

*Vision of the future*  
**OPTRONITALIA**

Unattended mobile systems

Vehicular systems

Infrared cameras

# OPTRONITALIA

## V-TH32/V-TH64

V/ TH32 and V/TH64 produced by OPTRONITALIA are outdoor video imaging systems in the visible and LWIR spectrum for video shootings day- night time, which offer an elevated thermal sensibility and high definition. The two shooting imaging systems are integrated into an air-water tight closing to immersions holding case-box of high mechanical precision CNC machined from solid piece. Internally , an inert gas protects and prevents the electronics and the optics parts from condensation problems and oxidations ensuring a high service life of the components.

Such a gas eliminates the use of the anti - condensation heaters or other systems.

It is possible to provide the imaging system in the only LWIR spectrum (8-12  $\mu\text{m}$ ) with optics of various focal length range. ( TH32) ( TH64 )



### OPTIONALS

MPG 4 INTEGRATED ENCODER

LENSES 35 mm. - 50 mm. Focus mot. (LWIR )

### V-TH32 V/TH64

<b>STRUCTURE:</b>	Aluminum.
<b>PROTECTION:</b>	Nitrogen +0.5 bar
<b>WINDOWS:</b>	Optical glass/Germanium
<b>ENVIRONMENT:</b>	-35° +55° IP 68
<b>WEIGHT:</b>	4 Kg.
<b>POWER:</b>	12 Vcc. 0,7 A
<b>CAMERAS CONTROL:</b>	Serial RS232

### LWIR SPECTRUM V/TH32

<b>DETECTOR:</b>	A Si
<b>ARRAY SIZE:</b>	384 x 288
<b>SPECTRAL RESPONSE:</b>	8 – 12 $\mu$ m. pitch 25 $\mu$ m
<b>SENSIBILITY:</b>	$\leq$ 50 mK.
<b>VIDEO FORMAT:</b>	NTSC/ PAL 50 HZ.
<b>LENSES:</b>	15 mm. HFOV 36° 35 mm. HFOV 16° 50 mm. HFOV 11°
<b>DIGITAL ZOOM:</b>	X2 X4 X8

### LWIR SPECTRUM V/TH64

<b>DETECTOR:</b>	A Si
<b>ARRAY SIZE :</b>	640 x 480
<b>SPECTRAL RESPONSE :</b>	8 – 12 $\mu$ m. pitch 25 $\mu$ m
<b>SENSIBILITY :</b>	$\leq$ 50 mK.
<b>VIDEO FORMAT :</b>	NTSC/ PAL 50 HZ.
<b>LENSES :</b>	15 mm. HFOV 56° 35 mm. HFOV 26° 50 mm. HFOV 18°
<b>DIGITAL ZOOM :</b>	X2 X4 X8 X16

### VISIBLE SPECTRUM V/TH32 V/TH64

<b>DETECTOR:</b>	1/4 HAD CCD
<b>RIS. H.:</b>	530 Linee
<b>MIN.ILLUM.:</b>	1.4 Lux
<b>S/N:</b>	50 dB
<b>LENS:</b>	36X
<b>HFOV:</b>	57.5°(Wide) a 1.8° (Tele)
<b>DIGITAL ZOOM:</b>	12X
<b>VIDEO FORMAT :</b>	NTSC/ PAL 50 HZ.



# TARGET DETECTION

