

iHA Companion

The first truly handheld instrument for PIM testing at the basestation

The iHA is a companion to the Summittek 2 x 20 watt PIM test solutions. The iHA is a lightweight, low power PIM tester that can be carried up the tower for a coarse check on individual components, or used at the bottom of the tower to check for badly out of performance components or interconnections. The simple to use one button push-to-test implementation makes it ideal for the intended application.



Applications

- Identification of major PIM sources at the basestation.
- Locating PIM sources in difficult to get to locations – at the top of the tower or on cable runs in confined spaces.
- Coaxial cable build quality verification
- Coarse checking of BTS RF infrastructure construction quality and/or RF components.

Features:

- Connect & Test
 - ◆ No setup or configuration necessary prior to use
 - ◆ Minimal RF knowledge required
- Ergonomically designed
 - ◆ Light weight – less than 11 pound
 - ◆ Dual LED performance scales in both dBm and dBc
 - ◆ Audible PIM level signal
 - ◆ Long battery life – 2 hours continuous working time
- Detects reverse PIM
- Tests using 2 x 2 watt (33 dBm) output power
- Measures down to -120dBm at 2 x 33 dBm carrier powers (-153 dBc).
This is approximately equivalent to -95 dBm at 2 x 43 dBm carrier powers.

Benefits:

- Lower operating expenses
- Greater revenue and data throughput
- Increases the range and capacity at the site
- Assisted by this instrument, RF infrastructure at the BTS can now be *objectively* prepared and maintained to be PIM certification ready.



SPECIFICATIONS

PIM Test Method: **Single port reflection measurement**
 Carrier power: +33 dBm
 Power accuracy: ±1 dB / carrier
 Test frequencies: 2 custom set frequencies 870 and 894 MHz*

PIM Measurement with 2 x 2 Watts (33 dBm)

-83 to -153 dBc @ 846 MHz
 Range: (typical -155 dBc) with 33dBm tones
 Accuracy: ± 3 dB to -153 dBc
 Peak hold facility: Yes
 Audible IM buzzer: Yes
 None
 Display: LED bar
 RF calibration: Automatic with RF power on
 PIM Level alarms: Audible alarm
 Battery power: Typically > 2 hour (with RF carriers continuously on @ +33 dBm)
 Weight: 11 pounds, 5 kg goal
 Dimensions: 330 x 230 x 90 mm
 Enclosure: Waterproof, IP55 stored, lid closed, in transit case
 IP54 operating, out of case
 Operating temp: 0 - 45°C/32 - 117°F, 85% RH
 (non-condensing)
 Storage temp: -10 - 60°C, 14 - 140°F, 85% RH
 (non-condensing)

*Manufactured to customer specific frequencies

Note: As with any lower power solution, the iHA Companion should not be used for final basestation certification, because it may not detect marginally performing interconnections or components that may be adversely impacting network performance.

Summitek takes pride in assisting our customers with reliable, competent technical support that contributes to their understanding and success. For more information, please contact us.

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