

Antennas	
Antenna holders / baluns	
VHA 9103 B	Holder / Balun without telescopic dipole elements (for use with Biconical BBA 9106, BBAL 9136, BBAK 9137, BBVK 9138)
HFBA 9122	HF-VHF Broadband balun / holder (0.1) 0.15 - 300 (500) MHz especially to measure very high field strength. BBAL 9136, BBA 9106, BBAK 9137, BBVU 9135 or BBUK 9139 biconical elements required.
VHBA 9123	Antenna Holder / Balun for Bicon. Broad Band Antenna (e.g. BBA), 50 / 200 Ω , (better antenna factor below 50 MHz, also EMV application 100 W
VHBB 9124	Antenna holder / balun 50:200 Ohm , high symmetry, 25-300 MHz, 10 W for BBA, BBAL, BBAK, BBVK
VHBC 9133	Antenna holder / balun 50:200 Ohm, 1 kW, for biconical or collapsible elements (BBA, BBAL, BBFA, Triangle, FBAA, FBAB)
VHBD 9134	High power antenna holder / balun 50:200 Ω , 2.5 kW, 20-200 MHz for biconical or collapsible elements BBFA 9146, N-connector
Opt. 7/16	Option: 7/16 connector
VHBD 9134-4	4 kW high power antenna holder / balun 50:200 Ω , 20-200 MHz for BBAL 9136 or BBFA 9146, 7/16-female connector.
UBAA 9114	Broadband Balun/Holder 4:1, 30-1000 MHz, 5 W, low loss, BBVU, BBUK, BAOC or BBOC elem. required
UBAA 9115	Broadband Balun/Holder 4:1, 30-1000 MHz, 5 W, extremely high symmetry, BBVU, BBUK, BAOC or BBOC elem. required
Biconical elements	
BBA 9106	Biconical Elements, 30-300 MHz, requires VHA 9103 B, VHBC, VHBB or VHBA
BBAL 9136	Biconical Elements, 20-200 MHz, requires VHA 9103 B, VHBC, VHBB or VHBA
BBAK 9137	Biconical Elements, 45-450 MHz broad band, requires VHA 9103, VHBB or VHBA
BBVK 9138	Biconical Elements, 60-600 MHz broad band, requires VHA 9103, VHBB or VHBA
BBVU 9135	Biconical Elements, (30)100-1000 MHz (like VUBA), for UBAA 9114/9115
BBUK 9139	Biconical Elements, 160-1200 MHz broad band (like UBA), for UBAA 9114/9115
Collapsible or open Biconical Elements	
BBFA 9146	Large collapsible aluminium Elements with extensions up to 4 m
FBAB 9177	Collapsible Biconical Elements 30 – 300 MHz (instead of BBA)
FBAL 9178	Large Collapsible Biconical Elements 20 – 200 MHz (instead of BBAL)
BAOC 9216	Open Conical Elements, 160-1200 MHz broad band, for UBAA 9114/9115
BBOC 9217	Open Conical Elements, (30)100-1000 MHz broad band, for UBAA 9114/9115
Logarithmic Periodic Broadband Antennas	
UHALP 9108 A	Log.-Periodic Antenna, alum. Tubing, 250 – 2400 MHz, low loss, 1 kW power
VUSLP 9111	Log.-Periodic Antenna, alum. Tubing, 200 – 2300 (4000) MHz, low loss, 1 kW power
VUSLP 9111 B	Log.-Periodic Antenna, alum. Tubing, (180) 200 - 3000 (4000) MHz, low loss, 1 kW power
VUSLP 9111 E	Log.-Per. Antenna, aluminium tubing, 1 kW power, 70 (65)-3000 (4000) MHz. Recommended adapter: KG 9201. EN 61000-4-3
VULP 9118 A	Log.-Per. Antenna, aluminium tubing, 1 kW power, 180 -1500 (2000) MHz
VULP 9118 B	Log.-Per. Antenna, aluminium tubing, 1 kW power, 160-1500 (2000) MHz
VULP 9118 C	Log.-Per. Antenna, aluminium tubing, 1 kW power, 100-1400 (2000) MHz
VULP 9118 D	Log.-Per. Antenna, aluminium tubing, 1 kW power, (80) 95 -1500 (1800) MHz
VULP 9118 E	Log.-Per. Antenna, aluminium tubing, 1 kW power, 75 (50)-1500 MHz.
VULP 9118 F	Log.-Per. Antenna, al. tubing, end discs, 1 kW power, 55 -1800 MHz
VULP 9118 G	Log.-Per. Antenna, al. tubing, end discs, 1 kW power, 45 -1500 MHz
VULP 9118 D/E/F/G special	Nearly identical gain as VULP 9118 D/E/F/G but with reduced width. Extra charge added to the basic model. Special = folded longest elements
VULP 9118 H	Log.-Per. Antenna, aluminium tubing, 1 kW power, (26) 30 - 1500 (1800) MHz, N-connector gain 6 dBi, VSWR<3, width 5.2 m, length 4.8 m, weight 35 kg.
Opt. WP	Option: grey coating and sealing for outdoor use
USLP 9142	UHF – SHF Log. – Per. Antenna, 0.7 – 5 (8) GHz, 50 W
USLP 9143	UHF – SHF Log. – Per. Antenna, (0.25) 0.3 – 5 (7) GHz, 50 W
USLP 9143 B	UHF – SHF Log. – Per. Antenna, (0.18) 0.2 – 7 (8) GHz, 50 W
ESLP 9145	UHF – EHF Log. – Per. Antenna, (0.7) 1- 18 (20) GHz, N-connector
XSLP 9142	Dual Polarized UHF-SHF Log.-Per. Antenna, 800 MHz – 3(5) GHz, 50 W
XSLP 9143	Dual Polarized UHF-SHF Log.-Per. Antenna, 300 MHz – 3(5.5) GHz, 50 W
Stacked Logarithmic Periodic Broadband Antennas	
STLP 9128 C	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, alum. Tubing, high power, (150) 200 - 1500 (4000) MHz, N-connector 1 kW
Opt. 7/16	Option: with 7/16-connector 3 kW
Opt. 13-30	Option: with 13-30-connector limited to 2500 MHz but higher power up to 8 kW including adapter similar to AA 9202

STLP 9128 D	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, alum. Tubing, high power, 80 -3000 (4000) MHz, N-connector.
