

Ver. 2022.

Siwon International Co., Ltd

Siwon International Co., Ltd give a balance & stability

EMC / EMI CATALOG



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목 차

- 인사말
- maturo
- Schwarzbeck-Mess Elektronik
- FCC
- MVG (Satimo)
- SCHLODER
- MTS systemtechnik
- IGOS-MN
- WEMC
- CE-SYS Products

— 회사개요



회사명: (주) 시원 인터내셔널

대표 : 호 상호

개업 : 2011년 12월

주소 : 경기도 용인시 기흥구 흥덕중앙로 120,
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인사말

폐사는 EMC, RF 장비 전문 업체로 안테나 마스트, 턴테이블, 계측기를 주요 품목으로 취급하고 있습니다. 또한, 여러 해외 제조사들과 협력하여 다양한 EMC, RF 관련 측정, 시험장비를 국내에 공급하고 있습니다.

특히 Maturo GmbH 社の 대표제품인 Antenna Mast와 Turntable은 그 편리성과 간결함으로 고객들에게 인정 받아, 매년 한국에서 높은 시장 점유율 가지고 있습니다.

또한 특수 제품으로 자동차용 Chassis Dynamometer는 세계 시장뿐 아니라 한국에서도 가격 대비 성능 경쟁력에서 최고의 우위를 점하고 있습니다.

저희(주)시원인터내셔널은 풍부한 경험과 지식을 바탕으로 고객에게 최대의 서비스를 제공하는데 최선의 노력을 다하고 있습니다.

인류의 문화와 문명을 상징하는 미래의 전자 산업 계통은 생활과 밀접한 관련이 있습니다. 그러나 오늘날에는 이 전자 산업 계통이 얼마나 인간에게 해가 되지 않게 하느냐가 관건이 되었습니다.

저희 (주)시원 인터내셔널은 인간과 같이하는 EMC 기술력을 한국시장에 뿌리 내리는 데 자부심과 사명감을 가지고 임할 것이며, 이러한 기술력은 우리의 삶과 문화의 한 부분으로 남을 것입니다.

인간과 환경이 하나되는 풍요로운 세상을 만들기 위해 저희 (주)시원 인터내셔널이 언제나 중심에 서서 노력하는 회사가 되겠습니다.

감사합니다.

(주) 시원 인터내셔널 대표이사 호 상호

Siwon International Co., Ltd. is an expert company for EMC and RF equipment which mainly deals with antenna mast, turntable, test and measurement equipment. We supply various kinds of EMC and RF test and measurement equipment in cooperation with lots of overseas manufacturers.

We are especially acknowledged by customers for the convenience and the beasiness to use of antenna mast and turntable and it contributed to our high market share in Korea every year.

Our special system for automotive, Chassis Dynamometer, enjoys dominant market in Korea as well as worldwide based on the competitiveness which provides high performance for its price.

Siwon International Co., Ltd. does our utmost to offer the best service to customers at the basis of profound experience and in-depth knowledge. As the symbol of the culture and civilization of humankind, EMC industry is closely related to our livelihood. However, today's key issue in EMC field is how to make equipment less harmful to human beings.

Siwon International Co., Ltd. will take pride and sense of duty in spreading EMC technology going with human beings in Korea market and such technology will be left as one of our lives and cultures.

Siwon International Co., Ltd. will always do our best to stand at the center of making the rich world in harmonization of human beings and environment.

Thank you.

Kevin Ho / President

인사말

고객 여러분 안녕하십니까?

폐사에서 제공하는 EMI/EMC Test & RF Measurement Total Solution 을 귀사에 소개할 수 있게 되어 큰 영광입니다.

최근 들어 각종 전자파 환경 (방사, 노출, 유해간섭, 잡음, 불연속성, 전자파흡수율 등)에 대한 관심이 커지면서 전 세계적으로 전자파 규제가 심화되고 있습니다.

이미 각 나라에서는 국제 표준 규정 또는 각국의 법령에 의거하여 각종 전자파에 대한 규제를 시행하고 있는데 (주) 시원인터내셔널에서는 이러한 국제 표준에 적합하게 측정할 수 있는 다양한 전자파 관련 시험장비 및 측정 장비들을 해외 업체들과 협력하여 국내 고객에게 공급하고 있습니다.

폐사에서 제공하는 품목은 다음과 같습니다.

EMI/EMS 관련 설비 (안테나 마스트, 턴테이블 등), 전계 강도 측정시스템, ESD측정기, 전/자계 측정 프로브, 각종 안테나 류 등

전파연구소, 인천중기청, 한국화학융합시험연구원, 자동차 부품 연구원, 삼성전자, LG전자, 현대자동차 등의 많은 연구소 및 기업에서 (주) 시원인터내셔널이 공급 설치한 제품들이 사용되고 있습니다.

폐사는 이제까지 축적해온 기술과 경험을 바탕으로 EMI/EMS 시험은 물론 각종 RF 관련 시스템 엔지니어링 서비스를 제공하며, 시스템의 공급, 설치 및 사후 관리까지 철저한 고객 관리를 통한 고객 만족 서비스를 제공합니다.

이제 귀사에서 필요한 시스템이 있으시다면 (주) 시원인터내셔널과 상담해 주십시오. 유익하고 풍부한 내용으로 귀사에게 적합한 시스템 제안을 드릴 것입니다. 감사합니다.

(주) 시원 인터내셔널 대표이사 호 상호

주요 연혁

2005년 11월	세모코퍼레이션 설립 무역협회회원 등록 ARA Shwarzbeck FCC	Supply 승인 Supply 승인 Supply 승인
2006년 01월	Siepel	Supply 승인
2006년 06월	Satimo	Agent 인증
2007년 03월	MTS Maturo	Supply 승인 Agent 인증
2008년 05월	Schloeder	Agent 승인
2009년 01월	ETS · LINDGREN	Supply 승인
2010년 10월	Aglient	Channel partner 인증
2011년 12월	(주) 시원인터내셔널 법인사업자 변경 무역협회회원 등록	
2012년 11월	Seibersdorf Laboratories	Channel partner 인증
2013년 04월	카두로드 (Car to Road) 저파환경 측정시스템 프로그램 개발 및 한국저작권위원회 등록	
2013년 07월	Aaronia AG	Supply 승인
2015년 06월	안테나 스탠드 특허 출원 및 특허 등록	
2016년 04월	도전 연결 모듈, 전자파 적합성 시험용 메인테이블 어셈블리 및 전자파 적합성 시험 장치 특허 출원	
2017년 08월	IGOS-MN	Agent 승인



Product range

- Antenna Masts and Stands
- Turntable any size and load
- Cable guide rails
- Dynamometers for the automotive industry
- Customer-specific positioning systems
- Open Area Test Sites

Controller



MCU

Model no.	Description
MCU	Control unit for multiple axis of motion (4 Device control)
SCU	Control unit for single axis of motion
HHCU	Handheld control unit with touch screen

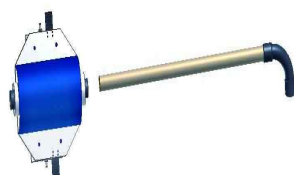
Accessories

Model no.	Description
FOC 5	Lengths: 5 m
FOC 10	Lengths: 10 m
FOC 15	Lengths: 15 m
FOC 20	Lengths: 20 m
FOC 25	Lengths: 25 m
FOC 30	Lengths: 30 m
FOF	One pair (2 pieces) F-SMA connectors

Other specifications available upon request

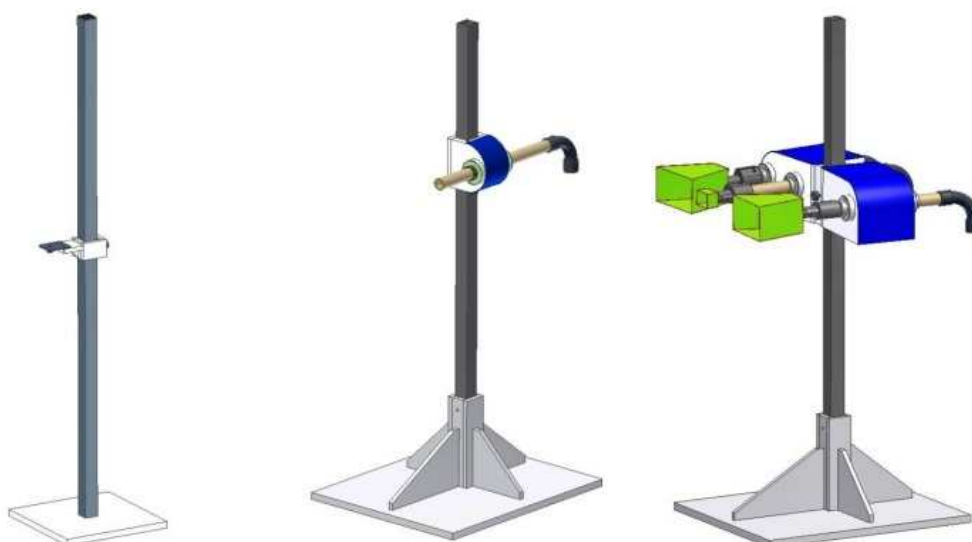
Model no.	Description
CAM 4.0-P	Compact Antenna Mast Scan electrical: 1 - 4 m, pneumatic polarization Max. antenna weight: 8 kg
CAM 4.0-P-12kg	Compact Antenna Mast Scan electrical: 1 - 4 m, pneumatic polarization Max. antenna weight: 12 kg
AM 4.0	Antenna Mast Scan electrical: 1 - 4 m, electrical polarization Max. antenna weight : 10 kg
AM 4.0-O	AM 4.0 & OAK-M
AM 6.0	Antenna Mast Scan electrical: 1 - 6 m, electrical polarization Max. antenna weight : 10 kg
DAM 4.0	Dual Antenna Mast Scan electrical: 1 - 4 m, electrical polarization Max. antenna weight: 20 kg
DAM 6.0	Dual Antenna Mast Scan electrical: 1 - 6 m, electrical polarization Max. antenna weight: 20 kg
DAM 4.0-T	Dual Antenna Mast Scan electrical: 1 - 4 m, electrical polarization Max. antenna weight: 15 kg Tilt angle: 0° - 45°
OAK-M	Open area kit for masts Including guy wires, anchoring pins, protection cover and outdoor design

Other specifications available upon request



Model no.	Description
MAS 2.0	Manual Antenna Stand Height adjustment: 0.7 - 2.0 m, Manual polarization Max. antenna weight: 6 kg
MAS 4.0-C	Manual Antenna Stand Height adjustment: 0.7 - 4.0 m with hand crank Manual polarization Max. antenna weight: 6 kg
PAS 2.0	Pneumatic Antenna Stand Adjustable height: 0.7 - 2.0 m, Pneumatic polarization Max. antenna weight: 6 kg
EAS 1.5	Electric Antenna Stand Fixed antenna height: 1.5 m, Electrical polarization Max. antenna weight: 6 kg

