



STE3000 – RF Shielded Test Enclosure

The RF Test Enclosure that started it all. How do you troubleshoot, tune, align and test a device in an RF free environment? Well, up until now you had to invest in a very expensive RF screen room. Our patented STE3000 brought that technology right down to your bench, and the cost all the way down to affordable. The STE3000 is constructed of .090 aluminum utilizing precision machined tolerances throughout to maintain a RF-Tight environment. Our special "double lip" technology gives you RF isolation greater than 90dB down at 1GHz. The heavy duty RF sealed cover hinges open and close with a precision air piston. Once closed, a large RF tight viewing window overlooks the entire working area within the enclosure. Hands-on troubleshooting, tuning and access to the device under test are accomplished using specially designed, silver impregnated, ultra fine mesh gloves that offer excellent manual dexterity and hands-on access to the equipment under test. The entire interior is lined with RF absorbent foam that provides 24dB attenuation. The work area has built-in illumination via two low voltage incandescent lamps powered by the RF Filtered AC Supply. All of the I/O connections and interfaces are provided within a precision machined I/O panel. This panel can be configured with your own custom connector and interface options without affecting the integrity of the enclosure itself. It also allows your enclosure to be "custom configured" from a standard stock enclosure. For you that means speedy delivery and lower costs. Simply choose your I/Os and options from the list provided on page 3 and your enclosure will be configured to your specifications. Does it sound too good to be true? We thought so too; that's why we have a patent on it.



RF Shield Box STE3000 Key Benefits

- Wireless device testing
- Perfect for 802.11a, b, g
- Bluetooth, RFID, 3G testing
- Wide variety of I/O options
- Super isolation up to 18GHz
- Stock models to fit your custom applications

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Concentric Technology Solutions, Inc.
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Concentric Technology Solutions Inc

Testing Solutions for the Wireless Industry

STE3000 RF Shielded Test Enclosure Data Sheet

- Super isolation up to 18 GHz
- RF radiating test fixture models for absolute repeatability testing of wireless devices
- Stock models to fit your custom applications

RF Shield Box STE3000 Specifications

- RF absorbent foam liner
- Exclusive double lip RF tight gasket
- Universal I/O connector interface plate
- RF tight "hands-on" silver mesh gloves
- RF tight illuminated viewing window
- Gas filled cover strut
- Designed for hands-on adjustment and alignment of devices
- Isolation:
 - -90dB @ 1GHz
 - -90dB @ 3GHz
 - -80dB @ 6GHz
- Dimension:
 - Outside: 12.75"H x 18"W x 12"D
 - Inside: 8"H x 17"W x 10.5"D

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Custom Configuration Options

| | |
|-----------------------------|---|
| RF FEEDTHROUGH: | BNC, TNC, SMA, SMB, UHF, Type-N |
| FIBER OPTIC: | Fiber optic bulkhead feedthrough, ST, FC |
| DUST COVERS: | Dust cover caps with security chains available for all RF feedthrough connectors |
| RF FILTERED DATA: | DB9 (10pF), DB9 (100pF), DB9 (1000pF), DB15 (100pF), DB15 (1000pF), DB25 (310pF), DB25 (1000pF), DB37 (310pF), DB37 (1000pF), RJ45/DB9 Filtered, RJ11/DB9 Filtered, USB1/DB9 Filtered |
| POWER CONNECTIONS: | 4-Pole filtered barrier strip feed through, 6-Pole filtered barrier strip feed through, internal surge protected power strips (110VAC, 220VAC International) |
| VENTILATION OPTIONS: | Dual side mounted RF filtered vents with single filtered exhaust muffin fan, passive vent only |
| RF ABSORBENT FOAM: | Standard 1/2" thick RF absorbent foam liner provides 24dB attenuation. 3/4" thick foam is standard on the STE3800 and available as an option to provide a flatter response |
| FIBER TRANSCEIVER: | Icron Technologies USB 2.0 Fiber Transceiver System available for devices up to 480 MB/s |

Note: RF Isolation specs are measured at 1M with terminated RF feedthrough coaxial connectors installed. Actual isolation & attenuation can be affected by adding additional filtered and non-filtered connectors. Check with us for specific connector specifications.

STE series I/O interfaces, connectors, and options are frequently updated. Check with us for updates.

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