

# ***RADARS & LAND SYSTEMS***



 **EMBRAER**

***PROTECTING***  
***NATIONAL ASSETS***  
***AND SOVEREIGNTY***



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# WORLDWIDE PRESENCE



Embraer was born Defense as a successful strategic plan by the Brazilian Government. The company was founded in 1969 and is recognized globally for the quality of its products and services. Privatized in 1994 and listed on the New York Stock Exchange, Embraer is a global leader in solutions for Defense and space, offering an integrated portfolio from aircraft to complex border surveillance systems.

Learn more about our products and services at [defense.embraer.com](https://defense.embraer.com).

- 16 OFFICES
- 24 WAREHOUSES
- 9 OWNED SERVICE CENTERS
- 71 AUTHORIZED SERVICE CENTERS
- 110+ FIELD SUPPORT REPRESENTATIVES
- 75+ FLIGHT SIMULATORS

# RADARS

FLEXIBILITY TO OPERATE IN DIFFERENT ENVIRONMENTS AND ACCURACY IN TARGET DETECTION

## IN SERVICE

## NEW DEVELOPMENTS

### LOW ALTITUDE AIR DEFENSE

#### COAAE

- Anti-Aircraft Artillery Operation Center
- VSHORAD Application

#### M60

- 3D Radar
- Range 60 km (32NM)
- Integrated IFF

### SURFACE SURVEILLANCE

#### M20

- Range 20 km (light vehicle)
- Fixed, Mobile and Transportable Versions

### MEDIUM RANGE AIR DEFENSE SURVEILLANCE AND EARLY WARNING

#### M200 VIGILANTE

- 3D Radar
- Active Electronically Scan
- Range 200 km (108NM)
- Integrated IFF

### MEDIUM ALTITUDE AIR DEFENSE & C-RAM MULTI-MISSION

#### M200 MULTI-MISSION & COUNTER-BATTERY

- 200 km range (108NM)
- Integrated IFF
- Multimode, simultaneous
- Weapon system guidance



# DEFENSE RADARS SYSTEM

*COMPREHENSIVE AND HIGH  
RELIABLE SOLUTIONS FROM GROUND  
SURVEILLANCE TO MEDIUM RANGE  
AIR DEFENSE AND MILITARY ATC*

Embraer's Radar and Land Systems solutions guarantee the protection of critical assets, creating layers of surveillance from the surface to medium heights and from very short to medium range, including air traffic management. In addition, Embraer develops Command and Control Centers and integrates all the systems it creates, both with each other and with legacy actuators, with total flexibility for the customer to personalize the solutions according to their specific needs, in a modular and scalable way.



# DEFENSE RADARS SYSTEM

## MEDIUM ALTITUDE

15,000 m  
49,212 ft

## LOW ALTITUDE

5,000 m  
16,404 ft

## GROUND

Surveillance

### MEDIUM RANGE AIR DEFENSE RADARS

- Phased array technology
- Air surveillance/early warning
- Search/defense & fire control
- Anti-UAV & Counter-Battery
- Integration readiness: air defense system, anti-aircraft artillery, Field Artillery & Mil ATC Systems

### AD OPERATIONS CENTER: C2/C3

- Command & control / communication

### SHORT RANGE AIR DEFENSE RADAR

- Anti-aircraft defense system
- IFF integrated
- Range 60 km/ 32 NM
- Readiness for C2/ C3 integration
- Transportable

### AD OPERATIONS CENTER: C2/C3

- Command & control / communication

### GROUND SURVEILLANCE RADAR

- Battlefield surveillance
- Border surveillance
- Critical infrastructure security
- Readiness for C2/ C3 integration
- Up to 8 radars remote controlled

# *RADAR* **M20**

The new generation military multi-mission sensor that brings operational flexibility, enhanced situation awareness and tactical support to ensure integrity of critical infrastructure and continuous operation on battlefield with high level of mission accomplishment.



# RADAR M20

The Embraer M20 radar provides enhanced monitoring data to ensure the security of borders and critical assets, assisting decision-making and possible aircraft engagement to combat counter-insurgency and threats or law enforcement actions. It can also be used in Close Air Support actions and is fully integrable with Embraer C4i systems or the ones customer already has.

**LAND BORDER  
SURVEILLANCE**

**PROTECTION OF CRITICAL  
INFRASTRUCTURES**

**PERIMETER  
SURVEILLANCE**

**CLOSE AIR  
SUPPORT**



# RADAR M20

## OPERATIONAL FLEXIBILITY

Easy integration, Transportability, Low crew operation and one radar with several applications

## ENHANCED TACTICAL SUPPORT IN BATTLEFIELD

Quickness in updating targets, Lower vulnerability, Electronic Protection Measures and Transportability

## ENSURE INTEGRITY AND CONTINUOUS OPERATION OF CRITICAL INFRASTRUCTURE

Easy integration, Transportability, Low crew operation and one radar with several applications

## HIGH CONFIDENCE IN MISSION ACCOMPLISHMENT

High Mission Reliability, Availability and Operation Predictability



# RADAR M20

## ADVANTAGES

- Proven in service – integrated border surveillance in Brazil and Mauritania.
- Effective 360° coverage with continuous rotation.
- 24 units in operation with + 87.000 operating hours.
- Scan / update rate (scan speed) HIGHER THAN MOST COMPETITORS.
- ITAR free.
- Embraer ability to generate integrated solution.
- Real effectiveness LPI – low probability of interception (radar difficult to be detect).
- Ability to customize/ flexibility.



