

## Our Bestseller ST 20

The screening audiometer with threshold measurement



- Air conduction from 250 Hz to 8 kHz with automatic masking
- Bone conduction with automatic masking (ST 20 BC)
- Diagnostic functions (ST 20 SISI)
- Handheld loudspeaker for paediatric tests
- Serial PC interface
- Frequency and intensity indicated by red light
- Headphone Holmco 8103 perfect accessory in noisy environments

# ST 20 Audiometer series

## Screening audiometry for all purposes

### Fast and easy screening with ST 20

The 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. The intensity 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 light which can be easily marked on the audiogram paper. The automatic and sliding masking is very easy to operate.

### Bone conduction with ST 20 BC

The ST 20 BC additionally offers bone conduction to the basic version. The output of the B71 bone conductor goes up to 70 dB hearing level. The masking noise is automatically controlled.

### Diagnostic functions with ST 20 SISI

In addition to air and bone conduction, it offers the SISI test, showing whether the hearing impairment is cochlear or retro cochlear.

### PC connection with ST 20 SISI PC


The serial PC interface of the ST 20 SISI PC automatically transfers all test results 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. This feature is available for all ST 20 models.



### Technical data

Test signal	Pure or Pulsed 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	contra lateral headphone
Standards	IEC 601-1; IEC 645 part 1, class 4; medical directive  93/42/EEC, class IIa
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	Headphone Holmco 8103 power supply cable, audiogram paper
<b>Air conduction</b>	
Dynamic range	-10 to 100 dB <sub>HL</sub> (90 dB at 0,25 kHz, 6 kHz, 8 kHz)
Headphone	Holmco 8103 with sound-excluding ear muffs
<b>Bone conduction</b>	
Dynamic range	(ST 20 BC, ST 20 SISI) -10 to 70 dB <sub>HV</sub> (35 dB at 0,25 kHz, 40 dB at 6 kHz, 60 dB at 0,5 and 4 kHz, 65 dB at 3 kHz)
BC headphone	B 71
<b>SISI-Test</b>	
Modulation test signal	(ST 20 SISI) 4,8/0,2 s; , 1 dB (test) 5dB, 3dB, 2dB (conditioning)
<b>Options</b>	
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	light weight, durable aluminium suitcase
PC-interface	serial RS 232, 9-pin connector MAICO protocol



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