# **HD IR Weatherproof Network Dome Camera**

# **User's Manual**

Model No. K-EF134L02E

K-EF134L03E

K-EF134L06E

# Welcome

Thank you for purchasing our Network camera!

This user's manual is designed to be a reference tool for your system.

Please read the following safeguard and warnings carefully before you use this series product!

Please keep this user's manual well for future reference!

## **Important Safeguards and Warnings**

#### 1. Electrical safety

All installation and operation here should conform to your local electrical safety codes.

The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated DC12V in the IEC60950-1. (Refer to general introduction)

Please note: Do not connect two power supplying sources to the device at the same time; it may result in device damage!

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

We are not liable for any problems caused by unauthorized modification or attempted repair.

#### 2. Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

#### 3. Installation

Do not apply power to the camera before completing installation.

Please install the proper power cut-off device during the installation connection.

Always follow the instruction guide the manufacturer recommended.

#### 4. Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

#### 5 . Environment

This series network camera should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

Please keep it away from the electromagnetic radiation object and environment.

Please make sure the CCD (MOS) component is out of the radiation of the laser beam device.

Otherwise it may result in CCD (MOS) optical component damage.

Please keep the sound ventilation.

Thunder-proof device is recommended to be adopted to better prevent thunder.

#### 6. Daily Maintenance

Please shut down the device and then unplug the power cable before you begin daily maintenance work.

Do not touch the CCD (MOS) optic component. You can use the blower to clean the dust on the lens surface.

Always use the dry soft cloth to clean the device. If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device.

Please put the dustproof cap to protect the CCD (MOS) component when you do not use the camera. Dome enclosure is the optical component, do not touch the enclosure when you are installing the device or clean the enclosure when you are doing maintenance work. Please use professional optical clean method to clean the enclosure. Improper enclosure clean method (such as use cloth) may result in poor IR effect of camera with IR function.

#### 7. Accessories

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included.

Contact your local retailer ASAP if something is broken in your package.

Accessory Name	Amount
Network Camera Unit	1
Quick Start Guide	1
Installation template label	1
CD	1
Important Safety Instructions	1

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## 1 General Introduction

#### 1.1 Overview

This series network camera integrates the traditional camera and network video technology. It adopts video data collection, transmission together. It can connect to the network directly without any auxiliary device.

This series network camera uses standard H.264 video compression technology, which maximally guarantees the video quality.

It supports the IR night vision function. In the night environments, the device can use the IR light to highlight the object which is suitable for the surveillance function in the low illumination environments. The weatherproof design conforms to the IP 66 level. It has the sound weatherproof function suitable for use in the outdoor environments.

It can be used alone or used in a network area. When it is used lonely, you can connect it to the network and then use a network client-end. Due to its multiple functions and various uses, this series network camera is widely used in many environments such office, bank, road monitor and etc.

### 1.2 Features

User	Different user rights for each group, one user belongs to one group.		
Management	The user right shall not exceed the group right.		
Storage Function	<ul> <li>Support central server backup function in accordance with your configuration and setup in alarm or schedule setting</li> <li>Support record via Web and the recorded file are storage in the client-end PC.</li> <li>Support network storage function such as FTP.</li> </ul>		
Data	Data transmission via PoE.		
Transmission			
Network Monitor	<ul> <li>Network camera supports one-channel video data transmit to network terminal and then decode. Delaying time is within 270ms (network bandwidth support needed)</li> <li>Max supports 20 connections and output bandwidth is 32Mbps. System refuses new connection request once it exceeds the bandwidth threshold.</li> <li>Adopt the following video transmission protocol: HTTP, TCP, UDP, MULTICAST, RTP/RTCP, RTSP and etc.</li> <li>Support web access.</li> </ul>		
Network Management	Realize network camera configuration and management via Ethernet.  Support device management via web or client-end		
Power	<ul> <li>External power adapter DC 12V.</li> <li>Support PoE. (Please refer to specifications.)</li> <li>Warning!</li> <li>Do not connect these two power supplying sources to the device at the same time; it may result in device damage!</li> </ul>		
Assistant Function	<ul> <li>Log function</li> <li>Support VMD.</li> <li>Support system resource information and running status real-time display.</li> <li>Day/Night mode auto switch.</li> <li>Support picture parameter setup such as electronic shutter and gain setup.</li> <li>Backlight compensation: screen auto split to realize backlight compensation to adjust the bright.</li> </ul>		

- Support digital WDR.
- Support video watermark function to avoid vicious video modification.
- Built-in IR light. Support IR night vision.
- The enclosure conforms to the IP 66 protection. Has the weatherproof function
- Support dual bit streams, ACF..

