3GHz Spectrum Analyzer
HMS3000/HMS3010

- Frequency Range 100kHz...3GHz
- Tracking Generator HMS3010 -20...0dBm
- Amplitude Measurement Range -114...+20dBm
- DANL -135dBm with Preamp. Option HO3011
- Sweep Time 20ms...1000s
- Resolution Bandwidth 100Hz...1MHz in 1–3 Steps, 200kHz (-3dB); additional 200Hz, 9kHz, 120kHz, 1MHz (-6dB)
- Spectral Purity <-100dBc/Hz (@100kHz)
- Video Bandwidth 10Hz...1MHz in 1–3 Steps
- Integrated AM and FM Demodulators (Phone and int. Speaker)
- Detectors: Auto-, Min-, Max-Peak, Sample, RMS, Quasi-Peak
- 8 Markers with Delta Marker, miscellaneous Peak Functions
- Crisp 16.5cm (6.5”) TFT VGA Display, DVI Output
- 3 x USB for Mass-Storage, Printer and Remote Control, optional IEEE-488 (GPIB) or Ethernet/USB Dual-Interface
### Frequency

<table>
<thead>
<tr>
<th>Frequency range:</th>
<th>100 kHz…1 GHz</th>
<th>1 kHz...3 GHz</th>
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</thead>
<tbody>
<tr>
<td>Temperature stability:</td>
<td>±2 ppm (0…30 °C)</td>
<td>±1 ppm/year</td>
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<tr>
<td>Aging:</td>
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</table>

**Marketer Displays:**

- Normal (level, lin. & log.), delta marker, noise marker, (frequency) counter

### Inputs/Outputs

**HF Input:** N socket

**Input Impedance:** 50Ω

**VSWR:** 10 MHz...1 GHz

**Output Impedance:** 50Ω

**Frequency range:** 5 MHz...1 GHz

**Output level:** -20 dBm, in 1 dB steps

**Trigger input:** BNC female

**Trigger voltage:** TTL

**Ext. reference input/output:** BNC females

### Reference frequency

<table>
<thead>
<tr>
<th>Reference frequency</th>
<th>10 MHz</th>
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</table>

**Supply output for field probes:**

- 6 Vdc, max. 100 mA (2.5 mm DIN jack)

**Audio output (Phone):** 3.5 mm DIN jack

**Demodulation:** AM and FM (internal speaker)

### Miscellaneous

**Display:** 16.5 cm [6.5”] TFT Color VGA Display

**Save/Recall memory:** 10 complete device settings

**Trigger:** Free run, Video Trigger, Single Trigger, external Trigger

**Interfaces:**

- Dual-Interface USB/RS-232 [HD720], USB-Stick (frontside), USB-Printer (rear side), DVI-D for ext. monitor

**Power supply:**

- 105…253 V, 50…60 Hz, CAT II

**Power consumption:** Max. 40 W at 230 V, 50 Hz

**Protection class:** Safety class I (EN61010-1)

**Operating temperature:** +5…+40 °C

**Storage temperature:** +5…+80 °C (non-condensing)

**Dimensions:** (W x H x D) 285 x 175 x 220 mm

**Weight:** 3.6 kg

**Accessories supplied:**

- Line cord, Operating manual, HZ21 Adapter plug, N-plug to BNC socket (2x HMS1010/H3010), CD Software

**Recommended accessories:**

- HD730 Dual-Interface Ethernet/USB
- HD740 Interface IEEE-488 (GPIB), galvanically isolated
- HD3011 Preamplifier -135 dBm DANL [100 Hz RBW]
- HZ13 Interface cable (USB) 1.8m
- HZ14 Interface cable (serial) 1.1
- HZ20 Adapter, BNC to 4 mm banana
- HZ3 Test cable 50Ω, BNC/BNC, 0.5m
- HZ4 Test cable 50Ω, BNC/BNC, 1.0m
- HZ6 4RU 19” Rackmount Kit
- HZ72 GPIB-Cable 2m
- HZ79 Carrying Case for protection and transport
- HZ520 Plug-in Antenna with BNC connection
- HZ525 50Ω-Termination, N plug
- HZ530 Near-Field Probe Set 1 GHz for EMI diagnostics
- HZ540/550 Near-Field Probe Set 3 GHz for EMI diagnostics
- HZ540L/550L Near-Field Probe Set 3 GHz for EMI diagnostics
- HZ547 3 GHz VSWR Bridge for HMS1010, HMS3010
- HZ560 Transient limiter
- HZ575 75/50Ω Converter
- HZ60 Active probe 1 GHz (0.9 Pf, 1 MO, including many accessories)

**Accessories supplied:**

- HZ33 Test cable 50Ω, BNC/BNC, 0.5m
- HZ34 Test cable 50Ω, BNC/BNC, 1.0m
- HZ46 4RU 19” Rackmount Kit
- HZ520 Plug-in Antenna with BNC connection
- HZ525 50Ω-Termination, N plug
- HZ530 Near-Field Probe Set 1 GHz for EMI diagnostics
- HZ540/550 Near-Field Probe Set 3 GHz for EMI diagnostics
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