

Indoor Zoom Dome Series Hardware Manual

B61, B64, B65, B67

2013/12/20





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Precautions

Read these instructions

You should read all the safety and operating instructions before using this product.

Heed all warnings

You must adhere to all the warnings on the product and in the instruction manual. Failure to follow the safety instruction given may directly endanger people, cause damage to the system or to other equipment.

Servicing

Do not attempt to service this video device yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Trademarks

All names used in this manual are probably registered trademarks of respective companies.

Liability

Every reasonable care has been taken during the writing of this manual. Please inform your local office if you find any inaccuracies or omissions. We cannot be held responsible for any typographical or technical errors and reserve the right to make changes to the product and manuals without prior notice.



Federal Communications Commission Statement



This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential

installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to the equipment that are not expressly approved by the responsible party for compliance could void the user's authority to operate the equipment.

European Community Compliance Statement

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to European Standard EN 55022 and EN 55024. In a domestic environment, this product may cause radio interference in which cause the user may be required to take adequate measures.



Safety Instructions

Cleaning

Disconnect this video product from the power supply before cleaning.

Attachments

Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

Do not use accessories not recommended by the manufacturer

Only install this device in a dry place protected from weather

Servicing

Do not attempt to service this video product yourself. Refer all servicing to qualified service personnel.

Damage Requiring service

Disconnect this video product from the power supply immediately and refer servicing to qualified service personnel under the following conditions.

- 1) When the power-supply cord or plug is damaged
- 2) If liquid has been spilled, or objects have fallen into the video product.
- 3) If the inner parts of video product have been directly exposed to rain or water.
- 4) If the video product does not operate normally by following the operating Instructions in this manual. Adjust only those controls that are covered by the instruction manual, as an improper adjustment of other controls may result in damage, and will often require extensive work by a qualified technician to restore the video product to its normal operation.

Safety Check

Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine if the video product is in proper operating condition.



Introduction

The List of Models

This hardware manual contains the following models:

B61	-	5MP Indoor Zoom Dome with D/N, Adaptive IR, Basic WDR, 3x Zoom lens
B64		1.3MP Indoor Zoom Dome with D/N, Adaptive IR, Basic WDR, SLLS, 3x Zoom lens
B65		2MP Indoor Zoom Dome with D/N, Adaptive IR, Basic WDR, SLLS, 3x Zoom lens
B67		3MP Indoor Zoom Dome with D/N, Adaptive IR, Superior WDR, 3x Zoom lens

From the installation perspective these models are very similar; therefore you can use one manual for all of them.



Package Contents

Camera	Mounting Screw Kit	Hexagon Screwdriver
No.		
Drill Template	Quick Installation Guide	Warranty Card
Drill Template		
Terminal Block (for Power)	Terminal Block (for DI/DO)	Terminal Block (for Audio In/Out)
12V GND		ALISHO AND ALISHO AND



Physical Description



1) Ethernet Port

Connects to a network using an Ethernet cable.

2) Memory Card Slot

Insert a memory card into this slot for local recording purposes. See *Using a Memory Card* on page 29 for more information.

NOTE: Supports microSDHC and microSDXC cards.

3) Digital Input / Output (DI/DO)

This connector connects to digital input or output devices, such as an alarm trigger, panic button, etc. Digital Input (DI) and Digital Output (DO) devices are used in applications like motion detection, event triggering, alarm notifications, etc. See *Prepare the DI/DO Connector (Optional)* on page 16 for information on how to connect DI/DO devices to your camera.

4) Audio Input / Output

This connector connects to audio input and output devices, such as microphones and speakers, using the bundled terminal block. See *Preparing Audio In / Out Devices (Optional)* on page 19 for more information.



5) DC 12V Power Input

In case the camera is connected to a non-PoE (Power over Ethernet) switch, use this connector to connect the camera to an external power adapter (not included). See *Prepare the Power Adapter (Optional)* on page 14 for more information.

6) Reset Button

The purpose of reset button is to restore the factory default settings of the camera, including the administrator's password.

The reset button can be used for following purposes:

- 1. The administrator's password has been forgotten and therefore the camera cannot be accessed.
- 2. In case of IP address, mask, or allow/deny filter related issues, resulting with inability to modify these settings.
- 3. In case of connectivity issues or abnormal video quality.

How to do the reset properly?

