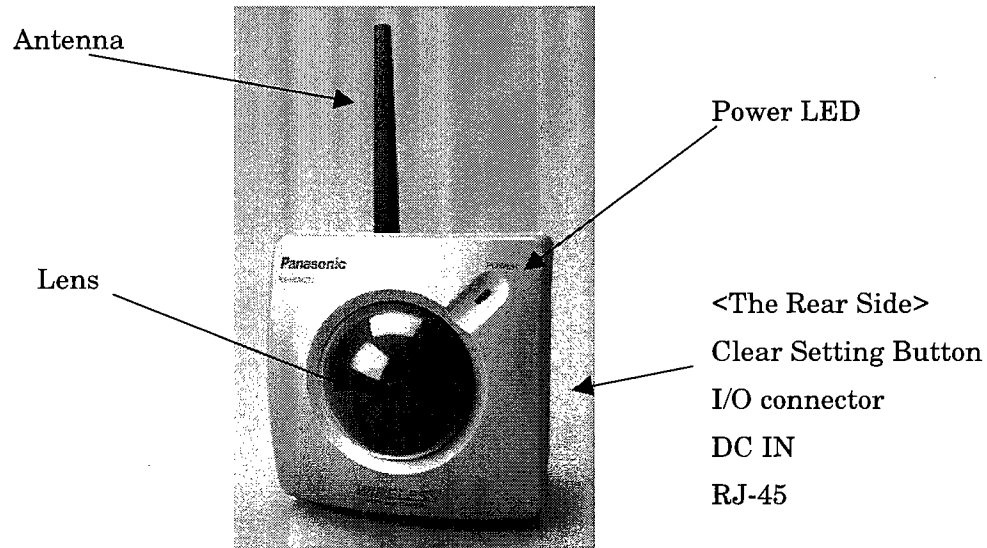


# KX-HCM270 Operation Description of Test Command

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## 1.Overview



## 2.Special Features

- 802.11b Wireless Communication
  - No Ethernet wiring needed
- Splash Resistant
  - Can be placed outdoors
- Remote PAN & TILT control
  - You can control the camera remotely from your Web browser\*.  
(Build in Camera including WWW Server.)
  - Convenient for checking the status of any site.
- Alarm Functions
  - Alarm Terminal : When alarm is activated to the camera, you can be notified by email and screen pop-ups---really useful in case of emergency.
  - Image Storing Memory : Up to 500 images can be stored before and/or after alarm trigger. The images are stored in the camera or transferred by e-mail.
- Access from anywhere via the Internet
  - Myeyecam.com service\*\* provides you the capability of accessing your network camera from anywhere through the Internet

### 3. Specifications

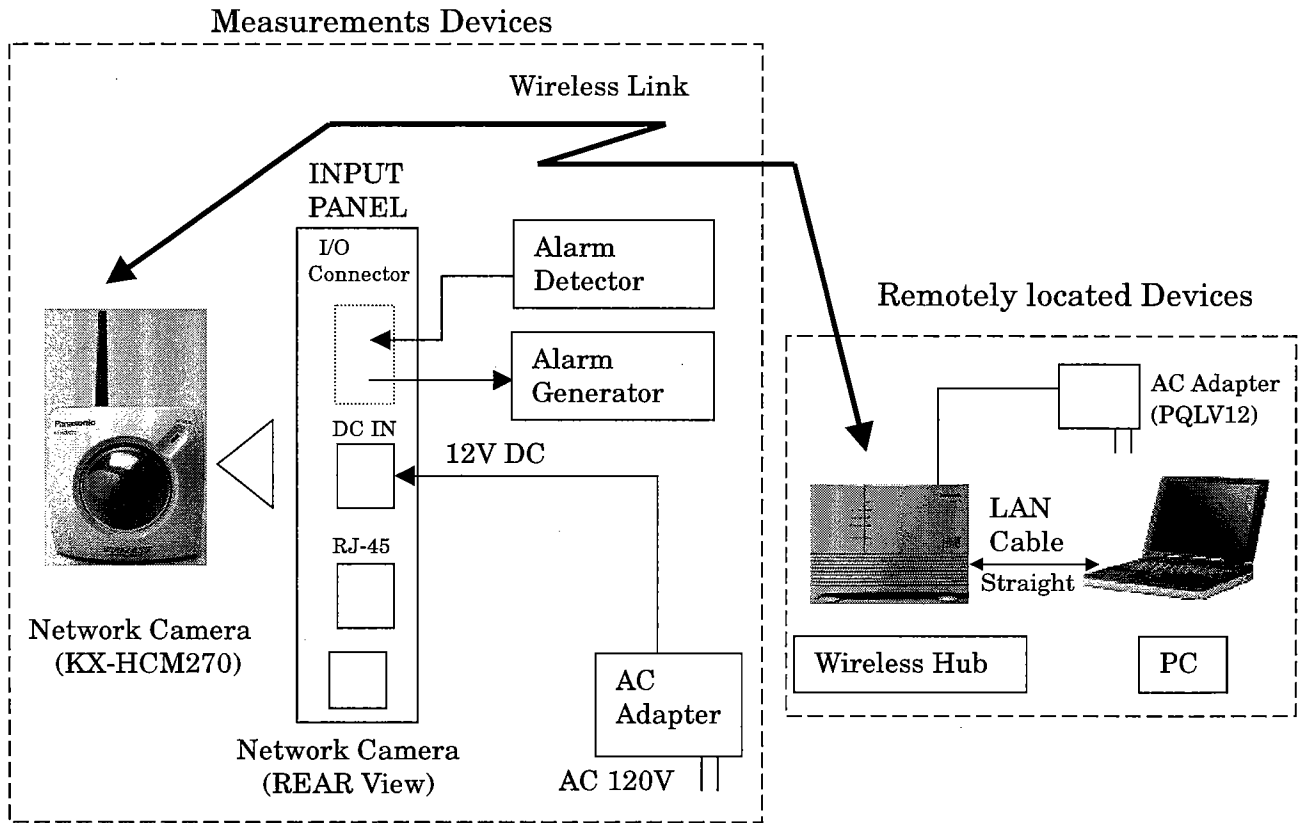
Network Interface:	Wireless(802.11b), Ethernet(RJ45)
Pan and Tilt :	-60° to +60° / 0° to -45°
Mounting:	Wall mount, desktop/ceiling mount/tripod mount
Image Transfer:	Security trigger interface
Video Resolution:	640x480, 320x240(default), 160x120
Illumination:	10-10,000 lx
Operating System:	Windows95/98/ME/NT4.0/2000
Network Protocol:	HTTP, FTP, SMTP, TCP/IP, UDP
Web Browser:	Internet Explorer 5.0 or later, Netscape Navigator 4.7
Number of Pixels:	320,000 pixels
Focus:	Fixed 1m - infinity
Horizontal Angle:	45°
Caliber Ratio(F No.):	F1.8
White Balance:	Auto/Manual/Hold
Exposure:	Auto
Adjustment:	Brightness, White Balance
Video Compressions;	JPEG/3 Levels
Image Buffer:	About 500 frames (320x240) with time display
Magnification:	100% or 150%
Firmware Upgrade:	via Wireless or Ethernet connection
Security:	Administrator or user password protection
Frame Rate:	Max. 7.5 frames/second(640x480) Max. 15 frames/second(320x240) Max. 15 frames/second(160x120)
Trigger:	Time(Date of the week, Hour, Minute, Second) Alarm-event(Sensor input)
Message Operation:	Notice of alarm outbreak
Message Method:	SMTP
Sensor I/O Connector:	Input: Open or GND / Output: Open Collector(DC15V/15mA MAX)
Voltage:	AC adaptor input: AC120V/ Output:DC 12V
Included Accessories:	AC Adaptor, Flexible Stand, TBD for other accessories
Dimensions:	116 x 116 x 88 mm
Weight:	TBD
Consumption:	6W
Humidity:	20 - 90%
Temp. to Operate:	-20 to 50 C ( 14 to 122 F)
Splash Resistant Standard:	JIS Class 4 / IP64

