

JRE 0814-2R-A

Dual 802.11a/b/g Pre-Configured Test Enclosure

Two independent 802.11a/b/g chambers in a single 19" rack space — each one fitted and tested with the full data, power and RF I/O set.



Two independent chambers, each with its own I/O set

AT A GLANCE

- **Two fully independent chambers**, each with its own door, I/O plate and sealed RF environment — run a transmitter in one and a receiver in the other
- **Both chambers arrive configured for 802.11a/b/g** — WLAN gear, VoIP handsets, access points and similar wireless devices
- **Per chamber**: two filtered DB9s (100 pF and 1000 pF) with DB9-to-RJ45 adapter, a 2500 pF filtered 4-terminal power strip, two SMA bulkheads and two 2.4–5.8 GHz whips
- **Standard 19" rack mount** — permanent installation without giving up bench space
- Roomy **9.5 × 6.5 × 12.5 inches** inside (240 × 165 × 320 mm) in **each** enclosure
- Excellent isolation: **–100 dB DC to 1 GHz, –95 dB to 3 GHz, –85 dB to 6 GHz**
- Shielded honeycomb vents in each chamber — optional fans for hot-running products

DESCRIPTION

The JRE 0814-2R-A puts two complete 802.11a/b/g test chambers in one 19-inch rack space. Each half is an independent 0814-series enclosure with its own door, its own C-size plate and its own sealed RF environment, and both arrive fitted and tested with the same data, power and RF I/O set — a natural fit for link testing with a transmitter in one chamber and a receiver in the other, or for doubling throughput on a production bench.

The I/O set in each chamber covers a working bench. Two filtered DB9s — one at 100 pF, one at 1000 pF — handle a wide range of data rates, with a DB9-to-RJ45 adapter for Ethernet-style wiring. The 4-terminal barrier strip

carries power at up to 100 VDC and 20 A behind 2500 pF of filtering, and two SMA bulkheads plus a pair of 2.4–5.8 GHz whips cover over-the-air work.

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.

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.

FITTED I/O SET — EACH CHAMBER

Data	Filtered DB9 ×2, 100 pF and 1000 pF
Adapter	DB9 to RJ-45
Power	4-terminal barrier strip, 2500 pF
	100 VDC @ 20 A, cover incl.
RF feedthroughs	Two SMA female bulkheads
Antennas	Two 2.4–5.8 GHz whips

Dust cover caps with tether chains on all RF connectors.

DIMENSIONS

Inside, each chamber	9.5" H × 6.5" W × 12.5" D
	240 × 165 × 320 mm
Outside, each chamber	11" H × 8" W × 14" D
	280 × 205 × 355 mm
Rack mounting	19" standard

WEIGHTS & SHIPPING

Weight	34 lb / 15.5 kg
Shipping weight	41 lb / 18.7 kg
Shipping carton	23" × 22" × 18"
	585 × 560 × 460 mm

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
- Stainless steel hinges on side-swung doors with secure latch handles
- C-size I/O plate in each chamber (7" × 7") — field-changeable

CONFIGURING YOUR CHAMBER

Need only one chamber? The JRE 0814-A is the same configuration as a single benchtop unit. Need a different mix of interfaces? The JRE 0814-2R has the same two rack-mounted chambers with empty, field-changeable C-size plates, ready for any combination from JRE's line of filtered interfaces.