

X20

Pan and Tilt Infrared Camera System

Detector Type:	Uncooled Microbolometer
Frame Rate:	30Hz
Wavelength:	8-14 μm
NETD:	<65mK (LrangeF/1.60Hz)
Video Output:	NTSC/PAL
Weight:	1 lb
Dynamic Range:	L range: 150°C (Typ.F/1) H range: 540°C (Typ.F/1)
Digital Output:	ITU-R.BT656 video data or RAW data
Serial Interface:	RS-232C
Input Voltage:	5 to 15 VDC
Power Consumption:	<5W (25°C)
Functions:	
Contrast:	Auto or Manual
Brightness:	Auto or Manual
Polarity:	White-hot or Black Cold
Digital zoom:	x2 or x4
FPN Auto or Manual	
Dynamic Range Select(UH/Auto)	
Video Format Select	
Configuration Save	
Control:	RS-232C



- 320X240 microbolometer provides high quality image resolution.
- (.065) thermal sensitivity for the best image resolution available.
- Temperature measurement up to 500° C making this camera perfect for firefighting applications.
- Small footprint for mounting the unit in areas with limited space.
- 30 Hz frame rate for real time thermal imaging and temperature measurement.
- Plug and play capability provides ease of use.
- Perfect for surveillance applications requiring a system with a fixed or pivoting mount.
- Rugged construction for durability.
- Can be mounted on any outdoor vehicle.
- The X20 utilizes video output, is compatible with standard video monitors, & can be installed in an environmentally sealed enclosure. The enclosure can then be mounted on a pan & tilt unit providing a 360° viewing area.



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Specifications:

Focal Plane Array: Uncooled 320 x 240
Contrast/Brightness: Automatic
Detection Range for Human Activity:
Up to 1500' (475m)
Optics: Minimum Focus Distance:
~25' (8m)
Focus Method: Automatic
Focal Length: 8mm, 14mm, & 200mm

Video:

Output Format: NTSC or PAL
Compatible
IR Polarity: White Hot - Black Cold

Power:

Input Voltage: 12 volts DC
Physical Characteristics: Weight: 21
lbs. (4.5 kg)
Mounting Provisions: Mobile Mount
or Stationary Mount
Environmental: Operating Tempera-
ture: -40° C to 55° C
Water Resistance: IEC Level IPX6 (Not
Submersible)
Pan and Tilt Function:
Pan: Joystick Controlled, 435°
Continuous beyond 90° down & 100°
up
Tilt: Joystick Controlled -20° to +180°
EMC Compliance: FCC Part 15 & CE
Mark

Includes: Camera, 4 Cable Set, Electronics
Module, Mounting Ring, Hand controller,
Installation Hardware



X20

High Resolution Color Camera with 27x Zoom

Visible Camera Specifications

The visible camera is an all purpose camera for industrial or surveillance applications. A Day/Night feature provides high resolution color images during the day and high sensitivity B/W images at night. All camera functions can be controlled by push buttons on the back panel. In addition, zoom and focus can be controlled remotely through a standard controller.

Image Device	1/4 " interline transfer CCD NTSC, High resolution: 410K
Sync System	Internal sync
Horizontal Res	480 Lines
Lens Focal Length	27x Optical Zoom (3.25 - 88mm)
Lens F-Stop	F1.5(W) - 3.8(T) Auto Iris
Digital Zoom	10x Digital Zoom
Minimum Illumination	1 Lux (30 IRE), 0.1 Lux Night Mode
S/N	More than 48dB (AGC OFF)
Scanning System	2:1 Interlace
Power Req.	DC 12V
Video Output	BNC-type, S-Video-type 1.0Vp-p 75ohms
Power Consumption	5.3 watts
Operating Humidity	0% to 60%
Operating Temp.	-5°C to +55°C
Dimensions	57mm(W) x 62.4mm(H) x 98.5mm(D)



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- *Hi-Res Color Camera with 480 lines resolution*
- *27X optical zoom and 10X digital zoom*
- *Day/Night Mode*
- *Auto or Manual Focus*
- *Remote zoom and focus control using DC voltage*
- *On Screen Display*
- *12 VDC power input*
- *Video or S-video inputs*