\*Internet Explore or Netscape

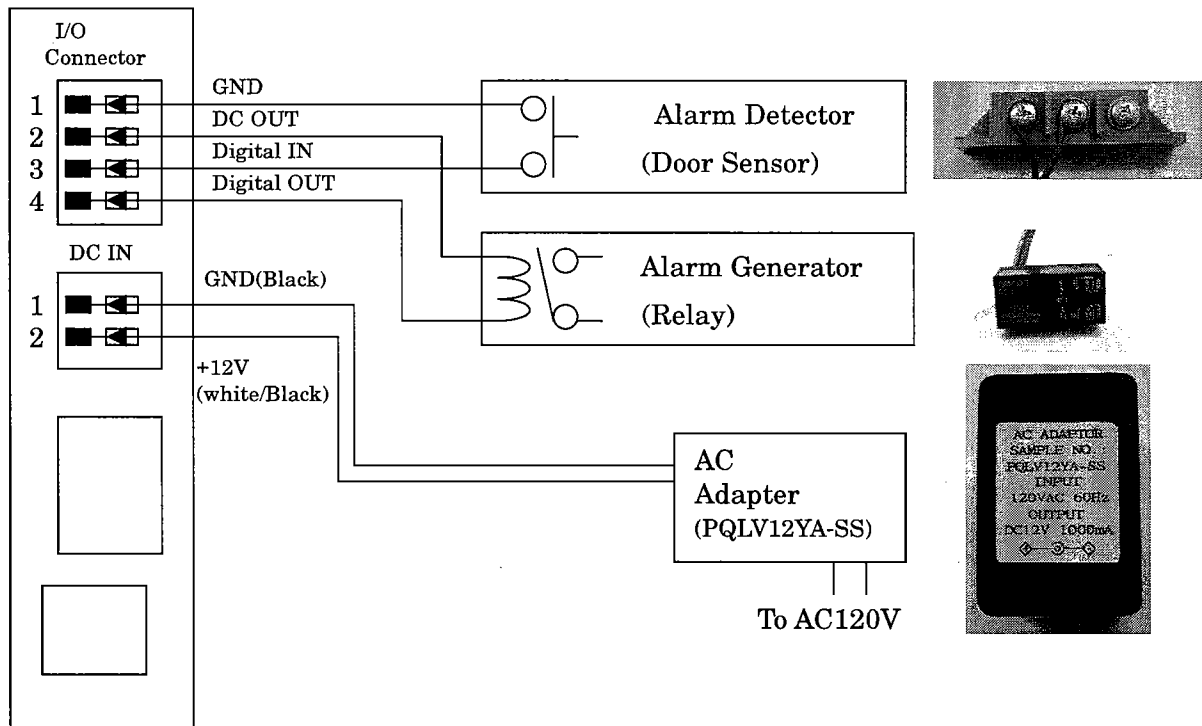
\*\* Required yearly charge for Myeyecam.com service

