

Mak 98 PTW

Pan / Tilt IP Network Camera



The Mak-98-PTW pan/tilt IP Network Camera is designed with the "user-friendly" idea deep in mind. The user can install the Mak-98-PTW easily on his/her home network and then access the IP Camera anywhere in the world through the accompanied video management software 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.

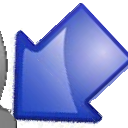
For indoor surveillance and remote monitoring, Mak-98-PTW provides the best image quality in its class, and excellent performance. The Mak-98-PTW IP Camera also provides the best bandwidth efficiency, it offers 640x480 resolution, 30 fps frame rate, real MPEG4 image compression ability. The built-in 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 Mak-98-PTW 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.

Mak98-PTW IP Camera provides both wireless IEEE 802.11 b / g and wired Ethernet network interfaces for flexible installation. It supports the WEP and WPA (Wifi Protected Access) security modes to provide the best security for wireless networks.

The Mak-98-PTW 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.

Ideal for securing small businesses, home offices and residences over a local area network and/or internet



Features

- Easily access the camera from anywhere in the world via the ID/password (Through accompanied video management software, no complicated DNS settings needed)
- 3GPP/ISMA support
- Dual video streaming with separate frame rate/resolution/bandwidth settings for PC and mobile.
- Wide range Pan/tilt motion control.
- 802.11 b / g wireless with WEP and WPA security support
- Connect up to 20 users simultaneously
- Supports enhanced MPEG-4 compression
- Supports resolution of up to 640x480 pixels at 30 fps.
- Free video management software accompanied for easy access and multi-camera management.
- View video from your Wireless or wired Ethernet network
- ActiveX video display in Microsoft IE browser.
- Motion Detection and E-mail/FTP notification
- Synchronize the system time through NTP protocol.
- Built-in Web server for managing via standard web browser.
- Built-in micro-SD card interface for video storage on SD card.
- Built-in microphone for synchronized audio.
- Event scheduling.
- NAS storage access.
- Online Firmware upgrade, will enter safe mode when power is off during critical firmware upgrade point.
- Watchdog function to prevent system failure

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Spec sheet

Power	DC 5V, 2A
Processors	RISC CPU, hardware video processing and compression.
Network interface	Ethernet 10BaseT/100BaseTX, Auto-MDIX, RJ-45
Wireless interface	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
Pan/Tilt control	Pan range 130° (-65° ~ 65°) Tilt range 90° (0° ~ 90°) Auto pan mode Auto patrol mode
Image sensor	RGB VGA 1/4 inch CMOS Automatic exposure control, automatic white balance, automatic Gain control, automatic brightness control.
Light sensitivity	0.2 Lux
Lens	3.2 mm, F2.0,
Viewing angle	60.3°, fixed iris.
Focus range	30 cm to infinity
D/I D/O interface	1 D/I for alarm detection 1 D/O for alarm triggering
Micro-SD card interface	Micro-SD card interface for local video storage Card Capacity is up to 16Gb
Buttons	One reset button, to factory default settings
Indicators	One LED for internet connection status indication One LED for Ethernet connection indication
Enable/disable	web configurable
Video compression profiles	MPEG-4 Part 2 (ISO/IEC 14496-2) with motion detection, Simple Profile, level 0-3
Frame rate	Up to 30 fps in all resolutions
Video streaming	MPEG-4 Separate frame rate/resolution/bandwidth settings for PC and mobile.
Video settings	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

*specifications are subject to change without prior notice



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Audio	Built-in microphone for audio monitoring
Audio compression	MP2 audio, AMR-NB for 3GPP/ISMA(RTSP streaming)
Security	Web management username/password protection Video display ID/password protection WiFi WEP and WPA security mode
Installation, management and maintenance	Installation tool on CD and Web-based configuration Automatic configuration backup and restore
Video management software	For video access and multi-camera management
Firmware upgrades	via FTP
Web browsing and management software requirements	Built-in web server for standard web browser access Pentium 4(or equivalent)1.0 GHz or higher 1 GB RAM
Supported protocols	IPv4, HTTP, TCP, ICMP, RTSP, RTP, UDP, RTCP, SMTP, SNTP, FTP, DHCP, ARP, DNS, PPPoE, etc.
Accessories (included)	Power adaptor, RJ45 Ethernet cable, installation guide, CD with installation tool/software and User's Manual, ID/Password card.
Video management software Users	Surveillance application for viewing and up to 16 cameras Up to 20 simultaneous unicast users (depends on video settings)
Alarm and event management	Events triggered by video motion detection Notification/upload of JPEG images over FTP and/or email
Dimensions and weight	120 x 91 x 84 mm, 350 g, camera body only.
Approvals	EMC - CE, FCC Part 15 Subpart B Class B Wireless RF - CE, FCC Part 15 Subpart C Power supply CE, FCC, UL, EN 60950
Operating conditions	0-50 °C
Humidity	20 - 80% RH (non-condensing)

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