

# *The reference in screening audiometry*

## **Audiometer ST 20**



- Air-conduction with 8 frequencies from 250 Hz to 8 kHz
- Bone-conduction with automatic masking (**ST 20 BC**)
- Diagnostic functions (**ST 20 SISI**)
- Slim (letter-page size) and lightweight (1,9 kg) instrument
- Simple, error-free recording with lightpoint marked audiogram
- Optional handheld loudspeaker for paediatric tests
- Optional LCD-Display for level and frequency or SISI test score
- Optional serial PC-interface
- Optional patient response button with flashing light display



# Simple, error-free screening audiometry for all purposes with the **ST 20 Audiometer series**

## **Easy, fast screening test with ST 20**

The lightweight and slim basic **ST 20** is easy and comfortable to operate. Its unique light point technology combines audiometry and error-free recording in one step. The 8 test-frequencies of the **ST 20** from 250 Hz to 8 kHz can be changed with two buttons. The solid and sound-isolated headphones deliver up to 100 dB hearing level. This can be changed with the slide control in 5 dB steps down to -10 dB. The actual value of frequency/level is indicated by a red lightpoint on the audiogram paper which can be easily marked. The automatic, sliding masking feature is very easy to operate.

## **Bone-conduction with ST 20 BC**

The **ST 20 BC** has in addition to the basic ST 20 bone conduction capability. The output of the lightweight bone-conductor goes up to 70 dB hearing level. The masking noise (with headphone) is, if selected, automatically controlled.

## **Diagnostic functions with ST 20 SISI**

The **ST 20 SISI** has in addition to the ST 20 BC the SISI-test as a diagnostic function. The LCD-Display shows level and frequency or the SISI test information and the test score.

## **PC-connection with ST 20 SISI-PC**


The serial PC-interface of the **ST 20 SISI-PC** automatically transfers all test results in real time to a connected PC.

## **Optional free-field paediatric test**

The optional lightweight loudspeaker allows free-field measurement for paediatric reflex and direction tests with hearing levels up to 90 dB<sub>SPL</sub> at 10 cm distance. It is available for all **ST 20** models.



## **Technical data**

Test signal	Pure tone or pulsed pure tone
Test frequencies	0,25; 0,5; 1; 2; 3; 4; 6; 8 kHz
Level steps	5 dB noise free
Masking signal	white noise, automatic sliding: AC = -15 dB, BC = + 15 dB distance to test signal level
Masking source	contralateral headphone
Stimulus button	Interruptor or Presenter function (selectable via user-setup)
Standards	IEC 601-1; IEC 645 part 1, class 4; medical directive 
Power supply	Mains 230 V~, 50/60 Hz, app. 4 VA
Dimensions and weight	W x D x H: 29 x 22 x 6 cm / 1,9 kg,
Standard accessories	Headphones, mains cable (2,5m), audiogram paper
Air-conduction:	
Dynamic range	-10 to 100 dB <sub>HL</sub> (90 dB at 0,25 kHz, 6 kHz, 8 kHz)
Headphones	HOLMCO 8103B26 with sound-excluding ear muffs
Bone-conduction (only <b>ST 20 BC</b> and <b>ST 20 SISI</b> ):	
Dynamic range	-10 to 70 dB <sub>HV</sub> (35 dB at 0,25kHz, 40 dB at 6 kHz, 60 dB at 0,5 and 4 kHz, 65 dB at 3 kHz)
Bone-conductor	B71 with headband
SISI-Test (only <b>ST 20 SISI</b> ):	
Modulation test signal	4,8/0,2s; , 1 dB (test) 5dB, 3dB, 2dB (conditioning)
Options:	
Free field :	-10 to 90 dB <sub>HL</sub> (10 cm distance)
LCD-display:	16 digits, view angle adjustable
Patient response switch:	ergonomic handheld switch
Carrying case:	lightweight, durable aluminium suitcase
PC-interface:	serial RS 232C, 9-pin connector MAICO- protocol, NOAH-driver

Specifications are subject to change without notice



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