

## JRE 1714

# RF Shielded Test Enclosure

Rack-mountable chamber with two full C-size I/O plates — built for test systems that need a huge number of connections in a permanent installation.



Shown with unpopulated I/O plates for illustration

## AT A GLANCE

- Roomy **15.75 × 12.75 × 9 inches** inside (400 × 320 × 230 mm) in a **17" wide × 14" deep** rack-friendly package
- Excellent isolation: **–100 dB DC to 1 GHz, –95 dB to 3 GHz, –85 dB to 6 GHz**
- **Two removable C-size I/O plates** (7" × 7" each) — a huge amount of I/O, reconfigurable as your test needs change
- **Mounts easily in a standard 19" rack**
- Wide-opening side door with dual hinges and secure latch for easy loading
- **Four 60 mm honeycomb vents**, front and rear; optional AC or DC fans
- Keyed locking latch available · optional **MW upgrade** to 28 GHz

## DESCRIPTION

The roomy JRE 1714 is the answer for rack-mounting your test system. A wide-opening side door allows easy access to devices inside, while vents front and rear provide good airflow, with optional fans for greater ventilation. The dual large C-size plates leave plenty of room for the connectors, filters and interfaces your devices need — which is exactly why this enclosure lands in I/O-heavy, permanently racked test setups. To rack-mount taller devices, the JRE 1720 offers the same C-size plates in a tall format.

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 C-size 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 1714 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 | <b>–100 dB</b> |
| to 3 GHz    | <b>–95 dB</b>  |
| to 6 GHz    | <b>–85 dB</b>  |

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  | <b>9" H × 15.75" W × 12.75" D</b><br><b>230 × 400 × 320 mm</b>    |
| Outside | <b>10.5" H × 17.25" W × 14.25" D</b><br><b>265 × 440 × 360 mm</b> |

### WEIGHTS & SHIPPING

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Weight          | <b>19 lb / 8.6 kg</b>                               |
| Shipping weight | <b>25 lb / 11.4 kg</b>                              |
| Shipping carton | <b>23" × 22" × 16"</b><br><b>585 × 560 × 410 mm</b> |

### I/O PLATES & CONNECTORS

|                  |                                    |
|------------------|------------------------------------|
| Plate size       | <b>Two JRE "C" size</b>            |
| Plate opening    | <b>7" × 7" (180 × 180 mm) each</b> |
| Field changeable | <b>Yes</b>                         |
| Ventilation      | <b>Four 60 mm honeycomb vents</b>  |
| Rack mounting    | <b>19" standard</b>                |

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 dual stainless steel hinges on a wide-opening side door
- 3/4" (19 mm) RF absorbing foam; 90 °C rating, UL 94V-0 flammability
- Optional AC or DC fans; keyed locking latch available

### CONFIGURING YOUR CHAMBER

Choose from ready-to-go, in-stock C-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](http://jretest.com) to organize your requirements.