

JRE 1812

RF Shielded Test Enclosure

Roomy mid-size benchtop chamber with a large interior for multiple-device and system testing — including both TX and RX devices for actual on-air tests.



Shown with populated I/O plate for illustration

AT A GLANCE

- Roomy 8 × 16.5 × 10.5 inches inside (205 × 420 × 270 mm) in an 18" wide × 12" deep package
- Excellent isolation: -100 dB DC to 1 GHz, -95 dB to 3 GHz, -85 dB to 6 GHz
- Large enough for system tests and holding both transmit and receive devices together
- **Removable, field-changeable B-size I/O plate** — reconfigurable as your test needs change
- Top-loading lid keeps door swing out of the way on congested benchtops
- Dual latches ensure tight RF shielding; rugged welded aluminum construction
- Optional **MW upgrade** extends isolation to 28 GHz for 5G FR2, UWB and WiFi 6E/7

DESCRIPTION

Developed expressly for high-volume testing of larger RF devices, the JRE 1812 is roomy enough to hold both TX and RX devices for actual on-air tests — letting you exercise a transmit/receive link inside one controlled, sealed RF environment. Top loading keeps the door swing out of the way on congested benchtops.

Featuring rugged welded aluminum construction, you can be assured of its tight RF shielding effectiveness. Long-life door gasket material along with our double-edge contact engagement provides solid RF shielding and smooth, trouble-free operation over the life of the chamber. Inside, LS-30 RF

absorbing foam tames reflections and hot-spots so your measurements stay clean and repeatable.

Every JRE chamber uses a removable, CNC-machined I/O plate — a design JRE engineers originated over forty years ago. The B-size plate recesses into the chamber wall and does not intrude into your test volume. Because it swaps out in the field with a few screws, one 1812 can be reconfigured for many different test setups over its life. JRE's wide selection of filtered I/O interfaces — USB, Ethernet, power, HDMI and more — lets almost any device be connected inside while keeping the RF environment sealed tight.

SHIELDING ISOLATION

DC to 1 GHz	-100 dB
to 3 GHz	-95 dB
to 6 GHz	-85 dB

All JRE chambers, and many JRE filtered interfaces, can optionally be ordered with the MW upgrade for operation to 28 GHz at > 85 dB isolation. Contact the factory for details.

DIMENSIONS

Inside	8" H × 16.5" W × 10.5" D 205 × 420 × 270 mm
Outside	8.5" H × 18" W × 12" D 250 × 460 × 305 mm

WEIGHTS & SHIPPING

Weight	18 lb / 8.2 kg
Shipping weight	20 lb / 9.1 kg
Shipping carton	22" × 16" × 13" 560 × 410 × 330 mm

I/O PLATE & CONNECTORS

Plate size	JRE "B" size
Plate opening	4.5" × 7" (115 × 180 mm)
Field changeable	Yes

Test chambers do not include RF connectors or interface filters. Any connection to a device inside the chamber must be suitably filtered to maintain shielding isolation.

FEATURES & BENEFITS

- Double-contact door shields ensure repeatable measurements
- Heavy-duty stainless steel friction hinge holds lid steady
- 3/4" (19 mm) thick RF absorbing foam deadens standing waves and reflections; 90 °C rating, UL 94V-0 flammability
- Optional viewing window and hand-entry sleeves — see JRE 1812WS

CONFIGURING YOUR CHAMBER

Choose from ready-to-go, in-stock B-size I/O plates with the most common filtered interfaces and connectors and your chamber can ship in just a few days — or have a custom plate designed in about a week with whatever connectors and filtered interfaces you need. Fans, vents, internal AC power strips and fiber optic connectors can all be accommodated. Use the Configuration Worksheet at jretest.com to organize your requirements.