Other specifications available upon request



Antenna Adapter for Antenna Masts and stands



Model no.	Description	Remark
AA 01	All common models (rod diameter 22,5 mm)	Schwarzbeck
AA 02	VULP 9118 D-G	
AA 03	BBHA 9170	
AA 04	BBHA 9120 D	
AA 01	CBL 6111, CBL 6112, CBL 6141	Schaffner-Chase
AA 05	CBL 6121	
AA 06	CBL 6140, CBL 6144	
AA 07	HF 906, HL 023, HL 040, HL 223, HL 562, HK 116	Rohde \$ Schwarz
AA 09	HL 025	
AA19	HL 050	
AA 22	HE 526, HE 527	
AA 10	3104 C / 3121 C	EMCO
AA 11	3108	
AA 12	3109	
AA 13	3110	
AA 14	3115	
AA 15	3116	
AA 20	3117	
AA 16	3142	
AA 17	3143	
AA 30	AT 4004	Amplifier Research
AA 31	AT 4510	
AA 32	AT 4520	
AA 33	AT 4540	
AA 34	AT 4550	Frankonia
AC 5	Counter weight for long, heavy antennas; Weight : 5 kg	Accessories

Other specifications available upon request

Linear Positioning Systems



Model no.	Description
CGR 5.4	Cable Guide Rail, Moving range : 5,4m (without clamp) Total measurement range : 6.0m (with clamp) Track height : 0.8 m
FPP 2.3/1.5	Field Probe Positioner Electrical vertical scan : 0.8 - 2.3 m Electrical horizontal scan: 1.5 m Max. load: 3 kg
FPP 2.3-M	Field Probe Positioner Manual vertical scan : 0.2 - 2.3 m Max. load: 3 kg

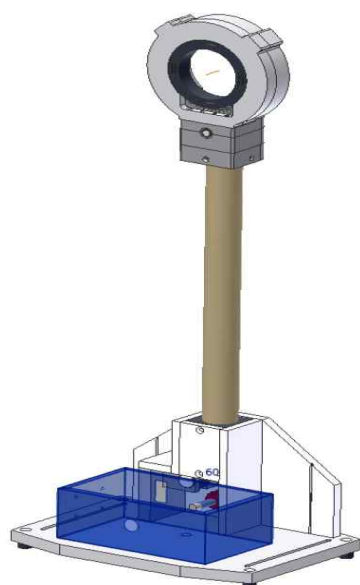
Other specifications available upon request



Model no.	Description
TD1.5-2kg	For radiation measurements on EUTs, especially mobile phones, with horizontal turning axis Height of rotation axis above chamber floor: 1.5 m Max. Load capability: 2 kg

Model no.	Description
TD1.5-10kg	For radiation measurements on EUTs, especially mobile phones, mounted on a phantom head or laptops, with horizontal turning axis Height of rotation axis above chamber floor: 1.5 m Max. Load capability: 10 kg

Other specifications available upon request



Low Profile Turntables



Model no.	Description
	Free-standing turntable for anechoic chambers
TT 0.8 PF	TT 0.8 PF Diameter: 0.8 m Height: 180 mm Load: 100 kg

Model no.	Description
	Free-standing turntable for anechoic chambers
TT 1.2 WF	Diameter: 1.2 m Height: 142 mm Load: 300 kg
TT 1.5 WF	Diameter: 1.5 m Height: 160 mm Load: 300 kg
TT 2.0 WF	Diameter: 2.0 m Height: 170 mm Load: 500 kg

Model no.	Description
	Installation in intermediate floor of fully anechoic chambers
TT 1.2 WI	Diameter: 1.2 m Height: 166 mm Load: 500 kg
TT 1.5 WI	Diameter: 1.5 m Height: 166 mm Load: 500 kg
TT 2.0 WI	Diameter: 2.0 m Height: 166 mm Load: 500 kg

Other specifications available upon request

Low Profile Turntables



Model no.	Description Flush mounted installations in semi anechoic electromagnetic absorption chambers or in open area test sites
TT 1.2 SI	Diameter: 1.2 m Height: 130 mm Load: 500 kg
TT 1.5 SI	Diameter: 1.5 m Height: 130 mm Load: 500 kg
TT 2.0 SI	Diameter: 2.0 m Height: 150 mm Load: 1000 kg

Other specifications available upon request

TT 1.2/1.5/2.0 WF



TT 1.2WF-TD



TT 3.0-1t-structure



TT 4.0-4t



TT 2.0-2t



TT 1.2/1.5/2.0 SI



TT 0.8 PF



TT 1.2/1.5/2.0 WI



TT 5.0-2t-structure



Schwarzbeck-Mess Elektronik

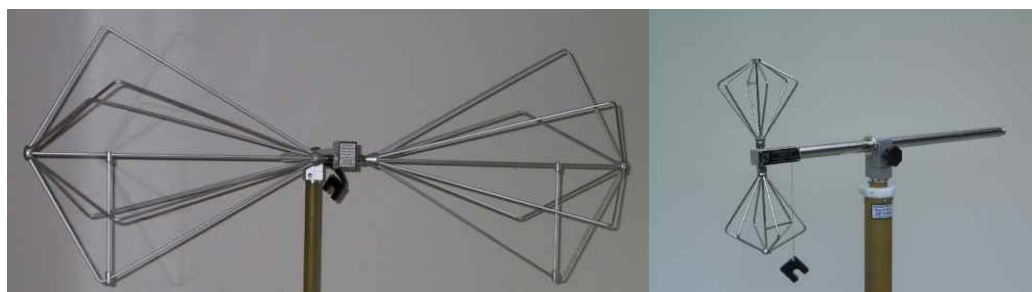


Product Range

- Antennas
- Antenna Masts / Tripods / Adapters
- CDN 0.15 - 230 MHz, IEC 1000-4-6, EN 61000-4-6
- EMI-Receivers
- Helmholtz Coils
- Absorbing clamps / braid current blocking Clamps
- LISN Line Impedance Stabilization Networks
- Near field probes
- Pulse Generators
- Striplines
- Accessories
- Dummy Lamps according to CISPR 15 EN55015

Antennas

Type	Antenna Holders / Baluns
VHA 9103 B	Holder / Balun without telescopic dipole elements (for use with Biconical BBA 9106, BBAL 9136, BBAK 9137, BBVK 9138, FBAB 9177) [Foto of VHA 9103 B with BBA 9106]
HFBA 9122	HF-VHF Broadband balun / holder (0.1) 0.15 - 300 (500) MHz especially to measure very high field strength, biconical elements BBAK, BBVU 9135 or BBUK 9139 required
VHBA 9123	Antenna Holder / Balun for Bicon. Broad Band Antenna (e.g. BBA 9106, BBAL 9136, BBAK 9137), 50 / 200 W, (better antenna factor below 50 MHz, also EMV application 100 W
VHBB 9124	Antenna Holder / Balun for Bicon. Broad Band Antenna (e.g. BBA 9106, BBAL 9136, BBAK 9137, BBVK 9138, FBAB 9177, FBAL 9178), 50 / 200 W,
VHBC 9133	Antenna holder / balun 50:200 W, 1 kW, for biconical or collapsible elements (BBA 9106, BBAL 9136, BBFA, Triangle, FBAA, FBAB, FBAL 9178)
VHBD 9134	High power antenna holder / balun 50:200 W, 2.5 kW, 20-200 MHz for biconical or collapsible elements BBFA 9146, N-connector
VHBD 9134 OPT 7/16	Option: 7/16 connector
UBAA 9114	Broadband Balun/Holder 4:1, 30-1000 MHz, 5 W, low loss, BBVU 9135, BBUK 9139, BAOC 9216 or BBOC 9217 elem. Required
UBAA 9115	Broadband Balun/Holder 4:1, 30-1000 MHz, 5 W, extremely high symmetry, BBVU 9135, BBUK 9139, BAOC 9216 or BBOC 9217 elem. Required
Type	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
Type	Collapsible or open Conical elements
BBFA 9146	Large collapsible aluminium Elements with extensions up to 4 m
FBAB 9177	Collapsible Biconical Elements 30 – 300 MHz (instead of BBA 9106)
FBAL 9178	Large Collapsible Biconical Elements 20 – 200 MHz (instead of BBAL 9136)
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



Antennas

Type	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
VULP 9118 A	Log.-Per. Antenna, aluminum tubing, 1 kW power, 180 -1500 (2000) MHz
VULP 9118 B	Log.-Per. Antenna, aluminum tubing, 1 kW power, 160-1500 (2000) MHz
VULP 9118 C	Log.-Per. Antenna, aluminum tubing, 1 kW power, 100-1400 (2000) MHz
VULP 9118 D	Log.-Per. Antenna, aluminum tubing, 1 kW power, (80) 95 –1500 (1800) MHz
VULP 9118 E	Log.-Per. Antenna, aluminum tubing, 1 kW power, 75 (50)-1500 MHz. A new version with extended frequency range up to 3 GHz is available on request.
VULP 9118 E special	Nearly identical gain as VULP 9118 E but with reduced width. Special = folded longest elements.
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.
VULP 9118 H Option 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
ESLP 9145	UHF – EHF Log. – Per. Antenna, (0.7) 1- 18 (20) GHz, N-connector. A new low attenuation cover allows measurements with radome. For older models with S/N<184 check manual!
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
Type	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
STLP 9128 C Opt 7/16	Option: with 7/16-connector 3 kW
STLP 9128 C 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 E	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, alum. Tubing, high power, (65) 80 -1500 (3000) MHz, N-connector 1 kW
STLP 9128 E 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
STLP 9128 E special Option 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 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

Antennas

Type	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. [Correction with triangle extensions]
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.
Type	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.
SBA 9113	Small Biconical Microwave Antenna 0.5 – 3 GHz, 20 W. miniversion on request
SBA 9112	Small Biconical Microwave Antenna (1) 3 – 18 GHz, 10 W including transport case. mini version on request
UBA 9116	Biconical UHF broad band antenna (160) 300 -1000 (1100) MHz
VUBA 9117	Biconical VHF-UHF broad band antenna (30) 150 -1000 MHz
Type	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, LE = 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, LE = 140, 114, 90, 72, 60, 48 mm
Type	Precision Dipoles
VHAP	VHF Precision Dipole 30-300 MHz, 2 sets of telescopic elements (mostly required in pairs)
UHAP	UHF Precision Dipole 300-1000 MHz (VHAP & UHAP mostly required in pairs)
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
Type	FM and TV bands antenna
FT 01 S	Additional elements for enhanced FM broadcast directivity
FT 01 UKW	FM broadcast and TV bands antenna, detachable, 47 – 860 (1000) MHz, high directivity

Antennas

Type	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
BBHA 9120 F Opt 7/16	Option: with 7/16-connector 3 kW
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 Horn Antenna, 4 – 8 GHz, 7/16-connector, 20 dBi
BBHX 9120 E	Dual polarized Broad-Band Horn Antenna 0.4 – 10 GHz, N-connectors
Type	Standard Gain Antennas
SGA...	Standard Gain Antennas, typ. 9.8 dBi gain, 60° pattern, accurately calibrated (2 half-wave dipoles in front of a l x l reflector, design frequencies 440-2000 MHz SGA 900 SGA 1800
Type	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.
VAMP 9243 Opt. GP	Option: Aluminium-Groundplane, 0.6 x 0.6 m
VAMP 9243 Opt. ACS 410	Option: Charger ACS 410
Vamp 9243 Opt. VT	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 µV/m - 65 V/m, const. antenna factor typ. 46 dB/m high symmetry, built in rechargeable battery
EFS 9218 Opt. ACS 410	Option: Automatic charger ACS 410 for EFS 9218
EFS 9218 Opt. VV	Option: built in broadband preamplifier. Antenna factor 20 dB/m, disengageable.
EFS 9219	Active antenna holder, high sensitivity (1 µV/m ... 3 V/m), 9 kHz-30 MHz, BBUK 9139 biconical elements required.
EFS 9219 Opt. Rohr	Option: Isolating tube with braid chokes for EFS 9219
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.
IABF 9216 Opt. Haube	Option: Weather protection cover
Type	Passive Antennas
VPMP 9242	Vertical passive rod antenna, 10 - 40 MHz, possible rods: FBAB 9177, FBAL 9178, BBA 9106, BBAL 9136 (rod must be ordered extra)
VPMP 9242 Opt. GP	Option: Aluminium groundplane 0.6 x 0.6 m

