



SureSight® I-Series™ CMA-2600i

Integrated Sensor System for Enhanced Flight Vision System applications



Visual Scene



Infrared Scene

Comparison of actual flight test results at CAT I decision height

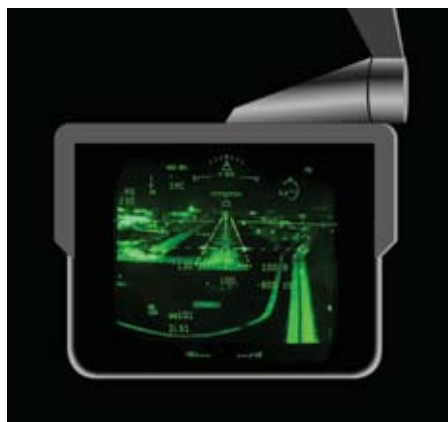
**Improved,
second-generation
Integrated Sensor
System, providing
superior video
performance in
adverse visual
conditions**

Based on the world leading
CMA-2600 Integrated Sensor
System

- In service on several aircraft platforms
- Superior in-service reliability
- Single, lightweight LRU to minimize impact on aircraft installation

Expands the I-Series family of
Integrated Sensor Systems

- Improves video performance by better balancing the display of high-intensity sources (“hot spots”) within the overall scene
- I-Series family now includes the CMA-2600, CMA-2600i and the CMA-2700 Integrated Sensor Systems



Head Up Display



Head Down Display

SureSight® I-Series™ CMA-2600i Integrated Sensor System (ISS) for Enhanced Flight Vision System applications

APPLICATIONS

Business and air transport operators seeking additional operational credits through the use of an Enhanced Flight Vision System (EFVS).

WEIGHT

Less than 20 lb

FIELD OF VIEW

30 degrees (nominal)

LENS APERTURE

f/2

SENSOR RESOLUTION

256 pixels x 256 pixels

PIXEL PITCH

30 microns

SENSOR TECHNOLOGY COMPARISON WITH CMC'S CMA-2600

- Same cryogenically cooled Indium Antimonide (InSb) Focal Plane Array
- Enhanced image processing within existing hardware
- Improved optics and wave band filtering

CRYOGENIC COOLER TECHNOLOGY

Sealed, Stirling cycle cooler – no maintenance required

DETECTED WAVELENGTHS

- Dual-band, single Focal Plane Array
- 1.0 – 2.5 microns shortwave infrared
 - 3.5 – 5.0 microns midwave infrared

CERTIFICATION STANDARDS

Hardware: RTCA DO-160D

Software: RTCA DO-178B

Firmware: RTCA DO-254

TEMPERATURE

-55° C to + 50° C

INPUT POWER

28 Volts DC – 70 watts (nominal)

INSTALLATION CONFIGURATION

- Sensor may be installed upright or inverted with image inversion selectable on installation
- Same mechanical and electrical interfaces as the CMA-2600

SENSOR CONTROL INPUTS

ARINC 429 and discrete signals for installation flexibility

- Display configuration
- Sensor orientation
- Sensor on/off/standby
- Non uniformity calibration (NUC)
- Temperature range select
- A/C window temperature

Factory test port

SENSOR OUTPUTS

2 – ANSI/SMPTE 170M (formerly RS-170 - monochrome NTSC)

Sensor status

Aircraft IR window heater control (when desired)

Factory test port

BUILT IN TEST (BIT)

Power up testing

Continuous background testing

On request testing



SureSight®
I-Series™
CMA-2600i



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