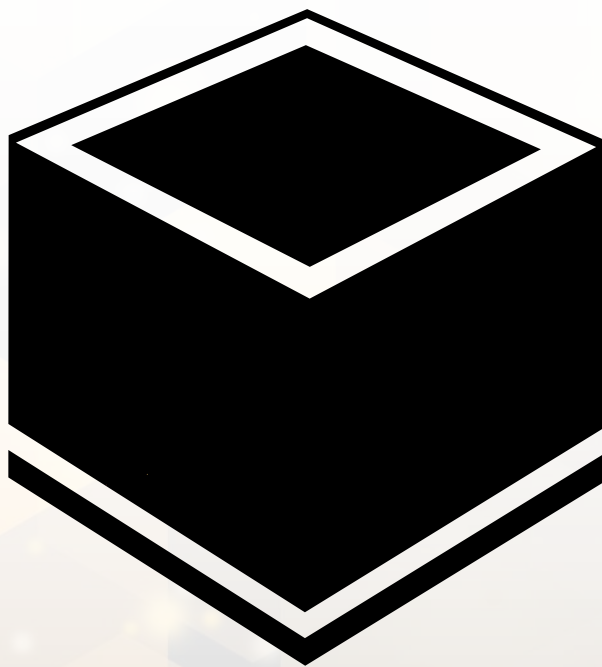


DVTEST

BEST ISOLATION. BETTER RESULTS.

Advanced RF Test Enclosures Product Guide



35th Anniversary Edition



DVTEST

Best Isolation. Better Results.

Size Matters.

The industry's most compact, modular, and versatile 5G OTA test enclosure
Frequency Range: 300 MHz - 90 GHz

dbSAFE ARMOR

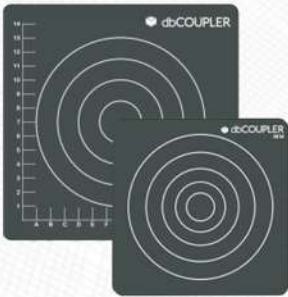


Advanced RF test enclosures and wireless test systems.



We've Got You Covered!

DVTEST offers a wide selection of accessories.



Antenna Couplers

The dbCOUPLER series are omni-directional wideband antennas, operating in the frequency range of 300 MHz - 8 GHz. Ideal for many different applications including security, GNSS, Bluetooth, WIMAX, Wi-Fi, 5G, LTE, and RFID (vUHF SHF).



Broadband Horn Antennas

Ideal for complementing RF test enclosures in various test setups from 300 MHz to 40 GHz.



Broadband Vivaldi Antennas

The dbDIRECT Broadband Antenna features a broad frequency range, small form factor, and directional radiation pattern. This makes it an ideal choice for all wireless technology device testing.



OTA Verification Tools

A wide selection of Broadband Noise Sources and Power Sensors for an economical alternative for performance verification of path loss and OTA test setups.

Welcome to Our 35th Anniversary Issue.

**Putting customers first.
No matter where you are!**



Since 1985, DVTEST has maintained a steady momentum to become the industry's leading manufacturer of Advanced RF & Thermal Test Enclosures. We support a global market through our long standing relationships with local technical representatives and distributors. This milestone anniversary is a celebration of our customers and the achievements of DVTEST over the last three decades.



The original DVTEST enclosures were manufactured to test the leading edge technology of the day. We've included some of our favorite gadgets that were first introduced the year we started our incredible journey.

"We are fortunate to have dedicated and highly qualified employees who make it possible for us to provide our customers with excellent service." remarks DVTEST General Manager Mike Caines. "Knowledge, experience, technical skills, and a continuous commitment to our customers, are what drive us forward as leaders in the world of wireless innovation."

Having grown extensively over the past thirty five years, DVTEST continues to capture market share. DVTEST has been built on trust, experience, and a commitment to offering optimal service and only the highest quality products.

Our team can be trusted to quickly provide the right solution specific to unique requirements. Our Technical Account Managers provide support and expertise in engineering applications. Their in-depth knowledge allows for engaging product demonstrations and recommendations for the best solution.

Our product portfolio covers all price and performance classes, ranging from basic enclosures to high-end integrated OTA RF/Thermal solutions. DVTEST designs, engineers, and manufactures each RF & Thermal test enclosure in-house. This helps us serve the diverse markets we support including consumer electronics, wireless communications, aerospace and defense, semiconductor, and automotive. Thank you for the first 35 years and we look forward to continued collaboration and innovation.



