

Raider IV

RF spectrum coverage
in a small, lightweight,
portable design



CACI's **Raider IV** is a portable, multi-channel, phase-coherent, radio frequency (RF) collection and analysis platform designed to tackle the challenges of today's modern signal environments and the emerging agile emissions of tomorrow. Raider IV, with its modular and durable design, nominal power consumption, and built-in live multi-tasking and analysis capabilities, is ideal for worldwide static and mobile monitoring of the electromagnetic spectrum and concurrent logical analysis of IoT device activities. Raider IV can be quickly deployed to operate independently or easily added as a force multiplier to an existing multi-sensor monitoring solution through either direct or remote control. With the addition of a new suite of automated tools and sweep speeds up to 2.4THz/sec., users will reap the benefits of a powerful, sensitive platform tuned to ensure the capture, real-time, and post collect analysis of sophisticated emitters and RF/ISM band threats. Raider IV's modernized GUI experience and intuitive software tools allow users, regardless of experience level, to efficiently operate the system with great confidence.

For more information, or
to purchase contact:
(410) 579-1300
csw-sales@caci.com

For more information about our
expertise and technology, visit:
[www.caci.com/
spectrum-monitoring](http://www.caci.com/spectrum-monitoring)

Multiple uses

- Real-time signal detection and analysis
- Indications and warnings
- Threat signal identification
- Wireless network detection and analysis
- RF signal/ISM device verification
- TEMPEST

Capabilities

- Flagship receiver and signals analysis solution with up to four high performance wideband, synchronized, independent receivers
- Permits continuous EMS sweeps while one or more receivers are dedicated to analysis tasks
- Upgradeable to 43.5 GHz
- Highspeed I/Q record
- Improved sweep speed, sensitivity and instantaneous bandwidth up to 200 MHz
- Analog IF and baseband signal output with support for resolution bandwidth down to 59 Hz
- Integrated GPS with high stability and precision
- High-speed external storage
- Low SWaP (meets travels restrictions)
- Dedicated ISM chip sets to independently monitor and analyze Wi-Fi 1/2/3/4/5/6, Bluetooth 5/LE, Zigbee (two frequency bands: 800/900 and 2400 MHz) and LoRa technologies



Hardware specifications

- Frequency range: 10 kHz – 18 GHz
- RF input: 50 ohms
- Noise figure: 8-9 dB typical
- Custom broadband microwave receiver
- Dynamic range: 78 dB
- Tuning resolution:
 - 4.5 Hz with GPS lock at 18 GHz
- Capture bandwidth: 780 MHz
- Dimensions: 12" x 13" x 6"
- Weight: 30 lbs
- Power:
 - 175W
 - 120/240 VAC 50/60 Hz
- Removable external storage (NVMe): 2TB
- Minimum discernible signal level (59Hz RBW)
 - 300 MHz: -137dBm
 - 18 GHz: -125dBm
- P1dB:
 - 300 MHz: -37 dBm
 - 18 GHz: -22 dBm
- Noise floor:
 - 300 MHz: -157.7 dBm/Hz
 - 18 GHz: -145.7 dBm/Hz
- Sweep speeds: 4 tuners
 - 61 kHz RBW: 2.4 THz/sec
 - 15 kHz RBW: 2.1 THz/sec
 - 3.8 kHz RBW: 580 GHz/sec
- Sweep speeds: 2 tuners
 - 61 kHz RBW: 1.2 THz/sec
 - 15 kHz RBW: 850 GHz/sec
 - 3.8 kHz RBW: 290 GHz/sec
- Sweep speeds: 1 tuner
 - 61 kHz RBW: 700 GHz/sec
 - 15 kHz RBW: 550 GHz/sec
 - 3.8 kHz RBW: 145 GHz/sec

This material consists of CACI International Inc general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms Regulations (ITAR), Part 120.10, or Export Administration Regulations (EAR), Part 734.7-10. (PRR ID829)



EXPERTISE and TECHNOLOGY
for National Security

At CACI International Inc (NYSE: CACI), our 25,000 talented and dynamic employees are ever vigilant in delivering distinctive expertise and differentiated technology to meet our customers' greatest challenges in national security. We are a company of good character, relentless innovation, and long-standing excellence. Our culture drives our success and earns us recognition as a *Fortune* World's Most Admired Company. CACI is a member of the *Fortune* 1000 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index. For more information, visit us at www.caci.com.

Worldwide Headquarters

12021 Sunset Hills Road, Reston, VA 20190
703-841-7800

Visit our website at:
caci.com

Find Career Opportunities at:
careers.caci.com

Connect with us through social media:

