MIDDLE EAR
ANALYZER

ECV
0.38 ml

Compliance
1.36 ml

Pressione
-3 daPa

Gradiente
44 daPa

1.50 ml

0.50

-300 -200 -100 0 100 200

SCALA (AUTO) COMP. / ASS.

ERASE DATA
PRINT
TO PC
HELP

TYMP
REFLEX
DECAY

IPSI
CONTRA

PRESSURE

daPa

STIMULUS TYPE

Flute
inventis

Flute

(ᵢ) inventis
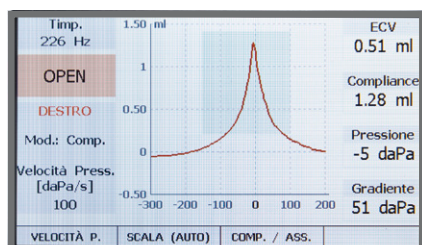Audiology equipment

Flute

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.
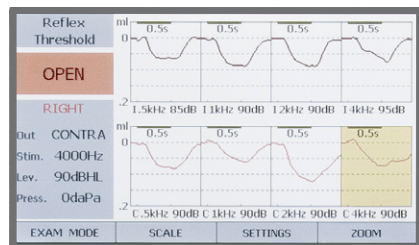
THE MODELS

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

	Basic	Plus	HF
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 Function (intact TM)	-	✔	✔
Eustachian Tube Function (perforated TM)	-	-	✔
Probe tones	226Hz	226Hz	226Hz 1000Hz

Flute display

Reflex Threshold

Flute is developed by:

AUTOMATIC TEST SEQUENCES

Speed up your middle-ear tests with the two available automatic exam sequences combined with special "fast" algorithms, all accurately developed to shorten the time needed for tympanometry and acoustic reflex assessments.

ULTIMATE HARDWARE TECHNOLOGY

Flute features an innovative pump technology for continuous air flow and a finely-designed probe. All combined to fit into an incredibly lightweight (just 2 kg) case.

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 & DAISY INTEGRATION

Simply connect Flute to a USB port on your computer (no driver needed), and you can transfer exam results into your Daisy or Noah database. And 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 (only HF model)
Compl. range..... 0.2 to 8.0 ml
Pressure range... From -600 to +400 daPa
Man. pump contr. .. Available in Plus model

Tympanometry

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

Acoustic reflex

Stimulation........ Ipsi and Contralateral
Available tests... Autothreshold, Fixed intensity, Growing intensity
Only in Plus model: Manual test, Reflex decay
Stimuli .... 250 (C), 500, 1k, 2k, 4k Hz
Only Plus: 3k, 6k, 8k (C) Hz, LPN, HPN, BBN, no stim.
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 tympan. and reflex)
ETF test .... Intact eardrums (Plus and HF models)
Perforated eardrums (only HF model)
Memory .... 1 tympan. + 8 reflex + 4 decay record. per ear
Display type .... Color graphical
Display size / res.... 4.3", 480 x 272
Printer .... Built-in thermal printer (optional)
PC interface......... USB (driverless)
Compatible soft. .. Inventis Daisy or Noah with dedicated module
Dimensions .... 32 x 32 x 9 cm - 12.6 x 12.6 x 3.5 in
Weight .... 2.0 Kg / 4.4 lbs
Standards............ Tympan.: EN 60645-5 / ANSI S3.39, Type 2
Safety: EN 60601-1
EMC: EN 60601-1-2
Classification .... Class IIa (MDD 93/42)