

emcware[®]

EMC Software Suite Version 7

New in this Version

- CISPR 16-1-4 Site Validation
 Site Attenuation (NSA)
 - Site VSWR
- CISPR 35, Annex G
- Audio Output Function
- FFT Emissions Scan Types
- Test with up to four (4) tones

Main Features

- Radiated and conducted immunity
 - Single or Multi-Tone
- Radiated and conducted emissions
- Pre-defined test standards
- Report generation
- Extensive Equipment driver library
- EUT monitoring
- Reverb method

To view our full portfolio, visit: www.arworld.us/systems-overview

AR RF/Microwave Instrumentation 160 Schoolhouse Rd Souderton, PA 18964 215.723.8181 info@arworld.us www.arworld.us ISO 9001:2015 Certified ISO 17025:2017 Accredited

Software Design

emcware® is a user-friendly, flexible, and powerful automated Electromagnetic Compatibility (EMC) testing software with lightning-fast setup times.

Choose from over 500 predefined test profiles, organized by test methods.

Equipment Management

A built-in Equipment List Manager allows for equipment to be entered one time and then accessed from within any of the modules. The Equipment List Manager also keeps track of calibration dates and can warn the user when the calibration date of a specific piece of equipment is approaching.

EUT Monitoring

Use custom equipment or a National Instruments DAQ card to monitor and report the status of the equipment under test (EUT). The National Instruments DAQ device can monitor Analog or Digital levels from the EUT or reset the EUT using the Digital Outputs. Custom equipment, in conjunction with dynamic link library (DLL) files, allows for complete EUT monitoring and control.

Instrument Drivers

Instrument control is provided through our extensive driver library. Creation of new drivers for equipment that is not currently supported is available upon request. Drivers can also be created and imported by the user in the form of dynamic link libraries (dll) files. For a list of supported remote interfaces, see the **Included Equipment Drivers** section.

Signal Routing

emcware is designed to allow the user to select between manual and automatic signal routing. Automatic signal routing is implemented using one or more AR RF/Microwave Instrumentation Model SC2000 System Controllers.

Reports

Extensive report generation capability is built into each module. These reports can be customized by the user. All reports are created using Microsoft Word or Microsoft Excel.

Help Instructions

A detailed help utility is included with emcware. The contents of the help instructions can be searched by keyword or topic. Open the help file using the context-sensitive help buttons located throughout the user interface.

Multi-Tone Capable

Radiated and Conducted Immunity testing can be accelerated by testing multiple frequencies simultaneously. emcware is capable of simultaneous control of up to four signal generators and managing the applied frequencies (see page 3).

Licensing

emcware is conveniently licensed using a USB license key that enables full functionality of the software for a single PC. For more details, see **Licensing Information** on Page 5.

AR Systems Compatibility

emcware can automatically control select AR Systems using built-in equipment setups. See **Compatible AR Systems** for a complete list.



INCLUDED PREDEFINED TEST STANDARDS/METHODS						
Organization	Standard	Version	RS/RI	CS/CI	RE	CE
	CISPR 11	Ed 5			✓	✓
	CISPR 13 - superseded by CISPR 32	Ed 4			✓	
	CISPR 16-1-4 Site Validation (NSA and Site VSWR)	Ed 4			✓	
CISPR	CISPR 22 - superseded by CISPR 32	Ed 6			✓	✓
	CISPR 25	Ed 2			✓	✓
	CISPR 32	Ed 1			✓	✓
	EN 55035:2017 (CISPR 35) Annex G	2017	~	~		
	MIL-STD-461 RS103	D, E, F, G	√			
	MIL-STD-461 RS103 (Reverb)	G	√			
Department of Defense	MIL-STD-461 CS114	D, E, F, G		~		
Delense	MIL-STD-461 RE101, RE102	D, E, F, G			~	
	MIL-STD-461 CE101, CE102	D, E, F, G				~
	DO-160 Section 20.4, 20.5	D, E, F, G	✓	✓		
RTCA	DO-160 Section 20.6 (Reverb)	F, G	√			
	DO-160 Section 21	D, E, F			✓	√
	61000-4-3	Ed 3.1	√			
	61000-4-6	Ed 4		√		
	61000-4-21	2011	~			
	50130-4	1996	~	~		
IEC	60601-1-2	Ed 4	√	√		
	61000-6-1	Ed 3	√	✓		
	61326	Ed 2	~	✓		<u> </u>
	61000-6-2	Ed 3		✓		
Telcordia	GR-1089-Core	Issue 3, 6	~			
Technologies	ISO 11451-2		· √			
International		Ed 4	• √			
Organization for Standards	ISO 11452-(2, 3, 5)	Ed 2	•	✓		
Faud	ISO 11452-4	Ed 4	√	▼ ✓		
Ford	ES-XW7T-1A278-AC	02/2004	✓ ✓	✓ ✓		
	GMW3097		✓ ✓	~		
GM	GMW3097	04/2012	• ✓	1		
	GMW3097	03/2019	~	✓		
BMW	GS 95002	2004-10		✓ ✓		
Chrysler	DC-11224	2006-10		✓ ✓		
Fiat / Chrysler	CS.00054	A (2018-01)	✓	 ✓ 		
Renault	36-00-808	G (2004)		✓		<u> </u>
	36-00-808	N (2016)		✓		
Peugeot	B21 7110	B (2005-05)		✓		
	B21 7110	E (2015-09)	~	~		