# RADAR M20

## FEATURES

**Antenna:** Rotatory SAR  
(Synthetic Aperture Radar)

**Azimuth coverage:**  
360°

**Frequency range:**  
X band

**Target detections:**  
≥ 60 targets simultaneously

**Technology:**  
Solid State

**Detection range:**  
People walking: 8,3  
km

**Rotation speed:**  
7.5 or 15 rpm

Light vehicle: 17,5 km  
Heavy vehicle: 23km  
Boat: 600 m to 9

**Instrumented range:**  
≥ 40 km

km (depending on  
environment and RCS)

**Antenna TILT CONTROL:**  
electromechanical system

**Built-in**  
Coverage analysis tool

**Integration With EO/IR LRC**  
(Long Range Camera)

**Transportable**  
by 3 soldiers

## ADDITIONAL CONFIGURATION

### TACTICAL/TRANSPORTABLE MODULAR SOLUTIONS

M20 radar integrated in a Land Platform with a Long Range Camera EO/IR, for an optimized detection and identification and mission accomplishment at any terrain.



# RADAR M20

## OPERATIONAL FLEXIBILITY

## TACTICAL / TRANSPORTABLE MODULAR SOLUTIONS

The Embraer M20 radar has excellent operational flexibility, is light and provides 360° surveillance, as it rotates around its axis. It can be integrated with legacy systems and other electromagnetic and optical sensors and offers maximum mobility, being carried in a backpack, for example, or installed in vehicles and Towers.



# RADAR M20

## OPERATIONAL FLEXIBILITY

### DETECTION CAPACITY

The Embraer M20 radar offers several configurations and can be deployed in the field in multiple or alternative ways, either fixed or transportable, with the ability to control other sensors and perform target tracking and classification, with the highest scanning speed for a radar of its category. In addition, the M20 uses low power, giving it a low probability of interception, has electronic counter-measures and is capable of identifying enemy electromagnetic interference (jamming).



# *RADAR* **M60**

3D Tactical military low altitude air surveillance sensor that brings operational flexibility and enhanced situation awareness to ensure integrity of sites under protection with easy integration with legacy actuators.



# RADAR M60

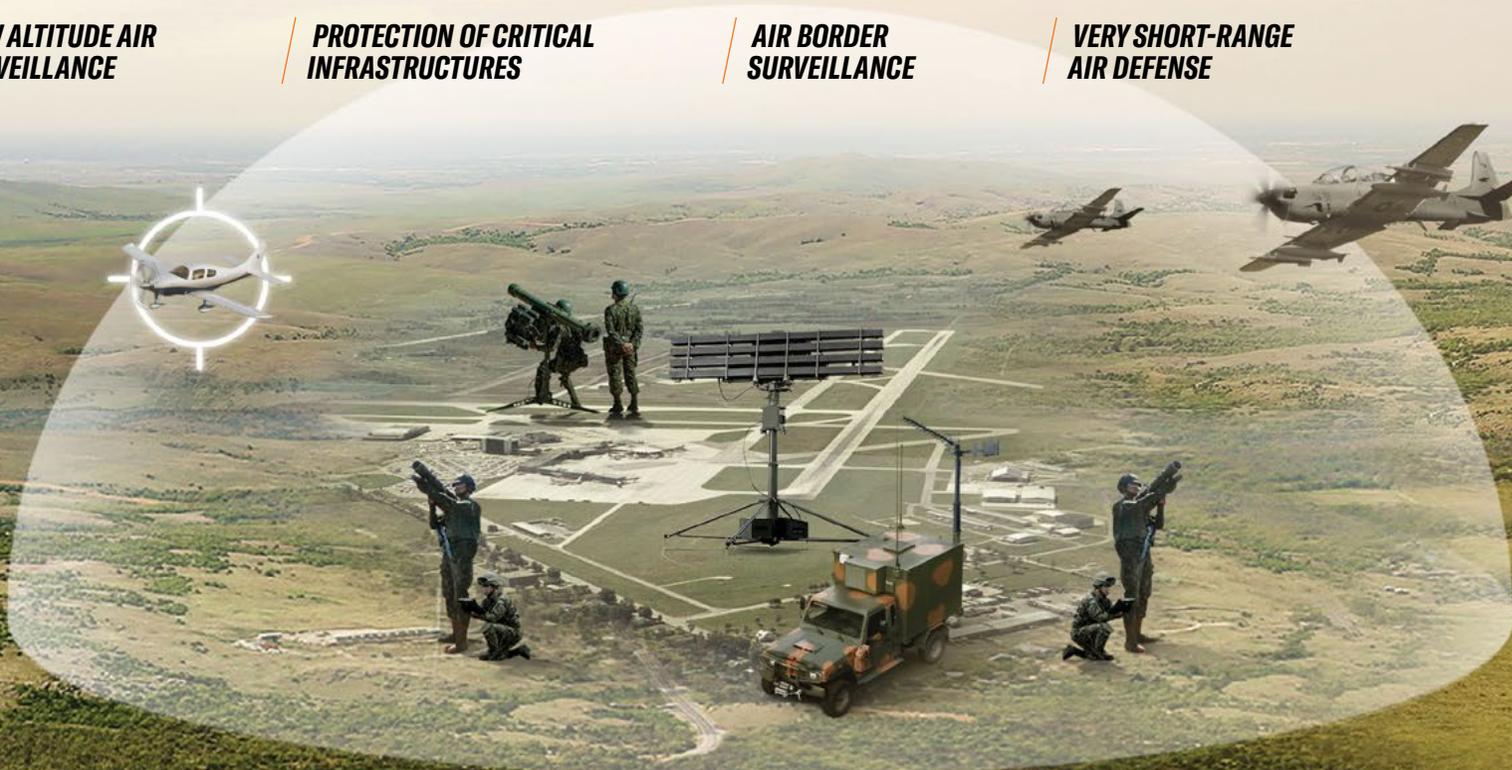
The Embraer M60 is a tactical low-altitude air surveillance radar that provides surface protection (air bases, oil refineries, hydroelectric/nuclear power plant) against air threats with a radius of 32 nautical miles (60 km), ensuring the image and control of the airspace. It gives first air coverage for the asset it is protecting and has short-range weapon system integration.