## 4. Normal Connections

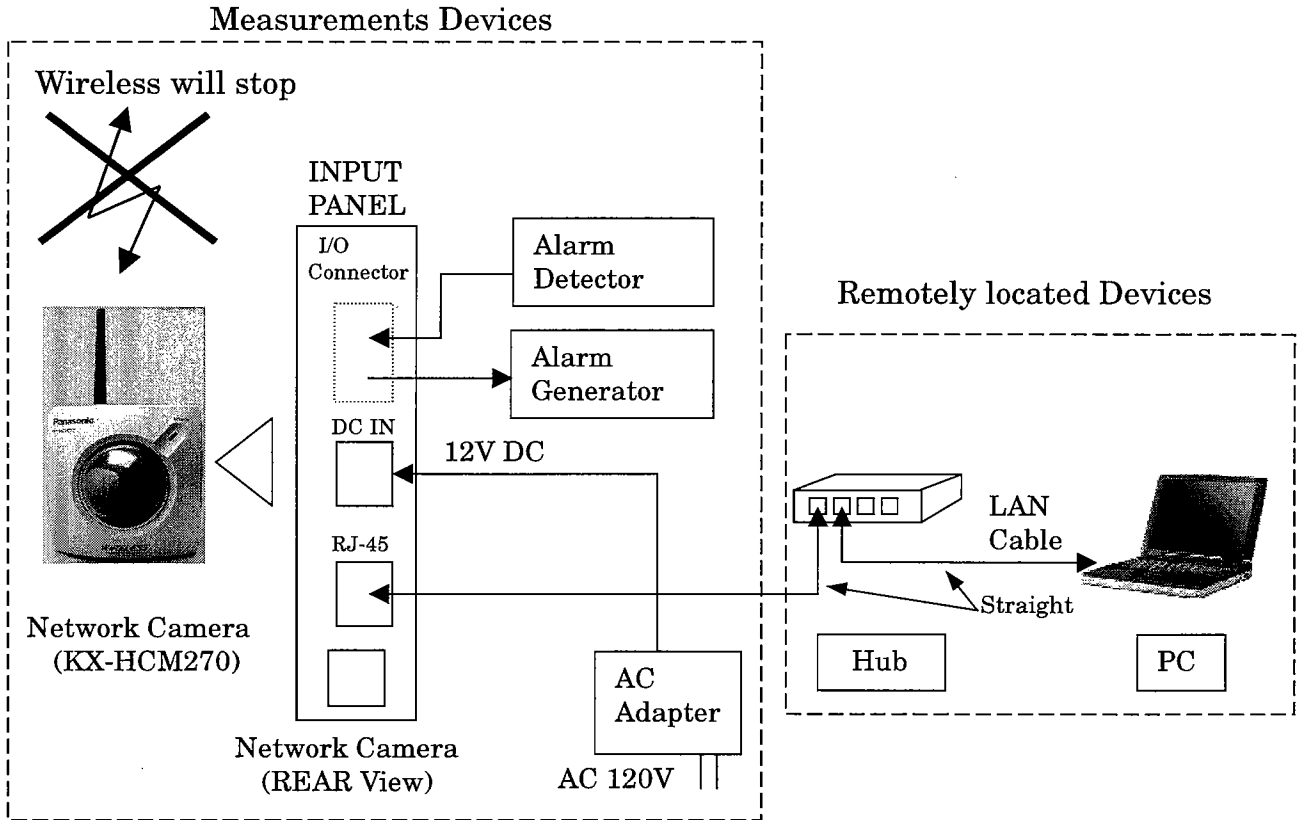
### 4-1. Wireless Communication



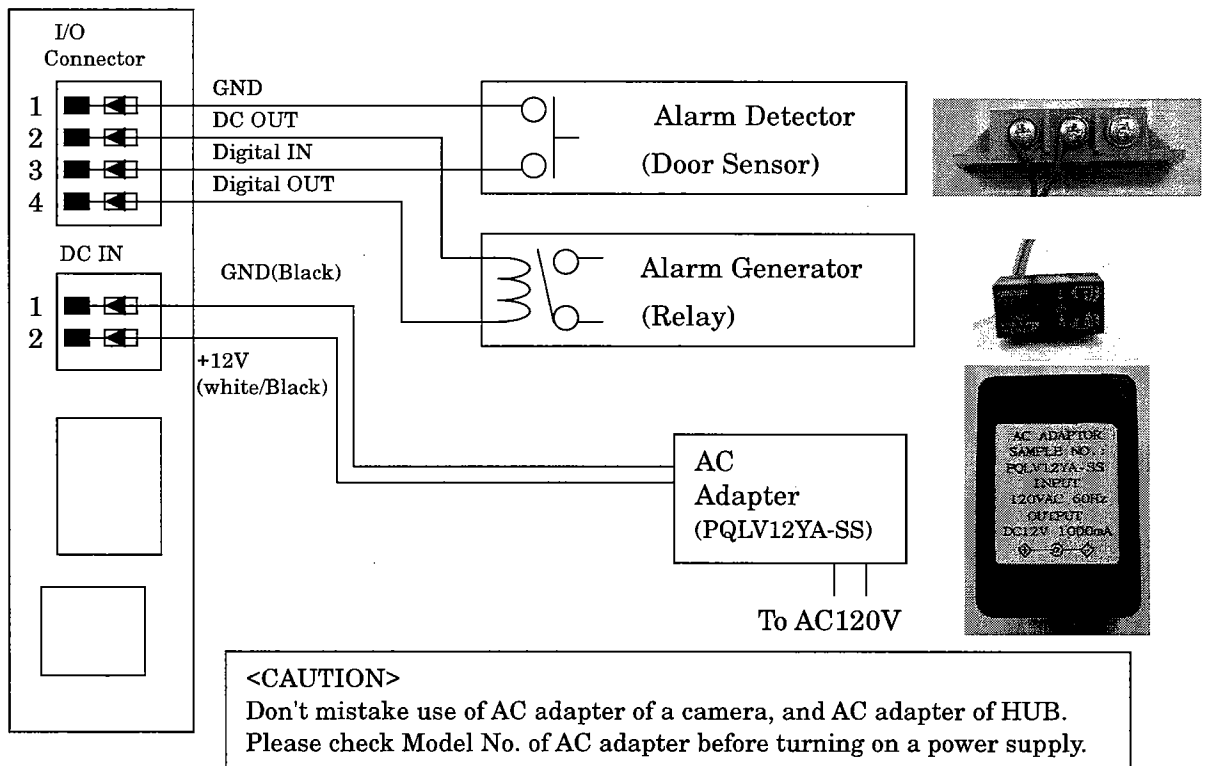
<The connection of the details of DC IN and I/O Connector>