DVTEST

RF Test Enclosure Products



	dbCHECK	dbGUARD	dbTENT
Loading Style	Clamshell	Clamshell	Front
Chassis Type	Single	Single	Double
Use Case	RF enclosures suitable for repair environments and compliance testing. Drop in replacements for Aeroflex & WillTek.	Robust RF enclosures recommended for high volume manufacturing and automated testing.	Portable RF enclosures suitable for on-site and temporary lab environments.
Shielding Effectiveness (Isolation)	> 90 dB	> 80 dB	> 90 dB
Tri-Shield® MIL-DTL-5541F Process	X	X	
Frequency Range (GHz)	0.3 - 18	0.3 - 18	0.3 - 18
mmWave Frequency Extension Kit			
Extreme Temperature Testing			
Waveguide Cooling	Some Models	Some Models	X
Extruded Aluminum Base Available			
Custom Sizes Available	X	X	X
Positioner - Manual Rotation and Translation	X	X	
Positioner - Full Spherical Pattern			
Measurement Software (Optional)			X
OTA Performance Verification Tools Available	X	X	X
Warranty	2Y	2Y	1Y
Internal Dimensions W x D x H Inches (mm)	dbCHECK 14 x 11.25 x 8 (356 x 286 x 203) dbCHECK+ 20 x 14 x 8 (508 x 356 x 203)	S 7 x 14.75 x 7.5 (178 x 375 x 191) M 15 x 14.75 x 7.5 (381 x 375 x 191) L 18.6 x 16.5 x 8 (472 x 419 x 203) Tablet Edition 15.25 x 14.75 x 3.75 (387 x 375 x 95)	S 24 x 24 x 24 (610 x 610 x 610) M 36 x 36 x 36 (914 x 914 x 914) L 48 x 48 x 48 (1219 x 1219 x 1219)

#1 Best Seller



dbSAFE CLASSIC	dbSAFE X	dbSAFE DUO	dbSAFE RME	dbSAFE TSE	dbSAFE MAX	dbSAFE ARMOR
Top	Top Front Rackmount	Top Front	Front	Front	Front	Front
Single	Single	Double	Double	Double	Double	Double
Economical RF enclosures for basic RF applications. A modern take on the original DVTEST RF enclosure.	Versatile RF enclosures for lab use and compliance testing. Largest useable I/O panel in industry.	Customizable RF enclosure offering the most repeatable environment and best overall performance on the market.	19" and 24" rackmount RF enclosure optimized for data throughput and regression testing.	Temperature and RF enclosure recommended for lab use, compliance testing, and research & development.	Customizable large format RF enclosure suitable for larger DUTs and test setups, automation, or multi-device testing.	Advanced, modular RF enclosures recommended for multiple frequency ranges and OTA applications.
> 90 dB	> 90 dB	> 100 dB	> 100 dB	> 100 dB	> 100 dB	> 100 dB
X	X	X	X	X	X	X
0.3 - 18	0.3 - 18	0.3 - 18	0.3 - 18	0.3 - 18	0.3 - 18	0.3 - 90
		X	X	X		X
				Included	X	X
	X	X	X	X	X	X
		X		X	X	X
	X	X	X	X	X	X
X	X	X	X	X	X	X
					X	X
		X	X	X	X	X
X	X	X	X	X	X	X
1Y	2Y	3Y	3Y	2Y	3Y	3Y
CLASSIC I 12 x 8.25 x 6 (305 x 210 x 152)	Top S 18 x 12 x 8 (457 x 305 x 203)	Top S 11 x 8.5 x 5.5 (279 x 216 x 140)	4U - 19" 14 x 20 x 4 (356 x 508 x 102)	TSE 16 x 10 x 7 (406 x 254 x 178)	MAX 18 x 24.5 x 30 (457 x 622 x 762)	3232 32 x 32 x 32 (813 x 813 x 813)
CLASSIC II 17 x 11.25 x 8 (432 x 286 x 203)	M 23 x 16 x 11.25 (584 x 406 x 286)	M 17 x 11 x 8 (432 x 381 x 203)	7U - 19" 14 x 20 x 9.25 (356 x 508 x 235)	TSE Hybrid Upper: 16 x 9 x 6 (406 x 229 x 152)	MAX+ 32 x 32 x 32 (813 x 813 x 813)	4242 42 x 42 x 42 (1067 x 1067 x 1067)
CLASSIC III 19 x 17 x 8 (483 x 432 x 203)	L 24 x 18 x 12 (610 x 457 x 305)	L 24 x 15 x 13 (610 x 381 x 330)	10U - 19" 14 x 20 x 14.5 (356 x 508 x 368)	Lower (Thermal): 16 x 9 x 7 (406 x 229 x 178)		2418R Upper: 24 x 27.5 x 24 (610 x 699 x 610)
	Front S 23 x 12 x 11.25 (584 x 305 x 286)	Front M 17 x 11 x 8 (432 x 279 x 203)	10U - 24" 21 x 20 x 14.5 (533 x 508 x 368)			Lower: 24.5 x 28 x 7 (622 x 711 x 178)
	M 23 x 16 x 11.25 (584 x 406 x 286)	L 24 x 15 x 13 (610 x 381 x 330)	13U - 24" 21 x 20 x 19.75 (533 x 508 x 502)			3270 32 x 24 x 70 (813 x 610 x 1778)
	L 24 x 18 x 12 (610 x 457 x 305)					5242 52 x 42 x 42 (1321 x 1067 x 1067)
	R9 - 9U 21 x 15.75 x 15 (533 x 400 x 381)					

dbSAFE CLASSIC

A work of art
of recognized &
established value

- Frequency range: 300 MHz - 18 GHz
- Excellent isolation over broad frequency range
- Ideal for NB-IoT, WiFi, Bluetooth, GPS, and LTE
- Interchangeable and customizable I/O panels
- Industry's largest selection of I/O modules



Need a better way of doing RF Thermal testing?

