

# Network Tactical Camera System

## NTCS IP Mesh PTZ Camera



### Overview:

The Network Tactical Camera System (NTCS) provides a simple, rugged outdoor deployable method for close observation. It integrates a NETNode IP Mesh Radio, a high definition PTZ camera and GPS positioning into a sealed IP67 sealed unit.

NETNode IP radios can be combined in a fluid self-forming, self-healing Mesh network containing up to sixteen nodes. The radios exchange bi-directional IP data in a single frequency, simplifying frequency management. The entire Mesh occupies just 2.5MHz of bandwidth (1.25 to 10.0MHz also available) and employs DTC's unique COFDM modulation scheme offering excellent RF penetration and performance in the presence of multipath.

The integrated EV7520 HD Sony block camera offers a 30x optical zoom with and a 63.7° wide angle of view. It supports video resolutions up to 1080p output, along with exceptional low light sensitivity.

The camera's video is encoded into an IP stream via an integrated encoder, configuration including video encoding parameters is supported via a web page interface.

The pan and tilt drive trains are actuated by gearless stepper motors, reducing the operational noise to a minimum. Pan and tilt speeds are zoom factor corrected, giving fine control over the entire range of the lens.

It has absolute position feedback and therefore has the ability to self correct its actual position if external forces act upon it. On-board recording to SD card is supported, whilst GPS positioning is available via an optional add-on module.

### Features and Benefits:

- Frequency range from 1.14-1.5GHz or 1.65-2.5GHz
- NETNode IP Mesh Radio
- 2 Watt RF output power
- Video resolutions to 1080p
- 30x zoom, low light HD camera
- Battery powered
- Up to 12 hours run time
- IP encoded video
- Velocity control
- Closed loop position recall
- User presets
- On-board recording
- Optional GPS module
- DES encryption, optional AES128/256
- Rugged aluminium casing
- IP67 rated

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### Product Information:

#### Product Code

NETNode2W-NTCS-114150	NTCS Mesh Kit 1.14-1.50GHz - 2W
NETNode2W-NTCS-165250	NTCS Mesh Kit 1.65-2.50GHz - 2W

#### Product Includes

NTCS Mesh Camera	
Dual Li-ion battery charger	
Li-ion battery pack (4S1P) x 4	
Antenna - DBA series x 2	
Fischer CAT 5 cable	
Passive PoE cable set	
Power supply - AC DC 12V 3A	
PSU 12V 5A	
IEC to UK power cord 2m	

#### Accessory Options

TBC	GPS module
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#### Licensing Options

AES128NN	128 bit AES encryption license
AES256NN	256 bit AES encryption license

### Technical Specification:

#### RF and Modulation

Frequency	1.14GHz to 1.5GHz or 1.65GHz to 2.5GHz
Channel bandwidth	1.25MHz, 2.5MHz, 3MHz, 3.5MHz, 5MHz, 6MHz, 8MHz, 10MHz
Modulation	COFDM 360 carrier
RF output power	2 watt
Data capacity	Up to 14.6Mb/s
Receive sensitivity	-98dB
Typical range	Line-of-sight 60km Light urban 5km
Max nodes	16

#### Camera

Sensor	1/2.8" type CMOS
Sensitivity	<0.05 Lux, ICR on
Resolution	1920 x 1080 pixel
Field of view	63.7° wide, 2.3° tele
Pan and tilt range	270° tilt, continuous pan

#### Misc

On-board storage	32GB
Video streaming	RTSP over TCP or UDP
GPS	Optional add-on module
Run time	Up to 12 hours

#### Encryption

DES	Standard
AES128/AES256	Licensed (subject to export control)

#### Physical

Dimensions	295mm x 117.5mm x 115mm
Weight	3kg
Casing	Aluminium
Environmental	IP67

Export of encrypted products is subject to United Kingdom regulatory export controls.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email [solent.enquiries@domotactical.com](mailto:solent.enquiries@domotactical.com)

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