## 4-2. Wired Communication



<The connection of the details of DC IN and I/O Connector>



#### 4-3. Notes at the time of connection

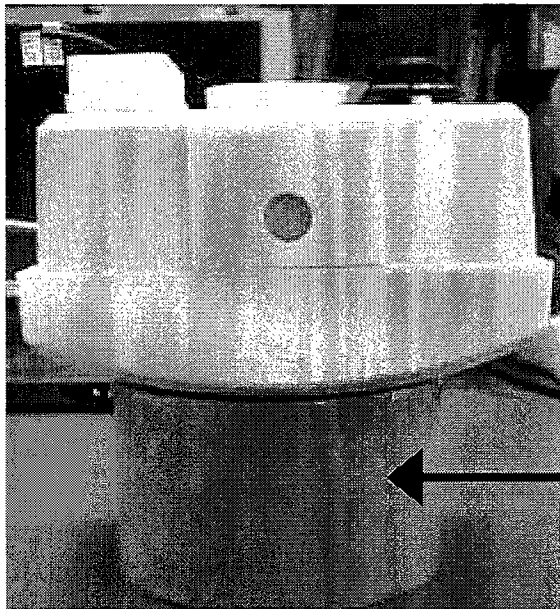
### CAUTION

1) About use of AC adapter

Don't mistake use of AC adapter of a camera, and AC adapter of HUB.  
Please check Model No. of AC adapter before turning on a power supply.

2) At the time of cable insertion

As shown in the following figure, a Network camera is carried out every  
width, and a cable is inserted.



It has attached to the sending set.

**\*Especially important**

**It is performing DC IN cable insertion carefully especially.**

## 5.Measurement Construction

### <Measurement Devices>

- Network Camera (EUT)
- AC Adapter
- Alarm Detector
- Alarm Generator

### <Remotely located Devices>

- Wireless HUB (At the time of Wireless Communication)
- HUB (At the time of Wired Communication)
- PC

## 6.Measurement Mode

### 6-1.Wireless communication

- Continuous Transmission (Tx)
- Continuous Receive (Rx)

### 6-2. Wired Communication

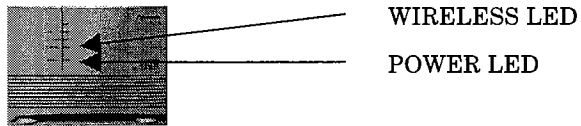
- Camera outputs pictures to PC.
- PC Monitor indicates the picture by web Browser.

## 7. How to operate a Test Command

### 7-1. Wireless communication

1) The power supply of WIRELESS HUB is turned on.

It checks that POWER LED and WIRELESS LED of HUB lights up.



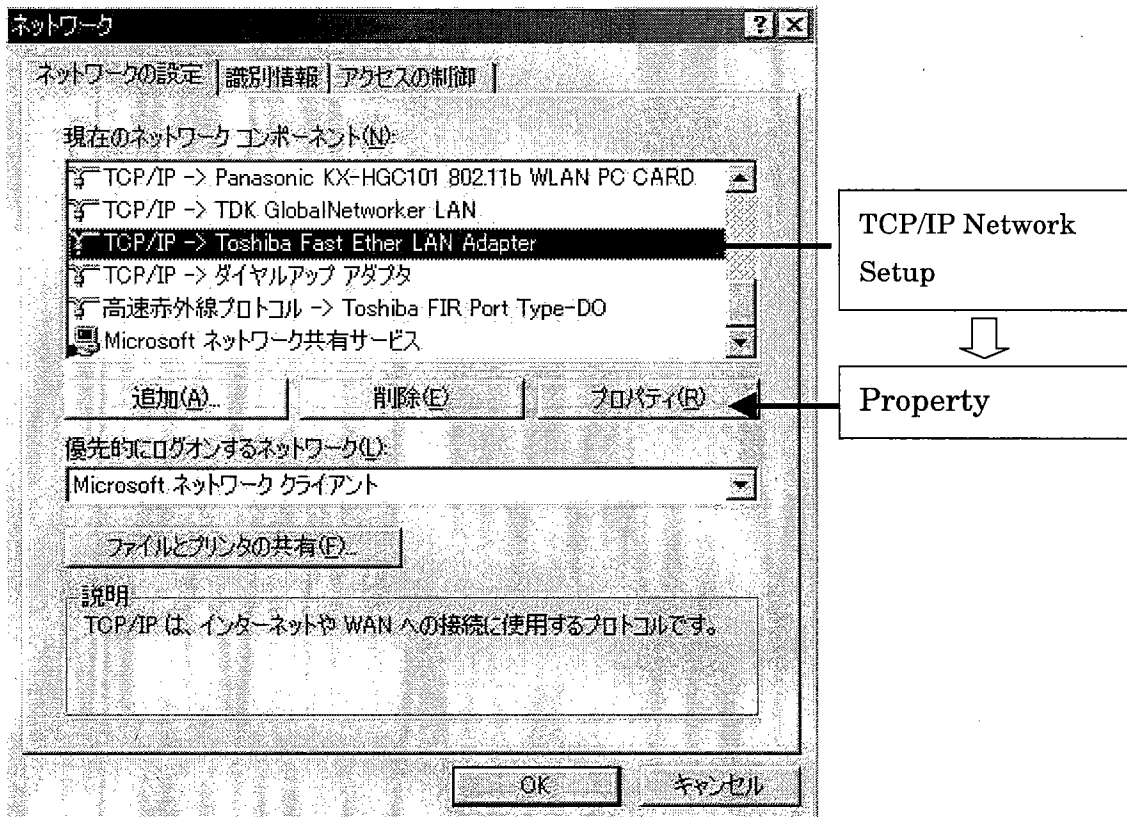
2) The power supply of PC is turned.