LEGEND: RS (Radiated Susceptibility), RI (Radiated Immunity), CS (Conducted Susceptibility), CI (Conducted Immunity), RE (Radiated Emissions), CE (Conducted Emissions)

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EMC Software Suite Version 7

SPE	SPECIFICATIONS				
REC	COMMENDED PC HARDWARE REQUIREMENTS:				
•	Intel i5 or equivalent, 4 GB of RAM, Screen resolution 1,024 x 768 pixels and higher, 2 available USB (2.0) Ports				
OP	ERATING ENVIRONMENTS:				
•	Windows 11, Windows 10 64-bit				
SUF	PORTED INTERFACE HARDWARE (Not Included):				
•	National Instruments GPIB Controller				
	NI GPIB-USB-HS+ (AR P/N 10013688) or equivalent National Instruments device required for GPIB communications				
•	National Instruments DAQ (Data Acquisition) device				
	NI USB-6212 (AR P/N 10025318) is recommended, but the configuration is customizable				
SUF	PPORTED COMMUNICATIONS INTERFACES:				
•	IEEE 488 (GPIB), National Instruments NI GPIB-USB-HS+ (AR P/N 10013688) or equivalent device required				
•	RS-232				
•	USB				
•	Ethernet (creation of a National Instruments VISA TCP/IP Resource required)				
EQ	UIPMENT DRIVERS:				
•	A full list of included equipment drivers can be found at the end of this document.				
•	For equipment that is not currently supported, please contact the factory.				
•	Equipment drivers can be written by the user in a multitude of programming languages (LabVIEW, Visual Studios, etc.) and imported as dynamic link library (DLL) files.				
	 Equipment Driver Templates are included for LabVIEW and Visual C++ 				
•	Includes demonstration drivers for all controllable equipment types to allow operation without equipment.				
REF	PORTS:				
•	Microsoft Word/Excel 2010 or newer required for all output formats				
•	Output Formats				
	Microsoft Word / Excel				
	• PDF				
•	Included Data				
	All data collected in numerical & graphical formats				
	Test information (test standard, file paths, completion date, etc.)				
	User and Customer information (optional)				
	EUT monitoring data including Pass / Fail status and user comments				
	 Test setup information (test level, frequencies, dwell times and EUT monitoring setup) 				
	Equipment names and calibration dates				
	Basic equipment interconnect diagram				
	SPECIAL FEATURES:				
•	Fast Fourier Transform (FFT) sweep type supported during emissions scans				
•	Multi-tone capability for substitution method, Radiated and Conducted Immunity testing				
	Simultaneous control of up to four (4) signal generators				
	• A user-supplied, low-power resistive splitter is required to combine the generator outputs (e.g. Mini-Circuits p/n ZFRSC-183B-S+)				
•					
•	Test up to 2 modulations in addition to CW per frequency during one test				
•	Pause, stop, and resume tests without data loss				



EMC Software Suite Version 7

SPECIFICATIONS			
SPECIAL FEATURES:			
• User defined amplitude and frequency three	User defined amplitude and frequency thresholding capability (Supports MIL STD 461 thresholding method)		
Pre-defined test standards			
• Simple creation of custom test standards			
Graphical display of test levels			
• Graphical display of RF path for easy test of	onfigurations and changes		
Automated harmonics check (IEC 61000-4-3)			
Automatic control of AR Systems (see Com	patible AR Systems)		
Automatic software updates (requires Inter	net access)		
COMPATIBLE AR SYSTEMS:			
• CI00250A			
• CI00400A			
• CI00401A			
• C100402			
• Cl00403			
• CI01000			
LICENSE INFORMATION:			
• See page 5			
SUPPORT CONTRACT INFORMATION:			
• See page 5			
EXPORT COMPLIANCE:			
 The export classification for this software is EAR99. This software is controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited. 			

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Support Contract Information

An annual support contract provides the following additional services and can be accessed by phone, email, or Remote PC access (if available).