Press and hold the reset button for 5 seconds.



Mounting Options

There are several mounting options that you can use to install the camera. Select the most suitable solution for your installation environment.

Mount Types	Accessories			
Surface Mount	Suitable when mounting the camera directly on walls or ceilings without extra accessories. See <i>Installing the Camera on a Surface</i> on page 20 for mounting instructions.			
Flush Mount	Suitable when mounting the camera discretely above dropped ceilings wherein only the dome cover will be visible underneath the ceiling.			
	PMAX-1012			
Gang Box Converter	Suitable for locations which require the use of gang boxes. The Gang Box Converter is attached a "two-gang" box and the camera is installed on the Gang Box Converter. All cables are hidden inside the gang box.			
	PMAX-0804			
Pendant Mount	Suitable when mounting the camera on hard and high ceilings.			
	PMAX-0101 PMAX-0103 (Straight Tube with Bracket) Image: Constraint of the straight o			
	PMAX-0101 PMAX-0102 (Straight Tube)			



Mount Types	Accessories			
Straight Wall Mount	Suitable when mounting the camera on straight walls.			
	PMAX-0308 (L-Type Wall Mount)			
	PMAX-0101	PMAX-0305 (He	eavy Duty Wall Mount)	
Vertical Pole	Suitable when mounting the camera on vertical poles.			
Mount	PMAX-0101	PMAX-0305	PMAX-0503	
	•			
Horizontal Suitable when mounting the camera on hori			n horizontal poles.	
	PMAX-0101	PMAX-0102	PMAX-0503	
	•	Î		
Corner Suitable when mounting the camera o Mount			n a corner wall.	
	PMAX-0101	PMAX-0305	PMAX-0402	
			•	



Other Mounting Accessories

Accessories	
PMAX-0104 (Extension Tube)	
.TT	
+	

NOTE:

- For more information about the mounting solutions and accessories, please check the *Mounting Accessory Selector* in our website (<u>http://www.acti.com/mountingselector</u>).
- The above mounting accessories are not included in the package. Contact your sales agents to purchase.



Before Installation

This section describes the procedures in preparing the external devices that you can connect to the camera. The camera supports DC12V power input, Digital Input and Output (DI/DO) and Audio Input and Output devices using the bundled terminal blocks. The use of these devices, however, is optional.

Prepare the Power Adapter (Optional)

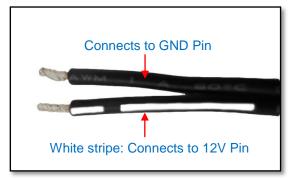
In case of using a non-PoE switch or your PoE switch has limited power supply, you can purchase a power adapter and directly connect the camera to a power outlet. The power adapter must be connected to the supplied terminal block before use.

To do this, follow the procedures below:

1. Loosen the screws of the **12V** and **GND** pins of the power terminal block.



2. Take note that a standard power adapter cable has two (2) different wires:





3. Connect the wire with the white stripe to the **12V** pin and the other to the **GND** pin.



4. Tighten the screws of the 12V pin and the GND pins to secure the wire connection.



5. Set the prepared power adapter for connection later. Below is an example of a power adapter with an attached terminal block.



NOTE: The power adapter is not bundled in the package.



Prepare the DI/DO Connector (Optional)

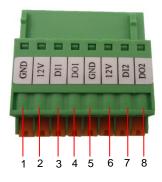
Depending on your surveillance needs, you may connect digital input or output devices to your camera to trigger events or notifications.

Digital Input (DI) devices can be used to notify the camera about an activity in the camera site. DI can be triggers of events. For example, you can connect a "panic button" to the camera; as such when the panic button is pressed, the alarm signal will be sent through the camera. Other common DI device applications are emergency button, smoke detector, passive infrared sensor, etc.

Digital Output (DO) devices are external devices that are activated by the camera upon an event inside the camera. For example, you can connect an "alarm horn" to the camera; as such when an event occurs inside the camera (e.g. detected intruder), the alarm horn will sound. Other common DO device applications are motion-triggered lights, electric fence, magnetic door locks, etc.

You can connect up to two DI and two DO devices to your camera.

Press and hold the orange tab as you insert the wire through the pin slot, then release the orange tab to secure the wire.