**LOW ALTITUDE AIR  
SURVEILLANCE**

**PROTECTION OF CRITICAL  
INFRASTRUCTURES**

**AIR BORDER  
SURVEILLANCE**

**VERY SHORT-RANGE  
AIR DEFENSE**



# RADAR M60

## ENHANCED SITUATIONAL AWARENESS

Enhanced target Reconnaissance and Identification Accuracy, User friendly Screens and Easy integration

## ENHANCED TACTICAL SUPPORT IN BATTLEFIELD

## HIGH CONFIDENCE IN MISSION ACCOMPLISHMENT

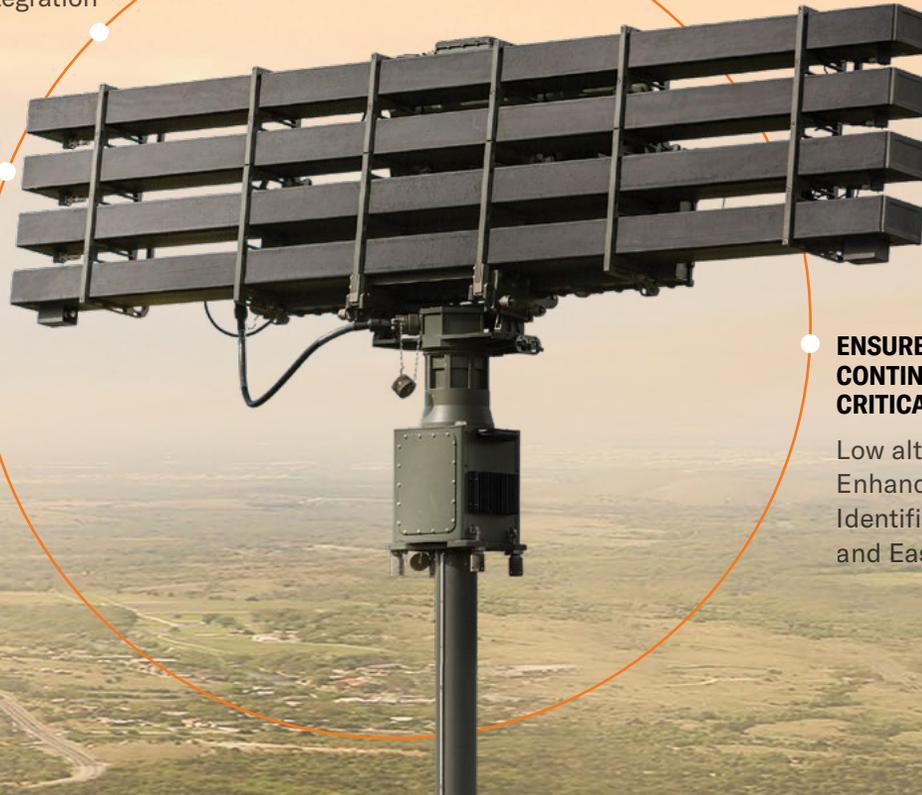
High Mission Reliability, Availability and Operation Predictability

## OPERATIONAL FLEXIBILITY

Able to operate in the most challenging and difficult to access environments (air, land and sea), One radar with more than one application, Tactical Transportable Radar, Easy integration