Opt. 7/16	Option: with 7/16-connector 3 kW
Opt. Fastlinks	Option fastlinks for quick removal of the rear parts of the antenna.
STLP 9128 E	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, alum. Tubing, high power, (65) 80 -1500 (3000) MHz, N-connector 1 kW
Opt. 7/16	Option: with 7/16-connector 3 kW
STLP 9128 E special	Like STLP 9128 E but with folded longest elements and smaller structure angle. Antenna diameter < 150 cm.
Opt. 7/16	Option: with 7/16-connector 3 kW
STLP 9148	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi (0.7) 1 – 18 (20) GHz, N-connector
STLP 9149	Stacked double Log.-Per. Antenna for IEC 61000-4-3 typ. gain 10.3 dBi, (0,6) 0,7 – 9 (10,5) GHz, N-connector female.
STLP 100-500	Stacked double Log.-Per. Antenna, typ. Gain: 11 dBi, alum. Tubing, high power, (75) 100 – 500 (550) MHz, 13/30 (f)-connector 5 kW, dimensions: 166x178x402 cm, 52 kg
Biconic Logarithmic Periodic Antennas (Hybrid)	
VULB 9160	TRILOG Super Broadband test Antenna, (25) 30 – 1000 (1700) MHz, 10 W
VULB 9161	TRILOG Super Broadband test Antenna, 30 – 1000 (2000) MHz, 1 kW
VULB 9161 SE	TRILOG Super Broadband test Antenna, 30 – 1000 (2000) MHz, 1 kW with short Triangle elements, diameter < 150 cm.
VULB 9163	TRILOG Super Broadband test Antenna, (25) 30 – 3000 (4000) MHz, 100 W (200 W)
VULB 9165	LOGBICON Super Broadband test Antenna, (20) 30 – 1500 (2000) MHz, 10 W, BBAL Elem.
VULB 9166	LOGBICON Super Broadband test Antenna, 20 – 1500 MHz, 1 kW, BBAL EI.
VULB 9168	TRILOG Super Broadb. Test Antenna, (25) 30-1000 (2000) MHz, 10 W, reduced width, diameter < 1.5 m.
Opt. Triext.	Option for VULB 9163, VULB 9161, VULB 9161 SE: angled Triangle Extensions to increase the gain by typ. 6 dB below 70 MHz.
Biconical Antennas	
RS 16	Vertical polarized microwave biconical antenna (0,5) 1 – 6 (8,5) GHz with omni directional H-plane pattern.
RE 1790	Vertical polarized VHF- UHF biconical antenna (170) 230 – 1000 (1100) MHz with omni directional H-plane pattern.
RE 4590	Vertical polarized VHF- UHF biconical antenna (330) 450 – 1000 (1100) MHz with omni directional H-plane pattern.
SBA 9113 B	Small Biconical Antenna 80 MHz – 3 GHz for harmonics measurements acc. to IEC61000-4-3.
SBA 9113	Small biconical microwave antenna 0.5 – 3 GHz, 20 W. CIS/A/648/CDV CISPR 16-1-4 Site evaluation above 1 GHz
SBA 9112	Small biconical microwave antenna (1) 3 – 18 GHz, 10 W including transport case. CIS/A/648/CDV CISPR 16-1-4 Site evaluation above 1 GHz
UBA 9116	Biconical UHF broad band antenna (160) 300 -1000 (1100) MHz
VUBA 9117	Biconical VHF-UHF broad band antenna (30) 150 -1000 MHz
Dipoles	
VHA 9103	VHF Half-Wave Dipole with 2 sets of telescopic elements, 30-300 MHz
UHA 9105	Tuneable UHF – Half – Wave Dipole, 300 – 1000 MHz w. telescopic elements
UHA 9125 C	Tuneable UHF – Half – Wave Dipole with EMI – Balun, 0.75 – 2 GHz with 4 sets of elements, L _E = 180, 140, 100, 80 mm.
UHA 9125 D	Tuneable UHF – Half – Wave Dipole with EMI – Balun, 1.0 – 3 (4) GHz with 6 sets of elements, L _E = 140, 114, 90, 72, 60, 48 mm
Precision Dipoles	
VHAP	VHF Precision Dipole 30-300 MHz, 2 sets of telescopic elements (mostly required in pairs) CISPR 16-1-5.
UHAP	UHF Precision Dipole 300-1000 MHz (VHAP & UHAP mostly required in pairs) CISPR 16-1-5
CCA	Carrying and storing case for 2 x VHAP or 2 x UHAP, cases for other antennas also available.
