

GROUND CONTROLLED APPROACH RADAR (GCA-2020)

Military Air Traffic Control Radar



Tactical Air Traffic Management

BENEFITS

Provides 3-in-1 capability for simultaneous airport surveillance radar (ASR), secondary surveillance radar (SSR) and precision approach radar (PAR)

Deploys rapidly with compact system for airspace management

Delivers safe and accurate air traffic control monitoring and precision landing

Allows tracking of aircraft in extreme environments and low-visibility conditions

Transports via one C-130H aircraft for expeditionary deployment and full operations with two C-130H aircraft



Photo credit: Master Sgt. Kevin J. Gruenwald

GCA-2020

The GCA-2020 provides a unique configuration that allows for both approach and landing control. In its transportable configuration, radar can be powered by electric generators without the need for base power. The system is also available in a fixed configuration.

TECHNICAL

- > Active electronically scanned array (AESA) technology
- > Solid-state gallium arsenide transmit/receive modules
- > Multiple waveforms and moving target detector (MTD) processing
- > Modular, open system architecture
- > Graceful degradation
- > Extensive built-in-test (BIT) capabilities

FEATURES

- > AESA technology using transmit/receive modules providing graceful degradation and high availability
- > Advanced pulse-doppler waveforms for operation in challenging environments
- > Supports multiple operator display positions for flexibility of operation
- > Exportable ASTERIX or CD-2 for ease of integration into the system of systems (SoS)
- > Display depicts three levels of weather intensity for safe aircraft vectoring
- > Available as transportable or fixed-site radar configurations
- > Antenna self-calibration
- > Fully compliant to GCS/TwO -0.0037epl mMC