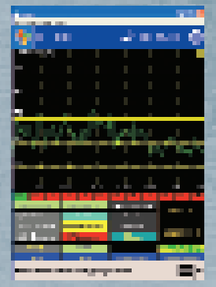
Subtraction
Allows for "differencing" a stored curve against the real time curve or another stored curve. Useful in equalizing a room to a standard curve.



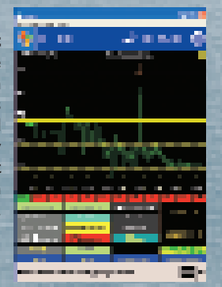
Averaging
A powerful feature allowing a user to create continuous or triggered averages as well as select the type of average–power or arithmetic.



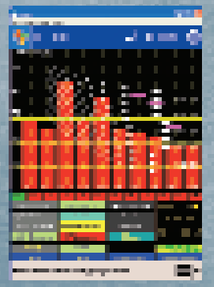
LF Zoom
Increases low frequency resolution (1.2Hz) and focuses the display from 20 Hz to 2 kHz. Helps to identify ring modes, feedback frequencies, standing waves and other LF phenomena.



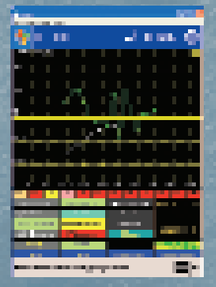
Freq Detect
A cursor can be activated which constantly searches the spectrum and displays the frequency of the highest amplitude found in the spectrum.



NC
NC contours can overlay the RTA octave bars while providing a real time calculation of the NC value. (NR also available.)

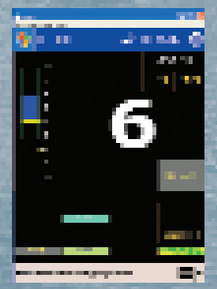


(F)STC/NIC
Quick and accurate transmission loss measurements: (F)STC, STC, (N)NIC and NIC. Take running or spot averages on both sides of a barrier, then at the touch of a button, display the plotted data and calculated Class number.

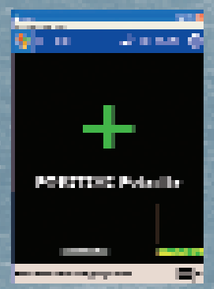


SPL Monitor
Shows analog and digital SPL meter with A, C or Flat weighting across entire spectrum or at octave centers. Two user selectable points allow warning colors to be displayed.

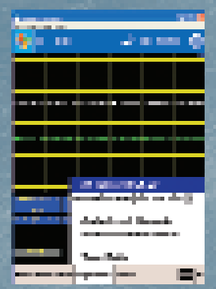
Seat To Seat
Records analog and digital seat-to-seat SPL variations when "walking" an area from a user selectable reference point. Display shows min, max and real time. Weighting and/or octave band filters can apply.



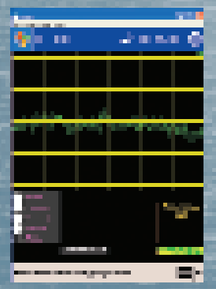
Polarity
Shows results of polarity measurement of loudspeakers. IE-33 can generate pulses internally or is compatible with other pulse generating equipment.



Dual Trace/XY Scope
A dual trace and XY scope display offers a convenient view of wave forms with scalable amplitude and frequency.

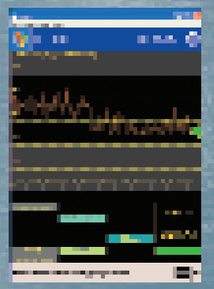


Signal Generator
Contains a built-in signal generator capable of generating sine, square and triangle waves along with pink and white noise.

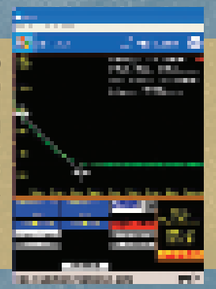


Volt Meter
Displays AC Volts, dBu, dBV, and AC V peak-to-peak. Voltage measurement range (without external attenuator) is from very low microphone levels up to +24 dBu.

Strip Chart
Allows logging SPL over time from 1 minute up to 8 hours plus contiuous. The log can be saved to a file and exported.



New! RT-60 Software Option
Provides for external impulse excitation and sudden removal of an internal IE-33 broadband source.



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