VHAPA	Calibration adaptor for VHAP Precision Dipoles
UHAPA	Calibration adaptor for UHAP Precision Dipoles
FM and TV bands antenna	
FT 01 S	FM broadcast and TV bands antenna, detachable, 47 – 860 (1000) MHz, high directivity
FT 01 UKW	Additional elements for enhanced FM broadcast directivity
NMHA	NMHA Antenna Set to test immunity against handy transmitters according to NISSAN standard. Consists of the following antennas: NMHA 28 Normal mode tuned helical 28 MHz, NMHA 52 Normal mode tuned helical 52 MHz, NMHA 122 Normal mode tuned helical 122 MHz, NMHA 145 Normal mode tuned helical 145 MHz, NMHA 155 Normal mode tuned helical 155 MHz, NMHA 165 Normal mode tuned helical 165 MHz, NMHA 223 Normal mode tuned helical 223 MHz, TQWA 410-455 Tuned Quarter wavelength antenna 410-455MHz, UHA 9125 C Tuned half-wave dipole 0.75-2 GHz, TSA 1270 Tuned Sleeve antenna 1.27 GHz, TSA 1440 Tuned Sleeve antenna 1.44 GHz, TSA 1750 Tuned Sleeve antenna 1.75 GHz, TSA 1950 Tuned Sleeve antenna 1.95 GHz and a transport case.
Broadband Horn Antennas	

BBHA 9120 A	Broad-Band Horn Antenna (0.8) 1 – 5 (10) GHz, N-connector
BBHA 9120 B	Broad-Band Horn Antenna 1 – 10 GHz, N-connector
BBHA 9120 C	Broad-Band Horn Antenna 2 – 18 (20) GHz, SMA-connector
BBHA 9120 D	Broad-Band Horn Antenna (0.8) 1 – 18 GHz, N-connector
BBHA 9120 E	Broad-Band Horn Antenna 0.5 – 6 GHz, N-connector
BBHA 9120 F	Broad-Band Horn Antenna 0.2 – 2 GHz, N-connector
Opt. 7/16	Option: with 7/16-connector 3 kW
BBHA 9120 G	Broad-Band Horn Antenna 0.4 – 2.8 GHz, 7/16-connector
BBHA 9120 LF	Broad-Band Horn Antenna 0.7 – 6 GHz, N-connector
BBHA 9120 L3F	Broad-Band Horn Antenna 0.5 – 2.8 GHz, N-connector
BBHA 9170	Broad-Band Horn Antenna 15 – 26.5 (40) GHz, SMA-compatible connector
HA 9250-48	Pyramidal standard gain horn Antenna, 4 – 8 GHz, 7/16-connector, 20 dBi
HA 9250-24	Pyramidal standard gain horn Antenna, 2 – 4 GHz, 7/16-connector, 20 dBi
BBHX 9120 E	Dual polarized Broad-Band Horn Antenna 0.4 – 10 GHz, N-connectors
Standard Gain Antennas	
SGA...	Standard Gain Antennas, typ. 9.8 dBi gain, 60° pattern, accurately calibrated (2 half-wave dipoles in front of a $\lambda \times \lambda$ reflector, design frequencies approx. 400-2800 MHz).
Active Antennas	
VAMP 9243	Vertikal active rod antenna, 9 kHz - 30 MHz, BNC, reduced noise floor, with mounting nut for AM 9144 and rechargeable battery.
Opt. GP	Option: Aluminium-Groundplane, 0.6 x 0.6 m
Opt. ACS 410	Option: Charger ACS 410
Opt. Divider	Option 20 dB plug in divider to measure high field strength
EFS 9218	Active Electric Field Probe with Biconical Elements, 9 kHz - 300 MHz, 12 $\mu\text{V/m}$ - 65 V/m, const. antenna factor typ. 46 dB/m high symmetry, built in rechargeable battery
Opt. ACS 410	Option: Automatic charger ACS 410 for EFS 9218
Opt. PA	Option: built in broadband preamplifier. Antenna factor 20 dB/m, disengageable.
EFS 9219	Active antenna holder, high sensitivity (1 $\mu\text{V/m}$... 3 V/m), 9 kHz-30 MHz, BBUK 9139 biconical elements required.
Opt. Tube	Option: Isolating tube with braid chokes for EFS 9219
Opt. ACS 410	Option: Automatic charger Ansmann ACS 410 for EFS 9219
IABF 9216	Isotropic field strength measurement unit for use with spectrum analyzer or receiver, 9 kHz – 3 GHz.
Opt. cover	Option: Weather protection cover
Passive Rod Antenna	
VPMP 9242	Vertical passive rod antenna, 10 – 40 MHz, possible rods: FBAB 9177, FBAL 9178, BBA 9106, BBAL 9136 (have to be ordered extra)
Opt. GP	Option: Aluminium groundplane 0.6 x 0.6 m
Passive Magnetic Antennas, TX-Loop Antennas	
HFRA 5148	Circular Transmitting Loop Antenna diam. 180 mm, 1 turn
HFRA 5150	Transmitting Loop Antenna w. broad band transformers and 50 Ohm load 5 W included (with external dummy load max. 100 W), size 0.6m x 0.6 m, 9 kHz – 30 MHz, 3/8" camera thread
HFRA 5151	same as model 5150, but reduced size 0.45 x 0.45 m
HFRA 5152	Circular Transmitting Loop Antenna diam. 250 mm, 0-3 MHz, 1 W
HFRA 5153	Circular Transmitting Loop Antenna diam. 180 mm, 0-20 (30) MHz, 5 W
HFRA 5154	Circular Transmitting Loop Antenna diam. 100 mm, 0.1 – 30 MHz, Transformer 50 Ohm, 0.5 W
HFRA 5155	Circular Transmitting VHF – UHF loop antenna, diam. 50 mm,
HFRA 5156	Circular Transmitting Loop Antenna diam. 50 mm, 0-5 MHz, 2 W, 10 turns
HFRA 5157	Circular Transmitting Loop Antenna diam. 50 mm, 0-20(30) MHz, 3 W, 2 turns
HFRA 5158	Circular Transmitting Loop Antenna diam. 180 mm, 0-2 MHz, 5 W, 10 turns
HFRA 5159	Circular Transmitting Loop Antenna diam. 250 mm, 0-0.5MHz, 5 W
HFRA 5170	Cal. Loop 3 W, diam. 100 mm, 0-30 MHz, 1 turn, 250 Ohm
Passive Magnetic Antennas, RX-Loop Antennas	
HFRAE 5160	Receiving VHF – UHF loop antenna, diam. 50 mm, 2-300 MHz, Transformer
HFRAE 5161	HF RX Loop, diam. 100 mm, 70 k-120 MHz, 1 turn, Transformer
HFRAE 5162	VLF-HF RX Loop, diam. 250 mm, 50 k-30 MHz, 1 turn, Transformer
CISPR 15 3-dimensional loop antenna van Veen	
HXYZ 9170	3-dimensional large loop antenna, diam. 2 m, acc. EN 55015 / CISPR 15, Socket and Coaxial switch recommended
Socket for HXYZ 9170	Socket and mounting equipment for large loop HXYZ 9170
Coaxial Switch for HXYZ 9170	3 in one coaxial switch for manual / remote operation including cable set (3 BNC cables with braid current blockers) for large loop HXYZ 9170
HFCD 9171	Calibration Balun / Dipole for HXYZ 9170 (recommended accessory: AM 9144)
CDA 9271	Adapter to hold HFCD 9171 on AM 9144, 3/8" female large camera thread.

