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OTA Phantoms

for Over-The-Air Performance Evaluations

High Quality Phantoms for Your OTA Applications

Our head and hand phantoms are homogeneous anthropomorphically shaped high quality products compatible with current OTA standard specifications. They provide accurate radiation pattern or total radiated power testing different type of mobile phones. The shells of head phantoms have very tight tolerances of less than ±0.2 mm.

Thoroughly designed high precision fixture/positioner and device holders are available to enable precise and repeatable positioning of the device in the hand and/or at the head. New accessories are also available for OTA testing with the hand phantom, promoting accurate and repeatable testing of wireless devices.

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SWISS MADE

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OTA Phantoms

your applications – our phantoms

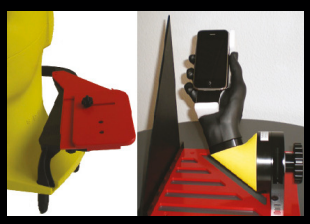
High precision injection molded PP of the SAM phantom. Shell thickness 2 +/- 0.2mm (6 mm at ear point); integrated positioning lines; sealed top cap for use with 17 mm hexagonal key; precise mounting. SAM V4.5 is compatible with all head tissue simulating liquids (incl. DGBE type). SAM V4.5CTIA is compliant with CTIA OTA Test Plan Revision 2.2. SAM V4.5BS is light and robust solid head with the dielectric specifications of head tissue from 300 MHz - 6 GHz according to the IEEE/IEC, 3GPP and CTIA OTA Test Plan Revision 3.1 standards.

SHOV2 HAND – Talk Mode (Monoblock, Fold and PDA)

Homogeneous anthropomorphically shaped right and left hand phantoms for SPEAG SAM Head V4.5/CTIA/BS. Accurate radiation pattern or total radiated power testing of mobile phones in talk mode according to CTIA OTA Test Plan Revision 3.1. Manufactured of silicon and carbon based mixture. Dielectric parameters are compliant with CTIA OTA Test Plan Revision 3.1. Low loss and RF transparent spacer.

SHOV2 HAND – Data Mode (PDA and Narrow Data)

Homogeneous anthropomorphically shaped right and left hand phantoms for accurate radiation pattern or total radiated power testing of mobile phones in data mode according to CTIA OTA Test Plan Revision 3.1. Manufactured of silicon and carbon based mixture. Dielectric parameters are compliant with CTIA OTA Test Plan Revision 3.1. Low loss and RF transparent spacer.



FIXTURE/POSITIONER

Integrated lightweight high precision hand phantom fixture/positioners for SAM V4.5/CTIA/BS and hand phantom only OTA measurements. Accurate and easy to operate. Enables precise positioning of left or right hand phantom with device in a tilted position high repeatability in talk and data modes. Manufactured of low loss material. Compliant with CTIA OTA Test Plan Revision 3.1 requirements.

ACCESSORIES

Alignment tools: Enable precise and repeatable positioning of the mobile phones in the hand phantom.
Mask6/15: Enable easy positioning of the mobile phone in the hand phantom at the head phantom. Manufactured of ROHACELL (low-loss, low-permittivity material). Provides 6° and 15° degree rotation of the SAM Head cheeks, respectively. Compatible with SPEAG SAM Head V4.5/CTIA/BS.

For further information and technical specifications visit **www.speag.com**

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