

Kamplex r36m Clinical Tympanometer

Clinical Middle Ear Analyser

GENERAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

- L x W x H: 370x290x180mm
- Net weight: 3.5kg
- Body material: Bayblend® self-extinguishing

TEST TYPES

- Tympanometry, acoustic reflex, reflex decay, No. 3 Quick test, acoustic reflex latency test (ARLT), ETF (intact and perforated), special tests (growth-DLI and non-acoustic), multifrequency tympanometry (r36m_{PT})

DISPLAY

- 7" TFT colour display

USER INTERFACE

- Multilingual

PRINTER

- Built-in fast thermal printer with paper width: 112mm supplied as standard part

REPORTS

- Printed on thermal printer
- PDF report created directly from the device and stored on USB pen drive with possibility to add patient data and tests/ comments via the USB keyboard (optional)
- Data transfer to PC using Kamplex management data suite

CHILD DISTRACTION FEATURE

- To help keep the child distracted while running screening "Quick Check" or "tympanometry HF", a series of animated images appears on the colour display

DATA TRANSFER TO PC

- Via cable through USB port

COMMUNICATION PORT

- No.1 USB host type A
- No.1 USB slave type B

WINDOWS® COMPATIBLE SOFTWARE

- Kamplex MDS management data suite



POWER

POWER SUPPLY

- 110 - 240V ac 50/60 Hz 40VA
- Fuses: 2 x T 1 A L 250V

CONSUMPTION

- Max current 0,15A
- Power consumption 40VA

ENVIRONMENTAL

TEMPERATURE

- Storage: -20° C up to +50° C
- Operating: +15° C up to +35° C
- Humidity: up to 90%, (non condensing)
- Ambient pressure r36m_{PT}: from 700hPa up to 1060hPa
- Ambient pressure r36m: from 820hPa up to 1060hPa

TYMPANOMETRY OPERATING SPECIFICATIONS

PROBE TONE

- 226 Hz for traditional Y-curve tympanometry (r36m)
- 226 Hz for traditional Y-curve tympanometry (r36m_{PT})
- 678, 800 and 1000 Hz for traditional Y-curve tympanometry with added "B" and "G" curve (r36m_{PT})

INTENSITY

- 226 Hz: 85dB SPL ± 2dB
- 678, 800 and 1000 Hz: 75dB SPL ± 2dB
- Frequency accuracy: ± 0,5%
- Harmonic distortion: less than 1%

ADMITTANCE MEASUREMENTS

- Sensitivity scale: auto scales to appropriate range, available scale at 226 Hz 1.5, 2 and 5ml (plus 7ml for _{PT} model)
- 678, 800 and 1000 Hz: 0 to +25 mmho
- Sensitivity scale (for _{PT} model): auto scales to appropriate range, available scales 5, 10, 15, 20, 25 mmho
- Compliance range at 226 Hz: from 0,05 up to 5ml (up to 7ml for _{PT} model)

AIR PRESSURE

- Control: automatic and manual
- Range: from +200 up to -600 daPa adjustable in 50 daPa steps
- Pressure accuracy: +/- 10 daPa or ± 10%
- Sweep rate: 50, 100, 200, 300 daPa/sec and automatic
- Indicator: measured value is displayed on the graphical display
- Safety limitations: -800 up to +600 daPa

EUSTACHIAN TUBE FUNCTION

- ETF test for use with both intact and perforated eardrums

ACOUSTIC REFLEX TESTS

- Reflex test method: threshold, automatic, manual
- Stimulus duration: 0, 5, 1 or 2 sec
- User selectable protocols for all test methods
- Ipsi or contralateral stimulation for all reflex tests
- Automated peak search functions available for all test methods
- Manual reflex: pump manual control of all stimuli
- Reflex decay: threshold, automatic, manual
- Stimulus duration: 10 or 20 sec
- ARLT: threshold, automatic, manual
- Stimulus duration: 1 sec fixed

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TYMPANOMETRY OPERATING SPECIFICATIONS

FREQUENCIES AND INTENSITY RANGES

- Ipsilateral:
 - pure tone level range (dB_{HL}) from 50 to 110
 - noise level range (dB_{SPL}) from 50 to 100
- Frequency: 500, 1000, 2000, 3000, 4000 Hz, BBN, HP or LP noise
- Accuracy: $\pm 1\%$
- Harmonic distortion (THD): less than 3%
- Contralateral:
 - pure tone level range (dB_{HL}) from 50 to 120 (all versions)
 - noise level range (dB_{SPL}) from 50 to 115 (all versions)
- Frequency: 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz, BBN, HP or LP noise
- Accuracy: $\pm 1\%$
- Calibration accuracy ± 3 dB
- Level steps: 1, 2, 5 or 10 dB
- On/off ratio: 70 dB minimum

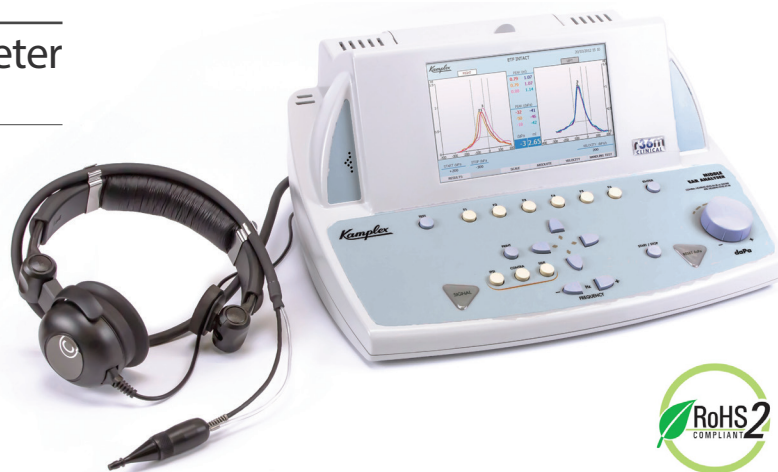
QUALITY SYSTEM

Manufactured, designed, developed and marketed under ISO 13485, ISO 9001 certified quality system. Medical CE mark

COMPLIANCE/REGULATORY STANDARDS

Designed, tested and manufactured to meet the European and international standards:

- MDD 93/42/EEC and update 2007/47/CEE:Class IIa (as referred to in Annex IX, rule 10 of said MDD 93/42 EEC)
- Safety: IEC 60601-1, 3rd and 2nd edition, Class 1 Type B
- EMC: IEC 60601-1-2
- Impedance: IEC 60645-5/ANSI S.3.39 Type 1



STANDARD ACCESSORIES

- Headband probe 226 Hz
- Headband probe HF (r36m_{PT})
- DD45 for contra
- Insert for contra
- Kit of assorted ear tips; size from 4 mm up to 13 mm
- Calibration cavity
- Built-in fast thermal printer
- Thermal paper roll
- Device dust cover
- Multilingual quick user's handbook
- Pen drive
- Kamplex MDS software with NOAH® module included (demo version)
- Power supply cable (110 – 220V)
- Spare fuse

OPTIONALS

- External USB keyboard
- Carrying bag
- Foot switch
- TDH39 for contra