

## VNC 743

### Extreme low-light CCD Camera

The VNC 743 camera attains an unprecedented level of low light sensitivity by special processing of the video signal directly inside the CCD. The simultaneous use of in-frame video signal processing (mode 1:high) and inter-frame video signal processing (mode 2:super) allows the camera to increase its sensitivity up to 600 times.

Using an auto-iris lens (not included), the VNC 743 camera operates fully automatically 24/7 in a totally passive surveillance mode. The camera accepts a wide range of C and CS mount optics.

The VNC 743 incorporates anti-blooming circuit technology to reduce the glow typically seen on cameras that operate using image intensifiers during low-light conditions. Additionally, the imagery remains useful even when illumination from sources such as headlights enter the field of view.

Capable of 24 hour day/night operation, the VNC 743 is a drop in replacement for existing CCD security cameras.



### Key Product Features

- **0.00005 Lux sensitivity**
- **C-Mount lens compatibility**
- **Directly replaces existing CCD cameras**
- **Anti-blooming**
- **Fully automatic gain control**
- **Improved MTF over intensifiers**

### Applications

- **Day/Night surveillance**
- **Airborne imaging**
- **Border patrol**
- **Perimeter security**
- **Asset protection**
- **Transportation Systems**
- **Maritime / marine**

**VNC 743***System Specifications*

<b>Specifications</b>	<b>VNC 743 NTSC</b>	<b>VNC 743 CCIR</b>
Image Array Type	Silicon CCD	Silicon CCD
Sensitivity @ 5% modulation (f 1.4 optic)	0.00005 lux	0.00005 lux
Pixel Size	6.35 x 7.40 $\mu$ m	6.35 x 7.40 $\mu$ m
Imaging Size	6.00 x 4.96mm	6.00 x 4.96mm
Array Format	768 x 494	768 x 494
Spectral Response	400 to 1060 nm	400 to 1060 nm
Limiting Resolution	580 TV Lines	580 TV Lines
Signal to noise	48dB	48dB
Auto-level Control	10.5 to 10 lux—Auto-Iris 10 lx to 20 mlx—CCD Gain 20 to 1 mlx—AGC	10.5 to 10 lux—Auto-Iris 10 lx to 20 mlx—CCD Gain 20 to 1 mlx—AGC
Video	NTSC	CCIR
Dimensions w/o connectors	50W x 58H x 67L mm	50W x 58H x 67L mm
Weight	6.4oz w/o lens	6.4oz w/o lens
Lens Mount	C & CS-mount	C & CS mount
Operating Temperature	-10° C to +40° C	-10° C to +40° C
Storage Temperature	-20° C to +60° C	-20° C to +60° C

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