Active Loop Antennas / Magnetic Field Probes	
FMZB 1516	Loop Field Strength Measuring System, works with EMI Rcvrs. Analyzers 9 kHz – 30 MHz, constant antenna factor of 20 dB(1/m), mains operated.
Opt. Battery	Option: Built-in rechargeable battery pack and automatic charger
HMDA 1545	Handheld magnetic field meter, LCD, acoustic fieldstrength indication with tone generator, 9 kHz- 50 (80) MHz, 200µA/m ... 1 A/m, 6 x Type AA NiMH.
Opt. ACS 410	Option: ACS 410 charger for HMDA 1545
HFS 1546	Active magnetic Field Probe with shielded 50-mm-Loop, 150 kHz – 400 MHz
Opt. ACS 410	Option: ACS 410 charger for HFS 1546
FMZB 1517	Calibrated hand-held Magnetic Loop Antenna, 9 kHz – 30 MHz, 150 mm diam. for EMI Rcvrs. (measures H-field, fictive E-field level up to 20 V/m (53 mA/m), 20 dB/m Antenna Factor)
FMZB 1527	Calibrated hand-held Magnetic Loop Antenna, 9 kHz – 30 MHz, 150 mm diam. for EMI Rcvrs. max. fictive E level 150 V/m (0.4 A/m), AF: 40 dB/m
FMZB 1537	Magnetic field meter 9 kHz – 30 MHz, requires either EHMG 1623 or UEW 9210 with EMI-Receiver / Analyser, max. fictive E level 75 V/m (0.2 A/m),
FMZB 1538	Magnetic field meter 9 kHz – 30 MHz, max. fictive E level 75 V/m (0.2 A/m), separate power supply cable.
FMZB 1547	Magnetic field meter 9 kHz – 30 MHz, 20A/m, requires UEW 9210 with EMI-Receiver / Analyser
FMZB 1548	Magnetic field meter 9 kHz – 30 MHz, 20A/m, with separate power supply cable
UEW 9210	DC separator for coaxial power supply of probes FMZB 1537, FMZB 1547
SNUE 9211	AC/DC Adaptor / Power supply 220V AC/15V DC for UEW 9210, 3.5 mm jack
HMG 1621	Handheld magnetic field meter 5 Hz – 10 kHz, 0.003 ... 30 A/m, requires probe
Opt. Probe 5	Option: Probe 5 Hz – 10 kHz for HMG 1621
Opt. Probe 50	Option: Probe 50 Hz – 10 kHz for HMG 1621
Helmholtz Coils	
HHS 5203-20	Helmholtz Coils, circular, diam. 300 mm, 330 A/m for Calibration or Immunity
HHS 5204-36	Helmholtz Coils, circular, diam. 400 mm, 2500 A/m 150 kHz MIL-STD 461E
HHS 5204-12	Helmholtz Coils, circular, diam. 400 mm, 2500 A/m 500 kHz MIL-STD 461E
HHS 5204	Helmholtz Coils for Calibration purposes, circular, diam. 420 mm, 5 turns f. 60 A/m
HHS 5210	Helmholtz Coils up to 300 A/m constant H field, 1 m x 1 m, 10 turns per coil, EN 61000-4-8, VDE 0847 part 4-8
HHS 5212	Helmholtz Coils up to 250 A/m H field, 1.20m x 1.20 m, 10 turns.
HHS 5213	Helmholtz Coils 1.25 m x 1.25 m, 50 turns per coil, acc. EN 55103-2 A.2.1.b)
HHS 5215	Helmholtz Coils up to 200 A/m constant H field, 1,5 m x 1,5 m, 10 turns per coil
HHS 5218	Helmholtz Coils up to 126 A/m constant H field, 1,8 m x 1,8 m, 10 turns per coil
HHS 5201-98	Helmholtz Coils circular up to 64 kA/m 200 kHz for DuT size 45 mm.
HHS 5201-6	Helmholtz Coils circular up to 2860 A/m 5 MHz for DuT size 45 mm.
FESP 5132	Radiating loop diam. 12 cm, 20 turns, 15 Hz to 150 kHz, max 15 A, 2x Banana jack 4mm, ISO 11452-8, MIL-STD 461E p. 108, EN 55103 5.18.3.2
FESP 5133	Loop Sensor / Antenna, 36 turns in 4 layers, diam. 133 mm, EN 55103-1 A.2.b), EN 55103-2 A.4.1 0 – 200 kHz, BNC-connector female.