Antennas

Type	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 9150, 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 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
Type	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
Type	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
HXYZ 9170 Socket	Socket and mounting equipment for large loop HXYZ 9170
HXYZ 9170 Umschaltbox	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)
Type	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.
FMZB 1516 Opt. Akku	Option: Built-in rechargeable battery pack and automatic charger
HMDA 1545	Handheld magnetic field meter, LCD, acoustic fieldstrength indication with tone generator, 9 kHz- 80 (80) MHz, 200µA/m ... 1 A/m, 6 x Type AA NiMH.
HMDA 1545 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. [Shorter version] available on request.
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)

Antennas

Type	Active Loop Antennas / Magnetic Field Probes
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 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 / Analyzer
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
HMG 1621 Opt. Sonde 5	Option: Probe 5 Hz – 10 kHz for HMG 1621
HMG 1621 Opt. Sonde 50	Option: Probe 50 Hz – 10 kHz for HMG 1621

Antenna Masts / Tripods / Adapters

Type	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.
AM 9104 Opt. Rollen	Option: Caster Wheels and Brakes for zinc-plated / stainless steel 3-leg mast foot
AM 9104 Opt. GFK-Fuß	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.
AM9144 Opt. GFK-Fuß	Option: Non metallic (glass-epoxy) mast foot for AM 9144
AM9144 Opt. Rollen	Option: Caster Wheels and Brakes for zinc-plated / stainless steel 3-leg mast foot
AM9144 Opt. Kurz	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 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
KG 9201	Mast Adapter (swivel, 90° vertical/horizontal polarisation for AM 9144), for VULP 9118 D,E,F,G only
AA 9205	Orthogonal Swivel Adapter for positioning in 3 perpendicular directions. Application: determination of the magnitude of the fieldstrength
SWHA 9204	Swivel handle for light antennas



CDN 0.15 - 230 MHz, IEC 1000-4-6 EN 61000-4-6

Type	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 M2	CDN Mains 2 leads, 16 A, L + N or L1 + L2, 240 V
L 801 M2/10kHz	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 W to 50 W Adaptor 0 - 1000 MHz, 1 W, N-female, 4 mm female
CR100 A	150 W to 50 W Adaptor for CDN, 0 - 500 MHz, 4 W, BNC female, 4 mm female for CDN



EMI Receivers

Type	EMI-Receivers
FCKL 1528	EMI-Receiver acc. CISPR 16, 9 kHz - 30 MHz, 3 Detectors: Quasipeak, Peak, Average, Attenuator with 1 dB steps, Protected Input, Automatic Calibration w. built-in Pulse Generator
FCKL 1528 Opt IEEE 488	Option: IEEE-488 Interface for use with Schwarzbeck-Software
FCKL 1528 Opt Mitl.	Option: Built-In Tracking Generator, Output Level 120 dB μ V.
FCKL 1528 Opt. Softw.	Option: Schwarzbeck-Software FCKL for EMI-Measurement
FCVU 1534	EMI-Receiver acc. CISPR 16, 20 - 1050 MHz, 3 Detectors: Quasipeak, Peak, Average, Attenuator with 1 dB steps, Protected Input, Automatic Calibration w. built-in Pulse Generator
FCVU 1534 Opt. IEEE488	Option: IEEE-488 Interface for use with Schwarzbeck-Software
FCVU 1534 Opt. Mitl.	Option: Built-In Tracking Generator, Output Level 120 dB μ V P.D.
FCVU 1534 Opt. Softw.	Option: Schwarzbeck-Software FCVU for EMI-Measurement
FCVU 1534 Opt. VV	Option: Coaxial powered preamplifier 10 dB
FCLE 1535	EMI-Receiver acc. CISPR 16-1, 9 kHz – 3.25 GHz, 3 Detectors: Quasipeak, Peak, Average, Protected Input, Automatic Calibration w. built-in Pulse Generator
FCLE 1535 Opt. IEEE488	Option: IEEE-488 Interface for use with Schwarzbeck-Software
FCLE 1535 Opt. Softw.	Option: Schwarzbeck-Software FCLE for EMI-Measurement
INES PCI 488	IEEE 488 16-bit PCI-Slot PC Plug-In Card (BKAB 488 necessary)
INES PCMCIA 488	IEEE 488 16-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

Absorbing Clamps / Braid current blocking clamps

Type	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
FT14X15	Surface current blocking filter 100 - 1000 MHz
FT33x15	Surface current blocking filter 10 - 1000 MHz
FT34x15	Surface current blocking filter 1 - 1000 MHz
FT 32	Surface current blocking filter 0.01 - 1000 MHz
FTC40X15C	Absorbing Clamp 10 - 1000 MHz
FTC40X15E	Absorbing Clamp 1 - 1000 MHz, CISPR 22
FTC 101	Surface current blocking filter clamp (in combination w. EM 101)

Helmholtz Coils

Type	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 MIL-STD 461E
Verstärker	Amplifier to drive HHS 5204-36 up to 100 kHz
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
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 for DuT size 45 mm.
FESP 5132	Radiating loop diam. 12 cm, 20 turns, 15 Hz to 100 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
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



LISN Line Impedance Stabilization Networks

Type	LISN Line Impedance Stabilisation Networks
NSLK 8126	V-LISN, 9 kHz - 30 MHz, 50 μ H + 5 Ohm 50 Ohm 4 x 16/25 A, 2 x 16 A Schuko and 4 x 16 A CEKON socket, Artificial Hand.
NSLK 8126 Opt. Rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
NSLK 8126 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 μ H + 5 Ohm 50 Ohm, 2 x 16 A Schuko socket, Artificial Hand.
NSLK 8127 Opt.rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
NSLK 8127 Opt.rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
NSLK 8127 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 μ H + 5 Ohm 50 Ohm 4 x 32/50 A, 2 x 16 A Schuko and 4 x 32 A CEKON socket, Artificial Hand.
NSLK 8128 Opt.rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers

Helmholtz Coils

Type	LISN Line Impedance Stabilisation Networks
CEKON	CEKON CEE three- phase current connector plug jack 16 A and 32 A.
SCHUKO	Adapter Schuko plug, receptacle for Great Britain, Singapore, Hong Kong, Switzerland, Australia, New Zealand, USA, Canada, Japan, Taiwan.
NNLK 8121	V-LISN, 9 kHz - 30 MHz, 50 μ H + 5 Ohm 50 Ohm, 4 x 50 (100) A, wing terminals (For continuously 100 A add the options cont. high current and cooling fans!)
NNLK 8121 Opt.rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
NNLK 8121 Opt.rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
NNLK 8121 Opt. Hochstrom	Option: cont. high current, additional terminals to bypass the 250 μ H chokes, provides less voltage drop and less heating.
NNLK 8121 Opt.400/700V	Option: 400/700 V Voltage to Neutral / Voltage between lines
NNLK 8121 Opt. Lüfter	Option: Cooling Fans
NNLK 8129	V-LISN, (9) 150 kHz – 30 MHz, 50 μ H 50 Ohm, 4 x 200 (300) A, wing terminals, low voltage drop.
NNLK 8129 Opt.rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
NNLK 8129 Opt.rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
NNLK 8129 Opt.400/700V	Option: 400/700 V Voltage to Neutral / Voltage between lines
NNLK 8129 Opt.Lüfter	Option: Cooling Fans
NNLK 8130	V-LISN, (9) 150 kHz – 30 MHz, 50 μ H 50 Ohm, 4 x 400 (500) A, wing terminals, low voltage drop, cooling fans.
NNLK 8130 Opt.rcfm	Option rcfm: Remote Control without power supply for Schwarzbeck receivers
NNLK 8130 Opt.rcps	Option rcps: Remote Control with built in Power Supply for others than Schwarzbeck receivers
NNLK 8130 Opt.400/700V	Option: 400/700 V Voltage to Neutral / Voltage between lines
Type	Single path LISN (Automotive) CISPR 25 / ISO 7637
NNBM 8125	LISN 5 μ H 50 Ohm, 70 (100) A, single path, with switchable 50 Ohm termination and 10 dB attenuator.
NNBM 8126 A	LISN 5 μ H 50 Ohm, 70 (100) A, DC 500 V, AC 50 Hz 250 V, AC 400 Hz 110 V.
NNBM 8126 A Opt. DO-160	Calibration up to 400 MHz according to DO-160
NNBM 8126 D	LISN 5 μ H 50 Ohm, 200 A single path.
NNBM 8126 F	LISN 5 μ H 50 Ohm, 400 A single path.
NNBM 8125 BCI	LISN 5 μ H 50 Ohm, 70 (100) A single path, no switchable attenuator, switchable 50 Ohm 50 Watt load for bulk-current injection test.
NNBM 8125 BCI Opt. 200A	Option: 200 A
Type	Two path LISN (Automotive) CISPR 25 / ISO 7637
NNBM 8126 G	LISN 5 μ H 50 Ohm, 70 (100) A, two paths, two BNC-connectors
Type	LISN according to MIL 461 MIL 462
NNBL 8225	V-LISN (9) 150 kHz - 100 MHz, 50 μ H + 5 Ohm 50 Ohm, 20 A, 50 Hz AC 250 V, single path, Mil. Std. 461/462, CISPR 16
NNBL 8226	V-LISN (9) 150 kHz - 100 MHz, 50 μ H + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 250 V, single path, Mil. Std. 461/462, CISPR 16
NNBL 8226-HV	V-LISN (9) 150 kHz - 100 MHz, 50 μ H + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 800 V, single path, Mil. Std. 461/462, CISPR 16
NNBL 8226-2	V-LISN (9) 150 kHz - 100 MHz, 50 μ H + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 250 V, two path, Mil. Std. 461/462, CISPR 16

Helmholtz Coils

Type	Universal LISN
NDTV 8160	Universal Delta-, T-, V-LISN
Type	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 Adapter	Adapters e.g. wired for ISDN, 1000 BaseT or for self wiring available on request
Type	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

Near Field Probes

Type	Near field probes
FS-SET 7100	Nearfield Probe Set including HFSL, HFSLH, 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)
HFSLH 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, HFSLH, EFS
ACDC 7110	AC/DC Adapter for DC-Separator EW 7110



Pulse Generators

Type	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 dB μ V). Pulse Repetition Frequency 0.1 Hz – 200 Hz (20 kHz), Output Level adjustable in 1 dB steps
IGUU 2916 Opt. IEEE 488	Option: IEEE-488 Interface for IGUU 2916
IGUU 2916 Opt. Softw.	Option: Software for IGUU 2916 and Receivers under Test (INES card required)
IGUU 2916 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 dB μ V (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

Striplines

Type	Striplines
TEMZ 5231	50 Ohm Stripline 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
TEMZ 5231 Opt. Abschl	Option: 50 Ohm termination, N-connector ,50 Watt, for TEMZ 5231
TEMZ 5232	90 Ohm Stripline 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 5236	Symmetrical Stripline 0.96 x 0.6 x 0.6 m, BNC-connectors, including 4:1 transformer and 50 W dummy load.