# 1.3 Specifications

Please refer to the following sheet for network camera performance specification.

Model Parameter		K-EF134L02E	K-EF134L03E	K-EF134L06E
ဟ	Main Processor	High performance DSP  Embedded LINUX  Support real-time network, local record, and remote operation at the same time.  Remote operation interface such as WEB, Mobile-EMS, EMS  Bit stream statistics, log, and software version.		
yst	os			
System	System Resources			
	User Interface			
	System Status			
<u>&lt;</u>	Image Sensor	1/3-inch MOS		
dec	Pixel	1280(H)*960(V)		
Video Parameter	Day/night	Support day/night mode switch		
arai	Gain Control	Manual/Auto		
net	White Balance	Manual/Auto		
<u>ē</u>	BLC	On/Off		
	Exposure Mode	Auto/Low noise/Low mo		
Video Compression Standard H.264/MJPEG.				
	Video Frame Rate	( ) ( ) ( ) ( ) ( )		
Video Bit Rate  H.264: 32Kbps-8192Kbps  MJPEG: adjustable and bit rate is adjustable.  Support customized setup.			l bit rate is adjustable.	
	Video Flip	Support mirror. Support flip function.		
	Snapshot	Max 1f/s snapshot. File	extension name is JPEC	€.
	Privacy Mask	Supports max 4 privacy mask zones Support parameter setup such as bright, contrast. Channel title, time title, VMD, camera masking.		
	Video Setup			
	Video Information			
	Lens	2.8mm Fixed focus	3.6mm Fixed focus	6mm Fixed focus
	Lens Interface	M12. Lens is the defaul	t accessories	
Video	VMD	396 (18*22) detection zones; sensitivity level ranges from 0 to 100; area threshold ranges from 0 to 100. Activation event: video storage, image snapshot, log, email function and etc.		

Re Ba	Record Priority	Manual >Video detect>Schedule		
Record and Backup	Storage Management	Network storage		
	Wire Network	1-channel wire Ethernet port, 10/100 Base-T Ethernet		
Network	Network Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP(Required to synchronize to recorder), DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour		
×	Remote Operation	Monitor, system setup, file download, log information, maintenance, upgrade and etc		
	Restore Default Setup	Reset button		
	IR light	IR light 20M.		
	Power	DC12V power and PoE.		
General Parameter		Warning!  Do not connect these two power supplying sources to the deviceat the same time; it may result in device damage!		
ıl Par	Power Consumption	DC12V 330mA PoE DC48V 90mA		
amet	Working Temperature	-20°C~+60°C		
er	Working Humidify	≤95%		
	Dimensions(mm)	Φ113×86		
	Weight	290g (Excluding box)		
	Installation	Ceiling and wall mount		

#### Note

- Panasonic Security Viewer is not supported
- EMS (E-Series Management Software) & Mobile-EMS do not support i-PRO series NVR
- Only SXVGA recording is available with i-PRO series NVR
- See support web page below for further details http://security.panasonic.com/\*\*\*

# 2 Structure

# 2.1 Components

You can refer to the following figure for multiple-function combination cable information. See Figure 2-1.

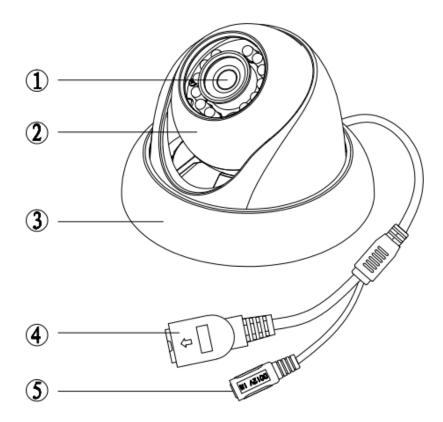


Figure 2-1 Multiple-function combination cable

No.	Component Name
1	Device lens
2	Dome body
3	Dome enclosure

No.	Port Name	Function	Connection	Note
4	LAN	Network port	Ethernet	To connect to standard Ethernet cable.
5	DC12V	Power input port		Power input port. Input DC 12V.