FESP 5133-7/41	Circular shielded loop sensor to determine the magnetic field strength. 36 turns AWG 7/41, diameter 133 mm, distance gauge 7 cm included. MIL 461E RE101 or RS101 alternative test procedures.
FESP 5134	Loop Sensor / Antenna, diam 4 cm, 51 turns, 15 Hz to 150 kHz, electrostatic shielding, 2x Banana jack 4mm
FESP 5150	Radiating coil diam. 0.5 m, 20 turns in one layer, acc. EN 55103-2 A.3.1
Antenna Masts / Tripods / Adapters	
AM 9104	Detachable Antenna Mast System (glass-fibre tubing) for VHF-UHF Antennas, manual height scanning 0.4 m to 4 m, insulated mast and antenna box with 0°/90° detents, zinc-plated / stainless steel 3-leg mast foot.
Opt. wheels	Option: Caster Wheels and Brakes for zinc-plated / stainless steel 3-leg mast foot
Opt. GF	Alternative Option: Non metallic (glass-epoxy) mast foot for AM 9104
AM 9144	Glass – Epoxy tube Antenna Mast System, height set by screw 1.2 – 2 m, 3/8" thread on top, zinc-plated / stainless steel 3-leg mast foot.
Opt. GF	Option: Non metallic (glass-epoxy) mast foot for AM 9144
Opt. wheels	Option: Caster Wheels and Brakes for 3-leg mast foot
Opt. short	Option: height set range from 0.90 – 1.60 m (shorter version)
AA 9202	Mast Adapter for AM 9144 with 22 mm hole for most Antenna models, 3/8" and 1/4" camera threads, polarisation continuously adjustable.
AA 9202 POM	Non metallic mast adapter for most light weight Antenna models with 22 mm tube, minimizes reflections, 3/8" camera thread, polarisation continuously adjustable.
AA 9203	Mast Adapter for AM 9144 with 22 mm hole for most Antenna models, 3/8" and 1/4" camera threads polarisation and elevation continuously adjustable
AA 9205	Orthogonal Swivel Adapter for positioning in 3 perpendicular directions. Application: determination of the magnitude of the fieldstrength

KG 9201	Mast Adapter (swivel, 90° vertical/horizontal polarisation for AM 9144), for VULP 9118 D,E,F,G and VUSLP 9111 E only
PPS 9208	Pneumatic polarisation shifter with 2-way pneumatic cylinder for all Schwarzbeck antennas with 22 mm tube on AM 9144. Compressed air required.
SWHA 9204	Swivel handle for light antennas
EA 9207	Adapter for Schwarzbeck antennas with 22 mm tube on EMCO mast.
TA 9204	Thread Adapter with 3/8" female and 1/4" male threads. Mainly for American antenna brands.
TA 9205	Thread Adapter with 1/4" female and 3/8" male threads. (For camera tripods, not for AM 9144)
TA 9206	Thread Adapter with 3/8" female and 5/8" male threads. (Geodesy)
LISN Line Impedance Stabilisation Networks	
NSLK 8126	V-LISN, 9 kHz – 30 MHz, 50 µH + 5 Ohm 50 Ohm, 250 µH isolating choke can be shorted, 4 x 16/25 A, 2 x 16 A Schuko and 4 x 16 A CEKON socket, Artificial Hand.
Opt. rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
Opt. rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
NSLK 8127	V-LISN, 9 kHz – 30 MHz, 50 µH + 5 Ohm 50 Ohm, 250 µH isolating choke can be shorted, 2 x 16 A Schuko socket, Artificial Hand.
Opt. rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
Opt. rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
Opt. PLC	Option: Power Line Communication, according to EN 50065-1, selectable ranges: 3 – 9 kHz, 9 – 95 kHz, 95 kHz – 30 MHz.
NSLK 8128	V-LISN, 9 kHz – 30 MHz, 50 µH + 5 Ohm 50 Ohm, 250 µH isolating choke can be shorted, 4 x 32/50 A, 2 x 16 A Schuko and 4 x 32 A CEKON socket, Artificial Hand.
Opt. rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
Opt. rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
NNLK 8121	V-LISN, 9 kHz – 30 MHz, 50 µH + 5 Ohm 50 Ohm, 250 µH isolating choke, 4 x 50 (100) A, wing terminals (For continuously 100 A add the options cont. high current and cooling fans!)
Opt. rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
Opt. rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
Opt. cont. high current	Option: cont. high current, additional terminals to bypass the 250 µH chokes, provides less voltage drop and less heating.
Opt. 400/700 V	Option: 400/700 V Voltage to Neutral / Voltage between lines
Opt. Fans	Option: Cooling Fans
NNLK 8129	V-LISN, (9) 150 kHz – 30 MHz, 50 µH 50 Ohm, 4 x 200 (300) A, wing terminals, low voltage drop, High power resistors
Opt. 400/700 V	Option: 400/700 V Voltage to Neutral / Voltage between lines
Opt. rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
Opt. rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
Opt. Fans	Option: Cooling Fans
NNLK 8130	V-LISN, (9) 150 kHz – 30 MHz, 50 µH 50 Ohm, 4 x 400 (500) A, wing terminals, low voltage drop, High power resistors, cooling fans.
Opt. rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
Opt. rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
Opt. 400/700 V	Option: 400/700 V Voltage to Neutral / Voltage between lines
Single path LISN (Automotive) CISPR 25 / ISO 7637	
NNBM 8125	LISN 5 µH 50 Ohm, 70 (100) A, single path, with switchable 50 Ohm termination and 10 dB attenuator.
Opt. ISO 7637-2	Option: 1 Mikrofarad capacitor on the mains side switchable. Switched on the LISN conforms to CISPR 25, switched off the LISN is suitable for transient measurements acc. to ISO 7637-2.
