

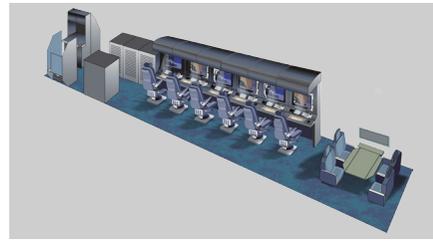
DEFENCE AND SPACE

C295 AEW





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COMMUNICATION SUITE

The Communication Suite includes V/UHF, HF, SATCOM, VOIP, Secure Voice, Integrated Intercom and Secure Data Links – enabling Net-Centric interoperability. Choices of available data-links include NATO standard or user specified links.

ELTA's radar and sensor suite

Introduction

Airbus Defence and Space, a leader in multi-mission aircraft, and IAI/ELTA, a leader in advanced Airborne Early Warning Systems, present the new C295 AEW&C.

An integrated sensor suite, together with advanced communication and data-link systems, installed on the proven, low operating cost C295, provide an optimal and affordable high-performance interoperable AEW&C solution suited for modern defence and national security missions.

The C295 AEW&C supports a wide variety of missions such as long range aerial and maritime surveillance, Airborne C4ISR, homeland security, emergency and relief command and control, event security, drug interdiction, maritime control and network centric operations.

The C295 AEW&C

The C295 is designed to meet the expanding and sophisticated operational requirements of today's C4ISR missions.

The mature and proven C295 aircraft provides a cost-effective operational capability unmatched by any other aircraft in its category, sharing a high level of commonality with the military transport and maritime patrol versions already in operation.

Exceptional flight and ground performance, state-of-the-art integrated avionics system and the longest cabin in its class make the C295 the ideal choice for a multi-mission aircraft.

The advanced low-weight design of the C295 AEW&C sensors allows for minimal weight and drag increase, maintaining the familiar C295 advantages.

- Time on station at 200 nm range: up to 8 hrs
- Typical altitude of operation: 20 to 24 Kft (at ISA conditions, 45 min fuel reserve)
- In-flight refuelling for persistent surveillance

Radar

The Active Electronic Steering Array (AESA) radar is installed in a fast rotating dome located high above the fuselage providing full 360° coverage. During the radar antenna's rotation, the radar beams can be electronically steered in azimuth and elevation. For special high priority target surveillance the Radar can remain stationary and provide highly accurate tracking of targets within a 120° sector.

The 4th generation AESA radar provides adaptive scan and track regimes, accurate 3 dimensional tracks, height measurements, electronic beam stabilization during banking, low false alarm rates and high revisit time.

IFF/AIS

The dome mounted IFF antenna allows for 360° coverage and accurate interrogation using dedicated transmit and receive modules. In Addition the AIS unit receives vessel information, which can be correlated for maritime targets.

Signal Intelligence (SIGINT)

The Electronic Support Measures (ESM) and Communication Support Measures (CSM) subsystems provide high probability of Signal Interception and high bearing accuracy. The subsystems intercept, analyze, identify, locate and monitor communications networks, and are designed to build a real time tactical and strategic Electronic Order of Battle (EOB).

Self-Protection Systems (SPS)

C295 is a simple but robust platform, with proven reliability and deployability in conflict operations and homeland security missions.

It is provided with an integrated SPS system with 360° coverage, including radar warning receiver functionality provided by the ESM / ELINT, Missile Approach Warning System (MAWS) employing radar or IR technologies. The SPS countermeasures include Chaff and Flares Dispensers (CFD).



OPERATORS WORK AREA

The cabin provides ample space for work stations, command post, and rest area. With the longest cabin length in its category, up to six operators can enjoy a spacious work and rest environment, contributing to lower mission fatigue.

The Operator Work Stations (OWS) consist of the proven Fully Integrated Tactical System (FITS) - a flexible tactical management system which integrates onboard and network sensors in a single Order of Battle Picture. All onboard sensor operation is performed through the FITS and integrated sensor data is presented to the operator in user defined formats and displays. Each OWS can be configured according to the operator's mission role.