

Panasonic

ideas for life

BB-HNP11

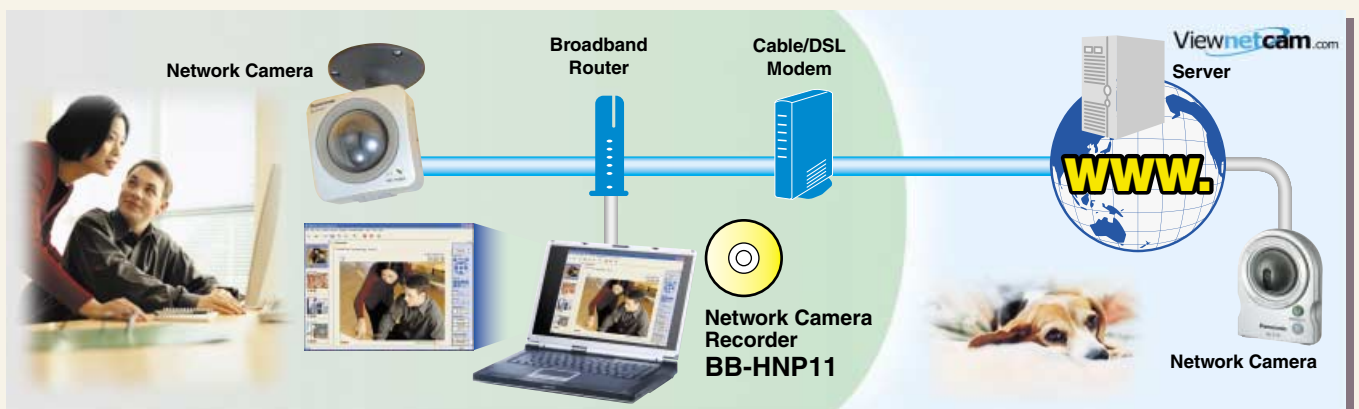
Network Camera Recorder



Record images from multiple Network Cameras

Still or motion images can be recorded over a network or via the Internet. Images from multiple cameras can be recorded simultaneously*.

*The Number of camera images which can be recorded simultaneously varies by the performance capabilities of the computer.





Recording or playing Images with Audio

The program lets you use a PC at a distant location for recording and playing back images with voices captured by a camera with 2-way voice communication[†] connected to the LAN or Internet. With the recording of both image and sound, you can “feel” the ambience that cannot be expressed by images alone. The program permits simultaneous recording of images captured by multiple cameras.

*Images and voices captured by a camera with 2-way voice communication[†] can be recorded while communication is carried out between the camera and the PC. When images with voices are recorded, the frame rate may decrease in some cases.

*Use of the program may cause voice transmission to be interrupted or moving images to stop in some cases, depending on the PC's performance and the network environment.

[†]Please see the Web site for details.

Motion Detection Recording and Timer Recording

The program is equipped with a motion detection recording function which activates recording only when people or other moving objects are detected and a timer recording function which starts and stops recording at specified times. These two functions can be combined so that the motion detection recording function is activated during a specified time period. In addition, the timer recording function allows up to ten settings for each camera, so different recording start and stop schedules can be set for weekdays and weekends.

*The detection sensitivity level of the motion detection recording and timer recording function varies depending on the camera resolution, image quality setting, subject condition, network conditions and other factors.

Recorded Image Search and Image Conversion Functions

Recorded images can be searched using conditions such as a preset keyword, recording type, motion detection recording and timer recording.

Furthermore, all or part of the retrieved image data can be converted to still image data in the JPEG or MPEG-1 format. The converted images can be viewed by using standard applications such as Windows[®] Media Player or Photo Editor.

Recording Capacity Limit

The recording capacity limit function lets you set the maximum amount of data to be recorded on the hard disk of the PC for each camera. When the set maximum amount is reached, old recorded data is overwritten by new data, thus allowing the hard disk space to be used more effectively.

Automatic Backup

This function copies and saves recorded data in another memory location at a preset time.

*Another PC or drive device on the network cannot be specified as the destination location. This function is not equipped with automatic overwriting.

*If the free space on the hard disk runs short, the system may become unstable. Be sure to allow sufficient free space (100 MB or more).