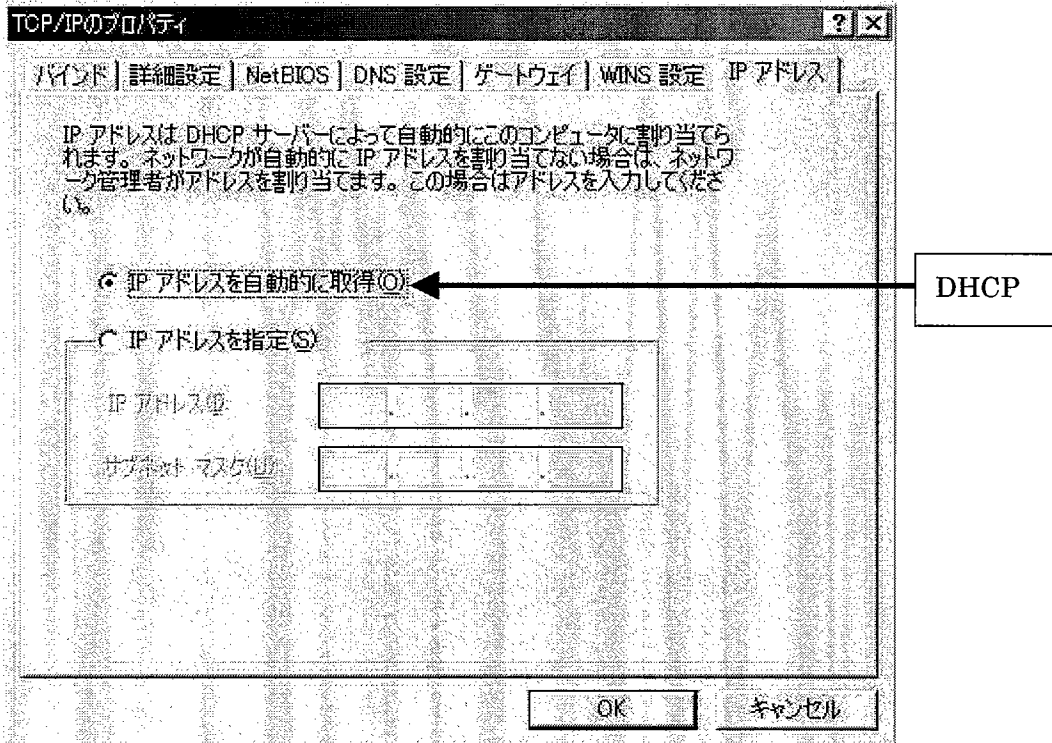
It checks that ETHERNET LED lights up.



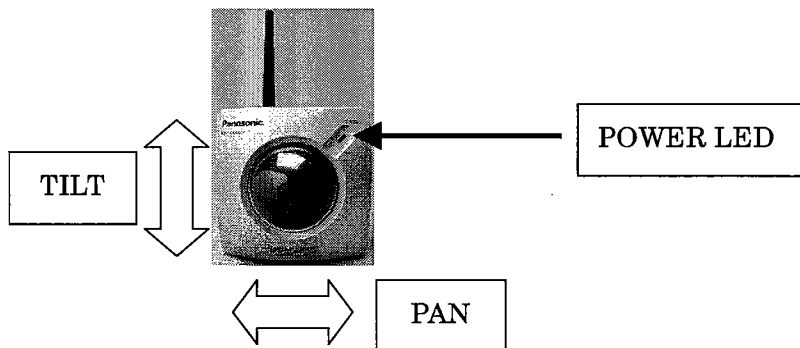
It is making the PC/HUB switch on the right side of HUB into PC side, when LED does not light up.

PC is setting a TCP/IP network setup to DHCP mode beforehand.

