Pan & Tilt Technical Specifications

<u> </u>	Tarra Tite Toolii Tooli								
Viper			Cobra			Python			
Р	Payload Mass 10Kg		Payload Mass	Max 25Kg (15Kg single side)		Payload Mass	15Kg		
Azimuth		Rotation	Continuous N x 360°	Azimuth	Rotation	Continuous N x 360°	Azimuth	Rotation	Continuous N x 360°
	zimuth	Slewing Speed	Max 30°/s		Slewing Speed	Min 0.055°/s Max 42°/s		Slewing Speed	Min 0.055°/s Max 42°/s
		Pointing Accuracy	0.25°		Pointing Accuracy	0.07°		Pointing Accuracy	0.07°
Elevation		Rotation	+/-90°	Elevation	Rotation	±65° (Mechanical)	Elevation	Rotation	+85° -45° (Mechanical)
	levation	Slewing Speed	Max 30°/s		Slewing Speed	Min 0.02°/s Max 48°/s		Slewing Speed	Min 0.05°/sec Max 35°/sec
		Pointing Accuracy	0.25°		Pointing Accuracy	0.07°		Pointing Accuracy	0.07°

Thermal Image Camera Range Tables





HAWK				
~2km	~4km		~13km .	
	~4km	~8km		~20km N
IDENTIFICATION RECOGNITION DETECTION		Man: 1.8m x 0.5m Object: 2.3m²	77 77	LONDON

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CS³ Systems

Applications:

Navigation In Total Darkness

Clearly see other shipping traffic, channel markers, exposed landforms or floating debris

Day Time Navigation

See through the glare of sunrise or sunset to avoid possible obstacles

Short/Long Range Threat Detection

See approaching vessels at sea or in port without alerting the target

Improved Onboard Security & Safety

Provide protection of assets onboard, the fleet itself or passengers and crew

Man Overboard Searches

Quickly identify and locate endangered persons, and provide immediate assistance

Anti-Piracy/Asset Protection

Identify radar "blips" on the horizon in realtime to assess possible dangers before its too late

Configurable Security Surveillance Systems (CS3) can be fully integrated with sensors for:

Land

Flexible and economical fixed and portable surveillance solutions

Maritime

Full gyro-stabilised installations for commercial ships, oilrig, and port patrol vessels

Rugged long lasting performance for situational awareness and surveillance





Laser Range Finder



Control Unit & Monitors







- Robust design & build
- Fast & precise pointing accuracy
- East to install mounting fixture
- Modular payload brackets (sensor change in <10mins)
- Lightweight
- Optional gyro-stabilisation available for Python & Cobra platforms for steady imagery

(See back page for technical specification







	Zoom	HFOV	Sensitivity
Piranha 36	36x	57.8° to 1.7°	1.00 lux @ 30 IRE 0.1 lux Night Mode
Piranha LRTV	140x	0.22° to 25°	0.3 lux

- Full range of cost effective daylight TV camera solutions
- Piranha 36 provides tried & tested surveillance in extreme environments
- Long range TV options available depending on requirements
- Rugged nature of camera housing is ideal for outdoor applications
- Optional Piranha Wiper integration







	Format	Wavelength	FOV
Piranha 19			36° x 27°
Piranha 35	384 x 288	7.5 - 13.5 µm	20° x 15°
Piranha 50	1111		14° x 11°
Arbel	640 x 480	8 - 14 μm	Wide: 14.3°x 10.725° Narrow: 4.6° x 3.45°
Hawk	640 x 512	3.7 - 5 μm	Wide: 24° x 19.2° Narrow: 1.8° x 1.44°

- High performance, low cost thermal imagers to meet every requirement
- Optional wiper integration
- Simple mounting interface to allow fast & easy serviceability
- Auto focus & high sensitivity
- Optical zoom options upto 13.3x

(Full range table details on back page)







	Laser Type	Range	Measuring Rate	
Zeiss LP16	1.54 µm*	80 - 20,000m	Fast: 1 measurement/sec for 6 pulses Standard: 1 measurement/6 sec	
Zeiss LP17	1.54 µm*	100 - 20,000m	2Hz	
CELT-2	1.54 µm*	100 - 19,995m	1Hz	

- Compact, lightweight and high performance
- Eye safe Class 1 (IEC 60825-1)
- Ideally suited for outdoor environments without loss of performance







	Screen	Control	Data
нси	5.4" Colour LCD	Twin Mini Joysticks 10 Function Buttons	RS422
DCC	Range Available	Joystick & Configurable Function Buttons	RS422
OCC	17" Button Operated Colour LCD	Ruggedised Joystick & Integrated Keyboad/Mouse	RS422

- Range of control I/Fs to suit any application
- Concise & easy to use button layout
- Ergonomically designed for comfortable use over long periods of time
- Provides full control of sensor platform with real-time visual feedback
- User configurable