

TYMPANOMETER

Flute

Diagnostic Middle Ear Analyzer




Orchestral perfection
A full line of Audiology Equipment

- Tympanometry and ipsi/contra reflex tests
- 1k Hz probe tone, ETF and reflex decay (Plus or HF)
- Two user programmable auto test sequences
- Color graphical display

DESIGNED, ENGINEERED AND MANUFACTURED IN ITALY

involving audiology 

Flute

Diagnostic Middle Ear Analyzer



Flute is a diagnostic middle ear analyzer, capable of performing incredibly fast and reliable automatic sequences of tympanometry and reflex threshold tests, as well as manual reflex and reflex decay tests, ETF test, and high frequency tympanometry.

Great versatility, a user-friendly interface, advanced features and small size make Flute the ideal choice for a wide range of users, from hearing aid dispensers to clinics and hospitals.

THE MODELS

Flute is available in three models: Basic, Plus and HF. The following table is an overview of the tests available on each version.

	BASIC	HF	PLUS
Automatic tympanometry	✓	✓	✓
Automatic acoustic reflex thresholds	✓	✓	✓
Reflex test with fixed intensities	✓	✓	✓
Reflex test with increasing intensity	✓	✓	✓
Manual acoustic reflex	-	-	✓
Quick tests (tymp. + reflex sequence)	✓	✓	✓
Acoustic reflex decay	-	-	✓
Manual pump control	-	-	✓
Eustachian Tube Fun. (intact TM)	-	✓	✓
Eustachian Tube Fun. (perforated TM)	-	✓	-
Probe tones	226Hz	226Hz 1kHz	226Hz 1kHz (opt.)

THE PROBE

Flute features an extremely light, small and sturdy metal probe, which can be very rapidly disassembled and cleaned. The probe is connected to the small Control Box, through which you can select the ear and start the exam.

NOAH & MAESTRO INTEGRATION

Simply connect Flute to a USB port on your computer (no drivers needed), and you can transfer exam results into your Maestro or Noah database. With the live view feature, you can have a wide view of the examination in progress on the computer display.

TECHNICAL DATA

MEASUREMENT SYSTEM

Probe tone: 226 Hz at 85 dB SPL
 1000 Hz at 75 dB SPL (HF, in Plus opt.)
 Compl. range: 0.2 to 8.0 ml (at 226 Hz)
 0.9 to 16 mmho (at 1000 Hz) (Plus and HF)
 Press. range: From +400 to -600 daPa
 Manual pump contr.: ... In tympanometry and reflex test (only Plus)

TYMPANOMETRY

Type of test: Automatic tympanometry
 Manual tympanometry (only Plus)
 Press. change: 50, 100, 200, 300 daPa/sec, auto

ACOUSTIC REFLEX

Stimulation: Ipsi and contralateral
 Available tests: Automatic threshold, fixed intensity, growing intensity
 only Plus: manual test, reflex decay
 Stimuli: 250 (contra), 500, 1k, 2k, 4k Hz
 only Plus: 3k, 6k, 8k (c) Hz, LPN, HPN, BBN, no stimuli
 Maximum int: 110 dB HL (ipsi), 120 dB HL (contra)
 Stim. duration: From 0.5 to 2.5 sec (selectable)
 Reflex decay: 10 or 20 sec
 Automatic tests: Quick A and B (seq. of tympanometry and reflex)
 EFT test: Intact eardrums (Plus and HF)
 Perforated eardrums (only HF)

DEVICE SPECIFICATIONS

Memory: 1 tympanometry + 8 reflex + 4 decay record. per ear
 Display type: Color graphical
 Display size/res: 4.3" / 480 x 272 pixel
 Printer: Built-in thermal printer (opt.)
 Language: Multilingual interface
 PC interface: USB (driverless)
 Compatible sw: Inventis Maestro (stand-alone or Noah module)
 Dimensions: 32 x 32 x 9 cm
 12.6 x 12.6 x 3.5 in. (DxWxH)
 Weight: Basic-Plus
 without printer 1.99 kg / 4.39 lbs
 with printer 2.67 kg / 5.89 lbs
 HF
 without printer 2.10 kg / 4.63 lbs
 with printer 2.48 kg / 5.47 lbs

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