Accessories

Type	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
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
VTSD 9561	Limiter + 20 dB Attenuation, 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

Pulse Generators

Type	Accessories
BBV 9740	Broadband Coaxial Preamplifier 20 dB, 9 kHz - 4 GHz with power supply.
BBV 9741	Broadband Coaxial Preamplifier with ESD protection. Gain 20 dB, 9 kHz – 1 (4) GHz with power supply.
BBV 9718	Broadband Coaxial Preamplifier typ. 33 dB, 1 - 18 GHz with fixture for 22 mm
BBV 9718 Opt. PS	Option: Power supply for BBV 9718
BBV 9718 Opt Akku	Option: Rechargeable battery pack for BBV 9718
BBV 9718 Opt. ALCS 2-24A	Battery charger ALCS 2-24A for rechargeable battery pack
Type	Coaxial Cables
AK 9513	50 Ohm Coax. Cable with N plugs, individual length, usable up to 3 (5) GHz. 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. 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. 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. Indiv. Cal. possible if cable longer than 1 m.
Type	Fixed Attenuators
DGA 9550 N	10 dB fixed attenuation, 0 – 1000 MHz, N – connectors male / female
DGA 9560 B	10 dB fixed attenuation, 0 – 1000 MHz, BNC male / female
Type	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.
Type	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
VUFM 1672	LCD-Display Unit VUFM 1672 for E - Field-Meter VUFM 1670 with optical link and IEEE 488 / GPIB – Interface.

Dummy Lamps according to CISPR 15 EN55015

Type	Single capped twin tube dummy lamps with socket G23
LN G23	Socket LN G23 according to figure 4 e CISPR 15, socket length 47 mm, tube sets of the RS G23 / xxx series required.
RS G23 / 85	Tube set for LN G23, max. length of lamp acc. to IEC 85 mm, length of tube 38 mm, Tube diameter 13 mm, 5 W.

Pulse Generators

Type	single capped twin tube dummy lamps with socket G23
RS G23 / 115	Tube set for LN G23, max. length of lamp acc. to IEC 115 mm, length of tube 68 mm, Tube diameter 13 mm, 7 W.
RS G23 / 145	Tube set for LN G23, max. length of lamp acc. to IEC 145 mm, length of tube 98 mm, Tube diameter 13 mm, 9 W.
RS G23 / 215	Tube set for LN G23, max. length of lamp acc. to IEC 215 mm, length of tube 168 mm, Tube diameter 13 mm, 11 W.
Type	single capped quadruple tube dummy lamps with socket G24
LN G24	Socket LN G24 according to figure 4 f CISPR 15, socket length 45 mm, tube sets of the RS G24 / xxx series required.
RS G24 / 95	Tube set for LN G24, max. length of lamp acc. to IEC 95 mm, length of tube 50 mm, Tube diameter 13 mm, 10 W.
RS G24 / 130	Tube set for LN G24, max. length of lamp acc. to IEC 130 mm, length of tube 85 mm, Tube diameter 13 mm, 13 W.
RS G24 / 150	Tube set for LN G24, max. length of lamp acc. to IEC 150 mm, length of tube 105 mm, Tube diameter 13 mm, 18 W.
RS G24 / 170	Tube set for LN G24, max. length of lamp acc. to IEC 170 mm, length of tube 125 mm, Tube diameter 13 mm, 26 W.
Type	single capped twin tube dummy lamps with socket 2G11
LN 2G11	Socket LN 2G11 according to figure 4 d CISPR 15, socket length 67 mm, tube sets of the RS 2G11 / xxx series required.
RS 2G11 / 225	Tube set for LN 2G11, max. length of lamp acc. to IEC 225 mm, length of tube 158 mm, Tube diameter 15 mm, 18 W.
RS 2G11 / 320	Tube set for LN 2G11, max. length of lamp acc. to IEC 320 mm, length of tube 253 mm, Tube diameter 15 mm, 24 W.
RS 2G11 / 415	Tube set for LN 2G11, max. length of lamp acc. to IEC 415 mm, length of tube 348 mm, Tube diameter 15 mm, 36 W.
RS 2G11 / 535	Tube set for LN 2G11, max. length of lamp acc. to IEC 535 mm, length of tube 468 mm, Tube diameter 15 mm, 55 W.
Type	Linear dummy lamps 15 mm diameter with socket G5
LN G5	Pair of sockets LN G5 according to figure 4 c CISPR 15, socket length 20 mm each, tube sets of the RS G5 / xxx series required.
RS G5 / 136	Tube set for LN G5, max. length of lamp acc. to IEC 136 mm, length of tube 96 mm, Tube diameter 15 mm, 4 W.
RS G5 / 212	Tube set for LN G5, max. length of lamp acc. to IEC 212 mm, length of tube 172 mm, Tube diameter 15 mm, 6 W.
RS G5 / 288	Tube set for LN G5, max. length of lamp acc. to IEC 288 mm, length of tube 248 mm, Tube diameter 15 mm, 8 W.
RS G5 / 517	Tube set for LN G5, max. length of lamp acc. to IEC 517 mm, length of tube 477 mm, Tube diameter 15 mm, 13 W.
RS G5 / 549	Tube set for LN G5, max. length of lamp acc. to IEC 549 mm, length of tube 509 mm, Tube diameter 15 mm, 14 W.
RS G5 / 849	Tube set for LN G5, max. length of lamp acc. to IEC 849 mm, length of tube 809 mm, Tube diameter 15 mm, 21 W.
RS G5 / 1449	Tube set for LN G5, max. length of lamp acc. to IEC 1449 mm, length of tube 1409 mm, Tube diameter 15 mm, 35 W.

Pulse Generators

Type	Linear dummy lamps 20 mm diameter with socket G13 / 25
LN G13 / 25	Pair of sockets LN G13 according to figure 4 a CISPR 15, socket length 75 mm each, tube sets of the RS G13 / 25 / xxx series required.
RS G13 / 25 / 438	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 438 mm, length of tube 288 mm, Tube diameter 20 mm, 15 W.
RS G13 / 25 / 590	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 590 mm, length of tube 440 mm, Tube diameter 20 mm, 18 W.
RS G13 / 25 / 720	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 720 mm, length of tube 570 mm, Tube diameter 20 mm, 16 W.
RS G13 / 25 / 895	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 895 mm, length of tube 745 mm, Tube diameter 20 mm, 30 W.
RS G13 / 25 / 970	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 970 mm, length of tube 820 mm, Tube diameter 20 mm, 36 W.
RS G13 / 25 / 1047	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1047 mm, length of tube 897 mm, Tube diameter 20 mm, 38 W.
RS G13 / 25 / 1200	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 20 mm, 36 W.
RS G13 / 25 / 1500	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 20 mm, 58 W.
Type	Linear dummy lamps 28 mm diameter with socket G13 / 38
LN G13 / 38	Pair of sockets LN G13 according to figure 4 a CISPR 15, socket length 75 mm each, tube sets of the RS G13 / 38 / xxx series required.
RS G13 / 38 / 590	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 590 mm, length of tube 440 mm, Tube diameter 28 mm, 20 W.
RS G13 / 38 / 970	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 970 mm, length of tube 820 mm, Tube diameter 28 mm, 25 W.
RS G13 / 38 / 1200	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 28 mm, 115 W.
RS G13 / 38 / 1500	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 28 mm, 140 W.
RS G13 / 38 / 1800	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1800 mm, length of tube 1650 mm, Tube diameter 28 mm, 160 W.
RS G13 / 38 / 2400	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 2400 mm, length of tube 2250 mm, Tube diameter 28 mm, 125 W.
Type	single capped twin tube dummy lamps with socket 2G7
LN 2G7	Socket LN 2G7, socket length 47 mm, tube sets of the RS 2G7 / xxx series required.
RS 2G7 / 85	Tube set for LN 2G7, max. length of lamp acc. to IEC 85 mm, length of tube 38 mm, Tube diameter 13 mm, 5 W.
RS 2G7 / 115	Tube set for LN 2G7, max. length of lamp acc. to IEC 115 mm, length of tube 68 mm, Tube diameter 13 mm, 7 W.
RS 2G7 / 145	Tube set for LN 2G7, max. length of lamp acc. to IEC 145 mm, length of tube 98 mm, Tube diameter 13 mm, 9 W.
RS 2G7 / 215	Tube set for LN 2G7, max. length of lamp acc. to IEC 215 mm, length of tube 168 mm, Tube diameter 13 mm, 11 W.

Pulse Generators

Type	U-shape tube dummy lamps with socket 2G13
LN 2G13	Socket LN 2G13, socket length 75 mm, tube sets of the RS 2G13 / xxx series required.
RS 2G13 / 310	Tube set for LN 2G13, max. length of lamp acc. to IEC 310 mm, length of tube 235 mm, Tube diameter 20 mm, 20 W.
RS 2G13 / 607	Tube set for LN 2G13, max. length of lamp acc. to IEC 607 mm, length of tube 532 mm, Tube diameter 20 mm, 40 W.
RS 2G13 / 765	Tube set for LN 2G13, max. length of lamp acc. to IEC 765 mm, length of tube 690 mm, Tube diameter 20 mm, 65 W.
	Circular dummy lamps
LN G10q / 28 / 216	Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 216 mm, Tube diameter 20 mm, 22 W.
LN G10q / 32 / 311	Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 311 mm, Tube diameter 28 mm, 32 W.
LN G10q / 32 / 413	Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 413 mm, Tube diameter 28 mm, 40 W.
Type	single pin linear dummy lamps with socket Fa6
LN Fa6	Pair of sockets LN Fa6, socket length 75 mm each, tube sets of the RS Fa6 / xxx series required.
RS Fa6 / 1200	Tube set for LN Fa6, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 28 mm, 32 W.
RS Fa6 / 1500	Tube set for LN Fa6, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 28 mm, 50 W.
Type	related equipment
Conical Cover	Test fixture for energy saving lamps with E27 socket according to figure 7 b CISPR 15
Conical Cover Option E14	Additional adapter E27-E14 to insert E14 lamps into the conical cover

FCC – Fischer Custom Communications



Product Ranges

- Tem Cells
- Absorbing Clamps
- EM Injection Clamps
- Monitor Current Probes
- Injection Probes
- LISNs
- Coupling Decoupling Networks
- Automotive EMC-Broadband Arritical Network
- EN55103 Audio Test
- EMP Simulator
- CISPR 22

TEM CELLS



Specifications	FCC-TEM-JM1	FCC-TEM-JM2	FCC-TEM-JM3
Frequency range	DC - 1,200 MHz	DC - 1,600 Mhz	DC-2,000 MHz
Maximum EUT dimensions (cm)	6 x 6 x1	6 x 6 x1	6 x 6 x 1
Maximum VSWR	1.2:1	1.2:1	1.25:1
RF connector	N	N	N
Maximum input power	500 watts	500 watts	500 watts
EUT port dimensions (cm)	9.1 x 9.1	9.1 x 9.1	9.1 x 9.1
Dimensions (cm)	15.2 x 9.9 x 33.8	15.2 x 9.9 x 33.8	15.2 x 9.9 x 33.8

Larger TEM cells are available for EUT dimensions up to 80cm x 60cm x 30cm.



