



Visual Scene



Infrared Scene

Comparison of actual flight test results at CAT I decision height

SureSight® I-Series™ CMA-2700

Integrated Sensor System for Enhanced Flight Vision System applications

**New, third-generation
Integrated Sensor
System, reaching
the next level of
video performance
in adverse visual
conditions**



Expands the I-Series family of Integrated Sensor Systems

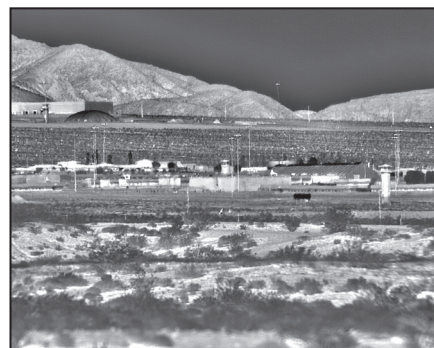
- Third-generation system builds on the success of the I-Series CMA-2600
- I-Series family now includes the CMA-2600, CMA-2600i and the CMA-2700 Integrated Sensor Systems

Key features include:

- The industry's highest resolution Focal Plane Array (FPA): 640 x 512 pixels
- Next-generation image processing: Advanced Digital Signal Processing (DSP)
- The industry's highest level of certification: Level B certification to DO-178B and DO-254
- Single, lightweight LRU to minimize impact on aircraft installation
- Interfaces compatible with dual digital HUD installations
- Compatible with the I-Series family of Integrated Sensor Systems for retrofit applications



CMA-2600 Scene



CMA-2700 Scene

SureSight® I-Series™ CMA-2700 Integrated Sensor System (ISS) for Enhanced Flight Vision System applications

APPLICATIONS

Business and air transport operators seeking additional operational credits combining the next generation of ISS within an Enhanced Flight Vision System (EFVS)

WEIGHT

Less than 21 lb

FIELD OF VIEW

30 degrees (nominal)

INTEGRATED SENSOR SYSTEM TECHNOLOGY

- Highest resolution ISS for EFVS applications: 640 x 512 pixels
- Next-generation image processing: advanced 14-bit digital processing
- Improved optics and wave band filtering
- Cooled Indium Antimonide (InSb) Focal Plane Array
- 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

- Environmental qualification: RTCA DO-160E
- Firmware: RTCA DO-254 Level B
- Software: RTCA DO-178B Level B

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
- Mechanical and electrical compatibility with the family of I-Series ISS - ideal for retrofit of existing CMC SureSight I-Series ISS

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

- Two (2) ARINC 818 Digital Interfaces
- Two (2) ANSI/SMPTE 170M (formerly RS-170 monochrome NTSC)
- Supports EFVS with dual Head-Up Display installations
- Sensor status (via ARINC 429)
- 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-2700



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