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 1.98-2.55GHz
- 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
# Network Tactical Camera System
## NTCS IP Mesh PTZ Camera

### Technical Specification:

#### RF and Modulation:
- **Frequency**: 1.14GHz to 1.5GHz or 1.98GHz to 2.55GHz
- **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 14.6Mbs
- **Receive sensitivity**: -96dB
- **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**: 30GB
- **Video streaming**: RTSP over TCP or UDP
- **GPS**: Optional add-on module
- **Run time**: Up to 12 hours

#### Encryption:
- **AES128NN**: 128 bit AES encryption license
- **AES256NN**: 256 bit AES encryption license
- **AES256NN**: Licensed (subject to export control)

#### Physical:
- **Dimensions**: 295mm x 117.5mm x 115mm
- **Weight**: 3kg
- **Casing**: Aluminium
- **Environmental**: IP67

### Product Information:

#### Product Code:
- NETNode2W-NTCS-114150: NTCS Mesh Kit 1.14-1.50GHz - 2W
- NETNode2W-NTCS-198255: NTCS Mesh Kit 1.65-2.50GHz - 2W

#### Product Includes:
- 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

#### Licensing Options:
- AES128NN: 128 bit AES encryption license
- AES256NN: 256 bit AES encryption license

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For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.enquiries@domotactical.com

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