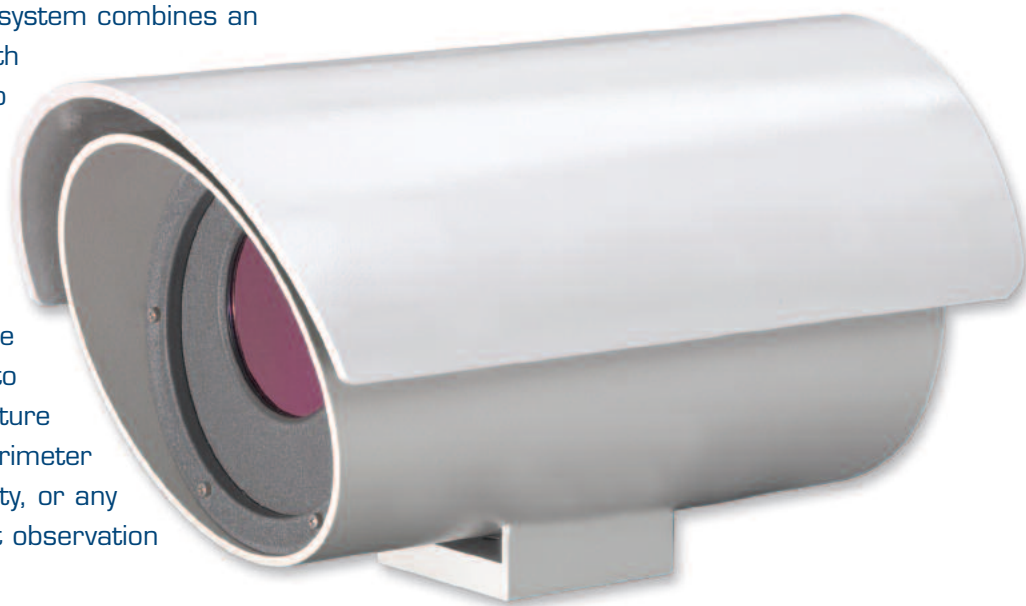




# JTL1 Series

THERMAL IMAGING CAMERA WITH ENVIRONMENTAL HOUSING

CBC's JTL1 series thermal imaging system combines an uncooled microbolometer imager with an environmentally sealed housing to provide high-contrast real-time thermal video in all weather conditions. The optional 20 or 50mm Germanium lenses have a robust focus motorization for long life performance. The housing can be thermostatically cooled and heated to provide extended operating temperature ranges. Ideal applications include perimeter surveillance, marine and port security, or any high security application where night observation is required.



## FEATURES

### CAMERA FEATURES:

- Heat sensing – does not require starlight or illuminator.
- Day or night – same image
- Automatically adjusts contrast and brightness
- RS232, 422 or 485 remote control of contrast brightness, gamma, freeze frame, B/W polarity, and frame averaging

### HOUSING FEATURES:

- Environmentally sealed, powder coated aluminum
- Polycarbonate sunshield to reduce heat transfer
- Thermostatically controlled cooling
- Operating range -20° to 70° C
- Nitrogen Purged
- RS232, 422 or 485 camera control
- 24VAC – 3 Amps maximum
- Motorized lens focusing
- 9 pin Milspec. Connector
- Standard 1/4 x 20 mounting



**JTL1 Thermal Camera**



**JTL1 Housing Back Panel**



**CBC (AMERICA) Corp.**

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## M O D E L S

<b>JTL1</b>	Microbolometer Thermal Imaging Camera
<b>JTL1-20</b>	Camera with 20mm Germanium Lens
<b>JTL1-50</b>	Camera with 50mm Germanium Lens
<b>JTL1-20 KIT</b>	Camera w/20mm Lens assembled in Environmental Housing
<b>JTL1-50 KIT</b>	Camera w/50mm Lens assembled in Environmental Housing
<b>TL-20</b>	20mm Germanium Lens
<b>TL-50</b>	50mm Germanium Lens

# JTL1 Series

## THERMAL IMAGING CAMERA



## S P E C I F I C A T I O N S

<b>SPECTRAL BRAND</b>	8 $\mu$ m to 14 $\mu$ m long wave infrared
<b>DETECTOR</b>	160 x 120 VOX microbolometer interpolated to 320 x 240
<b>PIXEL SIZE</b>	50 $\mu$ m square pixels
<b>A/D CONVERSION</b>	Digitizing resolution of 16 bits
<b>NETD</b>	< 60 mK @ 30°C
<b>OPERATING TEMPERATURE</b>	-20° to 70°C
<b>DYNAMIC RANGE</b>	66 dB
<b>LENS</b>	Germanium 20mm, f/0.8, & 50mm, f/0.8
<b>FOV</b>	23° (H) with 20mm 9° (H) with 50mm lens
<b>VIDEO OUTPUT</b>	NTSC or PAL composite video output
<b>FRAME RATE</b>	30 Hz
<b>POWER INPUT</b>	24 VAC
<b>HOUSING SIZE</b>	7" W x 14" L
<b>WEIGHT</b>	12 lbs.

## T H E R M A L I M A G E S

