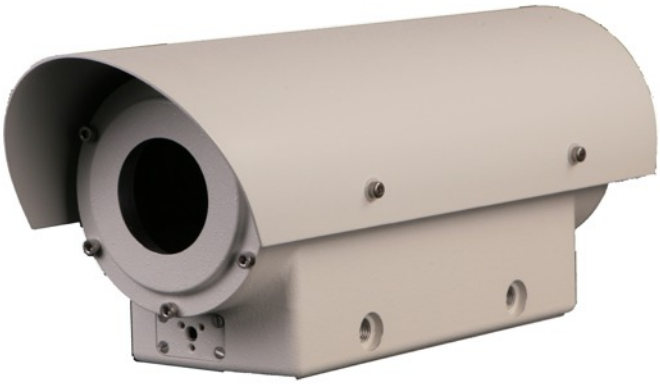
Cygnus Housing

Applications:

- Perimeter surveillance
- Portable crowd surveillance
- Border control
- Port/harbour security
- Customs
- Law enforcement
- Outdoor event security
- Pipeline surveillance
- Wind turbine monitoring
- Waste site monitoring



The Cygnus is a compact cast aluminium all weather, environmental housing designed for full external use in 24 hour surveillance systems. It is available as both a thermal version with a range of lenses from 9mm to 60mm in both 640x512 pixels and 324x256 pixels, and as a day/night version with the Sony 1010P or any block camera of a similar size. The day/night version can be fitted with an optional wiper. Both thermal and day/night versions can be controlled via Pelco D protocol. There is a variety of cable exit configurations to suit all applications.