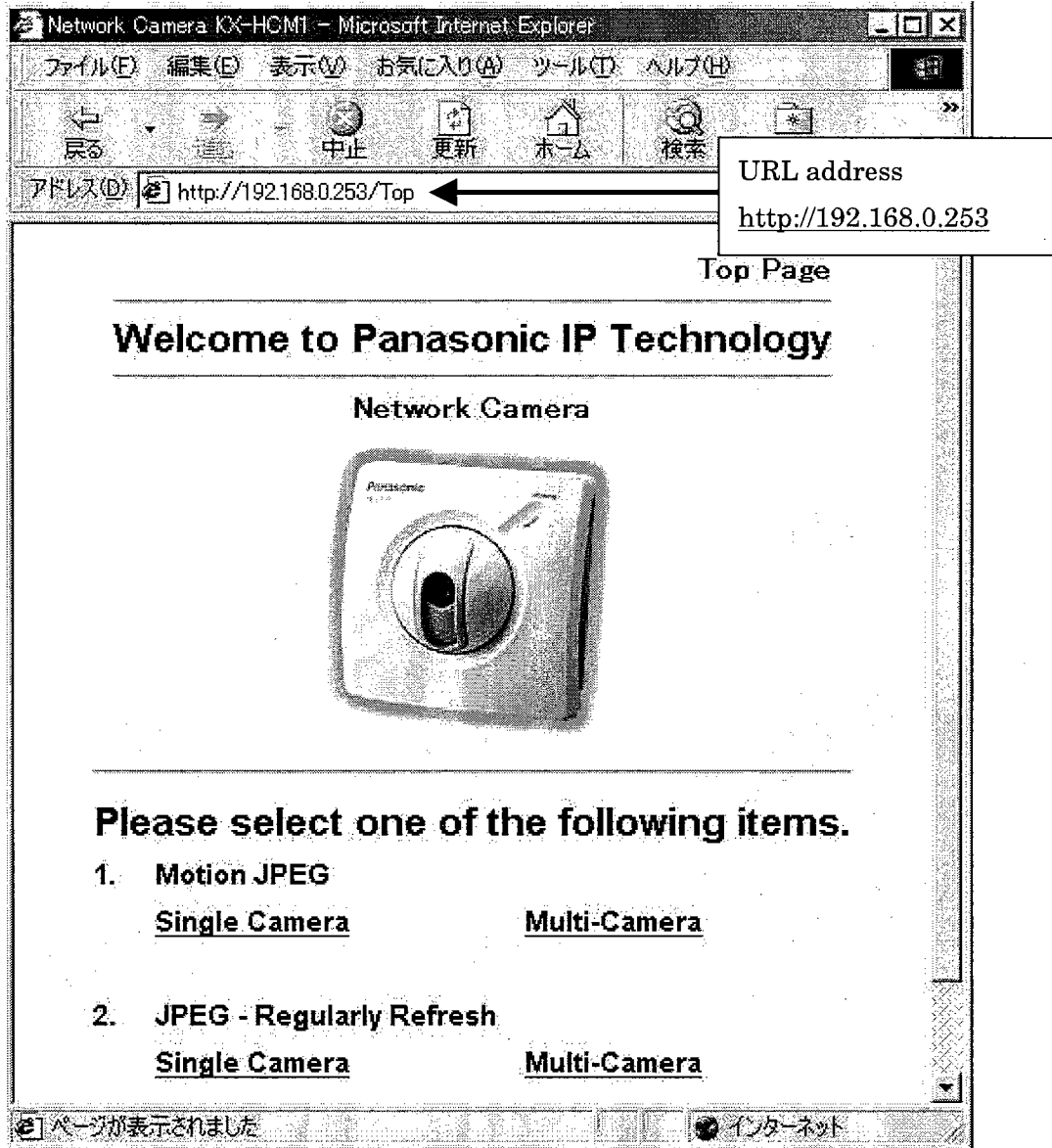




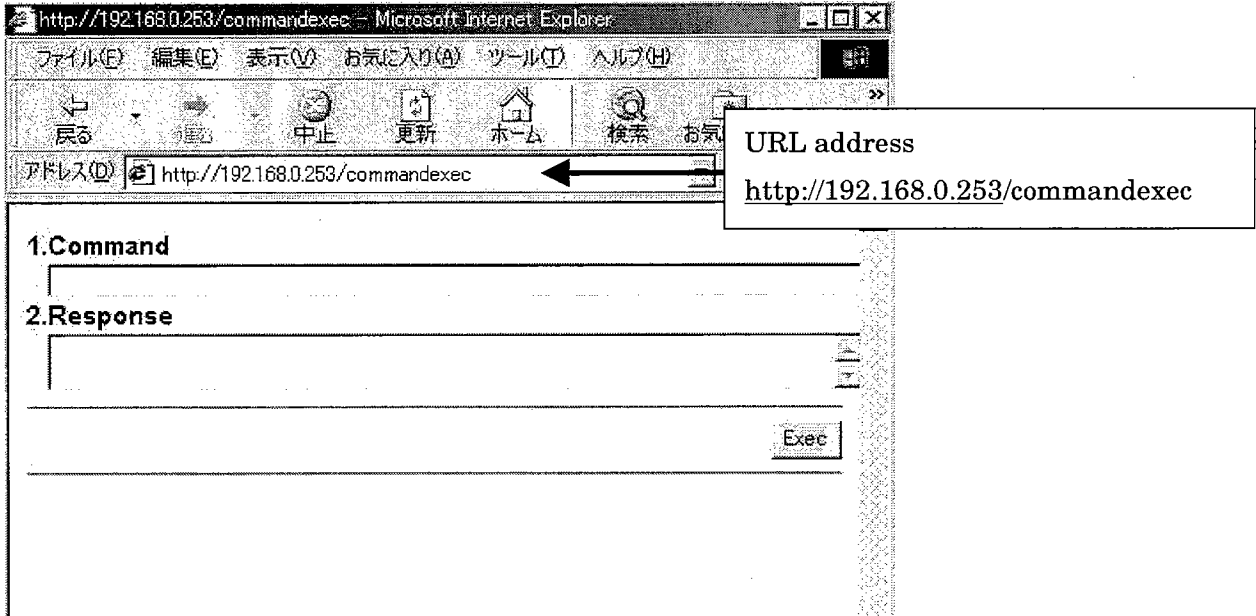
- 3) The power supply of EUT(Network Camera) is turned.  
 It checks that POWERLED lights up and PAN/TILT operation.



- 4) IE(Internet Explorer) of is started. The version of IE is 5.0 or later.  
http://192.168.0.253/Top is inputted into URL address and an enter key is pushed, then the WEB page of Network camera opens.



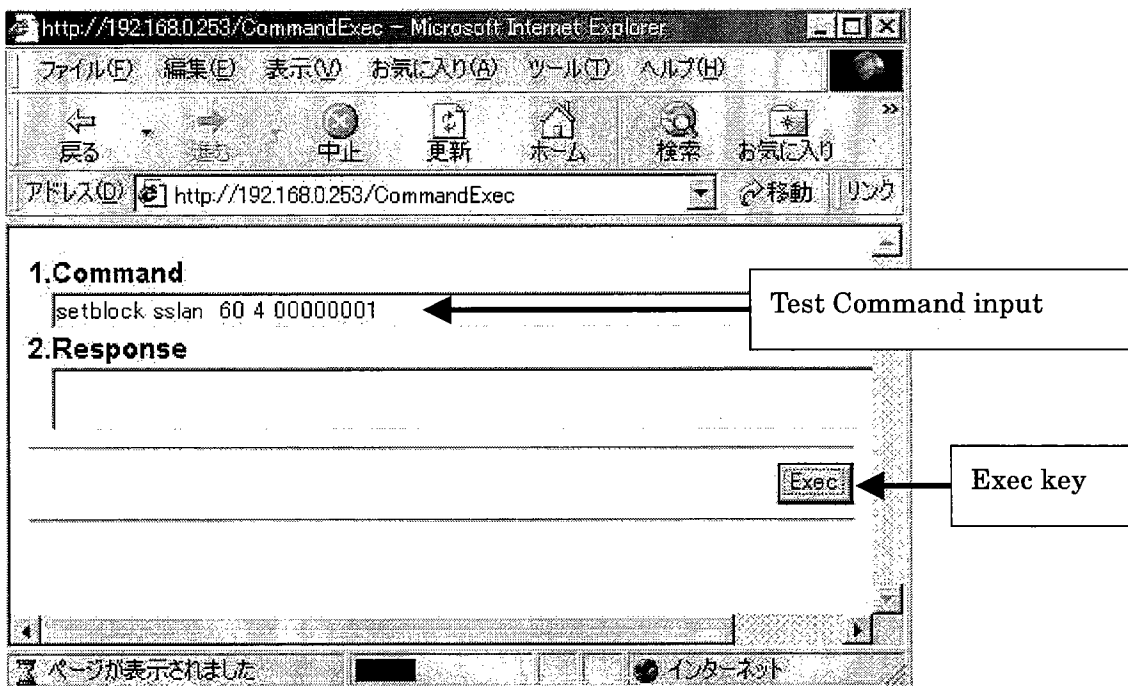
5) `http://192.168.0.253/commandexec` is inputted into URL address and an enter key is pushed, then the WEB page of Test Command mode opens



6) The item to measure is decided and the value of the following table A is inputted into a command column.

