

netCAMit

User's Guide

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Revision History

Version	Date	Changes
1.0.0.0	October 09, 2007	First Release of netCAMit User's Guide
1.0.0.1	December 12, 2007	Add the description of advanced network settings in Appendix B
1.0.0.2	October 30, 2008	Remove the description about Trigger In / Out connectors

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1. Product Overview

1.1 Introduction

netCAMit is a Plug & Play IP camera with a CMOS image sensor as well as built-in IP address, Ethernet Software Stacks and Protocols. Plug netCAMit directly to a RJ45 Ethernet port and watch the camera site from anywhere around the world. Connecting directly to Ethernet networks, netCAMit is a standalone digital network camera requiring no server at the camera site. Through the trigger in/out functions, netCAMit will provide a complete security solution for you with the easiest installation.

1.2 Features

- Low cost, DIY security camera – Simple installation and multiple mounting methods
- No computer is needed at monitored site
- Up to 8 users concurrently browsing the same camera
- Standard JPEG image format
- Trigger-in connector for connecting external sensor for extra security
- Trigger-out connector to alert other external device such as alarms
- Two-level password protection
- Optional security accessories package, including powerBox, RFIO, RF sensor and contact sensor for the wired/wireless trigger-in

1.3 Package Contents

- 1 x netCAMit camera
- 1 x CD with setup software, user's manual and quick installation guide
- 1 x RJ45 Ethernet cable
- 1 x Power adapter
- 1 x Desktop / Wall & Ceiling mount

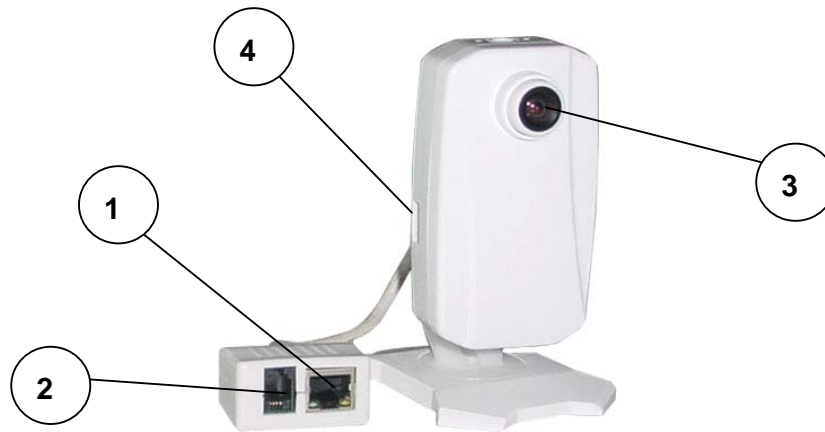
2. Physical Description

The following information contains the physical description of netCAMit camera. This includes the functions and the locations of each connector and indicator. The information provides useful reference when installing the product. Please familiarize yourself with netCAMit cameras.

2.1 Panels

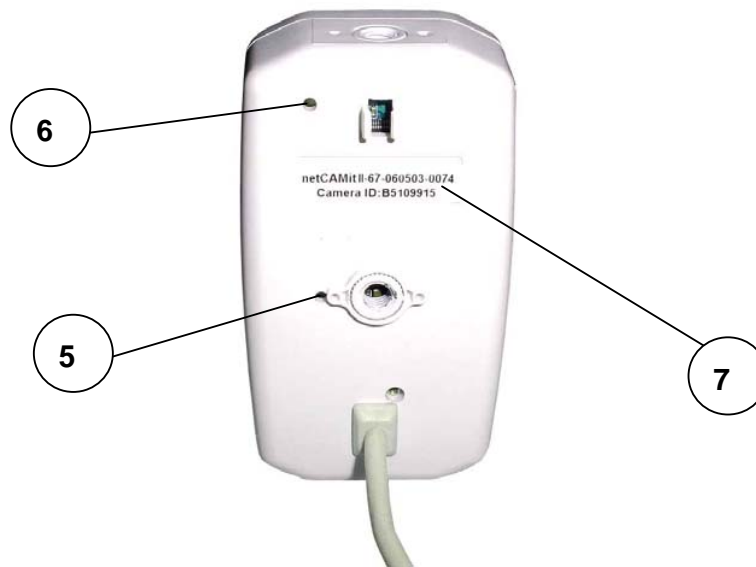
2.1.1 Front Panel

For more related description, please refer to the Section 2.2 and Section 2.2.1.