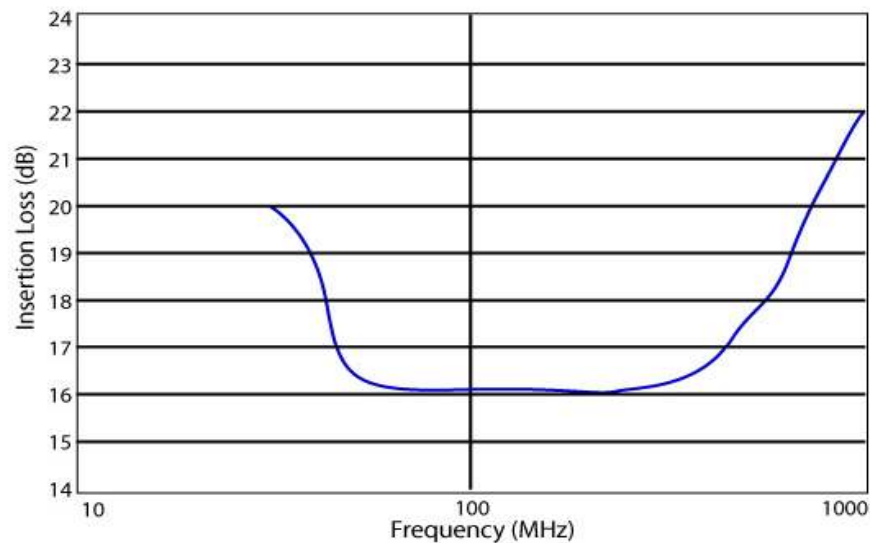
Dual TEM Cell

ABSORBING CLAMP

Absorbing Clamp

Figure 2 - Typical Calibration Curve

A typical calibration curve is shown below. The maximum diameter of the application power cable that can be measured is 27 mm. A BNC coaxial connector is attached to the output of the ferrite transformer.



Model F-201, 30 mm Absorbing Clamps

(aperture opens)

The absorbing clamp method of measurement is accepted by CISPR as a standard method of measuring the interference power levels on cables connected to electronic devices. Measurement can be made from 30 MHz to 1 GHz.



EM INJECTION CLAMPS FOR IEC 10004-6

Specifications for Models: F-2031-23mm & F-2031-32mm

Specification	F-2031-23mm	F-2031-32mm
Input Power Rating	100 watts CW for 15 minutes	125 watts CW for 30 minutes
- 10KHz to 100 MHz:	100 watts CW for 10 minutes	100 watts CW for 30 minutes
- 100 MHz to 230 MHz:	50 watts CW for 10 minutes	100 watts for 15 minutes
- 230 MHz to 1GHz:		
Pulse Mode:	Transients of 3 nanosecond rise times and pulse widths of 100 nanoseconds can be coupled into cables up to 5 KV	
Directivity:	>10dB above 20 MHz	>10 dB above 20 MHz
Coupling Aperture:		
- Length	23 mm	32 mm
- Width	610 mm	610 mm
- Height including handle	75 mm	105 mm
- RF disturbance connector	N	N



MONITER CURRENT PROBES

PHYSICAL DIMENSIONS (mm) MAXIMUM PRIMARY CURRENT (AMPERES)

Model	Drawing Number	A I.D.	B O.D.	C H _t	Z _t W ¹	dB W ¹	Connector	DC-60 Hz	400 Hz	RF (CW)	Pulse ²	Frequency
F - 10	1	32	94	64	0.25	-12	N	350	350	100	100	10 Hz - 2 MHz
F - 10 - 1	1	32	94	64	0.03	-30	N	100	50	25	500	10 Hz - 2 MHz
F - 10A	1	67	142	53	0.25	-12	N	350	350	100	100	10 Hz - 2 MHz
F - 10A-1	1	67	142	53	0.03	-30	N	100	50	25	500	10 Hz - 2 MHz
F - 12	1	32	94	64	0.32	-10	N	350	350	100	100	10 Hz - 3 MHz
F - 14	1	32	94	64	0.12	-18	N	400	400	50	500	10 Hz - 500 kHz
F - 14 - 1	1	32	94	64	0.02 3	-33	N	400	400	25	500	10 Hz - 500 kHz
F - 14 - C	1	32	98	38	0.03	-30	N	100	50	10	100	10 Hz - 2 MHz
F - 14A	1	67	142	53	0.12	-18.5	N	400	400	50	500	10 Hz - 500 kHz
F - 14A - 1	1	67	142	53	0.03	-30.5	N	400	400	25	500	10 Hz - 500 kHz
F - 16	1	32	94	64	4	12	N	400	400	50	300	10 Hz - 70 MHz
F - 16 - 1	1	32	94	64	0.5	-6	N	400	400	3	300	10 Hz - 70 MHz
F - 16A	1	67	142	53	4	12	N	800	400	50	300	10 Hz - 70 MHz
F - 16A - 1	1	67	142	53	0.5	-6	N	800	400	3	300	10 Hz - 70 MHz
F - 16M	1	32	98	38	0.5	-6	N	100	100	2	50	100 Hz - 50 MHz
F - 33 - 1	1	32	71	19	5	14	BNC*	100	100	10	50	10 kHz - 250 MHz
F - 33 - 2	1	32	71	19	1	0	BNC*	100	100	2	50	1 kHz - 250 MHz
F - 33 - 3	1	32	71	19	4	12	BNC*	100	100	10	50	1 kHz - 200 MHz
F - 33 - 4					1	0	BNC*	100	100	2	50	1 kHz - 100 MHz
F - 33 - 5	3A	20	51	13	1.3	2.3	SMA	25	25	10	50	10 kHz - 140 MHz
F - 33 - 6	1	3	19	19	0.8	-2	SMA	5	5	1	10	1 kHz - 200 MHz
F - 35	1	32	98	38	1	0	N	350	200	3	100	100 Hz - 100 MHz
F - 35A	1	32	98	38	1	0	N	350	200	3	100	100 Hz - 100 MHz
F - 35A-FW	?	32	71	19	1	0	BNC*	350	400	2	100	10 Hz - 50 MHz
F - 35 - 1	1	32	98	38	0.15	-16.5	N	350	100	6	500	10 kHz - 100 MHz

MONITER CURRENT PROBES

PHYSICAL DIMENSIONS (mm) MAXIMUM PRIMARY CURRENT (AMPERES)

Model	Drawing Number	A I.D.	B O.D.	C H _t	Z _t W ¹	dB W ¹	Conn ector	DC- 60 Hz	400 Hz	RF (CW)	Pulse ²	Frequency
F - 40	1	32	98	38	1	0	N	350	350	100	200	100 Hz - 20 MHz
F - 40 -5	1	67	153	102	0.1	-20	N	1000	1000	100	5,000	10 Hz - 50 MHz
F - 42	1	32	98	38	6	15.5	N	350	350	50	100	1 kHz - 100 MHz
F - 43	?	32	98	38	12	4	N	100	100	50	100	100 Hz - 100 MHz
F - 50	1	32	71	19	9	19	BNC*	300	300	20	50	100 kHz - 500 MHz
F - 51	1	32	98	38	10	20	N	350	350	50	100	10 kHz - 500 MHz
F - 52	1	40	117	38	10	20	N	350	350	50	100	10 kHz - 500 MHz
F - 55	1	32	98	38	1	0	N	350	350	3	100	10 kHz - 500 MHz
F - 55A	1	32	98	38	0.1	-20	N	350	350	10	100	1 kHz - 500 MHz
F - 61	1	32	71	19	16	24	BNC*	200	200	20	50	1 MHz - 1 GHz
F - 62	1	32	71	19	13	22	BNC*	200	200	20	50	10 MHz - 1 GHz
F - 65	1	32	98	38	1	0	N	350	350	3	100	100 kHz - 1 GHz
F - 65A	1	32	98	38	.1	-20	N	350	350	10	100	10 kHz - 1 GHz
F - 70	1	70	125	38	1	0	N	350	350	3	100	1 kHz - 100 MHz
F - 71	1	70	125	38	8	18	N	200	200	25	50	10 kHz - 500 MHz
F - 72	1	67	142	53	5	14	N	350	350	100	100	100 Hz - 100 MHz
F - 72 -1	1	67	142	53	0.15	-16	N	350	150	12	500	100 Hz - 100 MHz
F - 72 -2	1	67	142	53	0.005	-46	N	200	70	60	5,000	100 Hz - 100 MHz
F - 73	1	67	142	53	2	6	N	350	350	200	200	10 Hz - 30 MHz
F - 75	1	70	125	38	1	0	N	350	350	3	100	10 kHz - 500 MHz
F - 80	1	127	197	41	5	14	N	350	350	100	100	1 kHz - 100 MHz
F - 80 - 1	1	127	197	41	1	0	N	350	350	2	100	1 kHz - 100 MHz
F - 81	1	127	197	41	1	0	N	350	350	100	100	100 Hz - 10 MHz
F - 2000	1	13	37	17	16	24	SMA	100	100	10	50	10 MHz - 3 GHz

MONITER CURRENT PROBES

PHYSICAL DIMENSIONS (mm)

MAXIMUM PRIMARY CURRENT (AMPERES)

Model	Drawin g No.	A	B	C	D	E	Z _t W ¹	dB W ¹	Conn ector	DC- 60 Hz	400H z	RF (CW)	Pulse ²	Frequency
F-32-9B	4	6	152	46	28	121	3.2	10	SMA	100	100	10	100	100 kHz - 300Mhz

*Type N and SMA optional

Clip-on Miniature Probes

PHYSICAL DIMENSIONS (mm)

MAXIMUM PRIMARY CURRENT (AMPERES)

Model	Drawin g	A	B	C	D	Z _t W ¹	dB W ¹	Conn ector	DC- 60 Hz	400 Hz	RF (CW)	Pulse ²	Frequency
F-36-1	5	5	54	13	19	4	12	SMA	20	20	1	10	100 kHz - 200MHz
F-36-2	5	5	54	13	19	1	0	SMA	20	20	1	10	1 kHz - 200MHz
F-36-4	5	5	54	13	19	22	27	SMA	20	20	1	10	1 kHz - 1GHz

Skin Current Probes

PHYSICAL DIMENSIONS (mm)

MAXIMUM PRIMARY CURRENT (AMPERES)

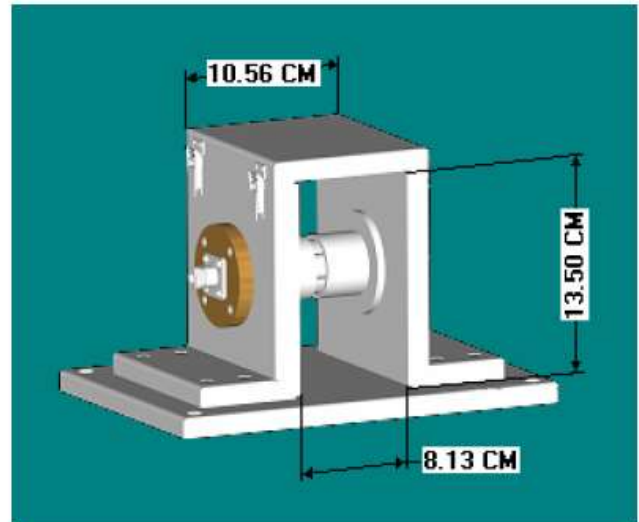
Model	Drawing Number	A	B	C	Z _t W ¹	dB W ¹	Connecto r	DC-60 Hz	400H z	RF (CW)	Puls e ²	Frequency
F-90	2	89	51	38	0.08	-22	N	5000	300	10	200	10 kHz – 1MHz
F-91	2	89	51	38	1.4	3	N	5000	300	20	200	1 MHz – 100 MHz
F-92	2	76	44	38	0.9	-1	BNC	5000	300	10	200	10MHz – 400MHz
F-96	2	19	13	10	1.26	2	SMA	10	10	10	100	1 MHz – 450 MHz
F-97	2	10	13	8	.045	-7	SMA	10	10	10	100	10MHz– 1.5 GHz

