



handheld, weapon & clip-on sights
technical specification Rev. 2.2, 18 Jul 2013

vhf defence GmbH



device with 25mm objective



key features

- *advanced un-cooled α -Si thermal sensor designed for high reliability and long life*
- *320x240 and 640x480 sensor resolution available*
- *modular, compact and light weight system design*
- *can be configured as a hand-held device, a stand-alone weapon sight or as a clip-on thermal imager*
- *optional remote control*
- *adaptive local contrast enhancement and edge sensitive denoising of image*
- *digital 2x/4x zoom*
- *image capture feature with USB download interface*
- *composite video output*
- *rapid start-up under 1.5 seconds*
- *more than 4 hours continuous operation on two CR123 lithium batteries*
- *tested to MIL-STD 810g*

technical specifications

	TV-640-25 (Q3 2013)	TV-320-25 (IN PROD.)
PHYSICAL CHARACTERISTICS		
weight	<420 grams with batteries	
length	143 mm	
height	54 mm	
width	67 mm	
SYSTEM CHARACTERISTICS		
frame rate	60 Hz	
detection range, moving man (approx.)	750 m	500 m
boresight accuracy	within 1 MOA (0.3 mrad)	
start-up time	1.5 seconds max	
video output	PAL composite video	
ir laser pointer (optional)	800 meters, 0.7mW, 850nm, 0.4mrad	
OPTICAL		
field of view (diagonal)	31°	23°
eye relief	25mm minimum	
diopter	+5 to -5 adjustable	
focus range	0.5m to infinity	
SENSOR (FOCAL PLANE ARRAY)		
format (pixel)	640 x 480	320 x 240
NETD	< 55mK	
ENVIRONMENTAL		
operating temperature	-40°C to +70°C	
storage temperature	-40°C to +80°C	
protection	MIL-STD 810g	
OPERATIONAL		
batteries	2 CR123 lithium	
battery life	approx. 4.5 hours	

TV-640-17 (Q1 2014)**TV-320-17** (Q1 2014)**TV-640-75** (Q4 2013)**TV-320-75** (Q4 2013)

<350 grams with batteries

110 mm

54 mm

67 mm

60 Hz

500 m

340 m

within 1 MOA (0.3 mrad)

1.5 seconds max

PAL / NTSC composite video

800 meters, 0.7mW, 850nm, 0.4mrad

45°

25mm minimum

+5 to -5 adjustable

0.5m to infinity

640 x 480

< 55mK

-40°C to +70°C

-40°C to +80°C

MIL-STD 810g

2 CR123 lithium

approx. 4.5 hours

approx. 850 grams with batteries

TBD

TBD

TBD

60 Hz

2200 m

1500 m

TBD

1.5 seconds max

PAL / NTSC composite video

800 meters, 0.7mW, 850nm, 0.4mrad

10.5°

25mm minimum

+5 to -5 adjustable or fixed to day scope

8 m to infinity

640 x 480

< 55mK

-40°C to +70°C

-40°C to +80°C

MIL-STD 810g

2 CR123 lithium

approx. 4.5 hours

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