## ENSURE INTEGRITY AND CONTINUOUS OPERATION OF CRITICAL INFRASTRUCTURE

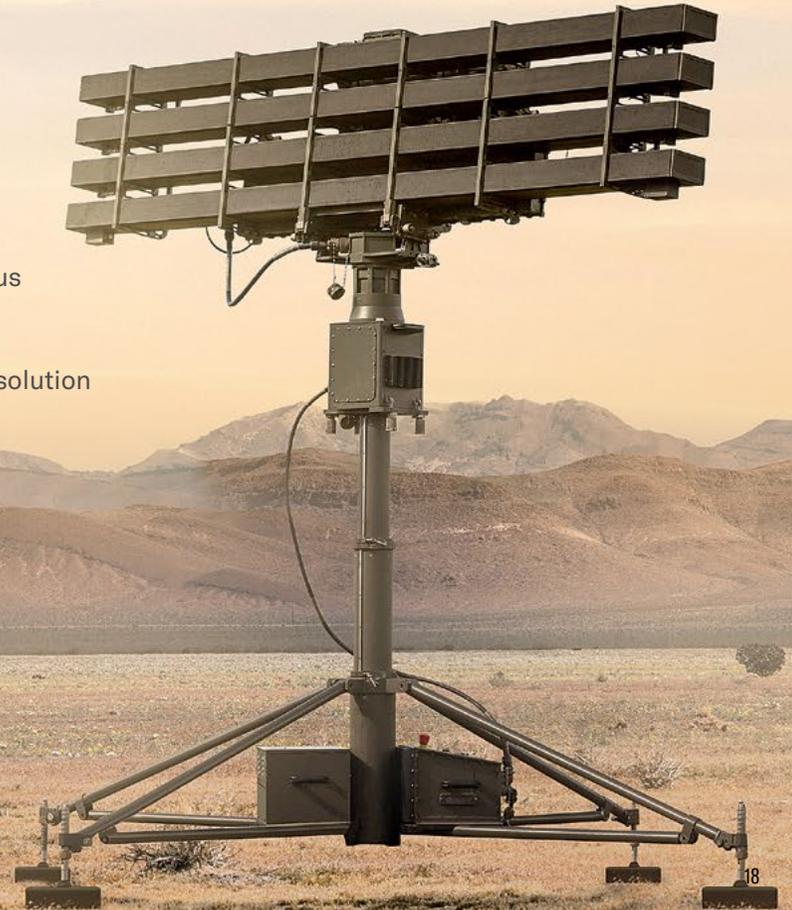
Low altitude air surveillance - Early warning, Enhanced target Reconnaissance and Identification Accuracy, Low vulnerability and Easy integration with legacy actuators



# RADAR M60

## ADVANTAGES

- Proven in service – integrated air defense in Brazil and Mauritania
- 33 units in operation supporting different missions in diverse environments for the Army, Air Force and Navy
- ITAR/EAR free
- Real effectiveness LPI – Low probability of interception (Radar difficult to be detect)
- Tactical Portable – transportability
- Fast deployment
- Effective 360° coverage with continuous rotation / IFF integrated
- Embraer ability to generate integrated solution
- Ability to customize / flexibility



# RADAR M60

## FEATURES

**3D radar:** Range, azimuth and elevation measurement

**Ceiling:**  
5000 m

**Antenna Tilt control:**  
Manual, mechanical

**Ready integration with**  
AAOC C2/C3

**Antenna:**  
rotatory, slotted waveguide

**Azimuth coverage:**  
360°

**Target classification:**  
Fixed and rotary wing

**Weight:**  
< 1000 kg

**Frequency range:**  
L band (IEEE), D (OTAN)

**Target detection:**  
up to 60 targets simultaneously

**Deployment and start operating:**  
15 min by 3 soldiers

**Technology:**  
Solid State, coherent pulse-doppler

**Scan rate:**  
4S (15 rpm) or 8S (7.5 rpm)

**Primary range:**  
32 NM (60 km)

**Variable PRF**  
(Pulse Repetition Frequency)

**Secondary range:**  
44 NM (82 km)

**Electronic protection**  
measures



# RADAR M60

## ADDITIONAL CONFIGURATION

## TACTICAL / TRANSPORTABLE MODULAR SOLUTIONS

- Coordination, control and use of weapon systems and alert control.
- Continuous monitoring of the evolution of the air situation, and the coordination of the established air defense.
- Air vectors transmission, using ASTERIX protocol.
- Manage up to 4 Firing Units.
- Able to receive data from several radars.
- Exchange and coordinate information with other actuators and Operational Control Centers.
- Powered by generator or from power grid.
- Air transportable by the KC-390.

### COAAE

Air Defense Operations Center



# *RADAR* **M200** **VIGILANTE**

Complete air early warning supporting to point defense solution for the protection of critical infrastructures and essential assets.



# ***RADAR M200 VIGILANTE***

The Embraer M200 Vigilante is a transportable tactical radar that offers 108 nautical miles early warning and surveillance capabilities, with low acquisition and operating costs, designed to be easily deployed in military field operations and transported on airlifters such as the Embraer KC-390 Millennium.

