

# AERIAL-EYE CAMERA AND MONITOR SYSTEM



Part Number 10-00779-150

**Intellitec's Aerial-Eye Camera System** has been designed specifically for aerial truck applications. The system consists of a color video monitor / control station, and a pan and tilt mechanism containing two color video cameras. The monitor / control station is connected to the pan and tilt mechanism with a 0.195 inch diameter interconnect cable.

## The Aerial-Eye Camera System has many desirable features:

-  Telephoto & Wide angle video cameras
-  Heavy duty 16 gauge stainless steel construction
-  Water-resistant
-  Bright TFT video display
-  Anti Glare view screen
-  Large push buttons for easy use
-  Small diameter interconnect cable
-  Electronics designed for vehicle application
-  Vehicle Activity sensor limits unwanted battery drain
-  Display self heats if needed during extreme cold



**Intellitec**

Various methods of mounting available via the RAM Mount™ system  
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# AERIAL-EYE CAMERA AND MONITOR SYSTEM

## The Monitor / Control Station:

The video monitor / control station is constructed with 16 gauge, brushed 304 stainless steel. The monitor is an enhanced 6.4 inch diagonal, TFT color display, specially developed to improve viewing in sunlight by increasing the display's brightness over standard displays and by enhancements that reduce reflected light.

The operators' control panel, consists of a water-resistant, UV protected, graphic overlay covering long life push-button switches; these switches provide the ability to remotely position the cameras. Four, large push-buttons, allow a gloved operator to point the camera up, down, right, left and zoom. LED's indicate if the unit is ON and whether the camera is in wide angle, or telephoto mode. All of the control information and video information is carried by a 0.195 inch diameter cable, using Intellitec's multiplexing control system.

The microprocessor based controller, provides unique features that are specific to vehicle applications. The controller is extremely resistant to noise and does not produce any adverse electrical noise. The controller is protected against load dump conditions, which are common on vehicles and can produce extremely high voltages. To prevent excessive battery drain, in the event that the operator forgets to turn the unit off, a special sensor detects activity in the vehicle's electrical system and shuts the system down when the vehicle has been idle for 20 minutes. Pressing the "ON" button will bring the system back to life.

The monitor's electronic system also senses extremely cold conditions, which may hinder the operation of the video display. During these conditions, the display will "self-heat" if the electronic sensor detects that the vehicle is in operation. This will ensure that the display is ready to be used when it is needed.

## The Camera:

The camera system consists of a water resistant enclosure with a pan and tilt mechanism, having a wide angle and a telephoto color video camera. When connected to the monitor / control panel, the operator can point the cameras in the required direction and select the wide angle or telephoto camera.

## The Interconnect Cable:

Standard units will be supplied with 150 feet of 0.195 dia cable. OEMs may specify lengths specific to their vehicles. The cable is designed to be used on aerial ladder systems and should function well with reels and other methods of managing cable. Each end is terminated with a weatherproof connector. Each unit is also provided with 20Ft of 2-conductor power cable, terminated at one end with a waterproof connector.

## Specifications:

### Monitor

Enhanced Video Screen	6.4" TFT index matched, reflective polarizer
Format	112,320 Pixels
Estimated Light output	500 nits nominal
Dimensions	13" X 7.5" X 2.5"

### Cameras:

Two (2) Color CMOS  
Pixels 307,200 each  
Usable Illumination 0.5 LUX @ f/1.2  
Automatic Electronic Shutter Speed 1/60 1/100,000  
Camera 1: Telephoto lens  
Camera 2: Wide Angle lens

### General Specifications:

Nominal Voltage 12 Volt DC  
Video NTSC  
Operating Temp -30 to +60C  
Power Cable 20 ft; Black GND / White +12VDC  
Short Circuit protected, 3 Amp manual reset circuit breaker

**Mounting:** The Monitor and Camera have threaded holes to install 2 ½ inch RAM™ Mounts. The RAM™ mounting system, allows the camera and monitor to be mounted in a wide variety of locations and situations. These mounts are flexible and provide the ability for the operator to adjust the viewing angle.

For more details see [www.ram-mount.com](http://www.ram-mount.com)  
(206) 763-8361



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