2.1.2 Rear Panel

For more related description, please refer to the Section 2.2 and Section 2.2.2.



2.2 Illustration

No. in Figures	Name on netCAMit	Description	Remark
1	RJ45 network connector	To connect to the camera and Ethernet port via RJ45 cable	Refer to section 2.2.1 for front panel information
2	RJ22 power supply connector	To connect to the camera and power adaptor via RJ22 interface	Refer to section 2.2.1 for front panel information
3	Lens	300k pixels CMOS sensor	Refer to section 2.2.1 for front panel information
4	RFIO slot	To install the optional RFIO device	Refer to section 2.2.1 for front panel information
5	SW_1	Press SW_1 button, then netCAMit will perform the power reset	N/A
6	SW_2	Press and hold SW_2 button for 5~10 seconds to reset the camera to its factory defaults	The green indicator LED of RJ45 port will light when it is finished with the reset procedure
7	Camera information	Serial number, camera ID and firmware version	Refer to section 2.2.2 for real panel information

2.2.1 Front Panel Information

RJ45 Network Connector

netCAMit is designed for 10/100Mbps Ethernet networks. netCAMit connects to the network via category 5 cable.

RJ22 Power Supply Connector

netCAMit adopts unique RJ22 cable for power supply. The special featured RJ22 cable includes Input / Output (I/O) function. Simply connect the Input / Output cable to the desired device and no hardware jumper fixing on camera is required.

Lens

netCAMit box includes a standard 60° wide angle lens fixed to the camera. Other types of lens are also available upon request. Please note that different price may apply to different lenses.

RFIO Slot

Plug the optional RFIO device for the wireless trigger-in.

2.2.2 Real Panel Information

Serial Number / Camera ID / Firmware version

The label sticker includes the serial number, camera ID and the firmware version of the camera.



NOTE:

If you have updated the camera firmware version, the firmware version information may no longer be valid.

3. Assembling Camera

netCAMit is designed for users to mount in three methods, including desktop, ceiling and wall (see the following figures). Please use the desktop strut or wall & ceiling strut separately to mount the camera based on your needs. The desktop strut is used for desktop mounting only, and the wall & ceiling strut is suitable for desktop, ceiling and wall mounting. The figures and description provided in the following section will assist you in assembling and installing the camera correctly. It is recommended to configure the camera before positioning the camera. The default method is the desktop mount with desktop strut.



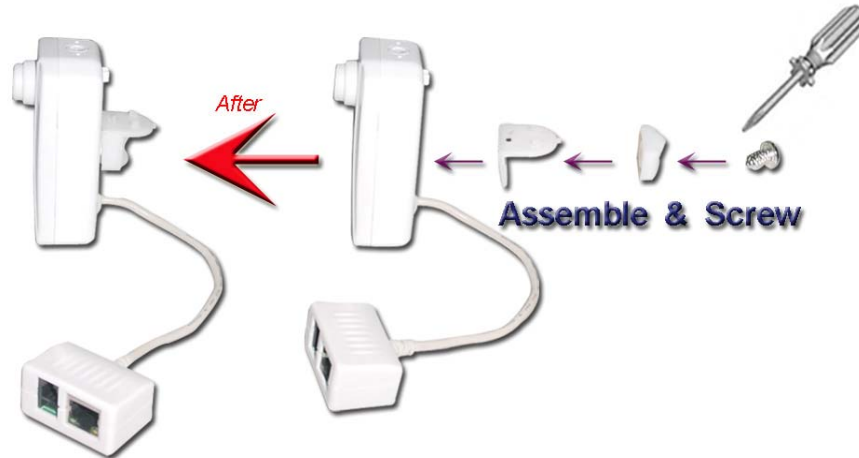
3.1 Mounting Methods

netCAMit comes with a desktop mount as the default purchase. If users would like to adopt wall & ceiling mount, please follow the steps below. Procedures of ceiling mounting are the same as the ones of wall mounting. The difference between these two mounting methods lies in the position of screwing. Here we only take the wall mount of netCAMit for example to demonstrate the mounting method.

