Portable Network Surveillance Camera
Instantly set-up wireless IP-based video surveillance.

The Portable Network Surveillance Camera (PNSC) is a self-contained, battery-operated, wireless network camera in a single, rugged carry case. The compact case with built-in wheels and handle make the PNSC easy to transport and deploy.

The PNSC includes an internal rechargeable battery, a telescoping pole, two adjustable tilt/swivel brackets, and a remote-controlled, infrared illuminated PTZ (Pan/Tilt/Zoom) day/night camera. The camera attaches to the telescoping pole, which raises the camera up to 78” high and mounts securely to the case. All items conveniently store within the case.
Pan Tilt Zoom (PTZ) Camera*

The PTZ camera allows the operator to pan 360° continuously, tilt from -45° to +90° and adjust the field-of-view from 2.8° to 48° (18X optical zoom).

The PTZ camera provides invisible IR illumination for covert surveillance in dark surroundings. At low ambient light levels, the camera automatically switches to BW mode with the infrared illuminator on. At higher ambient light levels, the camera automatically switches to color mode with the infrared illuminator off.

Wireless Operation

The PNSC transmits video on a wireless 802.11 network, either connecting to an existing structured network or creating its own standalone network. The video can be viewed and recorded by a PC connected to this network running the supplied application program. The PNSC can be programmed to generate motion alarm events based on changes in video image content.

The PNSC is available with either a 900MHz mesh connection between PNSCs or with standard 2.4GHz Wi-Fi connection between PNSCs. The mesh version is far more robust for two reasons – the mesh architecture is self-configuring/self-healing and the 900MHz frequency is able to better penetrate structures/obstructions.

Applications

- Perimeter surveillance around a mobile asset/terrorist target
- Tactical covert surveillance for hostage barricades
- Surveillance for sting operations: warehouses, loading docks, depots
- Border security/VIP security
- Construction site safety and security
- Video and lighting support for disaster management scenarios
- Event security for large and small venues

Features & Benefits

- Cost-effective solution
- No external power or wires required
- Easy to transport and deploy – sets up in 5 minutes!
- Rugged, weatherproof design
- Viewable on a PC or Laptop
- Can support up to 6 PNSCs per network
- Rechargeable battery
- Motion alarm capable
- Records video on PC
- Supports audio with addition of microphone
- Can be hard-wired to a network, if desired
- Compatible/expandable with Zistos Universal WiFi Link (UWL)
- Available with either a WiFi or MESH network

*Also available with a lower cost infrared illuminated, day/night camera with a manually adjustable FOV of 16 - 36°.
**System Architecture**
The wireless operation of the Mesh PNSC system is far more robust than the standard WiFi PNSC system.

In the standard PNSC system, all client PNSCs must connect directly to the PNSC base and only the PNSC can connect to the laptop. In a Mesh PNSC system, the PNSCs can connect to each other dynamically to obtain the best connection possible and the laptop can connect to any PNSC.

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**PNSC Network Viewing & Recording Program**
The software, supplied with each system, enables the user to customize the view, record video, set alarms and control the PTZ camera of each PNSC.

**Computer requirements:**
Intel core 2 Duo 2.4GHz or faster, at least 2GB of RAM, Video card with NVidia 7600 chipset or newer with at least 256MB of RAM, 802.11 b/g wireless network adapter.

Operating system supported: Windows 7 only.

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**Optional Equipment** (Refer to individual spec sheets for more information)

**PNSC Long Range Link Kit (PNSC-LINK):** Inserts a 5.8 Ghz long range link (up to one mile) between the PNSC network base station and a remote monitoring station, such as a command vehicle.

**PNSC Range Expansion Kit (PNSC-RCVR):** Extends the range of the remote command station (laptop) by using a high power 2.4GHz outdoor pole-mounted radio/antenna in place of the laptop’s low power internal radio/antenna.

