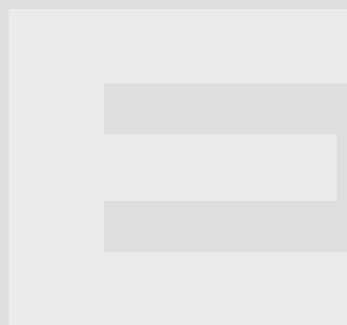




**ISR**

*Information dominance in the air,  
on the ground and at sea*



**THE ANSWER IS E**



**EMBRAER**



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EXPLORE



## ISR for air, ground and sea.

Information superiority and situational awareness lead to success in warfare. Integrating them into an effective system is essential for providing decision-makers with the precise knowledge required to enable air, ground and sea superiority.

Based on the proven ERJ 145 platform and integrated with state-of-the-art mission equipment, Embraer's family of intelligence, reconnaissance and surveillance (ISR) aircraft offers cutting-edge

technology, low downtime and a high degree of readiness, combined with low acquisition and operation costs.

It's no wonder armed forces around the world rely on Embraer defense systems for intelligence, surveillance and reconnaissance.





## The aircraft for every arena. The EMB 145 AEW&C

The Embraer Airborne Early Warning and Control (AEW&C) aircraft is the most advanced and affordable air-to-air ISR aircraft available on the market. Short response times allow it to reach high operational altitudes quickly and to cover broad areas. The aircraft is outfitted with a unique, high-performance, multi-mode active phased-array AEW radar, an advanced data-link suite and a powerful command and control system.

The key feature of the EMB 145 AEW&C is a compact, state-of-the-art mission system. Built by Ericsson Microwave, the ERIEYE has intelligent sensor technology fully integrated with IFF secondary

radar and a user-friendly command and control system capable of detecting and tracking both sea targets and airborne targets over land and water, all with an instrumented range far beyond the line-of-sight horizon.

The EMB 145 AEW&C can operate for more than seven hours without refueling and can be deployed on a wide range of all-weather civilian and military applications, including: air traffic control, situational awareness, area surveillance, multiple fighter vectoring, data-link management and ELINT/COMINT (ELectronic INTelligence/COMmunications INTelligence) intercept correlation.







## Around-the-clock intelligence. The EMB 145 RS/AGS

The Embraer Remote-Sensing Air-to-Ground System (RS/AGS) is an advanced surveillance and intelligence aircraft capable of providing real-time imagery and signals intelligence over ground objectives.

Imagery data collection missions are performed with RF, E/O and IR sensors including: SAR (Synthetic Aperture Radar), a day/night and all-weather multi-mode sensor; an electro-optical sensor capable of acquiring imagery from the visible to the thermal IR spectrum; and a FLIR system.

Equipped with high-sensitivity SIGINT (SIGnal INTelligence) systems, the EMB 145 RS/AGS is also capable of monitoring and locating electromagnetic signal sources at very long distances. All data acquired by the on-board sensors are transmitted in real-time to ground stations through an advanced wide-band data-link system.

On the ground, the collected images and SIGINT data are analyzed and fused to produce an integrated intelligence report.







## Taking control of the sea. The P-99



The P-99 is a new-generation aircraft designed for missions ranging from maritime patrol to complex anti-surface/submarine operations, in which an extensive array of smart and conventional weapons is employed.

The aircraft responds quickly to commands and is equipped with real-time data links, synthetic aperture radar (SAR) imaging, inverse SAR (ISAR), long-range electro-optical systems, multi-spectral systems, the ELINT/COMINT system and self-defense systems to perform a broad scope of maritime patrol missions, including:

- Coastal Warfare
- Anti-Surface Vessel Warfare (ASVW)
- Anti-Submarine Warfare (ASW)
- Drug Interdiction
- Illegal Immigration
- Peacekeeping Surveillance & Monitoring
- Territorial Water & Fishery Patrol
- Special Operations (including electronic reconnaissance)

Operating crews will appreciate a cabin design featuring human-machine interfaces that ensure superior mission performance.





ENABLE

## Catering to customers' every need.

It all boils down to a simple equation – less time on the ground means more time in the air, more missions flown and fewer aircraft sidelined for maintenance during critical moments.

Our customer service is available 24 hours a day, 7 days a week from service, technical support and spare parts distribution centers in Brazil, the U.S., France, China and Singapore. A computer-based communication system, equipped with web infrastructure, interconnects all spare parts distribution and service outlets, and helps customize and speed services.

We also provide a full array of training programs for pilots, mission systems operators, mechanics and ground crews by means of full-flight simulators and computer-based, interactive classroom instruction.

All of this enables customers to enhance the efficiency and effectiveness of their missions.



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