NNBM 8126 A	LISN 5 µH 50 Ohm, 70 (100) A, DC 500 V, AC 50 Hz 250 V, AC 400 Hz 110 V.
Opt. DO-160	Calibration up to 400 MHz according to DO-160.
NNBM 8126 D	LISN 5 µH 50 Ohm, 200 A single path.
NNBM 8126 F	LISN 5 µH 50 Ohm, 400 A single path.
NNBM 8125 BCI	LISN 5 µH 50 Ohm, 70 (100) A single path, no switchable attenuator, switchable 50 Ohm 50 Watt load for bulk-current injection test.
Opt. 200 A	Option: 200 A
Two path LISN (Automotive) CISPR 25 / ISO 7637	
NNBM 8126 G	LISN 5 µH 50 Ohm, 70 (100) A, two paths, two BNC-connectors, including 1 ea 50 Ohm dummy load.
LISN according to MIL 461 MIL 462	
NNBL 8225	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm 50 Ohm, 20 A, 50 Hz AC 250 V, single path, Mil. Std. 461/462.
NNBL 8226	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 250 V, single path, Mil. Std. 461/462.
NNBL 8226-HV	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 800 V, single path, Mil. Std. 461/462.
NNBL 8226-2	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 250 V, two path, Mil. Std. 461/462.

Universal LISN	
NDTV 8160	Universal Delta-, T-, V-LISN
ISN / T-Networks	
NTFM 8131	T-ISN 150 Ohm asymmetric 50 Ohm unsymmetric, 2-wire, 400 V AC, 9 kHz – 30 MHz, CISPR 22 D1/EN55015-2002
NTFM 8132	T-ISN 2-wire, 10 kHz – 30 MHz, CISPR 22 D1
NTFM 8134	4 wire ISN, two unscreened single balanced pairs, CISPR 22 D4
NTFM 8136	4 wire ISN, two unscreened single balanced pairs, CISPR 22 D2
NTFM 8138	4 wire T-ISN, two unscreened single balanced pairs, CISPR 22 D3
NTFM Adapters	Adapters e.g. wired for ISDN, 1000BaseT or for self wiring available on request
PB 44	Precision Balun for LCL-measurements on NTFM 813x
Voltage Probes	
TK 9417	HF-Probe, 2.5 kOhm
TK 9420	High-Voltage-Probe, 1.5 kOhm, 4 pF, 9 kHz – 30 MHz, RF < 30 V
VT 9420	Plug-In divider 1.5 kOhm for TK 9420 probe for determination of disturbance source impedance
TK 9421	High Power Voltage Probe, 1.5 kOhm, 4 pF, 150 kHz – 30 MHz RF < 100 V
TK 9422	High Power Voltage Probe, 5 kOhm, 4 pF, (9) 150 kHz – 30 MHz RF < 100 V
EMI Receivers	
FCKL 1528	EMI-Receiver acc. CISPR 16-1, 9 kHz – 30 MHz, 5 Detectors: Quasipeak, Peak, Average, CAV, CRMS. Attenuator with 1 dB steps, Protected Input, Automatic Calibration w. built-in Pulse Generator
Opt. IEEE 488	Option: IEEE-488 Interface for use with Schwarzbeck-Software
Opt. XY-Rec.	Option: 25-pin connector on the back side with analogous voltages for frequency and Interference voltage to connect an XY-recorder.
Opt. TG	Option: Built-In Tracking Generator, Output Level 120 dBµV.
Opt. Softw.	Option: Schwarzbeck-Software FCKL for EMI-Measurement
FCVU 1534	EMI-Receiver acc. CISPR 16-1, 20 – 1050 MHz, 3 Detectors: Quasipeak, Peak, Average, Attenuator with 1 dB steps, Protected Input, Automatic Calibration w. built-in Pulse Generator
Opt. IEEE 488	Option: IEEE-488 Interface for use with Schwarzbeck-Software
Opt. XY-Rec.	Option: 25-pin connector on the back side with analogous voltages for frequency and Interference voltage to connect an XY-recorder.
Opt. TG	Option: Built-In Tracking Generator, Output Level 120 dBµV P.D.
Opt. Softw.	Option: Schwarzbeck-Software FCVU for EMI-Measurement
Opt. PA	Option: Coaxial powered preamplifier 10 dB
FCLE 1535	EMI-Receiver acc. CISPR 16-1, 9 kHz – 3.25 GHz, 5 Detectors: Quasipeak, Peak, Average, CAV and CRMS. Protected Input, Automatic Calibration w. built-in Pulse Generator
Opt. IEEE 488	Option: IEEE-488 Interface for use with Schwarzbeck-Software
Opt. Softw.	Option: Schwarzbeck-Software for FCLE for EMI-Measurement
INES PCI 488	IEEE 488 32-bit PCI-Slot PC Plug-In Card (BKAB 488 necessary)
INES PCMCIA 488	IEEE 488 32-bit PCMCIA (Type II) Plug-In Card for portable Computers (Notebook) including 2 m cable
BKAB 488	IEEE 488 cable, 2 m, necessary for PCI card, not necessary for PCMCIA card
Pulse Generators	
IGUU 2916	Universal Calibration Pulse Generator acc. CISPR 16 for Bands A, B, C, D (9 kHz – 1000 MHz), especially for EMI Receiver Tests (Pulse weighting, Overload), Signal generator 100 kHz, 1 MHz, 10 MHz, 100 MHz (60 dBµV). Pulse Repetition Frequency 0.1 Hz – 200 Hz (20 kHz), Output Level adjustable in 1 dB steps
Opt. IEEE 488	Option: IEEE-488 Interface for IGUU 2916
Opt. RecTest Softw.	Option: Receiver Test Software für IGUU 2916, signal generator and EMI-receiver to perform a CISPR 16-1-1 calibration of an EMI receiver.
