



New type Network Camera with a wide range of sight. Remote Pan/Tilt/Zoom

Panasonic Network Camera gives you the ability to see there when you can't be there. Place cameras in your home, business, vacation home or almost anywhere else that you'd like to keep an eye on things, with no PC required on location! This is easy to install, easy to operate and require no additional software for your viewing PC.



21x optical zoom with an automatic and manual focusing features



1x



21x

The Network Camera has a 21x optical zoom and automatic and manual focusing features to provide you with detailed and distinct images.

High speed Pan/Tilt operation



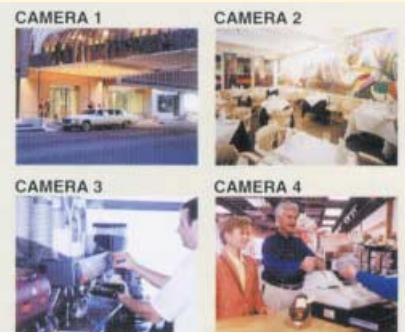
Ceiling Type
Pan 350°(Max)
Tilt 90°(Max)



Table Type
Pan 350°(Max)
Tilt 120°(Max)

The KX-HCM280 allows you to monitor a wide range of sight that has been traditionally impossible to monitor with just one Network Camera. Changing swiftly the direction of the Network Camera for the fast-moving object.

Multi-Camera Screen



Using Multi-Camera screen, you can simultaneously access up to four Network Cameras at various locations. Requires no operations that enter the address to switch among cameras. You do not need to install or set special software.

A wealth of Network Camera control functions

Pan Scan

You can move the Network Camera in a horizontal direction.

Tilt Scan

You can move the Network Camera in a vertical direction.

Remote Pan/Tilt operation

Changing the direction of the Network Camera on a web browser.

Pan: -175° to $+175^{\circ}$ /Tilt: -120° to $+90^{\circ}$

Zooming features

Zoom button increases or decreases the size of the object.

Focus control

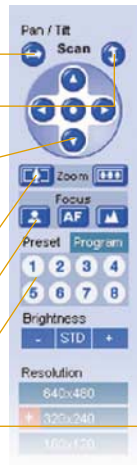
Manual focusing starts by pressing Near or Far button.

Preset Positioning

Preset Positioning allows you to fix the Network Camera in a specific direction.

Click to Center

When you click the certain point on the Single Camera screen, the point is centered on the image.



High-Speed Motion JPEG

The Network Camera employs a 380,000 pixel color CCD image sensor, and has an integrated web server. Motion JPEG displays up to 30 frames per second, if the network provides enough bandwidth. To conserve bandwidth, JPEG-Regularly Refresh can be selected from Top Page, Image Resolution, Image Quality, Refresh interval, Limit time of Continuous Motion JPEG and On the Air time features can control the image field.

External I/O

The Alarm mode in the Image Transfer feature requires that external sensors/devices be connected to the External Sensor Input of the External I/O. You can transfer images as the sensor is detected when set to "Transfer in the Alarm mode".



Transfer in the Timer mode

Transfer in the Alarm mode

- Transferring the image via e-mail or FTP when the alarm trigger is active.
- Notification by e-mail without transferring the image.

Transfer in the Timer mode

- Transferring the image via e-mail or FTP when the timer trigger is active. The timer trigger can be activated by entering the active time on the Image Transfer window.

Transfer window

- The timer mode uses the Network Camera internal clock. Please make sure Date and Time have been configured.

Also, you can save about 560 frames to the integrated memory. You can save images to specify a day of the week, time and refresh interval of recording.

Viewnetcam.com compatible (FREE DDNS service)

You can get your personal web address for your Panasonic Network Camera. It's FREE of charge! Please access www.viewnetcam.com for more information.

Viewing still images on your mobile phone

A compatible mobile phone allows you to view still images over the Internet as well as control the motion and zoom settings of the camera. (Panasonic GD87, GD88 only)

KX-HCM280 Specifications

Server	
Product Type	Web-server-integrated Indoor type network camera
Video Compression	JPEG (Motion JPEG)/3 levels
Video Resolution	640 x 640, 320 x 240 (default), 160 x 120
Image Quality	Favor clarity, Standard, Favor motion
Frame Rate*1	Max. 10 frames/second (640 x 480)*2 Max. 30 frames/second (320 x 240) Max. 30 frames/second (160 x 120)
Security	User ID/Password
Supported Protocols	TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, DDNS
User Access Limit	Max. 30 simultaneous access
Buffered Image*3	About 560 frames (320 x 240) with time display
Max. Bandwidth Control	0.1Mbps-Unlimited
Network Camera	
Zoom	Maximum 42x (21x optical, 2x digital)
Horizontal Viewing Angle	Tele: 2.6°, Wide: 51°
Pan:	-175° to $+175^{\circ}$
Tilt:	-120° to 0° (On the table)/ 0° to $+90^{\circ}$ (On the ceiling)
Revolving Speed	Pan: Max. 300° per second, Tilt: Max. 200° per second
Preset Positioning	8
Image Sensor	1/4 inches color CCD
Number of Pixels	380,000 pixels (Effective Pixels)
Focus	Auto/Manual (40 steps)
Exposure	Auto
Minimum Object Distance	Wide: 5 mm (0.2 inches) Tele: 1 m (40 inches)
Caliber Ratio	F1.6 (Wide)–3.6 (Tele)
Illumination	3 – 100,000 lx Color Night View mode: 0.1 lx (minimum)*

*Frame rate decreases in color Night View Mode

Terminal	
Network Interface	Ethernet (10Base-T/100Base-TX)
External I/O	1. GND 2. DC Power Output Terminal – 12 V DC 3. External Sensor Input 4. External Device Control Output
General	
Mounting	Desk/Ceiling mount, Tripod mount
Operation Temperature:	0°C to $+40^{\circ}\text{C}$ ($+32^{\circ}\text{F}$ to $+104^{\circ}\text{F}$)
Humidity:	20% to 80% (No Condensation)
Dimension (HWD)	140 mm (5.51 inches) x 123 mm (4.84 inches) x 123 mm (4.84 inches) (Only the unit)
Weight	645 g (1.42 lb.) (Only the unit)
Power Supply	AC adaptor: Input 100–240V AC Output 12 V DC
Consumption:	12W

*1 When power line frequency is 60 Hz. Frame rate varies according to the network condition, the PC performance, the image quality and the object situation.

*2 Scan lines may deviate when viewing moving objects with resolution at 640 x 480 because of the interlace-type CCD.

*3 The maximum number of frames depends on the image quality and the object situation in Buffered Image.

System Requirements

Operating System	Microsoft® Windows® 95, Windows® 98/SE, WindowsNT®4.0, Windows® 2000, Windows® Me, Windows® XP
Web Browser	Internet Explorer 5.0 or later Netscape Navigator® 4.7 The Network Camera image is not displayed correctly in the Netscape® v6.x.

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