Spectrum Analyzer
1.6 GHz | 3 GHz
HMS-X
1 Basic Unit + 3 Options

Your HMS-X Spectrum Analyzer

You can create your HMS spectrum analyzer by combining a basic unit with any of three available options. In case of growing requirements, upgrade vouchers allow you to upgrade your instruments with all options at any point in time.

Key facts
- Frequency range: 100 kHz to 1.6 GHz/3 GHz*
- Spectral purity greater than -100 dBc/Hz (at 100 kHz)
- SWEEP from 20 ms to 1000 s
- Detection: auto, min-/max.-peak, sample, RMS, average, quasi-peak™
- Miscellaneous functions: marker and peak functions
- Tracking generator™
- Frequency range: 5 MHz to 1.6 GHz/3 GHz
- Output level: -20 dBm to 0 dBm
- Directly export data to USB flash drive, RS-232/USB dual interface for remote control
- Fanless design and fast boot time

* with HMS-EMC option
† with HMS-3G/HMS-EMC option
‡ with HMS-TG/HMS-EMC option

Model overview: HMS-X with EMC option HMS-X basic unit

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<th>Model overview</th>
<th>HMS-X with EMC option</th>
<th>HMS-X basic unit</th>
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<td>Amplitude measurement range</td>
<td>1.144 kHz to 100 dBm</td>
<td>50 dBm to +20 dBm</td>
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<tr>
<td>Resolution bandwidth</td>
<td>10 kHz to 1 MHz, 200 kHz (-3 dB), 200 Hz, 9 kHz, 120 kHz, 1 MHz (-6 dB)</td>
<td>1 MHz to 1 MHz</td>
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<td>Video bandwidth</td>
<td>1 kHz to 1 MHz</td>
<td>1 kHz to 1 MHz</td>
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HMS previous models HMS-X
- HMS1000E
- HMS1000
- HMS-X + EMC*
- HMS1010
- HMS-X + EMC* + TG
- HMS3000
- HMS-X + EMC* + 3G
- HMS3010
- HMS-X + EMC* + 3G + TG

* The preamplifier function is an integral part of the HMS-EMC option.

This option activates the tracking generator in the instrument.

This option activates all the functions that are required for EMC precompliance measurements. The preamplifier option has been integrated into the new HMS-EMC option.

The frequency range is increased from 1.6 GHz to 3 GHz with this option.

We have used the first-class hardware from our largest HMS spectrum analyzer and developed a new and flexible instrument concept. It can be individually configured, combined and upgraded for your applications.

More information
- www.hameg.com
Not only do unexpected results in test labs during EMC compliance measurements translate into extra costs, quite often they also cause a substantial delay for your project. HAMEG offers effective and cost-efficient tools for EMC precompliance measurements which allow you to successfully prevent possible surprises before the actual onset of a problem.

Our HMExplorer software for your EMC measurements is included with every HMS-X spectrum analyzer with activated EMC option.

EMC precompliance sets
HAMEG offers product sets for your EMC precompliance measurements, which include all necessary instruments to analyse typical EMC problems. Depending on your requirements, you can choose between a 1 GHz and a 3 GHz combination.

1 GHz EMC-SET1
- Spectrum analyzer HMS-X incl. HMS-EMC option
- Probe set HZ530
- Line impedance stabilization network (LISN) HM6050-2
- HMExplorer software

3 GHz EMC-SET2

Differences to SET1:
- HMS-3G option additional
- 3 GHz probe set HZ540 instead of HZ530

You can easily upgrade all three available options at any later point in time with option upgrade vouchers available at your dealer.

The voucher number and the serial number of your HMS-X instrument enable you to generate the respective licence key directly on our web page http://voucher.hameg.com.

Upgrade at any time

EMC Precompliance

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<th>HMS-X options</th>
<th>Option code</th>
<th>Voucher code</th>
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<td>HMS-EMC incl. preamplifier</td>
<td>HV213</td>
<td>HV213</td>
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<td>Upgrade to 3 GHz</td>
<td>HV212</td>
<td>HV212</td>
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<tr>
<td>Unlock tracking generator</td>
<td>HV211</td>
<td>HV211</td>
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* available only with purchase of HMS-X basic unit
** activate HMS-X options at any time after purchase of HMS-X basic and

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HMExplorer software for EMC precompliance measurements

1 GHz probe set HZ530
3 GHz probe set HZ540
3GHz VSWR bridge HZ547
This unit is used to measure the voltage standing wave ratio (VSWR) and reflection coefficient of a device under test with an impedance of 50Ω. Typical test devices include attenuators, terminations, frequency switches, amplifiers, cables and mixer.

Near-field probe set 3GHz HZ540 | HZ550
Near field probe set for comparative measurements with built-in preamplifier covering frequency ranges from 1 MHz to 3 GHz, designed for the HMS-X connectors of the HMS-X.

Alternative version HZ540L | HZ550L
Same specification as HZ540 | HZ550, but with low impedance probe instead of high impedance probe.

HZ46 4RU 19” rackmount kit
HZ299 Carrying case for protection and transport
HZ730 Ethernet/USB dual interface card
HZ740 Interface (IEEE-488 (GPIB), galvanically isolated
HZ530 Near-field probe set 1 GHz

Recommended Accessories

HZ575 75/50 Ω converter
HZ560 Transient limiter
HZ525 50 Ω-termination, N plug
HZ72 GPIB-cable 2 m
HZ46 4RU 19” rackmount kit
HZ13 Interface cable (USB) 1.8 m
HZ547 3 GHz VSWR bridge for HMS-X incl. HMS-TG option
HZ540/550 Near-field probe set 3 GHz for EMI diagnostics
HZ530 Near-field probe set 1 GHz
HO740 Interface IEEE-488 (GPIB), galvanically isolated
HO730 16.5 cm (6.5”) TFT Color VGA Display
HZ21 Adapter N (plug) - BNC (socket)
HZ22 Adapter BNC - N (socket)
HZ23 Adapter N (socket) - 3.5mm DIN jack
HZ11 Interface cable (RS-232) 1.8 m
HZ12 Interface cable (Ethernet) 1.8 m
HZ13 Interface cable (USB) 1.8 m
HZ06 Calibration kit
HZ07 Extension cable (1 m)
HZ10 Adapter 3.5mm DIN jack - BNC
HZ11 Interface cable (RS-232) 1.8 m
HZ12 Interface cable (Ethernet) 1.8 m
HZ13 Interface cable (USB) 1.8 m
HZ06 Calibration kit
HZ07 Extension cable (1 m)
HZ10 Adapter 3.5mm DIN jack - BNC
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