## 2.2 Framework and Dimension

Please refer to the following two figures for dimension information. The unit is mm. See Figure 2-2 and Figure 2-3.

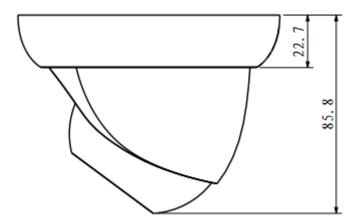


Figure 2-2 Dimension illustration 1

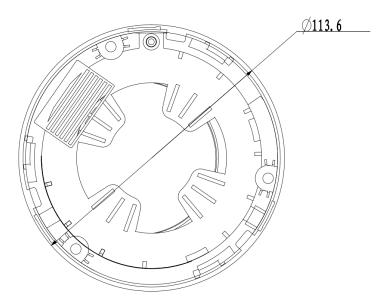


Figure 2-3 Dimension illustration 2

### 3 Device Installation

#### **Important**

- Make sure that the installation area is strong enough to hold the product, such as a concrete ceiling.
- Install the camera in the foundation area of the architecture or where sufficient strength is assured.
- If a wall or ceiling board such as plasterboard is too weak to support the total weight, the area shall be sufficiently reinforced.

Please see Figure 3-1 and Figure 3-2.

### 3.1 Installation Steps for Plastic Dome

Please follow the steps listed below to install the device. Please refer to Figure 3-1 for reference.

#### Step 1

Rotate decoration ring clockwise and take it out.

#### Step 2

Affix the installation template label (accessory) to the ceiling or wall, and use a pen to mark the positions of the screws and cable mounting hole in the ceiling or wall. Remove the installation template label and attach the camera with 3 screws (locally procured).

#### Step 3

Loosen the M3X8 cross pan head screw on pedestal, and be careful do not loosen completely. Now you can adjust position according to monitoring area. After adjustment, fasten the M3X8 cross pan head screw with sheeting.

#### Step4

Rotate decoration ring bottom up and face the three spigots toward the three slots. When you hear a "Ca" sound, it is rotated in place.

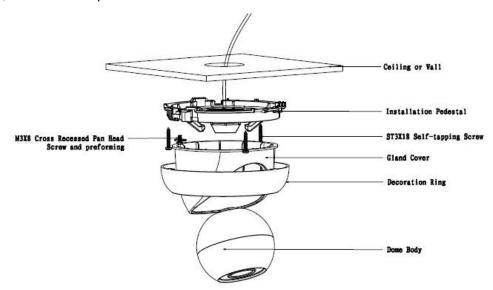


Figure 3-1 Device installation illustration 1

#### **Important**

Please pay attention to the dome camera direction when you are installing. Please refer to the following figure for detailed information. See Figure 3-2.

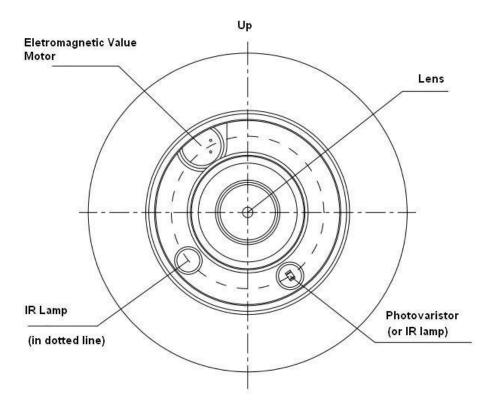


Figure 3-2 Device installation illustration 2

#### Note

This series product supports two cable exits. One is from the bottom and the other is from the side. Please refer to the following figure for cable exit from the side information.