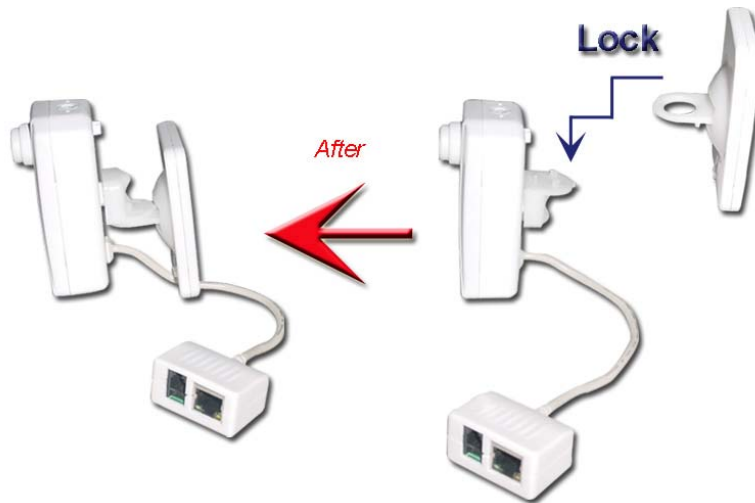
- (1) First, please unscrew and remove the desktop strut in advance.



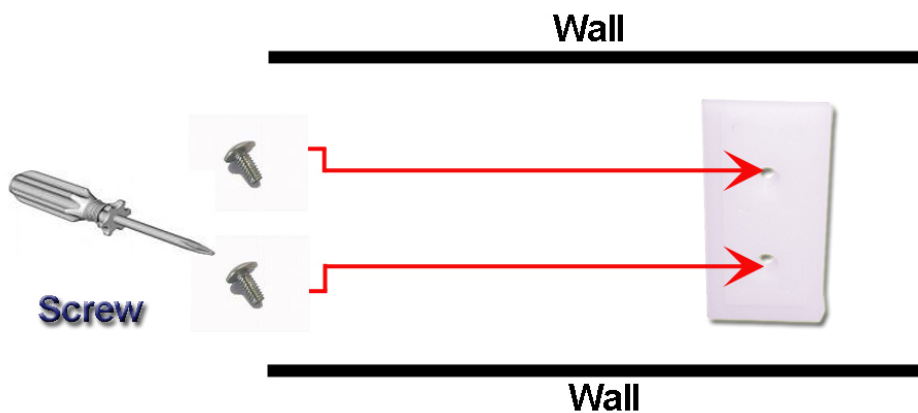
- (2) Assemble the wall & ceiling strut coming with the package, and then fasten the camera with the screw on the **BACK** of the camera. (For the ceiling mount, you should fasten the camera with the screw on the **TOP** of the camera.)



- (3) Link and lock the base coming with the package and strut together.

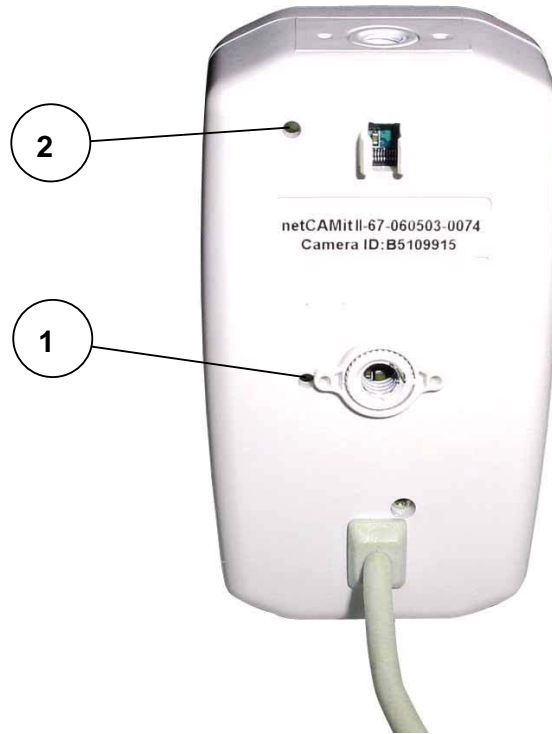


- (4) Before positioning the camera, please drill the wall at the desired position and screw the fixed board. Then, hang the camera on the fixed board along the slot of the bottom.



4. Reset Default

netCAMit provides “Reset Power” and “Reset Default” buttons that will be easy for users to reset the camera. The buttons locate in the back of the camera (See 1 and 2 of the figure below).



No. in Figures	Name on netCAMit	Description	Remark
1	SW_1	Press SW_1 button then netCAMit will do the power reset.	N/A
2	SW_2	Press and hold SW_2 button for 5~10 seconds to reset the camera to its factory defaults	The green indicator LED of RJ-45 port will light when it is finished with the reset procedure.