**PNSC Remote Antenna Kit (PNSC-M-RA13 or PNSC-A-RA13):** Allows for placement of the antenna(s) up to 13ft high to maximize range of any PNSC.
**Order Info/PNSC Specifications**

### System

**Components**
- Quick connect telescoping pole (raising camera to 6.5ft);
- Adjustable camera tilt/swivel bracket;
- Adjustable pole tilt/swivel bracket;
- Battery Charger;
- Whip antenna;
- 6ft antenna(s) cable;
- PC program;
- Case with integrated battery, electronics and wireless transmitter;

**Case Size**
- 22” x 15” x 8” (56cm x 38cm x 20cm);
- Waterproof when closed

**Weight**
- 46 lbs (21kg)

**Temperature Range**
- -20°C to +50°C

### Cameras

**PTZ**
- Type: PTZ (Pan/Tilt/Zoom) day (color) / night (BW);
- Automatically switches to night mode at dusk or day mode at dawn

**IR**
- Day (color) / night (BW);
- Automatically switches to night mode at dusk or day mode at dawn

**Remote Pan**
- 360° continuous pan, adjustable speed

**Remote Tilt**
- -45° to +90° (digital flip)

**Lens**
- 2.8°- 48° FOV (18X optical zoom)
- 16°-36° FOV

**Resolution**
- 768 x 494 (NTSC);
- 752 x 582 (PAL)

**Lux**
- Color: 0.7; BW: 0.01

**Illumination Type**
- 850nm (slight glow);
- 940nm (invisible) - available upon request

**Illumination Angle**
- 30°; 60°

**Illumination Range**
- 200ft (60M)@850nm;
- 100ft (30M)@940nm

**Range**
- 1500ft+ (450M+) line-of-sight;
- Range is highly dependent upon antenna height and environment

### WiFi

**Frequency**
- PNSC to PNSC: 2.4GHz, 802.11b/g
- PNSC to Laptop: 2.4GHz, 802.11b/g

**Power**
- 2.4GHz: 1000mw

**Antenna**
- 8” omni-directional 2.4GHz whip antenna

### MESH

**Frequency**
- PNSC to PNSC: 900Mhz
- PNSC to Laptop: 2.4GHz, 802.11b/g

**Power**
- 900Mhz: 630mw;
- 2.4GHz: 316mw

**Antenna**
- 8” omni-directional 2.4GHz whip antenna

### External Connectors

**Camera Input**
- 12-position metal waterproof connector for coax cord to camera and illuminator

**DC Output**
- 3-position metal waterproof connector with both unregulated and regulated 12V DC;
- Unregulated 12V battery voltage output (10V-15V) at 2A max;
- Regulated 12V at 1A max.

**A/V Connector**
- 6 position metal waterproof connector for video out, microphone in and speaker out.

**Antenna Connector**
- N-type female with tethered cap

**Network**
- Waterproof RJ45 for a hard-wired CAT5 cable connection with tethered cap when not in use;
- Usage requires operating an internal switch, which disables wireless operation (WiFi version only)

### PC Monitoring Station

**PC Reqs.**
- Not supplied; See requirements on previous page

**Application Program**
- Supplied with each PNSC;
- Allows for system setup and configuration;
- Can view all cameras independently or simultaneously;
- Reports alarm conditions received by the PNSCs

**Alarm Conditions Reported**
- (1) Programmable motion detector for each camera;
- (2) Low battery condition

### Battery

**Type**
- 12V Lead-acid, 20Ah

**Power Input for Charging**
- 60W; 90-264VAC;
- (For the PAL version, order the power cord adapter separately at no charge, part number PCA-XX, where XX is the country code.)

**Run Time**
- Run time in hours with illumination off/on:
- WiFi IR: 21/11;
- MESH IR: 16/10

**Options**

**BAT-7C: Spare Internal Battery**
- A second battery allows one battery to be charging while the other is operating the PNSC. Supplied in hard carry case.

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**Part Number Scheme**

**PNSC-A-PTZ** for the WiFi PTZ Camera (NTSC)

**PNSC-M-PTZ** for the MESH PTZ (NTSC)