



Visual Scene



Infrared Scene

Comparison of actual flight test results at CAT I decision height

## SureSight® I-Series™ CMA-2600

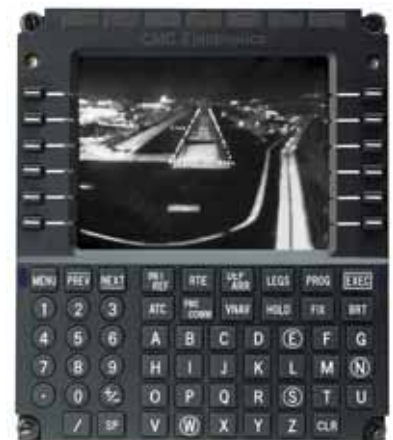
Integrated Sensor System  
for Enhanced Flight Vision  
System applications

**Advanced,  
second-generation  
Integrated Sensor  
System, providing  
superior sensitivity  
and image quality**

- Highest sensitivity for maximum weather penetration
- One dual-band focal plane array to support certified approach and landing systems without the need for fusion hardware/software
- Single LRU for maximum ease of installation
- Compact, lightweight design minimizes impact on aircraft
- Proven technology for superior performance and long life
- Sealed unit to simplify maintenance
- Shape optimized for the smallest fairing size



Head Up Display



Head Down Display



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

## APPLICATIONS

Approach and landing, and situational awareness for business, corporate and air transport aircraft operations, at night and in low visibility situations.

## 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

Cryogenically cooled Indium Antimonide (InSb)

## CRYOGENIC COOLER TECHNOLOGY

Sealed, Sterling cycle cooler – no maintenance required

## DETECTED WAVELENGTHS

Dual-band

- 1.0 – 3.0 microns shortwave infrared
- 3.0 – 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 CONFIGURATIONS

Sensor may be installed upright or inverted with image inversion selectable on installation.

## 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 (previously known as RS-170 - monochrome NTSC)

Sensor status

Aircraft window heater control

Factory test port

## BUILT IN TEST (BIT)

Power up testing

Continuous background testing

On request testing



600 Dr. Frederik Philips Boulevard, Ville Saint-Laurent, Quebec, Canada H4M 2S9  
Tel: (514) 748-3043 Fax: (514) 748-3055 SITA: YULCMCR www.cmcelectronics.ca

For information purposes only. To accommodate product improvements, specifications are subject to change without notice.  
SureSight® is a registered trademark of CMC Electronics Inc. – I-Series™ is a trademark of CMC Electronics Inc.  
2600 Biz-8 03/08 PRINTED IN CANADA

