PELLO

TECHNICAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

W x D x H (LCD Raised): 14.8 in x 10.5 in x 13.8 in (37.5 cm x 26.7 cm x 35.1 cm)

Height (LCD Lowered): 4 in (10.2 cm)

Weight: 8.2 lb (3.6 kg)

Shipping Weight: 20 lb (9.1 kg)

CHANNELS - 1.5 PURE TONE

FREQUENCY RANGE

- **Air Conduction:** 125 - 20,000 Hz*
- **Bone Conduction:** 250 Hz - 8,000 Hz
- **Sound Field:** 125 - 8000 Hz
- **Paired Inserts:** 125 Hz - 8,000 Hz
- **Frequency Accuracy:** ± 1%
- **Total Harmonic Distortion:** < 2% (earphones and paired insert phones) < 5% (bone vibrator)

HEARING LEVEL RANGE

- **Air Conduction:** -10 dB HL - 120 dB HL
- **Bone Conduction (B81):**

  -10 dB HL - 90 dB HL (mastoid)
  -10 dB HL - 80 dB HL (forehead)
- **Sound Field:**
  -10 dBHL - 90 dBHL (amplified speakers)
  -10 dBHL - 102 dBHL (external amplifier and high performance speakers)
- **Paired Inserts:** -10 dB HL - 120 dB HL
- **Masking Intensity Range (Calibrated in Effective Masking) Narrow Band Noise:** Maximum dB HL is 15 dB below tone

SIGNAL FORMAT

- **Steady:** Tone continuously present
- **Pulsed:** Tone pulsed 200 msec ON, 200 msec OFF
- **FM:** Modulation Rate: 5 Hz
  Modulation Depth +/- 5%
- **Pediatric Noise (optional):** Continuously presented or pulsed

**Testing above 8,000 Hz requires HF transducer option*

SPEECH

Microphone: For live voice testing and communications

INT/EXT A & INT/EXT B: Can be utilized for internal wave files or recorded speech material from an external device

HEARING LEVEL RANGE

- **Air Conduction:** -10 dB HL - 100 dB HL
- **Bone Conduction:**
  -10 dB HL - 60 dB HL (mastoid)
  -10 dB HL - 50 dB HL (forehead)
- **Sound Field:** -10 dB HL - 90 dB HL (amplified speakers)
- **Paired Inserts:** -10 dB HL - 95 dB HL

SPEECH NOISE

- **Air Conduction:** -10 dB HL - 95 dB HL
- **Bone Conduction:**
  -10 dB HL - 50 dB HL (mastoid)
  -10 dB HL - 40 dB HL (forehead)
- **Sound Field:** -10 dB HL - 85 dB HL

WHITE NOISE

- **Air Conduction:** -10 dB HL - 95 dB HL
- **Bone Conduction:**
  -10 dB HL - 60 dB HL (mastoid)
  -10 dB HL - 50 dB HL (forehead)
- **Sound Field:** -10 dB HL - 80 dB HL

ADDITIONAL TESTS

STANDARD ON ALL MODELS

Pure Tone Stenger
Speech Stenger
Weber Test
Lombard Test
SAL

SPECIAL TESTS LICENSE

Tone Decay
SISI
ABLB
Pediatric Noise
TEN Test

SPEECH PLUS LICENSE

QuickSIN
BKB-SIN
ACT

HIGH FREQUENCY LICENSE

High Frequency Audiometry

AMTAS LICENSE

GSI AMTAS Pro

COMMUNICATION AND MONITORING

Talk Forward: Permits the tester to speak through the test microphone into the selected transducer at approximately the intensity level set by the front panel controls

Talk Back: Allows the tester to listen to comments from the patient in the testing booth

Monitor: The monitor headset can be used by the tester to listen to Channel 1, Channel 2, and/or Talk Back signals

ENVIRONMENTAL

Temperature: 59° F (15° C) to 104° F (40° C)

Relative Humidity: 10% to 95% (non-condensing)

Ambient Pressure Range: 98 kPa to 104 kPa

Background Sound Level: < 35 dB(A)

Storage Temperature: 32° F (0° C) to 122° F (50° C)

Transport Temperature: -4° F (-20° C) to 122° F (50° C)

POWER

Power Consumption: 90 Watts

Voltage & Amperage: 100 - 240 VAC, 0.5 A max

Frequency: 50 Hz and 60 Hz

QUALITY SYSTEM

Manufactured, designed, developed, and marketed under ISO 13485 certified quality systems.

COMPLIANCE

- Designed, tested, and manufactured to meet the following domestic (USA), Canadian, European, and International Standards:
- **ANSI S3.6, IEC 60645-1, IEC 60645-2, ISO 389**
- **ANSI/AAMIES 60601-1** Medical Electrical Equipment: General Requirement for Safety
- **IEC/EN 60601-1** International Standards for Medical Electrical Equipment: General Requirement for Safety
- **CSA C22.2 # 601-1-M90**
- **Medical Device Directive (MDD)** to comply with EC Directive 93/42/EEC

501C-64 Rev D