Opt. KU 9616	Option: Coaxial Switching Unit for automatic performance tests with IGUU 2916, N-Connectors female
IGUF 2910	Battery driven High Power Pulse Generator, Pulse Repetition Frequency 300 Hz, weighted CISPR Level 80 dBµV (Quasipeak, 120 kHz IF-BW). Broad band signal source up to 300 (1000) MHz w. 0.5 ns Pulses of 300 V at 50 Ohm
LGA 9802	Automatic Charging Unit 230 V for IGUF 2910
CDN 0.15 – 230 MHz, IEC 1000-4-6, EN 61000-4-6	
L 801 M1	CDN Earth Conductor 240 V, 6 A
L 801 M1 32 A	CDN Earth Conductor 240 V, 32 A
L 801 M2	CDN Mains 2 leads, 16 A, L + N or L1 + L2, 240 V
L 801 M2 / 10 kHz	CDN Mains 2 leads, 16 A, L + N or L1 + L2, 240 V, 10 kHz – 80 MHz
L 801 M2 / 50	CDN L1 + L2, 240 V, 50 A
L 801 M2 / 75	CDN L1 + L2, 240 V, 75 A
L 801 M3	CDN Mains 3 leads, 16 A, L + N + PE, 240 V

L 801 M3 / 10kHz	CDN Mains 3 leads, 16 A, L + N + PE, 240 V, 10 kHz – 80 MHz
L 801 M3 Delta	CDN L1 + L2 + L3, 3 x 400 V, 16 A
L 801 M2 / M3	CDN Mains 3 leads, 16 A, L + N + PE, switchable L + N, 240 V
L 801 M4	CDN L1 + L2 + L3 + PE, 3 x 400 V, 16 A
L 801 M4 Delta	CDN L1 + L2 + L3 + N, 3 x 400 V, 16 A
L 801 M5	CDN Mains 5 leads, 16 A, L1+L2+L3+N+PE, 16 A, 3 x 230 / 400 V
L 801 AF 2	CDN Data 2 leads
L 801 AF 4	CDN Data 4 leads
L 801 AF 8	CDN Data 8 leads
L 801 S1–50	CDN Coaxial 50 Ohm, BNC, N or SMA
L 801 S1–75	CDN Coaxial 75 Ohm, BNC-connector 75 Ohm
L 801 S4	CDN Data 2 twisted pairs screened, D-sub 9 female
L 801 S8	CDN Data 8 leads screened, D-sub 9 female
L 801 S9	CDN Data 9 leads screened, D-sub 9 female
L 801 S15	CDN Data 15 leads screened, D-sub 15 female
L 801 S25	CDN Data 25 leads screened, D-sub 25 female
L 801 T2	CDN Balanced Lines
L 801 T4	CDN Balanced Lines
L 801 T8	CDN Balanced Lines
CR 100	150 Ω to 50 Ω Adaptor 0 – 1000 MHz, 1 W, N-female, 4 mm female
CR 100 A	150 Ω to 50 Ω Adaptor for CDN, 0 – 500 MHz, 4 W, BNC female, 4 mm female for CDN
Absorbing clamps / braid current blocking Clamps	
MDS 21	EMI Absorbing Clamp 30 – 1000 MHz, acc. CISPR 16 for interfering power
MDS 21 B	Same as MDS21 but with silicon coated rolls
MDS 22	Absorbing Clamp 0.3 – 2.5 GHz
EM 101	Current Injection Clamp, 0.15 – 1000 MHz, 100 W, 4kV max.
CAL EM 101	Calibration Kit for EM 101
EM 101 + FTC 101	System Injection clamp EM 101 and braid current blocking clamp FTC 101.
RDL 5	Small RF current probe clamp, 20 - 400 MHz, 5W cont., 2 kV
FT 14X15	Surface current blocking filter 100 - 1000 MHz
FT 33X15	Surface current blocking filter 10 - 1000 MHz
FT 34X15	Surface current blocking filter 1 - 1000 MHz
FT 32	Surface current blocking filter 0.01 - 1000 MHz
FTC 40X15C	Absorbing Clamp 10 - 1000 MHz
FTC 40X15E	Absorbing Clamp 1 - 1000 MHz, CISPR 22
FTC 101	Surface current blocking filter clamp (in combination w. EM 101)
Accessories	
KU 9608	Symmetrical Bypass switch EN 55015 / CISPR 15
BD 9501	IEEE-488 Bus-Feed through for flange mounting (shielded rooms) (other feed throughs on request)
HPF	High Pass Filter 35 - 1000 MHz, Insertion loss at 27.12 MHz typ. 100 dB
CVP 9222	High Impedance Capacitive Voltage Probe acc. to CISPR 22, EN 55022 C 1.3. Frequency range: 9 kHz – 100 MHz.
Opt. ACS 110	Option: Charger ACS 110 for CVP 9222.
Opt. KA	Option: Calibration Adapter for CVP 9222.
SW 9602	Current Transformer, shielded, 0.01 - 200 MHz, Transfer Impedance: 1 Ohm for wires up to 6.5 mm.
SW 9603	Current Transformer, shielded, 9 kHz - 150 MHz, Transfer Impedance: 1 Ohm for wires up to 14 mm.
SW 9605	Current Transformer Clamp CISPR 22, 9 kHz - 80 MHz, Transfer Impedance: 1 Ohm for wires up to 23 mm.
SY 9501	Balun unsymm. 50 Ohm to symm. 150 Ohm EN 55015, CISPR 15
SY 9223	Broad band isolation transformer SY 9223 acc. CISPR 13 fig. A.2, 50 Ohm 75 Ohm.