1. Probes calibrated with 50W ± j0 W Load Impedance

2. Depends upon the pulse width and pulse repetition rate

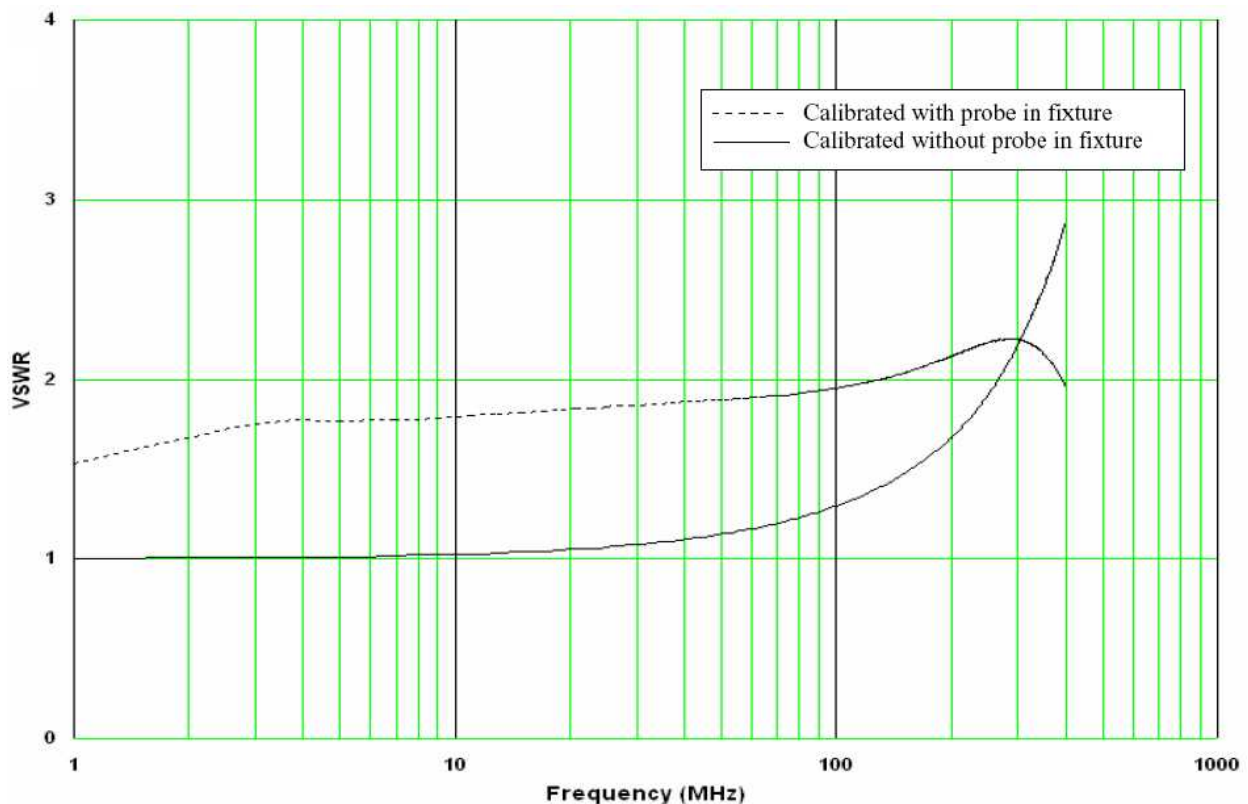
BULK CURRENT INJECTION PROBES

Injection Probe calibration fixtures are a part of the test equipment required by most of the Bulk current Injection Test Procedure Specifications. The FCC-BCICF-1 Calibration Fixture allows the user to quickly and easily calibrate the injection probe prior to performing the compliance testing. It exceeds DO-160, Section 20 VSWR fixture requirements for stand-alone injection probe calibration fixture. Due to variable circuit impedances or resonances in cables and cable looms, the calibration fixture is used to establish the forward power into the injection probe needed to develop the specified currents in the system under test.



The FCC-BCICF-1 offers a distinct advantages and benefits.

- Excellent VSWR over a broad bandwidth: $<2:1$ over the frequency range of 10kHz – 400 MHz when the probe is in fixture.
- Accommodates a wide variety of Bulk Current Injection Probes that operate between 10 kHz – 400 MHz..



LISN

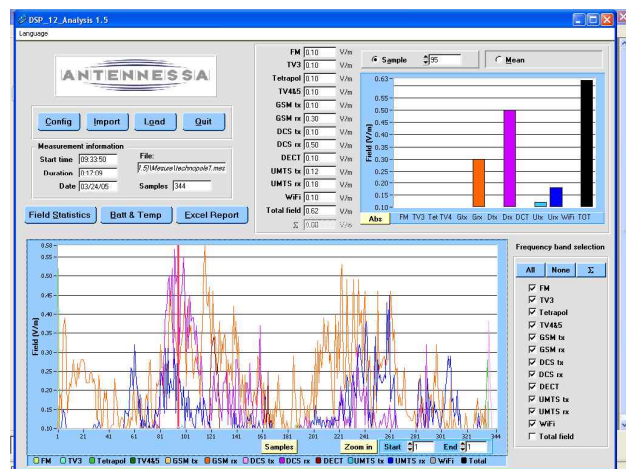
Model	Maximum Frequency	Network Inductance	Maximum Current	*Standard Maximum Voltage	Standard Power Source Frequency	# of Power Conductors	Chassis Type	Power Connector Options	Test Type
FCC-LISN-5-50-1	0.1-100 MHz	50W/5 μ H	50 A	240	DC - 60Hz	1	#1	2	01, 02 & 04
FCC-LISN-5-50-1-DO-160	0.1-400 MHz	50W/5 μ H	50 A	240	DC - 60Hz	1	#1	2	06 & 07
FCC-LISN-5-50-1-T	0.1-1,000 MHz	50W/5 μ H	50 A	240	DC - 60Hz	1	#1	19	8
FCC-LISN-5-100-1	0.1-65 MHz	50W/5 μ H	100 A	240	DC - 60Hz	1	#2	2	01, 02, 04, 07
FCC-LISN-50-50-1	0.15-100MHz	50W/50 μ H	50 A	240	DC - 60Hz	1	#2	2	01, 02, 05
FCC-LISN-50-100-1	0.15-30 MHz	50W/50 μ H	100 A	240	DC - 60Hz	1	#4	2	01, 02, 05
FCC-LISN-50-200-1	0.15-30 MHz	50W/50 μ H	200 A	240	DC - 60HZ	1	#5	2	01, 02, 05
FCC-LISN-57-50-1	0.01-10MHz	50W/57 μ H	50 A	240	DC - 60HZ	1	#2	2	4
FCC-LISN-50-25-2	0.15-100MHz	50 Ω /50 μ H	25 A	240	DC - 60HZ	2	#3	01-10	01,02 & 05
FCC-LISN-50-32-2	0.15-100MHz	50 Ω /50 μ H	32 A	240	DC - 60HZ	2	#3	01 - 10, 12	01,02 & 05
FCC-LISN-50-50-2	0.15-100MHz	50 Ω /50 μ H	50 A	240	DC - 60HZ	2	#4	2	01 & 02

LISN

Model	Maximum Frequency	Network Inductance	Maximum Current	*Standard Maximum Voltage	Power Source Frequency	# of Power Conductors	Chassis Type	Power Connector Options	Test Type
FCC-LISN-50-32-4	0.15-100MHz	50Ω/50μH	32 A	240	DC - 60HZ	4	#4	01,13,15,16	01, 02 & 05
FCC-LISN-50-50-4	0.15-100MHz	50Ω/50μH	50 A	240	DC - 60HZ	4	#4	02, 17	01, 02 & 05
FCC-LISN-50-100-4	0.15-30MHz	50Ω/50μH	100 A	240	DC - 60HZ	4	#6	02, 18	01, 02 & 05
FCC-LISN-50/250-25-2	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	25 A	240	DC - 60HZ	2	#4	01 - 10	01 & 09
FCC-LISN-50/250-32-2	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	32 A	240	DC - 60HZ	2	#4	01, 10, 12	01 & 09
FCC-LISN-50/250-32-4	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	32 A	240	DC - 60HZ	4	#5	01, 13,15,16	01 & 09
FCC-LISN-50/250-50-2	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	50 A	240	DC - 60HZ	2	#4	2	01 & 09
FCC-LISN-50/250-50-4	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	50 A	240	DC - 60HZ	4	#5	02, 17	01 & 09
FCC-LISN-50/250-100-2	0.009-30MHz	50Ω/50μH + 5Ω 50/250 μH	100 A	240	DC - 60HZ	2	#7	2	01 & 09

CDN Selection Guide

Specifications	C Series	S Series	M Series	AF Series	T Series
EUT/AE Port					
AC Voltage	<350 V	<350 V	<480 line to line	<350 V	<350 V
DC Voltage	<600 V	<600 V	<600 V	<600 V	<600 V
Current Rating	1.0 amp	3.0 amp	<600 V 16 amp to 300 amp*	3.0 amp	3.0 amp
I/O Connectors	BNC	S2 to S50 Centronics, D Sub min	Multi Contact Safety Socket	Multi Contact Safety Socket Audio Socket	Multi Contact Safety Socket
Common Mode Impedance at EUT Connector					
150kHz to 26kHz	150±20 ½	150±20 ½	150±20 ½	150±20 ½	150±20 ½
150kHz to 26kHz	150±60/-45 ½	150±60/-45 ½	150±60/-45 ½	150±60/-45 ½	150±60/-45 ½
26kHz to 80kHz	150±60/-45 ½	150±60/-45 ½	150±60/-45 ½	150±60/-45 ½	150±60/-45 ½
80kHz to 230kHz			150±60/-45 ½	150±60/-45 ½	
Disturbance Coupling Circuit					
Frequency Range	150kHz to 230MHz	150kHz to 230MHz	150kHz to 230MHz	150kHz to 230MHz	150kHz to 230MHz
Connector	50 ½ BNC	50 ½ BNC	50 ½ BNC	50 ½ BNC	50 ½ BNC
RF Voltage Level	<40 V	<40 V	<40 V	<40 V	<40 V
Voltage Attenuation generator/EUT	10 dB ± 1 dB	10 dB +1 dB/-3 dB	10 dB +1 dB/-3 dB	10 dB +1 dB/-3 dB	10 dB +1 dB/-3 dB
Insertion Loss EUT/AE	<1 dB at 230MHz	<3 dB up to 20 kHz <10 dB up to 1 MHz <20 dB up to 10 MHz	<0.1 dB up to 400 Hz <8 dB at 10 kHz <45 dB at 150 kHz	<0.5 dB DC to 20 kHz <30 dB at 150 kHz <20 dB at 230 MHz	<8 dB at 150 kHz <20 dB at 1 MHz <30 dB at 2 MHz
Coupling Factor	0 dB ± 1 dB	0 dB + dB/-3 dB	0 dB + dB/-3 dB	0 dB + dB/-3 dB	0 dB + dB/-3 dB
Decoupling Attenuation Generator/AE	>50 dB up to 100 MHz >20 dB at 230MHz	>50 dB up to 20 MHz >20 dB at 230MHz	>50 dB up to 20 MHz >20 dB at 230MHz	>50 dB up to 30 MHz >20 dB at 230MHz	Unbalanced Attenuation Generator/EUT >70 dB at 150 kHz >60 dB at 1 MHz >40 dB at 10 MHz >35 dB above 20 MHz