A camera will become the test mode if exec key is pushed after inputting a command.

The following figure is a setup of the Continuous transmitting Condition of 1 channel(2412MHz).



•Command table

Test mode	Channel	Command key
Continuous Transmission	1	setblock sslan 60 4 00000001
	2	setblock sslan 60 4 00000002
	3	setblock sslan 60 4 00000003
	4	setblock sslan 60 4 00000004
	5	setblock sslan 60 4 00000005
	6	setblock sslan 60 4 00000006
	7	setblock sslan 60 4 00000007
	8	setblock sslan 60 4 00000008
	9	setblock sslan 60 4 00000009
	10	setblock sslan 60 4 0000000a
	11	setblock sslan 60 4 0000000b
Continuous Receive	1	setblock sslan 62 4 00000001
	2	setblock sslan 62 4 00000002
	3	setblock sslan 62 4 00000003
	4	setblock sslan 62 4 00000004
	5	setblock sslan 62 4 00000005
	6	setblock sslan 62 4 00000006
	7	setblock sslan 62 4 00000007
	8	setblock sslan 62 4 00000008
	9	setblock sslan 62 4 00000009
	10	setblock sslan 62 4 0000000a
	11	setblock sslan 62 4 0000000b

Table A

**(CAUTION)**

It is carrying out Wireless HUB and PC to outdoor at the time of measurement, in order to carry out exact measurement.

7)After one measurement end turns off the power supply of a Network camera, turns on the power supply of a Network camera again, and resumes a test again from 4 clause.

That is, <http://192.168.0.253/Top> is inputted into URL address and an enter key is pushed, then the WEB page of Network camera opens.

**(NOTE)**

If a Network camera becomes the test mode, and the control from a wireless hub becomes impossible.

## 7-2. Wired Communication

### 1) When HUB to use has a router function.

PC is setting a TCP/IP network setup to DHCP mode beforehand.

(same as that of 7-1 clauses)

After that, the power supply of HUB is turned on ,and power supply of PC is turned on.

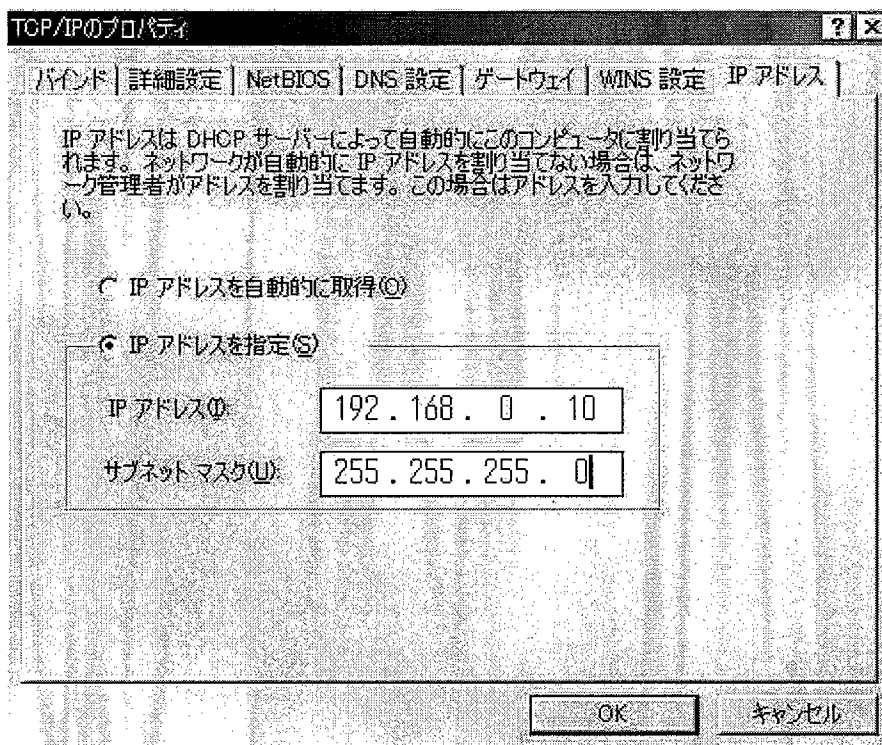
If it completes so far, it will progress to 3 clause.

### 2) When HUB to use has not a router function.

PC is setting a TCP/IP network setup to Static mode beforehand.

An IP address is setting it as 192.168.0.10.

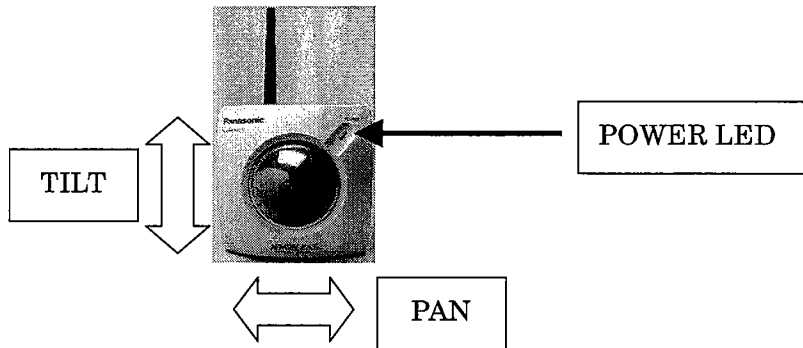
A subnet mask is setting it as 255.255.255.0.