Thermal camera - Technical specification

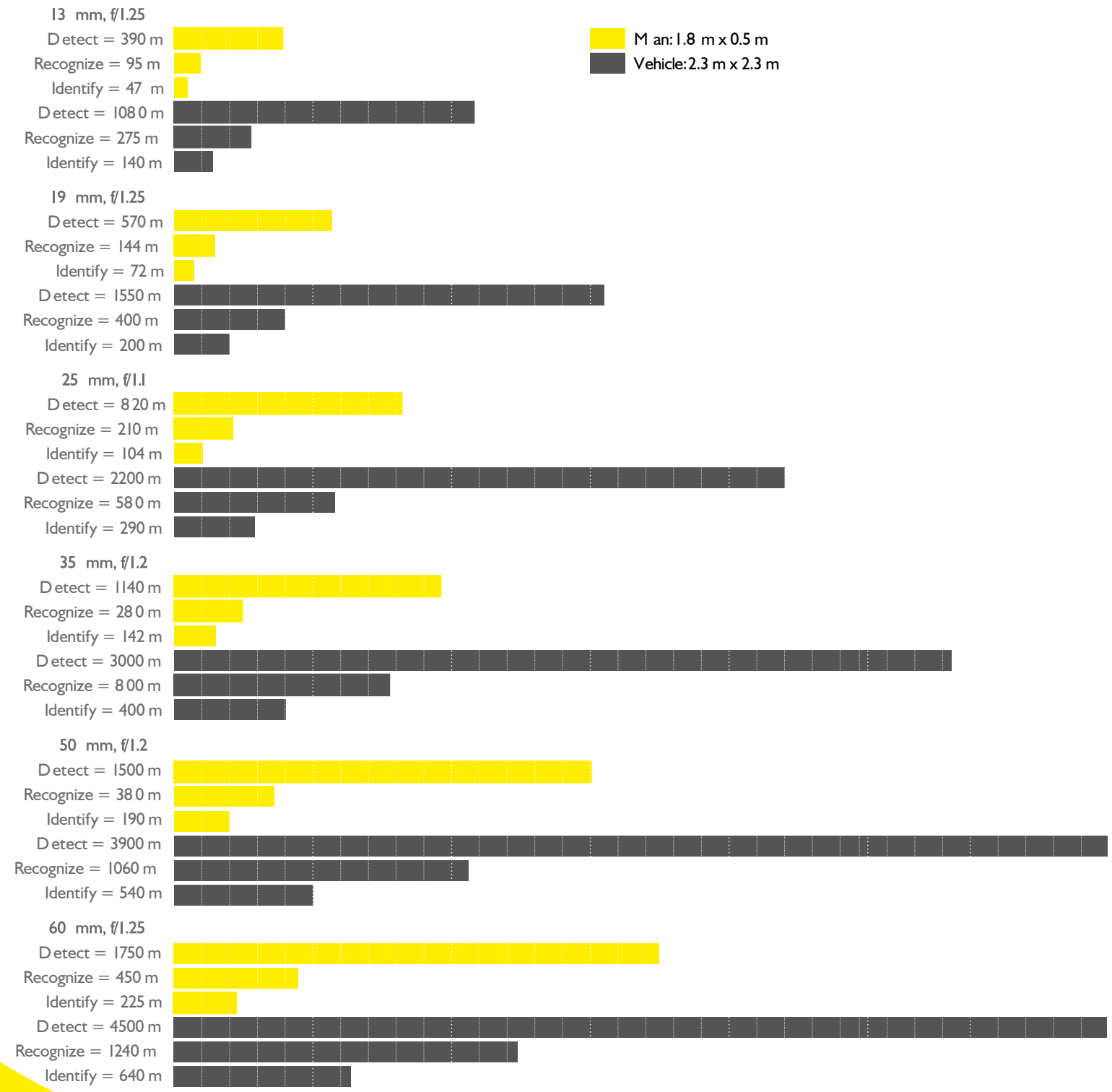
	Tau 640	Tau 320
Thermal Imagers	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
FPA Formats	640 x 512	324 x 256
Pixel size	17 µm	25 µm
Sensitivity (Nedt) (w/FLIR's propietary noise reduction)	<50 mK at f/1.0	<50 mK at f/1.0
NTSC Display Format	640 x 480	640 x 480 (upsampled & interpolated)
PAL Display Format	640 x 512	640 x 512 (upsampled & interpolated)
NTSC/PAL (field switchable)	Y	Y
Digital Detail Enhancement	Y	Y
Polarity Control (black hot/white hot)	Y	Y
2x & 4x Digital zoom	Y	Y
8x Digital zoom	Y	N
Colour & Monochrome Palettes (LUTs)	Y	Y
Operating Temperature Range	-40°c to +80°c	-40°c to +80°c
Input Voltage	12V dc	12V dc
Environmental	IP67	IP67
Mounting	4 x M6 threaded holes on a 101.6 (4") PCD	4 x M6 threaded holes on a 101.6 (4") PCD