● File size of recorded image data Size of one image (image only)

Resolution	Size		
	Favor clarity	Standard	Favor motion
640 x 480	Approx. 50 KB	Approx. 33 KB	Approx. 20 KB
320 x 240	Approx. 25 KB	Approx. 16 KB	Approx. 8 KB
160 x 120	Approx. 7 KB	Approx. 5 KB	Approx. 3 KB

*The approximate recording capacity is calculated by using the following formula: Size (KB) x Frame rate (images/sec) x Recording time (sec) (Example)

One-hour recording of 640 x 480 resolution images at a frame rate of 12 images/sec in Favor clarity mode:

50 KB x 12 images/sec x 3,600 sec (1 hour) = 2,160,000 KB ≈ 2.06GB

In case of images with voices, 4 KB is added per each second:

2,160,000 KB + 4 KB x 3,600 sec = 2,174,400 KB ≈ 2.08 GB

BB-HNP11 Recording Program Specifications for Network Cameras

Camera registration	No. of registrable camera units	No limitation. Note that the actual number of registrable camera units varies depends on the performance of the PC used.
	Camera image view	Images captured by registered cameras are shown in small images on a single screen.
	Image display size	6 sizes from 320 x 240 to 60 x 45
	Camera setup	Each camera can be set up individually (camera name, resolution, image quality setting, recording format, timer setting, etc.)
	Selected camera image display	The image of the selected camera can be enlarged (640 x 240, 320 x 240)
	Image zoom in/out	Increase/decrease of image size in 25% steps (25% to 700%), image display size adjusted according to window size
	Camera control	Control of basic camera functions (pan/tilt/zoom, brightness, resolution, image quality, sound level)
Recording	Preset	Preset functions set in cameras can be used
	Recording file format	Original file format: Images and voices are recorded continuously in a moving image file.
	Recording media	Hard disk
	Recording resolution	640 x 480, 320 x 240, 160 x 120
	Image Quality	Favor clarity, Standard, Favor motion
	Recording interval	Not specified (based on camera's image update interval), specified: 2 images/second to 1 image/hour
	No. of camera units for simultaneous recording	Dependent on camera type and performance of PC. See the hardware specifications below.
	Recording capacity limit function	Maximum recording capacity value can be set for individual camera units (whether to save new data by overwriting or stop recording when the set capacity is reached can be selected.)
	Motion-detection recording	The unit can be set to activate recording when motion is detected (sensitivity and threshold value can be adjusted) or to record for a certain time length before and after motion detection.
Image operation	Timer recording	Programming of start and stop schedules based on day of week and time. Key word can be also set for recording. (10 schedules can be registered per camera)
	Disk capacity limit function	Monitors the free space on the specified recording disk, and stops recording when the free space becomes smaller than the set value.
	Continuous playback	Playback of images with voices, playback of image files. Playback speed can be varied.
	Recorded image view	Displays recorded image files in a list format.
	Operation of recorded images	Recorded images can be copied or deleted.
	Automatic backup of recorded images	Automatically copies recorded images in a specified folder at a set time.
	Format conversion	Converts all or part of recorded images to JPEG or MPEG-1 format.
Image search	Recorded image search function	Search using recording time or key word set before recording.

Specifications of compatible PC

Item	Description	Item	Description
OS	Microsoft [®] Windows [®] XP Professional Edition, Windows [®] 2000 (Service Pack2 or later)	Hardware specifications	When 10 network camera units are connected
			When 4 network camera units are connected
Web browser	Internet Explorer 6.0 or later	Recording condition	CPU: Intel [®] Pentium [®] 4 3GHz or greater, or equivalent compatible processor, RAM: 512 MB or more
File system	NTFS (NT File System) recommended		CPU: Intel [®] Pentium [®] 4 1.8GHz or greater, or equivalent compatible processor, RAM: 256 MB or more
		Voice*	Audio output function (including speaker or headphone)

*Applicable products: Cameras with 2-way voice communication[†] (in IPv4 connection).

*This product can be used only when IPv4 connection is used.

[†]Please see the Web site for details.

Panasonic[®]

<http://panasonic.co.jp/pcc/products/en/netwcam/>