***AIR  
SURVEILLANCE***

***EARLY  
WARNING***

***IDENTIFICATION  
FRIEND OR FOE (IFF)***

***MILITARY AIR TRAFFIC  
CONTROL***



# RADAR M200 VIGILANTE

SECURITY OF INTEGRITY AND CONTINUOUS OPERATION OF CRITICAL AND/OR MAIN LOCAL INFRASTRUCTURES GUARANTEED BY A PROMPT RESPONSE

MULTI-MISSION

FAST UNFOLDING

INCREASED TACTICAL EFFECT ON THE BATTLEFIELD

MINIMUM TRANSPORT LOGISTICS

MISSION ACHIEVEMENT GUARANTEE

INCREASED SITUATIONAL AWARENESS



# RADAR M200 VIGILANTE

## ADVANTAGES

- Range 108NM (200km)
- Digital technology.
- Modular and scalable architecture.
- Integrated primary and secondary radar functions.
- National design and development: freedom for customization and assured local support.
- Technological updates and developments in Brazil.
- Ready for integration with:
  - Air defense system.
  - Anti-aircraft artillery.
  - Military Air Traffic Control.
- Low acquisition and operating costs.



# RADAR M200 VIGILANTE

## FEATURES

**Antennae:** AESA, 4 independent fixed panels (primary) and 1 rotating (IFF)

**3D radar:** Distance, azimuth, speed and elevation measurement

**TR modules:** Solid state, modular and scalable electronics

**Instrumented range:**  
108 NM, 200 km

**Secondary operation modes:**  
1, 2, 3/A, C and provision for 4 BR

**Detection probability and false alarm probability:** 80% and 10-6

**Elevation range:** 49,200 ft ceiling, 15 km @ 50 km distance

**Detection precision:**  
150 m (distance); 2° (azimuth)

**Resolution precision:**  
300 m (distance); 5° (azimuth)

**Scan modes:** ≤ 1s scan rate (fast); up to 8s scan rate (slow)

**Target classification:**  
Fixed and rotary wing aircraft

**Autonomy:** 48 hours (integrated diesel generator)

**Hydraulic system:** Radar head elevation and leveling system integrated into the shelter

**Dimension / weight:** Installed in a shelter ISO 15" / 10 tons

**Transport:** Truck or 1 KC390 military CARGO aircraft



# **RADAR M200 MULTI-MISSION & COUNTER-BATTERY**

*MEDIUM ALTITUDE, SURVEILLANCE, AIR DEFENSE  
& C-RAM (COUNTER ROCKET, ARTILLERY AND  
MORTAR), ANTI-UAV CAPABILITY*

Next step in the evolution of the high-added value AESA radar family with all the radar technologies developed in Brazil, ensuring sovereignty and protection against present and future threats.



# M200 MULTI-MISSION & COUNTER-BATTERY

## A SINGLE RADAR, MULTIPLE MISSIONS

The Embraer M200 Multi-Mission & Counter-Battery is a transportable tactical radar optimized for multirole missions, gathering the Embraer knowledge and capabilities in radars development, was designed to supporting comprehensive and simultaneous missions, being a step ahead, using high-end technologies, with all capabilities in the same hardware and being able to support a heavier capacity weapons system.

### AIR SURVEILLANCE

Non-collaborative target tracking. Identification of friendly aircraft.

### EARLY WARNING

### IDENTIFICATION FRIEND OR FOE (IFF)

### SEARCH / DEFENSE

### FIRE CONTROL

### COUNTER-BATTERY

### MILITARY AIR TRAFFIC CONTROL

### MID-RANGE AIR DEFENSE

### OPTIMIZED TACTICAL RADAR WITH ENHANCED CAPABILITIES



# M200 MULTI-MISSION & COUNTER-BATTERY

## ADVANTAGES

**Multi-mission:** configurable panels to perform specific missions, independently and simultaneously

### Primary multimodes:

- Surveillance (108 NM, 200 km)
- Search / Defense (65 NM, 120 km)
- Fire Control (65 NM, 120 km)
- C-RAM (32 NM, 60 km)

**Primary and secondary radar functions integrated**

**Modular** and scalable architecture

**Independent design and development:** freedom for customization and assured local support

**Technological updates** and evolutions in Brazil

**Transportable** by container carrier truck as well as by C-130 or Embraer KC-390 Millennium

### Ready to be integrated with:

- Air Defense System
- Anti-Aircraft Artillery
- Military Air Traffic Control
- Field Artillery



# M200 MULTI-MISSION & COUNTER-BATTERY

HIGH EFFECTIVENESS IN TARGET DETECTION

## PRIMARY RADAR

- Technology: Phased Array Antenna (AESA), with 1 rotating or steering panel (primary)
- Range/Altitude: 0 – 20 km (AD)
- Range/Horizontal: 200 km (AD)
- Surveillance, Search and Fire Control, Military Air Traffic Control and C-RAM modes
- Software Defined Radar

## SECONDARY RADAR / IFF

- Mode: 1, 2, 3/A, C
- Provisions for: Mode 4 (encrypted)
- Range/Horizontal: 200 km (108 NM)

## PROVISIONS FOR INTEGRATION WITH

- Air Defense System
- Anti-aircraft Artillery
- Military Air Traffic Control
- Field Artillery



