

## 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
- 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:<br>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 93/42/EEC, classe 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         | Headphones, mains cable (2,5m), audiogram paper   |
| Air-conduction:              |   |
| Dynamic range                | -10 to 100 dB <sub>HL</sub><br>(90 dB at 0,25 kHz, 6 kHz, 8 kHz)  |
| Headphones                   | HOLMCO 8103B26 with sound-excluding ear muffs   |
| Bone-conduction              | (only ST 20 BC and ST 20 SISI):   |
| Dynamic range                | -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)  |
| Bone-conductor               | B71 with headband   |
| SISI-Test (only ST 20 SISI): |   |
| Modulation test signal       | 4,8/0,2s; , 1 dB (test)<br>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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