

# MagpiePro



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CACI's MagpiePro is a cost-effective, IP54-designed RF training solution with real-world signal simulation capabilities targeted for demanding outdoor and industrial environments. MagpiePro transmits raw signals at user defined frequencies from 30MHz to 6GHz at up to 50 Watts, giving operators powerful simulation capabilities in a compact platform. MagpiePro's versatile 9-36V power input range ensures operational flexibility across diverse deployment scenarios while providing exceptional signal transmission fidelity and 2 TBs of raw signal storage capacity. MagpiePro's software improves the user experience with its intuitive graphical user interface and user-friendly signal transmission scheduler, which supports both novice and advanced users in building complex operational scenarios. MagpiePro is the perfect all-in-one solution for RF equipment testing, training, and signal analysis simulations.

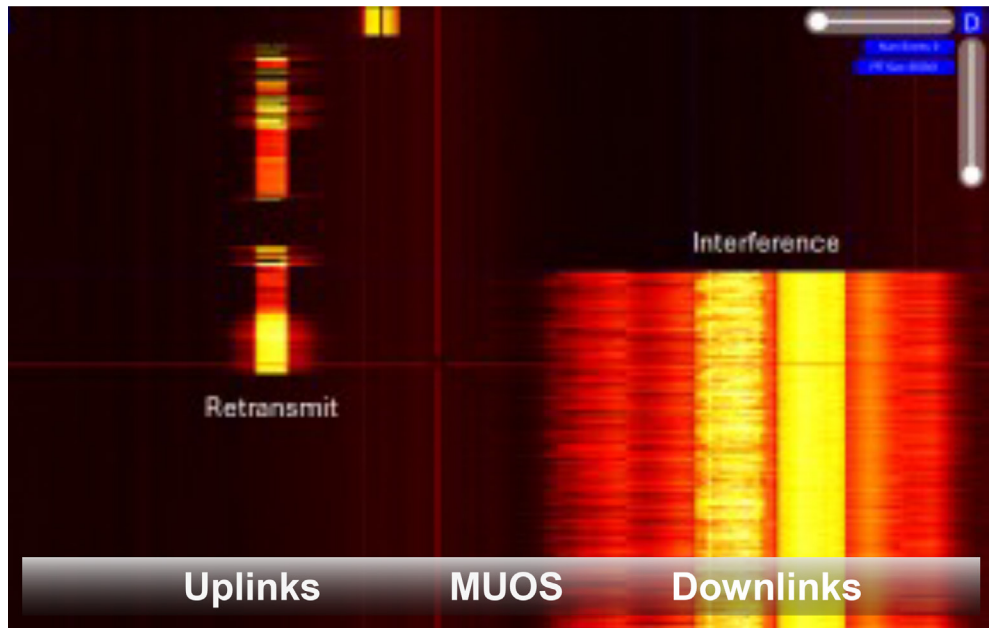
CACI

**MagpiePro's intuitive software and hardware design meets a range of customer missions:**

- Introduction of realistic signals for RF training applications.
- Testing and verifications of RF sensing equipment.
- Home station training applications.
- Threat signal reproduction for realistic training.
- Built-in hardware for future receive capability, enabling flexibility and expandability.

**FEATURES**

- 30MHz – 6GHz frequency response (unamplified, high band kit's amplifier maxed at 4GHz).
- 4 amplifier options.
- 20MHz – 2GHz (8-watt).
- 30 – 500MHz (50-watt).
- 600MHz – 2,4GHz (25-watt).
- 1.8 – 4GHz (12.5-watt).
- Ethernet control.
- Web user interface.
- Weather proof chassis.
- 2TB SSD storage.
- User-manager play back controls.
- Automated and remote functions allow for unattended operation.
- GPS location and time synchronization.
- Amplified and unamplified outputs.



**SWAP**

- Size: 12" L x 9.75" W x 8.75" H
- Weight: 16.25 lbs
- Power: 9 – 36VDC
- Amperage: .167Ah (On) to 2.1Ah (Tx)
- Operating Temperature: -20°C to +55°C

**IQ PLAYBACK FEATURES**

- Playback support of SG and Raider collected IQ captures.
- Up to 30MHz of instantaneous bandwidth.
- Support for filtering IQ based on operator placed bandwidth markers to down-select SOI from adjacent emissions.

**SOFTWARE FUNCTIONS AND CAPABILITIES**

- Web browser-based user interface.
- Resource manager 2/3 integration with spectral overlays indicating MagpiePro operations with SGx/RAIDER3.
- Manual playback with user selectable frequency and gain parameters.
- Hierarchical scheduling features supporting:
  - Individual signal play back objects frequency and gain parameters.
  - Signal playlists with loop, shuffle, gap and duration parameters.
  - 24-hour timed playlist sequencing.
  - Calendar scheduling of 24-hour day periods.
- Multiple stored schedules with export and import capability.
- Automatic schedule enable on system startup to simplify deployment.
- GPS time for schedule synchronization across Magpie/MagpiePro units.
- RF IQ file manager interface for upload, download and deleting of content.