M200 MULTI-MISSION & COUNTER-BATTERY

MULTIMODE

SURVEILLANCE (AD)

DEFENSE / SEARCH

FIRE CONTROL

COUNTER-BATTERY

# M200 MULTI-MISSION & COUNTER-BATTERY

## FEATURES

**Antennae:** AESA, 1 rotating or steering panel (primary) and 1 rotating (IFF)

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**TR modules:** Solid State, modular and scalable electronics

---

**Primary operation modes:**

Surveillance (108 NM, 200 km), search / defense (65 NM, 120 km), fire control (65 NM, 120 km), C-RAM (32NM, 60 km)

---

**Secondary operation modes:**

1, 2, 3/A, C and provision for 4 BR

---

**Target detection:** up to 150 targets simultaneously

---

**Weapons system integration:**

Firing guidance up to 16 air threats (AD)

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**Software Defined Radar - additional modes:**

ATC, weather, ground and maritime surveillance, PAR and ISAR

---

**Electronic protection measures:** Identifies jamming source azimuth

---

**Detection probability and false alarm**

**probability:**  $\geq 80\%$  and 10-6

---

**Elevation range:**

65,600 ft ceiling, 20 km

---

**Scan modes:**  $\leq 1s$  SCAN RATE (fast); up to 6s SCAN RATE (slow)

---

**Target classification:** fixed and rotary wing aircraft, cruise missiles and UAVs

---

**Remote operation and control**

with automatic alert system for operator

---

**Self-contained Radar Shelter:** radar head elevation, leveling system and power generator integrated into the shelter

---

**Dimension / weight:** installed in a shelter ISO 20" / 15 tons

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**BIT:** Built-In Tests with a distinguished maintainability concept that allows module replacement within few minute

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# LAND SYSTEMS / TERRITORIAL MONITORING & PROTECTION

Embraer Land Systems are a complete solution developed for territorial monitoring and protection, including sensors, communication infrastructure and command and control centers (C2s), with full integration between all parts. It can be implemented modular and scalable, combined with customers' legacy systems.



# LAND SYSTEMS

## INTEGRATED DEFENSE AND SECURITY SOLUTIONS FOR BORDER SURVEILLANCE AND STRATEGIC STRUCTURES PROTECTION

Embraer offers a wide range of sensors, communication systems and Command and Control Centers, which can be customized according to the scale of customer needs, from complete and complex packages to small solutions for local use.



### SENSORS



### COMMUNICATION



### COMMAND AND CONTROL

# ***ELECTRONIC WARFARE SENSORS CAPABILITIES***

Embraer has developed a wideband COMINT receivers family and DF & Monitoring antennae that meets the requirement the most harsh environment, supporting a complete Intelligence cycle since signals collection, automatic fusion of data and network analysis to the reporting generating for decision making.