The dbSAFE TSE utilizes our proven double wall architecture to provide one of the best RF environments on the market.

Features

- Frequency range: 300 MHz - 18 GHz
- Shielding Effectiveness (Isolation): >100 dB
- Temperature range: -80°C - +180°C



dbSAFE DUO Series

Where the 100dB Isolation isn't our most impressive spec!

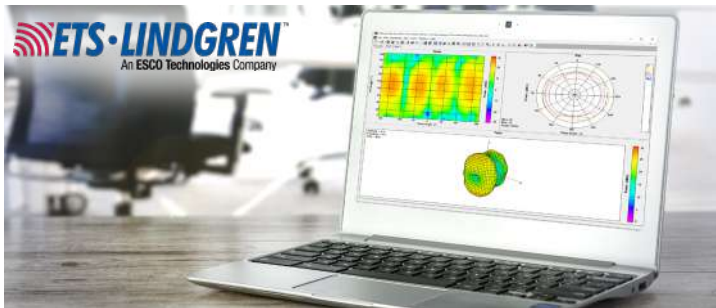


- Full Double Wall construction provides the most stable and repeatable RF environment available in a portable enclosure
- **Tri-Shield**® passivation process eliminates surface oxidation; ensuring no degradation in isolation performance over the life of the enclosure
- High-quality nickel fabric over urethane foam gaskets with epoxied mitered edges
- Customizable offset I/O panels for enhanced isolation
- Frequency extension options to 60 GHz
- Front and Top loading units available
- Choose from our standard sizes or customize to meet your exact needs

dbSAFE ARMOR

OTA Test System to 90 GHz

- FR1 & FR2 compatible
- Ideal for mmWave technologies such as 5G and V2X
- High-quality pyramidal absorber provides minimal reflectivity
- Compatible multi-axis positioners with NI Labview drivers
- Supports ETS EMQuest EMQ-100 and Anteligen Technologies Signalshape OTA pre-compliance testing platform
- Integration of near-field to far-field measurements
- Full system engineering support to help improve ramp up time
- Compatible with all popular measurement instruments including: Keysight®, Rohde & Schwarz®, Anritsu®, Spirent®
- Custom sizing and application specific requirements can easily be accommodated



EMQuest™ EMQ-100

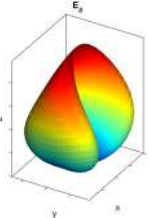
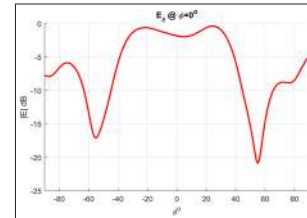
ETS-Lindgren's EMQuest EMQ-100 Antenna Measurement Software offers a wide range of fully parameterized test methods for measuring basic antenna performance metrics, as well as testing both radiated and conducted performance of various wireless devices.

Whether you're designing antennas for stand-alone applications, or testing an embedded antenna system and radio module against any of the industry standard (OTA) radiated performance test requirements, EMQuest EMQ-100 provides the flexibility to meet your testing needs.

Key Features

- Expandable Test Package
- Testing Capabilities
- OTA Evaluation
- TRP/TIS Testing
- Site Validation and Calibration
- Parameter Entry and Data Acquisition

ANTELIGEN TECHNOLOGIES



Anteligen Technologies brings intelligence to antenna technology facilitating the development of RF, microwave, and mmWave devices. Whether your application is wireless, 5G IoT, automotive radar, or UAVs, Anteligen has developed artificial intelligence and machine learning algorithms that help you get to market faster than any other measurement software.

What is Signalshape?


Signalshape is a user friendly software package that measures antenna patterns in compact test spaces. Signalshape assists engineers by implementing fast and accurate near-field measurements and near-field to far-field transformations. In OTA applications, this significantly reduces the number of sample points, increasing speed.

Measurement Capabilities:

- 2D planar/cylindrical
- 3D Spherical
- Single & Dual polarization
- Automatic Gain
- Efficiency/TRP
- RCS calculation
- Phase center extraction
- TIS/TRS

Advance Features:

- Extreme near field measurement
- Arbitrary acquisition surface
- Full chamber, probe correction
- Interfering object correction
- Black box test
- High power dynamic range support
- Amplitude-only test
- Compatible with LabView, MATLAB



Head Office
2-1795 Ironstone Manor
Pickering, ON L1W 3W9
647-726-0058

USA Sales Office
15020 Beltway Dr.
Addison, TX 75001
713-686-7306

For more information contact us at sales@dvtest.com or visit us at www.dvtest.com

© 2020 DVTEST Inc. All Rights Reserved