

HR -LV3000TIR185 Dual Video Thermal Imaging Camera

See through the fog, smoke, dust and other hazardous atmospheres in total darkness

I. Introduction

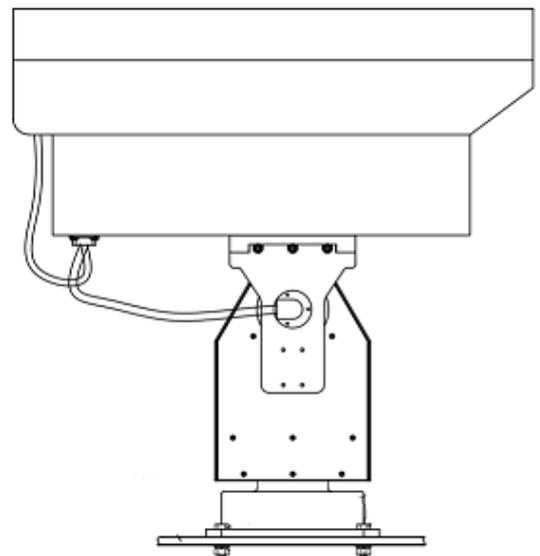
SHR-LV3000TIR185 dual spectrum night vision cam integrates the thermal cam with visible cam together. The thermal cam can obtain clear images, easy to hidden, and cannot be affected by external lightings. The visible cam detecting distance is 6km at daytime; thermal cam detecting distance is 5.04km to people, 14.4km to vehicles in day/night, the whole sys can realize day/night 24 hrs monitoring.



The cam system has hard shell, it adopts high-strength aluminum alloy and stainless steel, with nitrogen inside, suitable for night vision, harsh environment, long range, large scope, hidden monitoring.]

Features

- Uncooled micro bolometer infrared focal plane arrays, 324×256 pixel NETD at 50mk, easy to find objects
- Adopts zooming thermal tech, images clear
- Low illumination CCD Camera
- 360° pan rotating, can realize a full range monitoring and high accuracy position
- Easy operation and maintenance
- Passive thermal cam is easy to hidden
- Sealed shell, smart shape, nitrogen inside, anti-harsh environment
- Low power consumption, stable performance



HR - LV3000TIR185 Dual Video Thermal Imaging Camera

Main Use

- Frontier and coast defense, Military/Police, Border defense
- Oilfields, Railways, Airports, Harbors, Fireproofing, Large areas real-time monitoring

II. Main Technical Indicators

Image Lens	Focal Length	12.5-750mm, 60 x,2 doublers 1500mm ,120x
	F Value	3.8-700
	Focal Plane	1/2"
	FOV	0.62-30°
	Auto Aperture	DC drive
	Close-up distance	5M
	Interface	C
Visible Cam	Sensor Type	1/2" Infrared CCD
	Color Mode	Integration ICR double filter switch between day and night, day/night double mode parameters setting
	Pixels	752x582,440000.
	Resolution	Color 540 line, black/white 600 line
	Min Illumination	0.02lux (color) 0.0009lux (black/white)
	DNR (Dynamic Noise Reduction)	Auto
	Shutter	Auto
	WB (White Balance)	Auto
SNR (Signal-to-Noise)	>50dB	
Thermal IR Cam	Detector Type	Uncooled Vox FPA, 324*256 pixel,17μ m
	Spectrum Range	8~14μm
	Lens	36~180mm continuous zooming
	FOV	1.8°x1.3°- 9.1°x6.5°
	Instantaneous Angle	0.2~1mrad
	Non-equilibrium temperature difference (NETD)	50mK@F1.0, 300K
	Frame	25Hz
	Electric Magnification	2x
	Focus	Power focus, power magnification
	Image Process	Digital detail enhancement (DDE), palette
	Video Output	PAL
	Shield	Whole cam power supply
Whole cam power consumption		≤60W
Material		High precision aluminum alloy shell
Structure		Integration double window
Windows Glass		4mm microcrystal optical window

HR-LV3000TIR185 Dual Video Thermal Imaging Camera

	Surface Coating	PTA Tri-proof Coating, Anti-salt water
	Protection Grade	IP66
	Interface	Waterproof aviation plug
Pan-tilt	Rotating Speed	Pan 0.1°~12°/S; Tilt 0.1°~6°/S (can be changed);
	Rotating Angle	Pan: 0~360°, Tilt: -60~+60°
	Presetting Bits	255
	Positioning Accuracy	±0.1°
	Repetition Accuracy	±0.1°
	Lens presetting bits	support
	Auto Cruise	support
	Protocol	Pelco-D、Pelco-P
	Baud Rate	2400/4800/9600/19200 bps optional
	Communication Interface	RS485/RS422
	Bearer Mode	Up load
	Drive Mode	Worm Gear
	Protection Grade	IP66
	MTBF	≥10000h
	MTTR	≤30min
Max load-bearing	50kg	
Technical Indicator	Thermal Cam Detecting distance	Detecting distance: 14.4KM for vehicles, 5.04KM for people in total darkness;
	Day camera with lens detect distance	More than 6km
	Power supply	DC24V~DC32V ≥5A
	Whole cam consumption	≤120W
	Mean time between failure (MTBF)	≥10000 hrs
	Total weight	≤50kg
Environment Indicator	Operation Temperature	-25℃~+55℃
	Storage Temperature	-40℃~+65℃
	Anti-vibration	15m/s ² 5~200Hz
	Anti-impact	150m/s ² 11ms
	Salt Fog Proof	Continuously spraying 48 hours under PH 6.5~7.2

HR-LV3000TIR185 Dual Video Thermal Imaging Camera



3KM Animal



4KM Car



4.5KM Day Camera



3KM Day Camera