

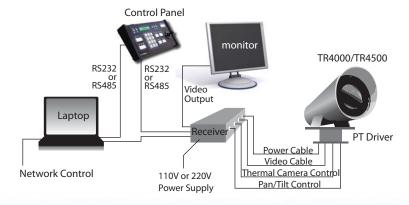
## TR4000/TR4500

### **ULTRA LONG-RANGE THERMAL SECURITY SURVEILLANCE CAMERA**



## Typical Configuration

- All thermal camera functions including polarity, focus, lens FOV switch etc. are controlled either directly from controller or through Receiver/optional PT driver.
- Camera can be mounted either directly (fixed) or with an optional Pan-Tilt driver.



Typical wiring diagram with optional Pan-Tilt driver

#### **Features**

- Remotely controlled
- Motorized lens
- Single FOV, dual FOV, and Triple FOV on selected model
- Plug and Play Operations
- Ge infrared optics with AR coating
- · Environmentally Sealed and Pressurized housing



Showing highway bridge out 7.8 km using only TR4000 with 100mm lens



# TR4000/TR4500

### **ULTRA LONG RANGE THERMAL SECURITY SURVEILLANCE CAMERA**

## **Lenses and Typical Range Performances:**

The nominal aperture is F/4. The following lenses are available:

Lens (mm)	Focus Method	FOV(°)		Detection range (km) for 2.3x2.3m Target	
		TR4000	TR4500	TR4000	TR4500
50	Manual	11 x 8.2	11.0 x 8.3	2.2	4.5
100	Motorized	5.5 x 4.1	5.5 x 4.1	4.6	9
250	Motorized	2.2 x 1.65	2.2 x 1.7	10.0	13
50/250	Dual FOV Motorized	11 x 8.2 / 2.2 x 1.65	11.0 x 8.3 / 2.2 x 1.7	10.0	13
100/500	Dual FOV Motorized	5.5 x 4.1 / 1.1 x 0.83	5.5 x 4.1 / 1.1 x 0.8	14.2	17.5
25/80/320	Triple FOV Motorized	22 x 16.5 / 6.9 x 5.2 / 1.7 x 1.3	22.0x16.5 / 6.9x5.2 / 1.7x1.3	13.0	15.5

Customized Lenses are available, upon special request.

## **Specifications**

	TR4000	TR4500
Sensor:	InSb	InSb
Resolution:	320 x 256 pixels	640 x 512 pixels
Pitch:	30μm	15µm
Wavelength:	3-5 µm	3-5µm
Image mode :	Snap Shot	Snap Shot
Cooling:	Stirling cooler	Stirling Cooler
A/D:	14 bits	14 bits
NETD:	<20 mK	<20 mK
F number:	F/4	F/4
System control :	RS232 or RS422 from a remote computer or through a controller	RS232 or RS422 from a remote computer or through a controller
Video output :	CCIR (PAL) or RS 170 (NTSC)	CCIR (PAL) or RS 170 (NTSC)
Dimensions (with T320 lens):	220mm (W) x 260mm (H) x 600mm (L) including sunshield	220mm (W) x 260mm (H) x 600mm (L) including sunshield
Weight (with T320 lens):	<14kg	<15kg
Power supply:	Camera direct power input - 24VDC, 30W typical; with receiver - 110 or 220 VAC	Camera direct power input - 24VDC, 30W typical; with receiver - 110 or 220 VAC
Enclosure:	Sealed and dry nitrogen backfilled housing rated IP67	Sealed and dry nitrogen backfilled housing rated IP67
Camera Mounting:	fixed or with optional pan-tilt driver	fixed or with optional pan-tilt driver
Operating Temperature:	-20°C +55°C	-20°C +55°C
Storage Temperature:	-40°C +70°C	-40°C +70°C

How To Order TR4000 - 100 N TR4500 - 100 N

Lens

Video Output

50: 50mm manual lens
100: 100mm motorized lens
250: 250mm motorized lens

D250: Dual FOV 50/250mm motorized lens
D500: Dual FOV 100/500mm motorized lens
T320: Triple FOV 25/80/320mm motorized lens

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