Satimo has developed a range of flexible systems:

- To certify handsets
- To measure and monitor personal exposure to EMF
- To measure exposure to base station antennas
- To analyze, negotiate and communicate on BSA emissions

SELECTIVE RF FIELD STRENGTH METERS

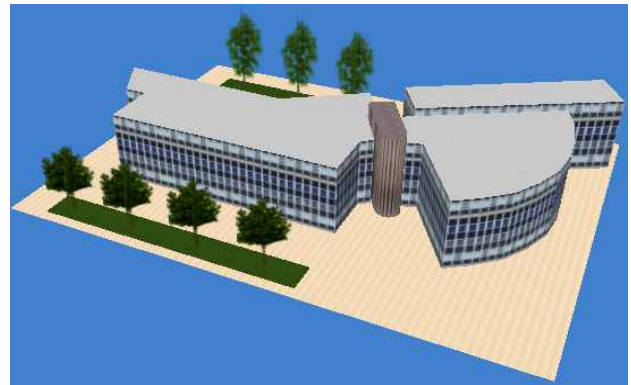
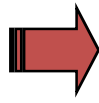
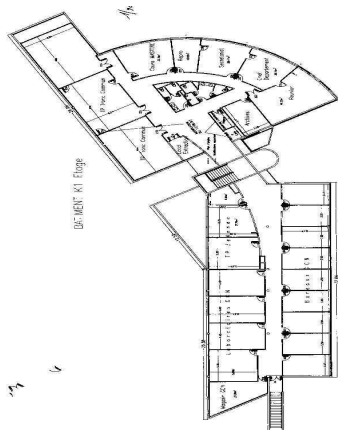


- ❑ INSITE free: with mapping and monitoring modules
- ❑ INSITE box: Remotely operated monitoring station
- ❑ INSITE station kit: a robust system for autonomous measurements

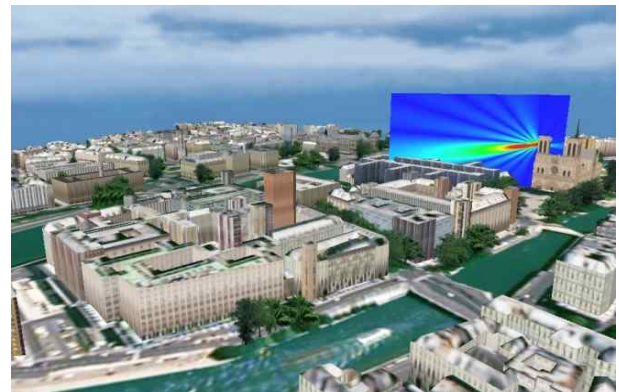
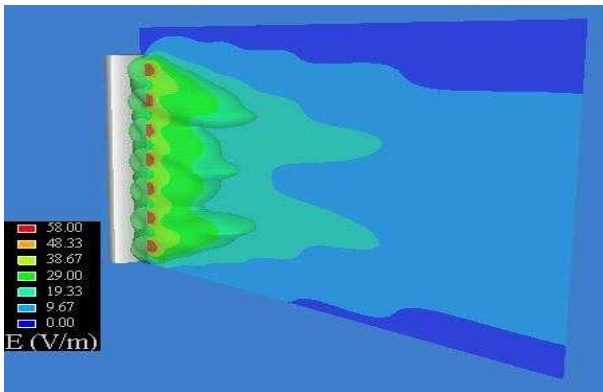
EMF SIMULATION SOFTWARE



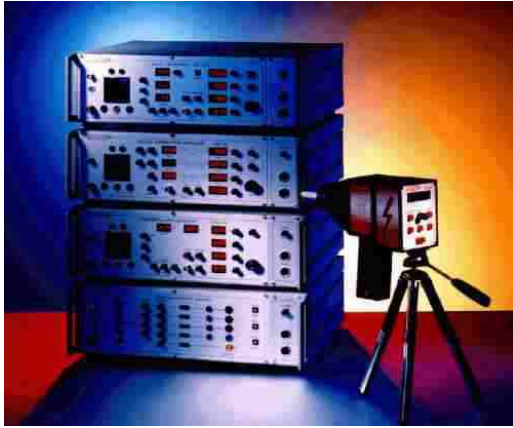
EMF VISUAL



For prediction, analysis, negotiation and communication



- Define antennas characteristics
- Vizualize results in 3D environment



주거, 상업 및 경공업 지역에서 사용되고 있는 전기 및 전자 장치에 대한 내성요구조건은 IEC 국제표준은 물론 여러 기관에서 규제되고 있습니다.

SCHLODER GmbH사는 독일을 시작으로 전 세계에 정전기 방전 내성 시험, 전기적 과도현상 내성 시험, 서지 내성 시험, 전자파 전도 내성 시험, 전원 주파수 자계 내성 시험, 전압강화 및 순시정전 내성 시험 등에 필요한 시험, 측정 계측기를 공급하고 있습니다.



■ SESD200, SESD30000 = EN61000-4-2	정전기 방전 내성 시험기
■ SFT400, SFT4000 = EN61000-4-4	전기적 빠른 과도현상 내성 시험기
■ SFT400/200 = EN61000-4-2/4	전기적 내성 시험기
■ CWG500, CWG520, CWG523,524,526 = EN61000-4-5	서지 내성 시험기
■ CDG6000, CDG6000-75 = EN61000-4-6	전자파 전도 내성 시험기
■ MGA8000, MGA8700, 8750 = IEC61000-4-8	전원 주파수 자계 내성 시험기
■ VIS700 = IEC61000-4-11	전압강하 및 순시 정전 내성 시험기
■ HFA3000 = IEC61000-3-2	Harmonic Analyzer

EMC - Test standard

Products	Description	Suitable to test according the standard
SESD 200	ESD-Simulator 16,5 kV	IEC / EN 61000- 4- 2
SESD 30000	ESD-Simulator 30 kV	IEC / EN 61000- 4- 2 and? ISO TR 10 605
SESD 2910	ESD test system - Determination of resistance of electric detonators and relays to ESD	EN 13763-13 and VG 95 378- 11 and ISO TR 10 605
SFT 1400	Burst-Generator 125 kHz	IEC / EN 61000- 4- 4
SFT 1420	Burst-Generator 2 MHz	IEC / EN 61000- 4- 4
CWG 1500	Surge / Hybrid Generator	IEC / EN 61000- 4- 5
CDG 6000	Generator for conducted RF	IEC / EN 61000- 4- 6
MGA 1030	Magnetic field generator and? analyzer	EN 55103, IEC 61000- 4- 8, ISO and MIL-STD
VIS 1700	Voltage interruption simulator	IEC / EN 61000- 4- 11 and? 61000- 4- 29
CWG 520-526	Coupling networks for Burst + Surge, 3-ph./1ph.	IEC / EN 61000- 4- 4 and 61000- 4-5

SESD 200 : ESD-Simulator 16,5 kV



- Air discharge up to 16.500 volt
- Contact discharge up to 9.000 volt
- Impedance 150 pF / 330 Ohm
- Contact discharge with contact control
- Using with mains and accumulators
- Very convenient to use
- Optical remote control optional
- Option " ESD verification set 4 GHz "

SESD 30000 : ESD-Simulator 30 kV



- Contact discharge up to 30.000 volt
- Air discharge up to 30.000 volt
- Modular units
special plugs in Capacity and Resistor units
- Application according: IEC, ISO, MIL or customer specification
- Optional: "high speed" ESD < 400 ps
- Impedance 150 pF / 330 Ohm or other
- Self test function - saving costs for re calibration
- Option " ESD verification set 4 GHz "

SESD 2910 : ESD test system



To test electro explosive devices

- Test voltage up to 30 kV
- According EN 13763-13, VG 95378-11, ISO or customer specified
- Capacity modules from 150 pF up to 5000 pF
- Resistor modules starting with 0,5 ohm up to 5000 ohm
- Remote control

SFT 1400 : Burst-Generator 125 kHz



- Frequency up to 125 kHz
- max. 500 pulses per packet
- Continuous burst up to 2,5 kHz
- Special function: "Real-Burst", "Sweep", "IFM" u. a.
- 1 phase coupling network 16 A include
- Memory - function

SFT 1420 : Burst-Generator 2 MHz



- Frequency up to 2000 kHz
- max. 2000 pulses per packet
- Continuous burst up to 15 kHz
- Special function: "Real-Burst", "Sweep", "IFM" u. a.
- 1 phase coupling network 16 A include
- Memory - function

CWG 1500 : Surge / Hybrid Generator



- Voltage 200 V to 4400 V
Waveshape 1,2 / 50 μ s
- Current 100 A to 2200 A
Waveshape 8 / 20 μ s
- Measurement of voltage and current during the discharging
- 1phase coupling network 16 A include
- Memory - function

CDG 6000 : Generator for conducted RF



- Power amplifier internal 15 W or 75 W
- Signal generator 100 kHz to 266 MHz
- HF voltmeter 100 kHz to 266 MHz, +37 dBm to - 40 dBm
- Complete with software and cable
- Extensive additions deliverable - like CDN's, coupling clamp, calibration kits, etc.

MGA 1030 : Magnetic field generator and? analyzer



- According product standard EN 55103-1/2, IEC 61000-4-8, ISO and MIL-STD
- Generation and measurement of magnetic fields from DC to 250 kHz
- Field strengths up to 1000 A/m
- Radiating / loop sensors acc. EN 55103-1/2 and MIL-STD-461 available
- Extensive additions deliverable - like calibration kits, Helmholtz coil, etc

VIS 1700 : Voltage interruption simulator



- AC - interruption up to 280 V
- DC - interruption up to 360 V
- According IEC / EN 61000-4-11 and IEC / EN 61000-4-29
- Automatically ramp function
- Inrush current measurement

CWG 520-526 : Coupling networks for Burst + Surge, 3-ph./1ph.