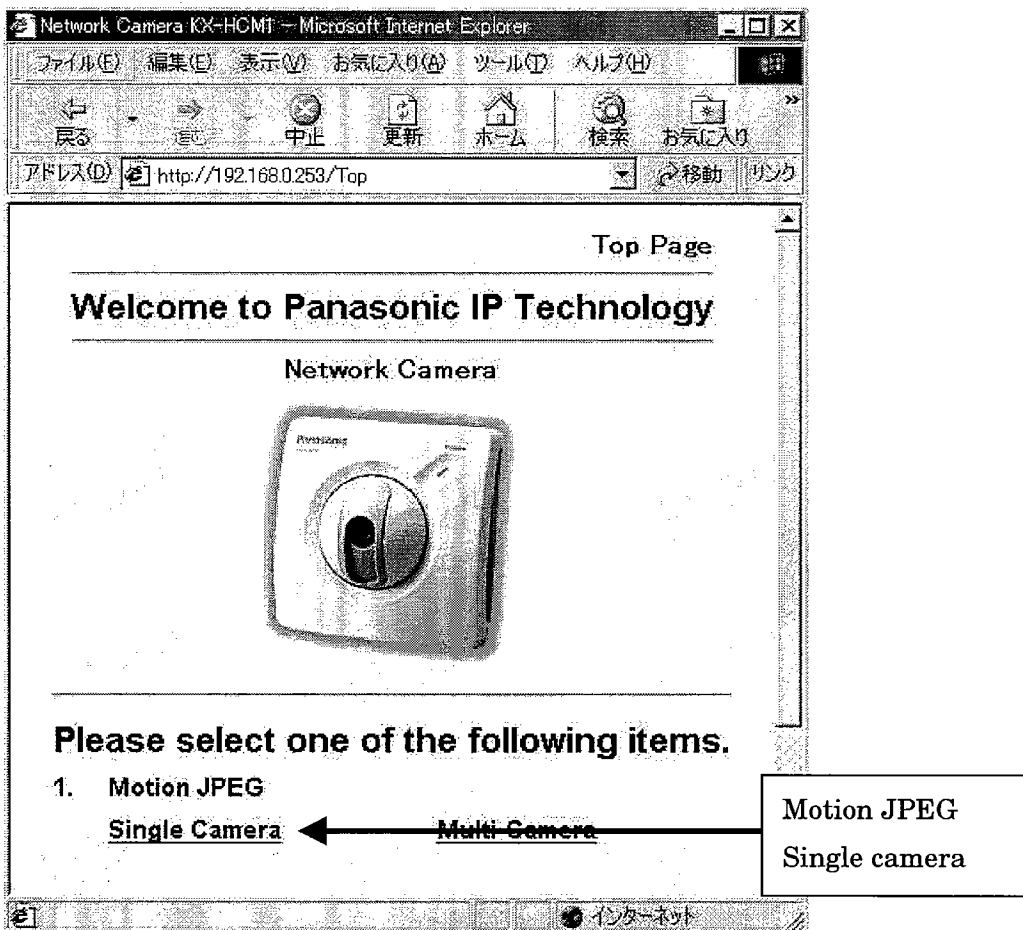
After that, the power supply of HUB is turned on ,and power supply of PC is turned on.

If it completes so far, it will progress to 3 clause.

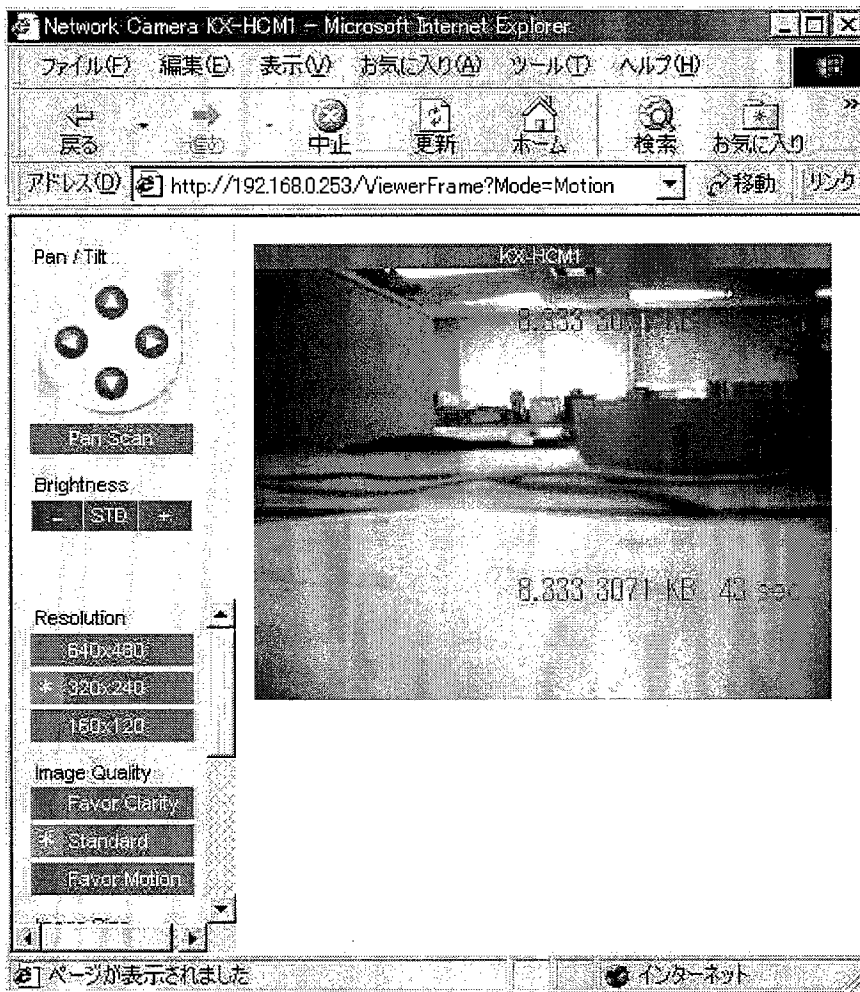
- 3) The power supply of EUT(Network Camera) is turned.  
It checks that POWERLED lights up and PAN/TILT operation.



- 4) `http://192.168.0.253/Top` is inputted into URL address and an enter key is pushed, then the WEB page of Network camera opens.  
5) The single camera of Motion JPEG is chosen.



6) It measures, after the screen has come out.



7) It measures in this state.

8) If all measurement is completed, the power supply of all apparatus will be turned off.

-end-