To connect input devices (DI), map the pins to one of the pin combinations below:

Device	Pin		Mapping Instructions
Digital Input 1	1	GND	Connect the wires of the first input device to GND
(DI1)	3	DI1	(Pin 1) and DI1 (Pin 3).
Digital Input 2	5	GND	Connect the wires of the second input device to GND
(DI2)	7	DI2	(Pin 5) and DI2 (Pin 7).



Device	Pin		Mapping Instructions
Digital Output 1	2	12V	Connect the wires of the first output device to 12V
(DO1)	4	DO1	(Pin 2) and DO1 (Pin 4).
Digital Output 2	6	12V	Connect the wires of the second output device to 12V
(DO2)	8	DO2	(Pin 6) and DO2 (Pin 8).

To connect output devices (DO), map the pins to one of the pin combinations below:

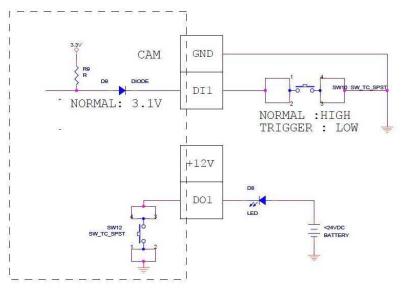
The table below shows the DI/DO connection specifications:

Device				
DI	Connection design		TTL - compatible logic levels	
	Voltage	To trigger (low)	Logic level 0: 0V ~ 0.4V	
		Normal (high)	Logic level 1: 3.1V ~ 30V	
	Current		10mA ~ 100mA	
DO	Connection design		Transistor (Open Collector)	
	Voltage & Current		< 24V DC, < 100mA	

Typical Connection

Based on these specifications, if the DI device has a voltage of $0V \sim 30V$ or the DO device has a voltage of < 24V (<100mA), then the camera can supply internal power to these devices and there is no need to connect the DI/DO device to an external power source.

In this case, wire connection to Pins 1 to 4. Use the **GND** and **DI1** pins to connect a DI device and use the **12V** and **DO1** pins to connect a DO device. See wiring scheme below:

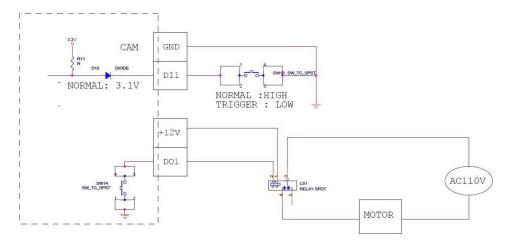




Consequently, to connect a second DI or DO device, wire the connection to Pins 5 to 8.

High Voltage DO Device Connection

Even though the camera provides 12V power, this may not be enough for some high voltage DO devices, such as a ceiling light or a motor that opens or closes a gate. In this case, there is a need to connect an external relay. See wiring scheme below:



Note that when choosing an appropriate relay, please refer to its specifications and make sure they match the above design. The triggering circuit voltage has to be around 12V DC and the switch-controlled circuit voltage has to match the external power supply (e.g. 110V AC or 220V AC).



The illustration below is a graphic example of connecting a relay to a high voltage DO device.

NOTE: For more information on DI/DO connections, please refer to the Knowledge Base article *All about Digital Input and Digital Output* downloadable from the link below (*http://www.acti.com/kb/detail.asp?KB_ID=KB20091230001*).



Preparing Audio In / Out Devices (Optional)

Depending on your surveillance needs, you may connect audio input or output device, such as an active microphone or speaker, to your camera. In this case, you need to connect the audio input/output device to the supplied audio terminal block.



To connect audio input / output devices, map the pins to one of the pin combinations below:

Device	Pin		Mapping Instructions
	1	GND	Connect the wires of the audio output device to GND
Audio Output	2	DI1	(Pin 1) and AUDIO.OUT (Pin 2).
	3	GND	Connect the wires of the audio input device to GND
Audio Input	4	DI2	(Pin 3) and AUDIO.IN (Pin 4).

Press and hold the orange tab as you insert the wire through the pin slot, then release the orange tab to secure the wire.

NOTE: For more information about AUDIO in connections, please refer to the Knowledge Base article <u>*How to Use Audio-in of ACTi Cameras*</u>, downloadable from the link below (<u>http://www.acti.com/support/KnowledgeBase/outside/detail.asp?KB_ID=KB20100114003</u>).