# ELECTRONIC WARFARE SENSORS CAPABILITIES

## EW / COMINT ESM STATION



### FEATURES

**Frequency BAND:**  
HF, VHF and UHF

**Instantaneous bandwidth:**  
20 MHZ (HF) AND 80  
MHZ (V/UHF)

**Modular** wideband  
digital receiver

**Technology:** AOA (Angle Of Arrival),  
using interferometry and Watson watt

**Channels:**  
6 or 10 parallel channels (depending  
on the HW configuration)

**Antenna:** Direction finding and  
monitoring antennae integrated

**Processing units** and  
wideband recording system

**Electromagnetic Spectrum  
Survey** for optimized  
installation

**Network connection:** Integration with  
regional and national monitoring center

SENSORS

# COMINT SYSTEM ARCHITECTURE

SENSORS

FIXED ESM DF  
& MON V/UHF



TACTICAL ESM  
H/V/UHF & SHF



FIXED ESM  
DF HF



EW AIRBORNE DF V/  
UHF & SHF



DATA FUSION  
SYSTEM & ANALYSIS

**RMC**



INTEL. DB

**REGIONAL  
MONITORING  
CENTRE**

DATA FUSION  
SYSTEM & ANALYSIS

**NMC**



INTEL. DB

**NATIONAL  
MONITORING  
CENTRE**

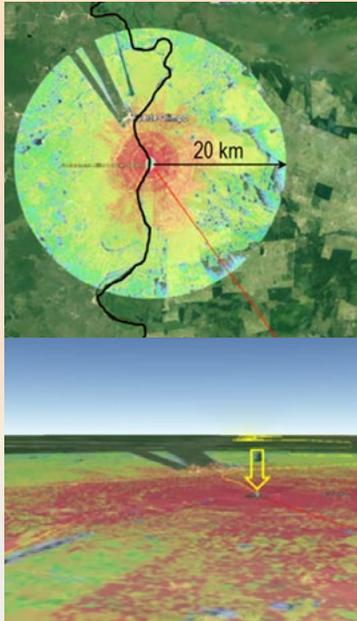
SENSORS

# COMINT SYSTEM ARCHITECTURE

## SURVEILLANCE & RECONNAISSANCE SYSTEM ARCHITECTURE

SENSORS COVERAGE SIMULATION

### PLANNING



### SENSORS



#### TRANSPORTABLE

Radar & thermal binocular

#### FIXED

Radar & Long Range Camera

#### MOBILE

Radar & Long Range Camera  
Mobile thermal binocular system

COMMAND AND CONTROL

### ERC2 & C2SW



COMMUNICATION

# ACCESS NODE

## FEATURES

**Solution** designed to support Soldiers, Vehicles and Fixed Stations

**Multiple** communication technologies integrated on a single heterogeneous network

**HF, VHF, UHF, L band and HCLOS** Systems

**Mobile** network designed to suit the military organic structure and needs

**High throughput** to support multiple video streams simultaneously, data and voice transmission

**Provides the link** between deployed mobile sensors and Command and Control Centers

**Secure** communications with cryptography and ECCM (Electronic Counter-Countermeasures)

**Seamless** interface to Strategic Networks



COMMUNICATION

# ACCESS NODE

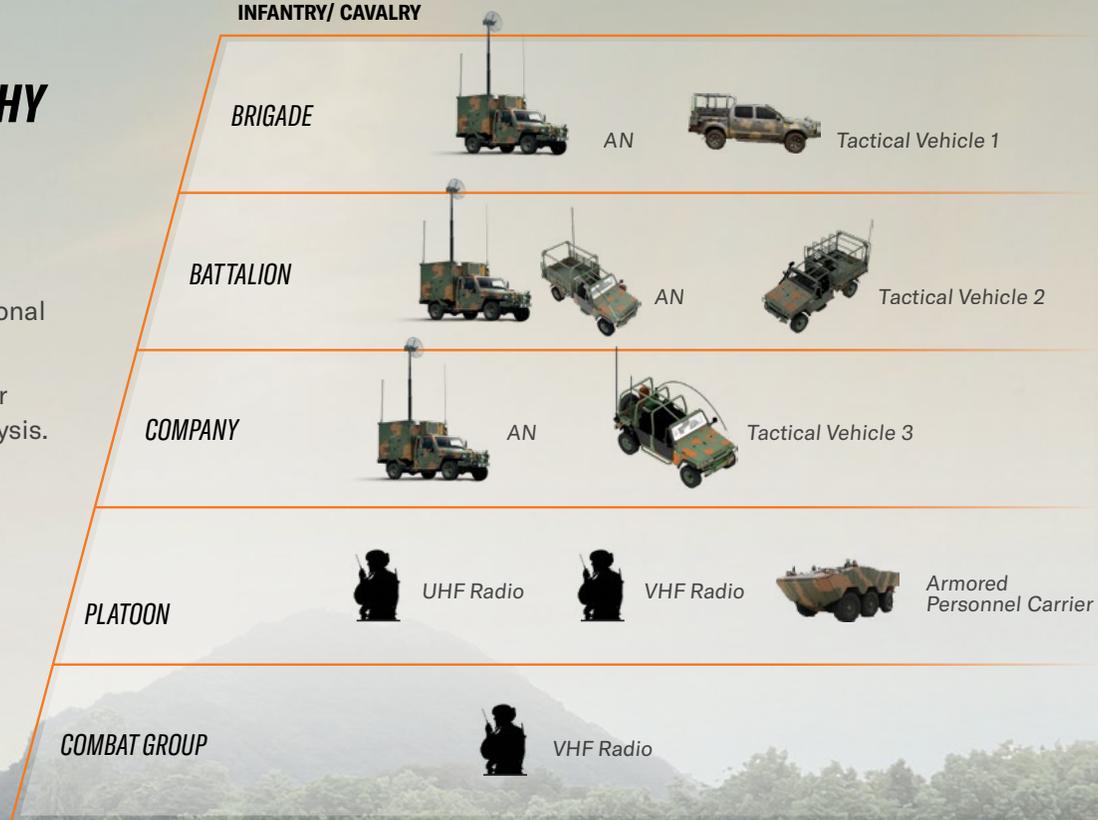
## TACTICAL COMMUNICATION HIERARCHY

### SOLDIER COMMUNICATION

- Both Handheld and Manpack tactical radios.
- GPS reports of tactical radios enable a real-time situational awareness throughout the chain of command.
- Wearable tactical cameras provide live video streams for upper echelons and record locally for post mission analysis.

### TACTICAL VEHICLES COMMUNICATION

- Amplified tactical radios for extended range.
- Rugged integration to withstand harsh environment.
- Tactical routing capabilities to integrate heterogeneous communication technologies.
- Rugged computers provides situational awareness to the vehicles of commanders.



COMMAND AND CONTROL

# MOBILE C2 CENTER

Embraer develops tactical mobile Command and Control Centers (C2) for local operations with several customizable layouts and configurations, including communications capabilities, giving customers maximum flexibility.



COMMAND AND CONTROL

# MOBILE C2 CENTER

Embraer develops tactical mobile Command and Control Centers (C2) for local operations with several customizable layouts and configurations, including communications capabilities, giving customers maximum flexibility.