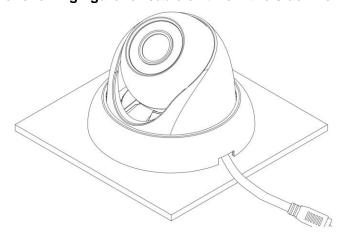


Figure 3-3 Device installation illustration 3

## 3.2 Restore Factory Default Setup Introduction

#### **Important**

Please use RESET button when device is running.

#### Step1

Please refer to step1 and step2 in chapter 3.1 to loose the dome body. Push a little bit; you can take the dome body from the gland cover.

#### Step2

Take the dome body out and then turn the top cover hard to remove.

#### Step3

Slightly press the RESET button to complete the reset function. See Figure 3-4.

#### Step4

Turn the top cover back to the original position. Please make sure it reaches the original position, otherwise it may result in water leakage!

#### Step5

Put the dome back to the gland cover. Please refer to step4 in chapter 3.1 to install the decoration ring back.

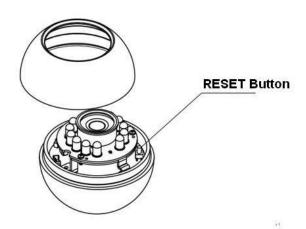


Figure 3-5 Reset

# **4 Quick Configuration Tool**

#### 4.1 Overview

Quick configuration tool can search current IP address, modify IP address. At the same time, you can use it to upgrade the device.

Please note the tool only applies to the IP addresses in the same segment.

### 4.2 Operation

Double click the "ConfigTools.exe" icon, you can see an interface is shown as in Figure 4-1. In the device list interface, you can view device IP address, port number, subnet mask, default gateway, MAC address and etc.

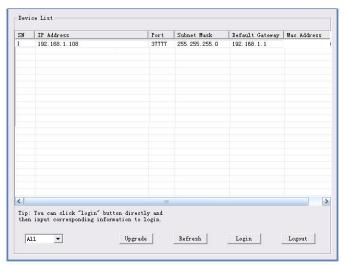


Figure 4-1 Search interface 1

Select one IP address and then right click mouse, you can see an interface is shown as in Figure 4-2. Select the "Open Device Web" item; you can go to the corresponding web login interface.

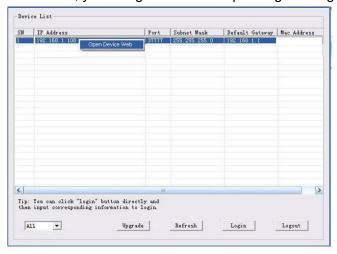


Figure 4-2 Search interface 2

If you want to modify the device IP address without logging in the device web interface, you can go to the configuration tool main interface to set. In the configuration tool search interface (Figure 4-1), please select a device IP address and then double click it to open the login interface. Or you can select an IP address and then click the Login button to go to the login interface. See Figure 4-3.

In Figure 4-3, you can view device IP address, user name, password and port. Please modify the corresponding information to login.

Please note the port information here shall be identical with the port value you set in TCP port in Web Network interface. Otherwise, you cannot login the device.

If you are using device background upgrade port 3800 to login, other setups are all invalid.



Figure 4-3 Login prompt

After you logged in, the configuration tool main interface is shown as below. See Figure 4-4.

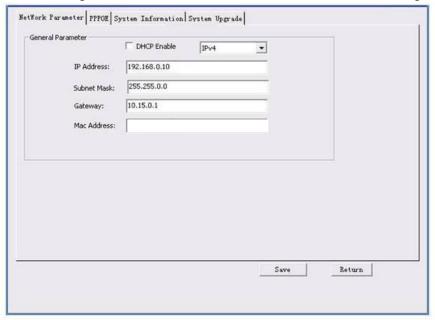


Figure 4-4 Main interface

For detailed information and operation instruction of the quick configuration tool, please refer to the *Quick Configuration Tool User's Manual* included in the resources CD.

## 5 Web Operation

This series network camera products support the Web access and management via PC. Web includes several modules: Monitor channel preview, system configuration, alarm and etc.

#### **5.1 Network Connection**

Please follow the steps listed below for network connection.