VTSD 9561 D	Diode Pulse Limiter + 20 dB Attenuation, fuse lamp, BNC
VTSD 9561 F	Diode Pulse Limiter + 10 dB Attenuation, fuse lamp, BNC
VTSD 9562	Bandpass and Limiter for Partial Discharge Measurements BNC
BBV 9720	Broadband Coaxial Preamplifier 10 dB, 20 MHz – 1 GHz N-male/female, requires EW 9721 or FCVU 1534.
EW 9721	DC-Separator for BBV 9720
BBV 9742	Broadband Coaxial Preamplifier amplification max. 30 dB, 9 kHz – 4 GHz, low noise floor, ESD protected, N-jack N-plug, including power supply.
BBV 9718	Broadband Coaxial Preamplifier typ. 33 dB, 1 - 18 GHz with fixture for 22 mm antenna tube, and N to SMA cable, power supply 12 V 250 mA necessary.
Opt. PS	Option: Power supply for BBV 9718

Opt. Battery	Option: Rechargeable battery pack for BBV 9718
Opt. ALCS 2-24A	Battery charger ALCS 2-24A for rechargeable battery pack
Coaxial Cables	
AK 9513	50 Ohm Coax. Cable with N plugs, individual length, usable up to 3 (5) GHz, Basic price Euro 80,00 + price / m Euro 4,00 + price for individual calibration Euro 80,00. Indiv. Cal. possible if cable longer than 3 m. Standard lengths: 3 m, 5 m, 10 m.
AK 9515 D	50 Ohm Coaxial Cable with N plugs, low loss, limited flexibility, usable up to 10 (18) GHz, 10.5 mm diam. Basic price Euro 140,00 + price / m Euro 6,00+ price for individual calibration Euro 80,00. Indiv. Cal. possible if cable longer than 1 m.
AK 9515 E	50 Ohm Coaxial Cable with N plugs, low loss, good flexibility, usable up to 10 (18) GHz, 10.8 mm diam. Basic price Euro 140,00 + price / m Euro 6,00 + price for individual calibration Euro 80,00. Indiv. Cal. possible if cable longer than 1 m.
AK 9515 H	50 Ohm Microwave Coaxial Cable with N-connectors, low loss, flexible, usable up to 18 GHz. Basic price Euro 170,00 + price / m Euro 15,00 + price for individual calibration Euro 80,00. Indiv. Cal. possible if cable longer than 1 m.
Fixed Attenuators	
DGA 9550 N	10 dB fixed attenuation, 0 – 1000 MHz, N – connectors male / female
DGA 9552 N	Attenuator N-female N-male to 18 GHz, 50 Ohm 5 Watt. Available values: 3 dB, 6 dB, 10 dB, 20 dB.
DGA 9560 B	10 dB fixed attenuation, 0 – 1000 MHz, BNC male / female
Reference Radiators	
SG 9301	Spectrum Generator 30-1000 MHz, spectrum lines switchable 100 Hz – 1 MHz, N-female connector, charger 230 V AC, main application: reference radiator (antenna required e.g. UBAA 9114 with BBVU 9135)
SG 9302	Comb generator 0.1 – 18 GHz, spectrum lines every 100 MHz, battery driven, including charger.
Field meters	
IEMH 1601	Isotropic hand held electric field meter 1.8 – 30 MHz, 0.05 ... 500 V/m
EHMG 1623	Analogous Display unit for FMZB series
EHAG 1624	LCD-Display Unit for EFS 9218, 9219, HFS 1546, FMZB series
VUFM 1670	E-Field Meter 70 kHz-2.5 GHz, 1V/m-300V/m, linear polarized
VUFM 1671	LCD-Display Unit for VUFM 1670 with 5 m fibre optical link, Additional cost for longer fibre: Euro 5,00/m
VUFM 1672	LCD-Display Unit VUFM 1672 for E - Field-Meter VUFM 1670 with optical link and IEEE 488 / GPIB – Interface.
Near Field Probes	
FS-SET 7100	Nearfield Probe Set including HFSL, HFSH, EFS and Separator EW and AC/DC Adaptor in storing case.
HFSL 7101	Active Near Field Probe (magnetic) 9 kHz - 30 MHz (EW 7110 required)
HFSH 7102	Active Near Field Probe (magnetic) 4 MHz - 1000 MHz (EW 7110 required)
EFS 7103	Active Near Field Probe (electric) 9 kHz - 1000 MHz (EW 7110 required)
EW 7110	Coaxial DC-Separator for Near Field Probes HFSL, HFSH, EFS
ACDC 7110	AC/DC Adapter for DC-Separator EW 7110
Strip lines	
TEMZ 5231	50 Ohm Strip line according to ISO 11452-5 for automotive testing, 4.3 x 1.5 x 0.15 m, N-connectors, wooden base construction and termination required
Opt. Termination	Option: 50 Ohm termination, N-connector, 50 Watt, for TEMZ 5231
TEMZ 5232	90 Ohm Strip line according to ISO 11452-5 for automotive testing, 3.5 x 0.9 x 0.15 m, N-connector, built-in termination 90 Ohm, 50 W, wooden base construction required
TEMZ 5233	Closed, unsymmetrical 50 Ohm strip line DC - 420 (600) MHz, Crawford TEM Cell, for E- field probe and H-field probe calibration and for immunity testing. ISO 11452-3, IEEE 1309 und EN 61000-4-20.
TEMZ 5236	Symmetrical Strip line 0.96 x 0.6 x 0.6 m, BNC-connectors, including 4:1 transformer and 50 W dummy load.

Other EMC/EMI/EMF special products available on request. Extra list for dummy lamps according to CISPR 15 / EN 55015 available. Extra list for calibrations available.