- for burst testing acc. IEC 61000-4-4 and surge testing acc. IEC 61000-4-5
- 3 phase using nominal current 4 x 16 A, 32 A, 60 A
- Nominal voltage 230 / 400 V AC other voltages on demand
- Coupling network for surge coupling to data line, ? 2x4A and 2x10A



● Product range

- Attenuator Units
- Multicouplers
- Filter Units
- Air Interface Emul
Units
- Ventilation Racks
- Matrices
- V-LISN
- RF Components
- Mechanics
- EMC / Antennas
- RF Connectors

Attenuator Unit

Products	Model	Frequency range	Max. attenuation	Input power max.	Control
	PAH-4000x4/LT2x2	800 MHz - 2900 MHz	93 dB	+26 dBm	RS-232 and IEEE488
	PAH-4000/93-8	800 MHz - 3000 MHz (up to 8 GHz with reduced specifications)	93 dB	+26 dBm	RS-232, IEEE488 and 3x7-segment display with up/down buttons
	PAH-4000/93-2	200 MHz - 4000 MHz	93 dB	+26 dBm	RS-232, IEEE488, LAN and manual control (touch panel)
	PAH-8000x3/LT4	400 MHz - 2900 MHz	93 dB	+24 dBm	RS-232, IEEE488, LAN and manual control (touch panel)
	ELTG-4000/55-8	500 MHz - 4000 MHz	65 dB	2W	LAN, RS-232 and manual control (touch panel)
	Customer specified				RS-232, IEEE488, LAN, manual control or other

Terminations

Description	Series	Frequency range	Impedance Ω	Input power max.
Coaxial Terminations / Coaxial Short Circuits	AW/KK	DC - 1 GHz	50 / 75	1 W CW
Feed Through Terminations	DA / DAS	DC - 500 MHz	50 / 75	
High Power Terminations	LAW	DC - 2 GHz	50	10 / 60 W CW

Attenuators / Fixed Attenuators

Products	Description	Series	Frequency range	Attenuation max.	Impedance Ω	Input power max.
	Fixed Attenuators	DGL	DC - 1 GHz	30 dB	50 / 75	2 W CW
	Fixed Attenuators	DGL18	DC - 18 GHz	30 dB	50	2 W CW
	Semiconductor Attenuators	PAH	200 MHz - 6000 MHz (200 MHz - 8000 MHz on request)	93,5 dB	50	+24 dBm
	High Power Attenuators	LDGL	DC - 2 GHz	20 dB	50	10 / 50 W CW
	Programmable Attenuators	PAST-PAS	DC - 2,5 GHz	63 dB	50 / 75	1,0 W CW (50 Ω) 0,5 W CW (75 Ω)
	Manual Adjustable Step Attenuators	AS	DC - 1 GHz	20 dB	50 / 75	2 W CW
	Variable Attenuators	DGV	DC - 1 GHz	20 dB	50 / 75	1 W CW


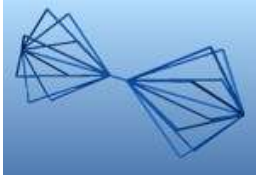
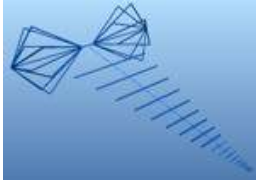
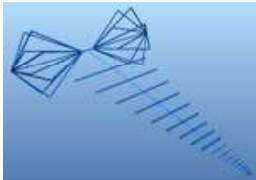
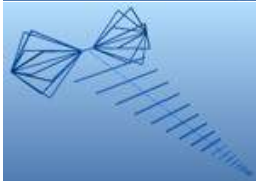
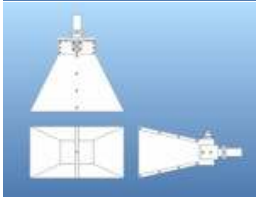


19" Plug-In Modules

Products	Series	Dimensions	Description
	EG	Height 1 / 2 / 3 / 4 / 5 / 6 HU Depth 150, 250, 350, 450, 550, 650 mm	An extremely stable and robust construction is reached by using thick extrusion type side-pieces (4mm). Profile slots in the side panels enable the user to mount various components sideways, too. The side pieces can be exchanged fast and simple.
	EGD	Height 2 / 3 / 4 / 5 / 6 HU Depth 250, 350, 450 mm	Also 19" plug-in modules with RF shielding. In spite of the proved slot and spring principle, it is now possible to remove the cover and the bottom from the front and back panel without dismantling, if the parts are worked over. Special drillings and millings on request.
	EB	Height 3 oder 6 HU Depth 245, 305, 425, 545 mm	19" module racks, which are holding highest mechanical stability. A speciality are the full length extruded side-pieces profiles. These general-purposed module racks are suitable to mount assemblies based on the standard card format to DIN 41494 part 1-5.



Accessories

Products	Series	Description
	GRS and GRA	Handles
	FP RP BP	19"- Front / back and dummy panels
	F TF	Part front panels 3 HU and 6 HU
	DB KF	Cover and bottom plates for 19"-plug-in module enclosure Card and cassette guide bars



EMC Antennas, 50 Ω

Products	Description	Model	Frequency range	Gain	Power handling
	EMC Wideband Antenna, logarithmical periodical	MTA-300-3000	300 MHz - 3000 MHz	8 dBi typ.	500 W CW (1000 W peak)
	EMC Wideband Antenna, biconical	MTA-20-300	20 MHz - 300 MHz	0 dBi typ.	100 W (200 W peak)
	EMC Wideband Antenna, hybrid	MTA-60-2000	60MHz - 2000 MHz (effective use 20 MHz - 2000 MHz)	8 dBi typ.	500 W CW (1000 W peak)
	EMC Wideband Antenna, hybrid	MTA-60-3000	60MHz - 3000 MHz (effective use 20 MHz - 3000 MHz)	8 dBi typ.	500 W CW (1000 W peak)
	EMC Wideband Antenna, hybrid	MTA-60-6000	60MHz - 6000 MHz (effective use 20 MHz - 6000 MHz)	8 dBi typ.	500 W CW (1000 W peak)
	Standard Gain Horn Antenna, wideband double ridged	MTA-SGH-1626	500 MHz - 2800 MHz	5 - 14 dBi	300 W
	Magnetical Loop, passive H field transmit loop	MTA-MLA-930	9 kHz - 30 MHz	-	5 W continuously, 100 W for short periods (with external dummy-load)
	Active Magnetical Loop, hand-guided	MTA-MLA-930A	9 kHz - 30 MHz	-	-

Antenna accessories

Products	Type	Model	Description
	Antenna tripod	MTA-ST-3-17	<p>Quick clamping system</p> <p>Tripod legs are made of carefully selected, straight fibered ash and pine wood and are plastic coated</p> <p>Snap Cap</p> <p>Carrying strap</p> <p>Min. effect. Height approx. 1,02 m</p> <p>Max. effect. Height approx. 1,69 m</p> <p>Retracted length approx. 1,10 m</p> <p>Threaded retaining screw 5/8"</p> <p>Weight approx. 7,60 kg</p> <p>Tripod heat, flat Ø 167 mm</p>
	Base plate for antenna tripod	MTA-SST-3	Ensures a reliable set-up of tripods on smooth floor

RF Connectors

Products	Series	Description
	Coaxial connectors	Connectors N, BNC, SMA, ...
	RG	Coaxial cable assemblies

SEIBERSDORF
LABORATORIES
FREQUENTLY ASKED SOLUTIONS



No.	Radiation protection measuring systems
1.	FOOD AND MATERIAL PROBE LMS-3
2.	DRINKING WATER MONITORING DWM-3
3.	RADIATION PROTECTION MEASURING INSTRUMENT SSM1

FOOD AND MATERIAL PROBE LMS3



Field of application

Our food and material probe LMS3 was designed for the quantification of radioactivity and identification of nuclides in various sample types.

Industrial users appreciate the user-friendliness of the device in combination with its suitability for complex measurement tasks.

Typical applications are: foodstuffs, juices, pet foods, dietary supplements, raw materials, waste water, sewage sludge, finished products, alloys, components, test specimens etc.

Technical data

- Marinelli-beaker measurement geometry (500 ml)
- detector: 2" x 2" NaI(Tl) scintillation detector
- minimum detectable activity concentration < 4 Bq Cs-137 in a measurement time of 1 h
- multi channel analyzer with 2000 channels resolution
- weight: ca. 33 kg
- size: (23 x 29 x 44) cm
- connection to the PC via USB 2.0

Easy handling

Our extensive experience in the laboratory working with gamma spectroscopy has enabled us to optimize this instrument's user-friendliness, facilitating easy handling of routine operations.

The software has been customized to efficiently manage complex measurement tasks.

The LMS-3 probe is designed so that no specialist knowledge of gamma spectroscopy is required to achieve reliable results in routine operations.

All parameters to control the instrument are set via USB connection and managed by the software.

DRINKING WATER MONITOR DWM3



Field of application

Our drinking water monitor DWM3 is a measuring system to surveil drinking water for radioactive contamination.

Additionally we offer supplementary expertise for the analysis and interpretation of the results.

The DWM3 is based on a highly sensitive scintillation detector for the gamma spectroscopic monitoring. Data are transferred automatically by LAN connection.

Technical data

- 55 mm lead shield for ambient radiation
- measuring volume: 34 l
- max. operating pressure: 5 bar (test pressure 6 bar)
- connections: 1/2" and 3/4"
- dimensions: 985 x 585 x 852 mm (wxdxh)
- weight: approx. 600 kg
- 63 x 160 mm (dxh) NaI(Tl) scintillation detector
- sensitivity: 0.5 Bq Cs-137 (measurement duration 1 h)
- LAN connection through Fast Ethernet interface
- automated alerts via email or SMS

Expert support

We offer various on-call service models up to guaranteed 24h/7d availability. Experts at Seibersdorf Laboratories are automatically notified in event of an alarm. Via remote maintenance, they can then access the spectra and immediately analyze them.

Conclusions can then be drawn about the cause and the countermeasures.

RADIATION PROTECTION MEASURING INSTRUMENT SSM1



Field of application

Our radiation protection measuring instrument SSM1 can be used universally : It is easy to operate, has a wide measuring range and a robust design. It facilitates dose and dose rate measurements from the range of natural background radiation up to very high exposures.

The SSM1 and its additional equipment offer a comprehensive system for all the essential measurement activities in practical radiation protection.

Technical data

- measuring range: 0.50 μ Sv/h bis 5 Sv/h
0.05 μ Sv bis 50 Sv
- battery life: 500 h
- humidity: 0 to 100%
- air pressure: 60 kPa to 120 kPa
- temperature range: -30°C to +50°C
- size: 270 x 230 x 70 mm
- connectors and cables: according to MIL-C-26482

Additional equipment

For special measurement problems, telescopic extensions and larprobes can be supplied: alpha-beta-gamma contamination probe, external gamma-probe, environmental probe and a large-area contamination probe.

The SSM1 can be used as both a portable and a stationary instrument.



Igos RF Shielding Specialized in:

- RF shielded box
- RF shielded enclosures
- RF shielded chambers
- RF shielded room – cooper screen
- PCB shielding
- EMI/RFI shielded vent panel (Honeycomb)
- EMI/RFI shielded window
- Filtered connector panels
- Power and Signal RF Filter
- Test fixtures
- Special and custom made test products
- Attenuation tests



Power Line Filters for Ground Wire



Feedthrough Filters



Power Line Filters for Shielded Cabinet



Classic Power Line Filters



High Performance Filters for Anechoic Chamber



High Performance Filters for Shielded Room



Signal Filters

Power Line Filters

- High Performance Filters for Shielded Room
- High Performance Filters for Anechoic Chamber
- Power Line Filters for Grounding Wire
- Feedthrough Filters
- Power Line Filters for Shielded cabinet
- Classic Power Line Filters

Signal Filters

- Signal Filters



Overview of technical data

Camera sensor	1/2.8" Exmor CMOS sendor (2.14 megapixels)
Image elements	1920(H) x 1080(V)-Full HD
Zoom factor	30x optical zoom
Angle of Vision	Horizontal 63.7 (wide angle) up to 2.3 (tele)
Minimum illumination (1/30s)	0.013 lx (high sensitivity mode + ICR)
Exposure time	1/1s-1/10,000s
Minimum object distance	10mm(wide angle) up to 1200mm(tele) (standard 300 mm)
Video output	GigE Vision (optical)
Ambient temperature	0°C up to 40°C
Dimensions(WxHxD)	75mm x 85mm x 275mm
Weight	Approx. 1.2kg
Interference immunity	100V/m up to 18GHz
Menu languages	German and English