Default Setting for netCAMit:

- 1) DHCP
- 2) If IP is not assigned within 30 seconds, the default IP then will become: **192.168.8.99:8299**
- 3) Public password: blank
- 4) Supervisor password: blank

Appendix A – Technical Specifications

- Advanced 120 MIPS RISC processor(build in 64kB Flash program memory and 20kB SRAM data/program memory)
- 4M x 16bits SDRAM
- Lens:
 - Focal Length:3.6 mm
 - Aperture: F 2.0
 - Angle of View (DIA): ~60 degrees
- RJ22 for 5V DC /100~240V AC adaptor and trigger input /output
- Image Sensor Specification:
 - 1/5" CMOS Sensor
 - QCIF, QVGA and VGA
 - 30 frames/sec.
 - Dynamic range: 72 dB
 - Sensitivity: 1.0 V/LUX-Sec
- Trigger input: Normal Close to Open or Low to High TTL level
- Power Consumption: 5V DC/ 420mA
- International Image Standard
 - 640x480, 320x240, 176x144
- 24bit Colored Motion JPEG images
- Frame/Sec.
 - 640x480 @ 3 frames
 - 320x240 @ 8 frames
 - 176x144 @ 15 frames
- Operating Environment:
 - Temperature 0~55°C
 - Humidity 80% relative at 25°C
- Network Protocol:
 - UDP, TCP/IP, HTTP, NTP, DHCP, ARP, etc.
 - Automatically switch between 10/100baseT/TX Fast Ethernet
 - Customized Network communication protocol for avoiding hackers
- Weight: 100g (without the stand)
- Dimension of Main Body: 43 x 52 x 95 mm (without the stand)

Note: Any specification is subject to change without any notice.

Appendix B – Advanced Network Settings

If you are not using a router, very likely you are using a DSL modem with PPPoE for single PC or multiple PCs. If your Internet allows only one IP or has no more spare IP from PPPoE, you would need to buy a new router. If your PPPoE still have a spare IP, you could set up PPPoE for the camera.

■ Set up a new router

Find out the type of your WAN port of your Internet service: fixed IP, DHCP or PPPoE. (Please ask your Internet Service Provider for the connection details and information). Setup the new router according to the manual comes with the new router. After your PC connected to the new router is able to connect to the Internet, please follow the Quick Installation Guide for netCAMit to set up your camera.

■ Set up PPPoE for the camera

Please follow the steps below to set up your PC:

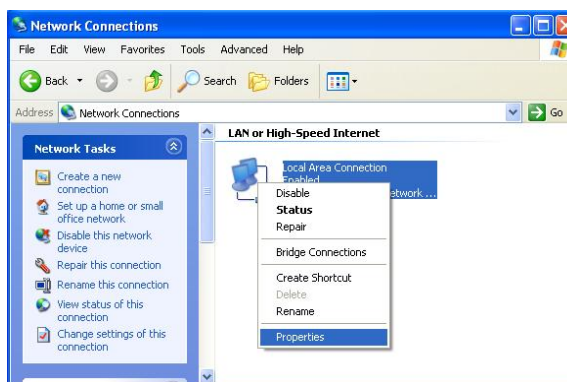
- 1) Go to Start → Settings → Control Panel.
- 2) Click “Network and Internet Connections”.



- 3) Click “Network Connections”.

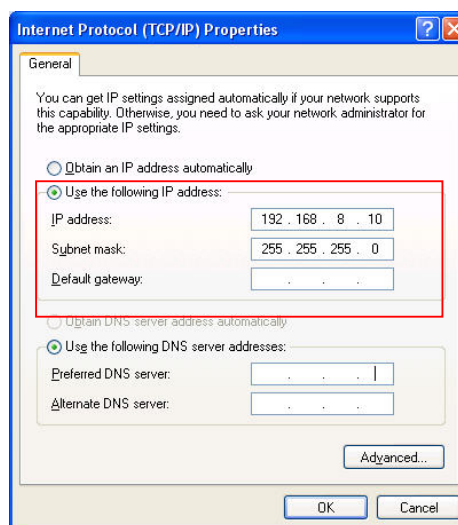


4) Highlight the icon “Local Area Connection”, right click your mouse, and choose “Properties” function.



5) Highlight “Internet Protocol (TCP/IP)”, and then press **Properties** button.

6) Choose “Use the following IP address”, and then follow the figure to input the IP address and Subnet mask. Finally, press **OK** button to exit the “Internet Protocol (TCP/IP) Properties” window.



7) Press **Close** button to close the “Local Area Connection Properties” window, and then follow eCAMit Deluxe User's Guide in CD to install the eCAMit Deluxe software to view cameras.