- Make sure the network camera has connected to the network properly.
- Please set the IP address, subnet mask and gateway of the PC and the network camera respectively. Network camera default IP address is 192.168.0.10. Subnet mask is 255.255.255.0. Gateway is 192.168.0.1
- Use order ping \*\*\*.\*\*\*.\*\*\*(\* network camera address) to check connection is OK or not.

## 5.2 Login and Main Interface

Open IE and input network camera address in the address bar. See Figure 5-1.

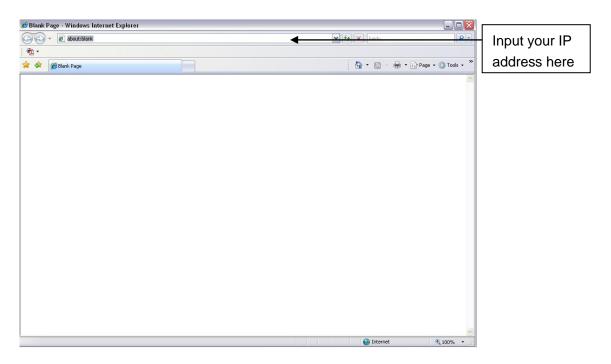


Figure 5- 1 IP address

The login interface is shown as below. See Figure 5-2.

Please input your user name and password.

Default ID is admin and PWD is 12345.

Note: For security reasons, please modify your password after you first login.

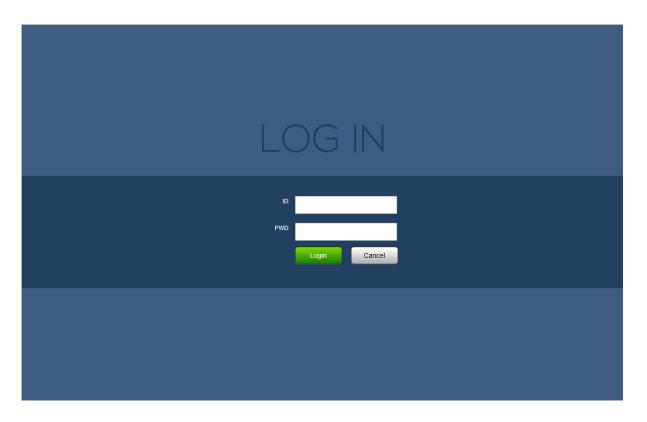


Figure 5- 2 Web login

If it is your first time to log in, system pops up warning information to ask you whether install web plugin or not after you logged in for one minute. For detailed plug-in installation, please refer to the Web Operation Manual included in the resource CD.

After you logged in, you can see the main window.

Please refer to the Web Operation Manual included in the resource CD for detailed operation instruction.

# 6 FAQ

Bug	
I can not boot up the device or operate properly.	Please click RESET button for at least five seconds to restore factory default setup.
The water leakage occurred.	The unauthorized front or rear cap remove many result in water leakage.
	The glass front cap has sustained heavy push or strike.
	The weatherproof plug of the rear cap becomes loosen.
IR video is poor.	Do not use the proper supplying power. The IR light can not turn on completely.
	The object is out of the IR distance range of current device.
	IR-CUT does not turn to the night mode. The photosensitive chip of the front-end can not sense the IR light.
I can not upgrade the device via network.	When network upgrade operation failed, you can use port 3800 to continue upgrade.
I can not login the	The Active X control is blocked.
client-end or the WEB.	The display card version shall be dx8.1 or higher.
	Network connection error occurred.
	Invalid network setup.
	Invalid ID or PWD.
I can not play the	There is no player.
download file.	There is no DX8.1 or higher.
	For the MEDIA PLAYER, there shall be Div X503Bundle.exe plugin if you play the .AVI file.
	For Windows XP user, you need to install the plugin DivX503Bundle.exe and ffdsho-2004 1012.exe.
To guarantee setup update	After you modified the important setup, please reboot the device via the software to make sure the setup has been updated to the storage medium.
Power adapter	The general power adapter can work ranging from 0°C to 40 °C. The device may result in unstable power supply when the temperature exceeds the working temperature.
	Please replace an industry-level power adapter if you are using in the harsh environments.

#### Note

- This user's manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.