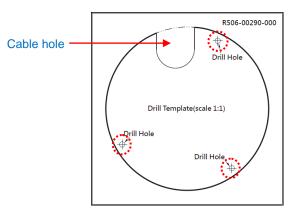
Installing the Camera on a Surface

This section describes the procedures in installing the camera on a flat surface such as a hard or dropped ceiling and straight or tilted walls. Before installation, make sure the wall or the ceiling can bear more than the weight of the camera.

Step 1: Drill the Holes

Before drilling the holes on the ceiling or wall, note the direction of the connectors side of the camera, which is also the opposite side of the camera logo. This influences the camera placement and where you should drill the hole where the cables will pass through or how the cables will go along the ceiling or wall.

- 1. Attach the supplied drill template sticker on the surface according to the preferred orientation.
- 2. Determine how the cables will be routed: pass through the surface or along the surface.
 - If the cables will pass through the surface, drill the cable hole and the three (3) screw holes on the surface.



- If the cables will be routed along the surface, just drill the three (3) screw holes on the surface.
- 3. Detach the drill template sticker from the surface and insert the plastic plugs into the screw holes.



Step 2: Open the Dome Cover

NOTE: To avoid scratches or leaving fingerprints on the dome cover, it is recommended to retain the plastic covering the dome cover until the camera is completely installed.

1. With the bundled hex screwdriver, loosen the three (3) screws securing the dome cover.



2. Lift to remove the dome cover.



3. *If the cables will be routed along the ceiling or wall,* remove the cable tab from the dome cover.



4. *If the cables will pass through the ceiling or wall,* route and pull the cables through the hole on the surface.

Step 3: Install the Camera to the Surface

1. If necessary, insert a memory card, with the metallic contacts facing down, into the card slot of the camera.



2. Align the camera screw holes and the cable hole (if necessary) to the holes on the surface and attach the three (3) supplied screws to secure the camera.



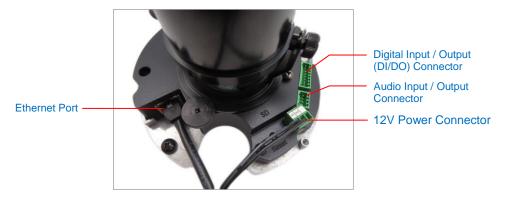
CAUTION: *When using electric screwdrivers,* be careful not to touch the camera components while attaching the screws. Since electric screwdrivers vary in sizes, speed, and force, they may bruise and damage the camera components.

DISCLAIMER: ACTi will not be responsible for camera damage caused by improper installations or the misuse of equipment for installation.

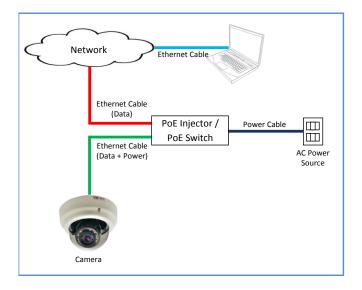


Step 4: Connect the Cable(s)

Connect the network cable to the Ethernet port of the camera.
 If necessary, connect other cable connectors (optional), like audio input/output, DC 12V power, and DI/DO to the corresponding connectors on the camera.



 Connect the other end of the network cable to a switch or injector. Then, connect the switch or injector to a network or PC and a power source. See Power-over-Ethernet (PoE) connection example below.



In case of using a non-PoE switch, power up the camera using a power adapter (not supplied). As needed, power up the other connected devices.

Step 5: Access the Camera Live View

See *Accessing the Camera* on page 30 for more information on how to access the Live View of the camera.

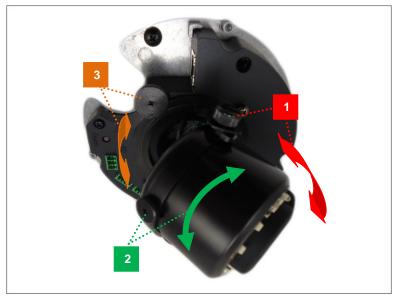


Step 6: Adjust the Viewing Angle

Camera Parts Overview



Adjustment Procedures



- 1. Loosen the tilt adjustment screws, adjust the tilt, and then tighten back the screws to fix the tilt position.
- 2. Loosen the rotation adjustment screw, rotate the viewing orientation, and then tighten back the screw to fix the orientation.
- 3. Loosen the pan adjustment screw, move the pan direction, and then tighten back the screw to fix the pan position.



