

## Pan/Tilt IP Network Camera



### ***Plug&Play H.264 wireless IP camera***

#### ***With 3GPP/ISMA support***

The pan/tilt IP Network Camera is designed with the “user-friendly” idea deep in mind. The user can install the camera easily on his/her home network and then access the IP Camera anywhere in the world through the accompanied video management software-CamView without setting some complicated DNS name or changing the router’s settings. It’s just a plug & play action.

With 3GPP/ISMA support, users can see the video of the IP camera on any 3G mobile phone anywhere, anytime. The big difference is that there is software for downloading to the mobile phone so that the fixed IP address is not needed for the IP camera. The video settings including frame rate, resolution and bandwidth could be different for PC monitoring and mobile viewing.

With pan/tilt support, users can monitor the video in a much larger viewing angle range.

For indoor surveillance and remote monitoring, the camera provides the best image quality in its class, and excellent performance. The IP Camera also provides the best bandwidth efficiency, it offers 640x480 resolution, 30 fps frame rate, real H.264 image compression ability. The built-in microphone enables remote users to not only view, but also listen for additional monitoring options.

The NAS storage function can easily turn any NAS device to a NVR device. The schedule function provides full scheduling of email/ftp sending, motion detection and NAS recording event. With the built-in Web server, the IP Cameras can also be managed from a standard web browser on a Windows computer. With the ActiveX support, users can also see the video display on the Windows IE browser.

The IP Camera provides both wireless IEEE 802.11 n and wired Ethernet network interfaces for flexible installation. It supports the WEP and WPA (Wi-Fi Protected Access) security modes to provide the best security for wireless networks.

The IP Camera provides motion detection function. Users can easily setup this function and receive the notification with the snapshot images through email and/or ftp when some motion events are detected.

The IP camera is ideal for securing small businesses, home offices and residences over a local area network and/or the Internet.

## **Features**

- Easily access the camera from anywhere in the world via the ID/password
- No complicated NAT/router settings needed.
- Free video management software - CamView program accompanied for easy access and multi-camera management.
- 3GPP/ISMA support.
- Dual video streaming with separate frame rate/resolution/bandwidth settings for PC and mobile.
- Wide range Pan/tilt motion control.
- Built-in Web server for managing via standard web browser.
- Supports enhanced H.264 compression
- Supports resolution of up to 640x480 pixels, 30 frames per second.
- View video from your Wireless or wired Ethernet network
- 802.11 n WiFi security supports WEP and WPA-PSK(TKIP and AES).
- Supports PPPoE protocol for direct ADSL connection.
- Motion Detection and E-mail/FTP notification, attach jpeg image file.
- Synchronize the time through NTP protocol.
- Connect up to 20 users simultaneously (please see appendix B).
- Built-in microphone for synchronized audio.
- Built-in micro-SD card interface for video storage on SD card.
- Event scheduling.

- NAS storage access.
- Real Time Clock.
- Online Firmware upgrade, will enter safe mode when power is off during critical firmware upgrade point.
- Watchdog function to prevent system failure.

## Specifications

<b>Models</b>	Pan/Tilt IP Camera
<b>Power</b>	DC 12V, 1A
<b>Processors</b>	RISC CPU, hardware video processing and compression.
<b>Network interface</b>	Ethernet 10BaseT/100BaseTX, Auto-MDIX, RJ-45
<b>Wireless interface</b>	IEEE 802.11n 90 - 150 Mbps IEEE 802.11g 6 - 54 Mbps IEEE 802.11b 1 - 11 Mbps Transmit power: 14.5dBm typically @ 802.11g 17.5dBm typically @ 802.11b Receiver sensitivity: 54Mbps: Typical -73dBm @ 10% PER 11Mbps: Typical -86dBm @ 10% PER Antenna gain: 1.8 dBi
<b>Pan/Tilt control</b>	Pan range 130° ( -65° ~ 65° ) Tilt range 90° ( 0° ~ 90° ) Auto pan mode Auto patrol mode
<b>Image sensor</b>	RGB VGA 1/4 inch CMOS Automatic exposure control, automatic white balance, automatic gain control, automatic brightness control.
<b>Light sensitivity</b>	0.2 Lux
<b>Lens</b>	3.2 mm, F2.0, viewing angle: 60.3°, fixed iris. focus range: 30 cm to infinity
<b>D/I D/O interface</b>	1 D/I for alarm detection 1 D/O for alarm triggering
<b>Micro-SD card interface</b>	Micro-SD card interface for local video storage The supported Micro SD-Card capacity is up to 16G bytes.
<b>Buttons</b>	One reset button, to factory default settings
<b>Indicators</b>	One LED for internet connection status indication One LED for Ethernet connection indication Enable/disable – web configurable
<b>Video compression</b>	H.264 , baseline profile level 3.1

<b>Frame rate</b>	Up to 30 fps in all resolutions
<b>Video streaming</b>	H.264 Separate frame rate/resolution/bandwidth settings for PC and mobile.
<b>Video settings</b>	Resolution: VGA(640x480), QVGA(320x240), QQVGA(160x120) Bandwidth : 64k, 128k, 256k, 512k, 768k, 1M, 1.2M, 1.5M bps Frame rate : 1~5, 10, 15, 20, 25, 30 fps
<b>Audio</b>	Built-in microphone for audio monitoring Audio compression: G.711
<b>Security</b>	Web management username/password protection Video display ID/password protection WiFi WEP and WPA security mode
<b>Installation, management and maintenance</b>	Installation tool on CD and Web-based configuration Automatic configuration backup and restore Video management software-CamView for video access and multi-camera management Firmware upgrades via FTP
<b>Minimum Web browsing and management software requirements</b>	Built-in web server for standard web browser access Pentium 4(or equivalent AMD) CPU 1.0 GHz or higher, 1 GB RAM
<b>Supported protocols</b>	IPv4, HTTP, TCP, ICMP, RTSP, RTP, UDP, RTCP, SMTP, SNTP, FTP, DHCP, ARP, DNS, PPPoE, etc.
<b>Accessories (included)</b>	Power adaptor, RJ45 ethernet cable, quick installation guide, CD with installation tool/software and User's Manual, ID/Password card.
<b>Video management software</b>	Surveillance application for viewing and archiving up to 36 cameras
<b>Users</b>	Up to 20 simultaneous unicast users (depends on video settings)
<b>Alarm and event management</b>	Events triggered by video motion detection Notification/upload of JPEG images over FTP and/or email
<b>Dimensions (HxWxD) and Weight</b>	120 x 91 x 84 mm, 350 g (Camera body only)

<b>Approvals</b>	EMC - CE, FCC Part 15 Subpart B Class B Wireless RF - CE, FCC Part 15 Subpart C Power supply: CE, FCC, UL, EN 60950
<b>Operating conditions</b>	0-50 °C Humidity 20 - 80% RH (non-condensing)