Available emcware® Services	emcware® purchase	Support Contract ¹	
Access to emcware® Support Website			
Bug fixes, maintenance updates, and driver updates for current version	\checkmark	~	
Free upgrades to new versions		~	
Automatic notification of available updates	√	~	
Access to AR Applications and Software Engineers			
Setup support		✓	
Problem acknowledgement within 24 hours		~	
Email, phone and remote support		✓	
Dedicated support staff focused on providing solutions		✓	
Equipment Driver Support			
Driver Creation	Available up	oon request ²	
Driver Support	\checkmark	✓	
Driver Templates ³	\checkmark	✓	
Driver Templates with example code ³		✓	

¹ Support contract is valid for 12 months after time of purchase

² Additional charges may apply - Call for more information

³ User knowledge of a programming language that can generate Windows Dynamic Link Library files (*.dll) is required

License Information

The emcware® can be installed on any number of PCs at one time. The supplied USB license key will unlock the full feature list of the PC it is connected to (see below).

emcware _e Features	USB License Key	No USB License Key
Equipment Setups	√	✓
Test Setups	√	✓
Immunity Calibrations	✓	
Immunity Tests	√	
Emissions Tests	√	
Report Generation	✓	✓

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INCLUDED EQUIPMENT DRIVERS

Amplifiers	
AR RF/MICRO INSTR	All Models Supported*
ROHDE & SCHWARZ	BBA1xx Series
exodus	Amp series
Antenna Controllers	
SUNAR (Formerly	SC98VA, SC110VA
Sunol Sciences)	
ETS	1050, 1060, 1090A, 2090A, EMCenter (7006-001)(AUX)
FRANKONIA	FC06
HD	HD100
MATURO	NCD, FCU (Polarization Only)
Audio Analyzers Stanford Research	SR1+
Sidilioid Research	
Field Monitors	
AR RF/MICRO INSTR	All Models Supported*
CHAUVIN ARNOUX	CA43
HOLADAY INDUSTRIES	HI-6105, HI-6100
NARDA	EMC-20, NBM-520, EMR-200, EP60x Series 8053B
TDK	SI-300
Power Meters	
AR RF/MICRO INSTR	All Models Supported*
AGILENT/HP	DSO-X 3xxx Series, EPM E44117, EPM
	E44118, EPM E44119, EPM 441A, EPM
	E442, N1913A, N1914A 436A, 437B, 438A
BIRD	4421 4020 4540 0000 DL55m
BOONTON	4230, 4540, 9200, BI 55xx
DARE	RPR1004A, RPR1006A, RPR1018A
KEYSIGHT	U2000 Series
LADYBUG	LB59xx Series
MARCONI	6960
ROHDE & SCHWARZ	NRP, NRVS, NRVD, URV5
TESEQ	PM6003
TEKTRONIX	TDS 744A
Probe Positioners	
PROBOTIC SYSTEMS	801
TDK	SI 300
INNCO	CO3000
MATURO	MCU
Pulse Generators	
Pulse Generators AGILENT/HP	3325A, 33220A, 8116A, 81101A

Receivers AGILENT/HP MXE N9038A ROHDE & SCHWARZ ESIB, ESCI, ESPI, ESU, ESW, ESR Spectrum Analyzers R3265A ADVANTEST R3265A ESA Series, PSA Series, N90x0A (CXA, AGILENT/HP EXA, MXA, PXA), E740X0, 856x Series, 8595X AGILENT/HP EXA, MXA, PXA), E740X0, 856x Series, 8595X RIGOL DSA800, RSA3000 Series, RSA5000 Series ROHDE & SCHWARZ FSL, FSP, FSV3000 TEKTRONIX RSA3408A (Power Meas Only) The EMC Shop ESA Reverberation Tuners EUF1000 Signal Generators All Models Supported* AGILENT/HP/KEYSIGHT DSO-X 3xxx Series, E8257C, E8257D, ESC, N51xx8, N51xxA, N9310A, 33120A, N3250A, 3336C, 8341, 8350B, 83620B, 83630B, 83731, 8642B, 8643, 8657A, 8657B, 8662A, 8663A, 8664A, 8673B ANRITSU MG3694A BERKLEY NUCLEONICS 845/835-6 FLUKE 6060A, 6061A, 6062A GIGATRONICS 1018, 6080A, 12000A HAMEG HM8134-3, HM8135 IFR 341x Series MARCONI 2022, 2023, 2024, 2025, 2030, 2031, 2032 ROHDE & SCHWARZ SMB, SMBV1000A, SMC, SME, SMF, SMG, SMH, SML, SMP, SMR, SMT, SMX, SMY ANAPICO<		
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NOTE: AR models created after the current release of the software may not be fully supported, but will be supported in subsequent releases within the scope of the emcware® software.

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