

## The Sharpest Eyes of the Eagle

The AN/APG-63(V)3 provides powerful, adaptable radar technology, proven performance, and tactical flexibility that F-15 pilots can rely on. The newest member of Raytheon's F-15 radar family, it continues a tradition of innovative, highly reliable technology.

Superior situational awareness is a key benefit of this all-weather, multimode radar. Other benefits include multirole capability, long-term support, and easy future growth options.

Backed by the Raytheon promise of mission assurance, the APG-63(V)3 is the right choice for the F-15 — now and into the future.

Powerful • Adaptable • Reliable

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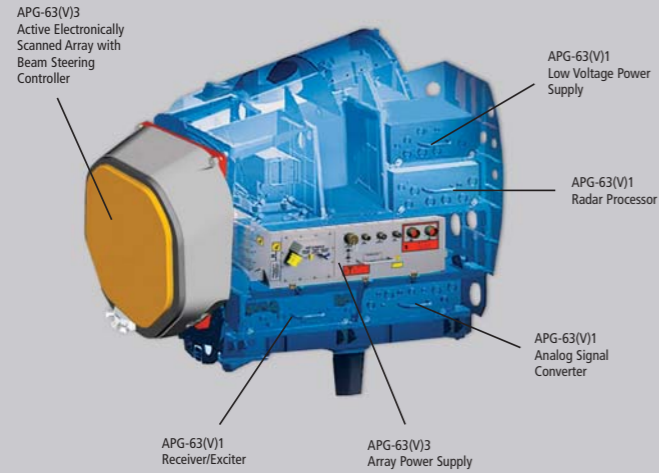
**Raytheon**  
*Customer Success Is Our Mission*

## AN/APG-63(V)3 AESA Radar



**Raytheon**

## AN/APG-63(V)3 Radar



### Transition to the 63(V)3 and beyond is easy

Raytheon's F-15 radar growth plan provides a smooth transition from one product upgrade to another. The 63(V)1 seamlessly integrates the 63(V)3's AESA components with minimal downtime. The 63(V)3 provides for similarly easy future transition.



**APG-63(V)1**

Modular design with easily upgradable Mechanically Scanned Array



**APG-63(V)3**

Refined AESA technology with Beam Steering Controller and modern Array Power Supply — offering improved weight, reliability, supportability

### Future Growth Path

- Additional radar modes, other software upgrades
- Higher resolution SAR imagery
- Leading-edge technology advances

The APG-63(V)3 provides advanced radar technology that F-15 pilots can rely on — with no doubt, on every mission.



### Powerful

The APG-63(V)3 increases pilot effectiveness with high-powered capabilities such as long-range detection and tracking, and enhanced situational awareness through multi-target search and track. Simultaneous multi-weapon support — a major force multiplier for pilots — is a primary feature. In addition, the radar allows long-range mapping with superior surface detection and target breakout.

### Adaptable

In air-to-air and air-to-surface operations, the APG-63(V)3 provides versatile multimission performance. Its multirole and self-protection capabilities — and greater tactical flexibility — increase pilot and aircrew effectiveness and safety. This advanced radar delivers optimal performance even in heavy clutter environments such as mountains, coastlines, and cities. It also provides interoperability with all U.S. aircraft, weapons, and systems.

### Reliable

The APG-63(V)3 provides the highest reliability in Raytheon's F-15 radar family. Ruggedly designed for years of service, it features extensive built-in test, enabling two-level maintenance. Other benefits include low lifetime maintenance costs, long-term availability, and outstanding support.

### Air-to-Air

The APG-63(V)3's long-range multi-target search and track capability provides superior situational awareness. Key features include:

- Look-down, look-up, all-target aspect
- Multiple simultaneous tracking and targeting capabilities
- Selectable search volumes

In addition, the radar maintains situational awareness during weapons employment. Its weapons capabilities include:

- Current F-15 weapons load support
- Multiple auto acquisition modes for short-range dogfight situations
- Large off-boresight weapon support for AIM-9 and guns

### Air-to-Surface

For air-to-surface operations, the APG-63(V)3 offers a growth path to all-weather, precision strike capabilities, including:

- Long-range imaging for fixed target detection
- High-resolution imaging for target recognition and weapon support
- Ground-moving target detection and track
- Long-range sea-surface target detection and track