



StipaHATS: Speech Transmission Index testing of face masks

Accurate Speech Transmission Index testing of face masks requires the use of dedicated, specialized test equipment. The StipaHATS by Embedded Acoustics was designed and calibrated specifically for STI testing of face masks. It is capable of producing the high sound pressure levels required by testing standards. The use of the industry standard Posichek headform ensures that face masks can be donned appropriately.

Intended purpose

StipaHATS is particularly suited for STI testing with any kind of face mask. It incorporates a calibrated STIPA test signal generator, which also provides an external pink noise signal output.

StipaHATS can be used for design and verification testing of face masks according to the new (2013) version of NFPA-1981. StipaHATS is a robust, durable and low-cost alternative to the KEMAR HATS (which is required for certification).

Components

Built from durable materials, the outer case of StipaHATS will withstand frequent use and

transportation. When not in use, the headform is protected by a lid that also covers all controls and connectors. The headform itself is a standard Posichek3 headform.

An external loudspeaker can be connected for pink noise generation (cable provided). A wired remote control with LCD touch screen controls playback and signal level of the STIPA test signal and pink noise. The connectors and wire bridges provided allow easy operation with the internal signal generator, but also permit bypassing the internal amplifiers and noise generators in favor of external equipment. The STIPA signal generator can even be used with any arbitrary external loudspeaker.



stipaHATS

Specifications

StipaHATS contains a 40W compression driver for generating undistorted STIPA test signal levels up to 100 dBA and higher (measured at 50mm from the artificial mouth plane). The internal class-D digital amplifier is rated at 60W.

The frequency characteristics of the STIPA test signal are reproduced within 1 dB in the frequency range between 200 Hz and 8 kHz. The system operates on 110 - 240 V.

Each StipaHATS is hand-calibrated in term of sound pressure level and frequency response before it is shipped out.

Price

StipaHATS is available for **€5000,=** excl. VAT (without powered external loudspeaker for pink noise) or **€5200** (with external loudspeaker). This includes all cables and the remote control.

Please note that a STIPA meter is not included in the delivery. The Bedrock SM50 (also developed by Embedded Acoustics) is the ideal companion for use with the StipaHATS. The Bedrock SM50 is available directly from Embedded Acoustics for €1000. Discounts apply to combined sales of StipaHATS and the Bedrock SM50.



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