## FEATURES

### Mobile Command and Control Center

provides the infrastructure for forward operation command posts

**IT features includes:** VoIP phones, PC terminals, notebook's, displays, WLAN, video conference and network switch

**Network, VoIP and Video Conferencing** integration with fixed C2 Centers via Tactical and Strategic networks

**Tactical Communication** vehicle provides routing and call management features to the mobile C2 Centers

**Access to Tactical and Strategic** networks provided by a Tactical Communication Vehicle

**Configurations:** Brigade level and unit level



# BORDER SURVEILLANCE SYSTEMS

## SUCCESS EXPERIENCE



# 6500+

REQUIREMENTS  
CONTRACTED,  
INTEGRATION  
AND SAFETY

SISFRON is one of the largest military programs in the world and aims to protect Brazil's borders – an extent of 16,886 kilometers (10,492 miles) between the country and ten neighbors. It was born with the purpose of strengthening the presence of the State on the terrestrial border strip, which encompasses ten states and 27% of the nation's territory. An important mission with which Embraer was entrusted by the Brazilian Army, becoming responsible for SISFRON's deployment and integration. This challenging program showcases Embraer's strength and capacity to act in the protection and defense of an entire country.



# SISFRON PHASES

16,886 KM

FULL SCOPE OF THE PROJECT

27%

OF THE NATION'S TERRITORY

10

NEIGHBOR COUNTRIES

SEVERAL OPERATIONAL AMBIENTS

URBAN

RURAL

WETLANDS

FORESTS

PHASE 7

✓ PHASE 2

IN EXECUTION

Ongoing project expansion

✓ PHASE 1

COMPLETED

Field proven with high performance & availability

PHASE 3

Expansion – CMS

# SISFRON PHASES

## SISFRON IN NUMBERS

### PHASE 1

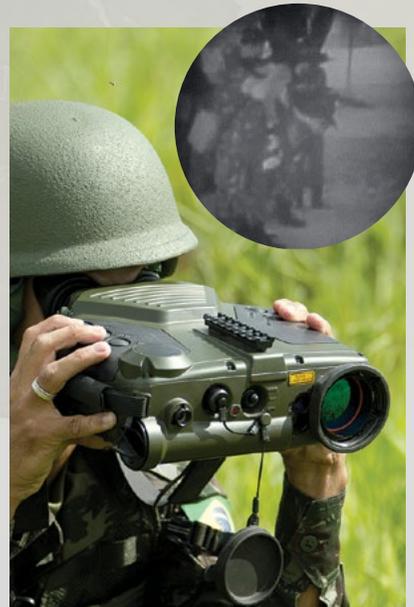
300+

VEHICULAR MODULES  
FOR DIVERSE APPLICATION



600+

OPTRONICS SYSTEMS FOR  
FIXED OR PORTABLE USE



2600KM+

DEDICATED NETWORK WITH  
99,99% AVAILABILITY



1300+

TACTICAL RADIO SETS FOR VOICE  
AND DATA TRANSMISSION



# INTEGRATED LOGISTICS AND SUPPORT

Embraer's Radars and Land Systems have a complete support solution, with services and parts packages fully customizable according to the client's wishes and needs.

Coordinating the various Services & Support options available, Embraer maintains a Customer Contact Center working 24 hours, 7 days a week, ready to provide the necessary answers and solutions, and fully committed to keeping the Sensors, Communications Infrastructure and Command & Control Centers always ready for the mission.



**ADAPTED LOCAL SUPPORT TO TAKE ADVANTAGE OF EXISTING RESOURCES**

**GUARANTEE OF AVAILABILITY AND RELIABILITY LEVEL**

**SYSTEMS DESIGNED TO ENSURE EASY MAINTENANCE**

**SUPPORT THE WHOLE LIFE CYCLE**

# INTEGRATED LOGISTICS AND SUPPORT

24 X 7 OPERATION, SURVEILLANCE  
AND SERVICE CENTER (NOC)



PREVENTIVE AND  
CORRECTIVE MAINTENANCE



EMBRAER RADARS & LAND SYSTEMS

# COMPLETE PORTFOLIO

**M20**



**M60  
COAAE**



**M200 VIGILANTE**



**M200 MULTI-MISSION & COUNTER-BATTERY**



**ISR-M**



**COMINT  
ESM STATION**



**ACCESS NODE**



**MOBILE C2 CENTER**



# EMBRAER, PRESENT IN ALL DEFENSE ENVIRONMENTS

EMBRAER IS A GLOBAL COMPANY WITH MORE THAN 55 YEARS OF AEROSPACE EXPERTISE. In addition to the A-29 Super Tucano, an advanced training and light attack aircraft, and the KC-390 Millennium, a multi-mission military transport aircraft, it offers a complete line of integrated solutions for air, space, sea, land, and cyber systems. With more than 9000 aircraft delivered and solutions present in more than 60 Governments and Armed Forces, Embraer offers solutions for land applications such as Command and Control (C4I), sensors, ISR (Intelligence, Surveillance and Reconnaissance), information systems, communication, border monitoring and surveillance, naval combat and management systems, and integration of geostationary satellites for communication and observation. In the cyber area, it provides complete solutions for business protection and defense and security applications.

