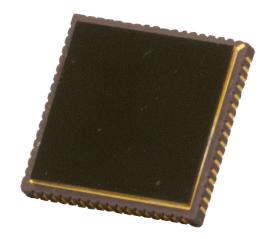
Uncooled Infrared Sensor



A highly adaptable version of the U6160 infrared detector that has been designed specifically for commercial applications, the low-profile U6160 LCC features a surfacemountable ceramic leadless chip carrier (LCC). The U6160 LCC can be mounted to any printed circuit board using LCC sockets. Its superior resolution of 640 x 480 pixels, 17-micron pixel pitch and low cost serve to position the U6160 LCC as an ideal thermal imaging detector for applications in security and surveillance.

Smaller and lighter than any other detector with a comparable image resolution, the U6160 LCC reflects the latest long-wave infrared technology from Leonardo DRS. It measures just $2.4 \times 2.4 \times 0.37$ cm and weighs less than 6 grams. On-chip temperature feedback technology allows the U6160 LCC to operate in real time without temperature stabilization from a thermoelectric cooler.

The U6160 LCC offers new opportunities to the commercial market for securing facilities and operations 24-hours a day and year-around in even the most challenging weather conditions.





U6160 LCC UNCOOLED INFRARED SENSOR

FOCAL PLANE ARRAY

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PERFORMANCE

COMPONENT	DESCRIPTION
Sensitivity (NETD)	<50 mK @ F/1 (60 Hz)
Multiplexer	CMOS Ripple Integration
Area Fill Factor	90%
Typical Operability	>99%
Number of Analog Outputs	1/2
Output Voltage Range	1.2 - 3.2 v
Time Constant	≤ 14 msec
Temperature Stabilization	No TEC required (On-Chip Temperature Feedback)
On-chip Non Uniformity Correction (NUC)	7 bits parallel
MECHANICAL	

Dimensions	2.40 x 2.40 x 0.37 cm
(L x W x H)	(0.95 x 0.95 x 0.145 inches)
Weight	≤ 6 g

ENVIRONMENTAL

Operating Temperature	-40°C to +85°C
Storage Temperature	-46°C to +85°C

Electro-Optical Infrared Systems

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