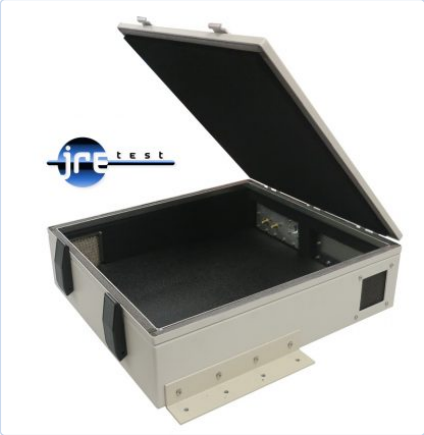
JRE 1618

RF Shielded Test Enclosure

Low-profile chamber with two I/O plates' worth of connectors — for thin devices that need a lot of connections and no height.



Shown with populated and unpopulated I/O plates for illustration

AT A GLANCE

- Roomy **3 × 14.5 × 16.5 inches** inside (75 × 370 × 420 mm) in a slim **16" wide × 18" deep** package just 4.5" tall
- Excellent isolation: **−100 dB DC to 1 GHz, −95 dB to 3 GHz, −85 dB to 6 GHz**
- **Space for two removable A-size I/O plates** — room for a high connector count on a flat footprint
- Built-in **honeycomb vents** maintain shielding effectiveness; optional fan for additional airflow
- Dual latches ensure tight RF shielding; rugged welded aluminum construction
- Natural fit for boards, modules and multi-connector devices that need feedthroughs rather than headroom
- Optional **MW upgrade** extends isolation to 28 GHz for 5G FR2, UWB and WiFi 6E/7

DESCRIPTION

Low-profile devices that need large amounts of I/O connectivity have found a home in the JRE 1618. With space for two A-size plates you can populate a generous mix of filtered interfaces and connectors — USB, Ethernet, power, DB-style, terminal strips — across both while keeping the box flat on the bench. If you need the same low-profile style on a wider footprint, see the JRE 2214.

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 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 two A-size plates plates recess into the chamber wall and do not intrude into your test volume. Because it swap out in the field with a few screws, one 1618 can be reconfigured for many different test setups over its life, using JRE's wide selection of filtered I/O interfaces — USB, Ethernet, power, HDMI and more.

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	**3" H × 14.5" W × 16.5" D**
	75 × 370 × 420 mm
Outside	**4.5" H × 16" W × 18" D**
	115 × 405 × 460 mm

WEIGHTS & SHIPPING

Weight	**15 lb / 6.8 kg**
Shipping weight	**21 lb / 9.6 kg**
Shipping carton	**22" × 22" × 9"**
	560 × 560 × 230 mm

I/O PLATES & CONNECTORS

Plate size	**Two JRE "A" size**
Plate opening	**2.75" × 6" (70 × 150 mm) each**
Field changeable	**Yes**
Ventilation	**Honeycomb vents**

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
- 3/4" (19 mm) RF absorbing foam; 90 °C rating, UL 94V-0 flammability
- Heavy-duty stainless steel friction hinges
- Same low-profile style on a wider footprint — see JRE 2214

CONFIGURING YOUR CHAMBER

Choose from ready-to-go, in-stock A-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. 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.

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