Available options:

- Pelco D control board
- Protective honeycomb mesh for window
- 1/4" UNC mount adaptor
- Column spacer (4" PCD)
- Long sunshield

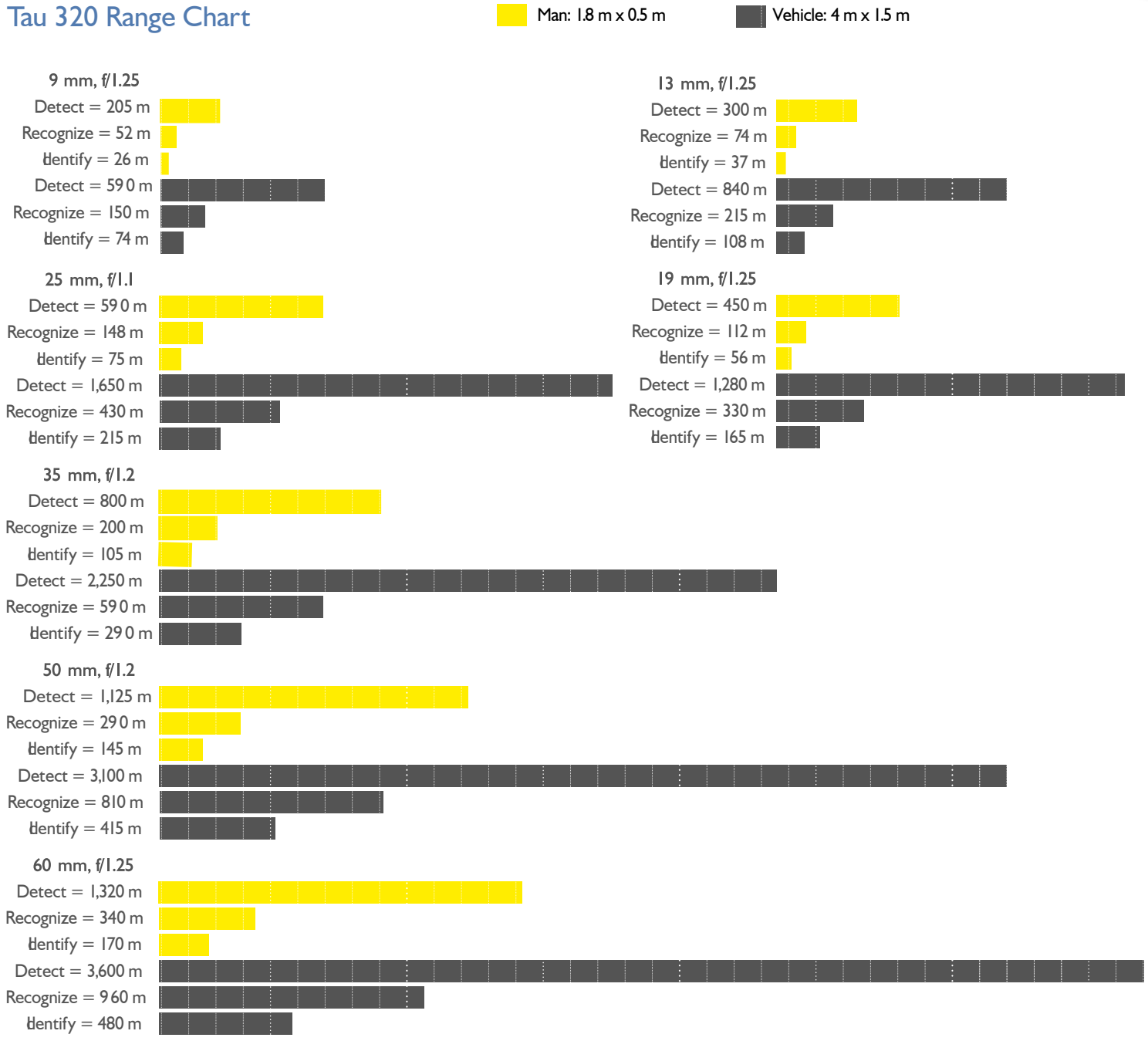
17-micron pixels

Tau 640 Range Chart



25-micron pixels

Tau 320 Range Chart



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Day/night camera - technical specification

Image sensor	1/4-type EX view HAD CCD
Signal system	PAL
Number of total pixels	Approx. 440,000
Lens	36x optical zoom, f=3.4mm (wide) to 122.4mm (tele) F1.6 to F4.5
Digital zoom	12x (432x with optical zoom)
Angle of view (H)	57.8° (wide end) to 1.7° (tele end)
Minimum working distance	320mm (wide end) to 1,500mm (tele end)
Minimum illumination	(typical) (F1.6, 50 IRE)
S/N ratio	More than 50 dB
Electronic shutter	1/1 to 1/10,000s, 22 steps
White balance	Auto, AWT, Indoor, Outdoor, One-push, Manual
Gain	Auto/manual (-3 to 28 dB, 2dB steps)
AE control	Auto, manual, priority mode, bright, EV compensation, backlight compensation, slow AE
EV compensation	-10.5 to 10.5 dB (1.5 dBsteps)
Privacy zone masking	On/ off (24 positions)
Focusing system	Auto (sensitivity: normal, low), one push AF, manual,infinity, interval AF, zoom trigger AF
Storage temperature	-20 to 60°C (-4 to 140°F)
Operating temperature	0 to 50°C (32 to 122°F)
Power consumption	6 to 12V DC/ 1.6W (motors inactive), 4.0W (motors active)
Mass	230g (8.1oz)
Mounting	4 x M6 threaded holes on a 101.6 (4") PCD

Available options:

- Pelco D control board
- Wiper (controlled by the above board)
- 1/4" UNC mount adaptor
- Column spacer (4" PCD)
- Long sunshield

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