Step 7: Close the Dome Cover

 Align the screws with the screw holes of the camera. Note that if the cables are routed along the ceiling or wall, route the cable to pass through the cable hole on the dome cover.



2. Tighten the three (3) screws to attach the dome cover to the camera body.



3. Remove the plastic covering the dome cover.





Final installation should look similar to the illustration below.





Other Accessories

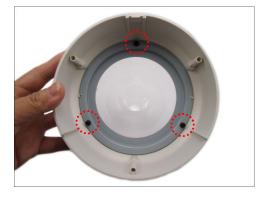
Replacing the Dome Cover

For more discrete surveillance needs, the bundled dome cover can be replaced with a smoke, vandal proof cover available for purchase. To replace the dome cover, do the following:

1. Loosen the three (3) screws to open the dome cover.



2. Remove the three (3) screws to detach the bracket.



3. Remove the bracket and dome cover from the cover housing.



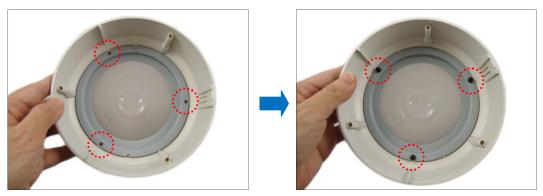




4. Insert the replacement dome cover into the cover housing.



5. Align and attach the three (3) screws to secure the bracket to the cover housing.



6. Attach the dome cover to the camera by tightening the three (3) screws. Final installation should look similar to the illustration below.







Using a Memory Card

The camera supports local video recording or saving of snapshots to a memory card.

NOTE: Supports microSDHC and microSDXC cards.

How to Insert the Memory Card

Insert a memory card into the card slot with the metallic contacts facing down the camera. Push the card until it clicks into place.



How to Remove the Memory Card

In case there is a need to remove the card, make sure to access the camera Web Configurator to safely "unmount" the card first (see the camera Firmware manual for more information). Once unmounted from the firmware, push the card to eject it from the slot.



Accessing the Camera

Configure the IP Addresses

In order to be able to communicate with the camera from your PC, both the camera and the PC have to be within the same network segment. In most cases, it means that they both should have very similar IP addresses, where only the last number of the IP address is different from each other. There are 2 different approaches to IP Address management in Local Area Networks – by DHCP Server or Manually.

Using DHCP server to assign IP addresses:

If you have connected the computer and the camera into the network that has a DHCP server running, then you do not need to configure the IP addresses at all – both the camera and the PC would request a unique IP address from DHCP server automatically. In such case, the camera will immediately be ready for the access from the PC. The user, however, might not know the IP address of the camera yet. It is necessary to know the IP address of the camera in other to be able to access it by using a Web browser.

The quickest way to discover the cameras in the network is to use the simplest network search, built in the Windows system – just by pressing the "Network" icon, all the cameras of the local area network will be discovered by Windows thanks to the UPnP function support of our cameras.

In the example below, we successfully found the camera model that had just connected to the network.

Ne	twork and Sharing Center »	= • 🔟 🤇	?
^	Name	Category	
	B61A-XX-13J-00006	Other Devices	
	B65A-01-00A-22562	Other Devices	
	B65A-XX-13K-00017	Other Devices	
	B67A-XX-13J-00018	Other Devices	
	B81A-XX-13J-00001	Other Devices	
=	B85A-XX-13K-00017	Other Devices	
	B85A-XX-13K-00019	Other Devices	
	B87A-01-00A-61973	Other Devices	
	B87A-XX-13J-00014	Other Devices	
	B94A-XX-13K-00019	Other Devices	
	B95A-XX-13K-00005	Other Devices	
	B95A-XX-13K-00015	Other Devices	
	B96A-XX-13K-00001	Other Devices	
		 Name B61A-XX-13J-00006 B65A-01-00A-22562 B65A-XX-13J-00018 B67A-XX-13J-00018 B81A-XX-13J-00017 B85A-XX-13K-00017 B85A-XX-13K-00017 B85A-XX-13K-00019 B87A-XX-13K-00019 B94A-XX-13K-00019 B95A-XX-13K-00015 	Name Category B61A-XX-13J-00006 Other Devices B65A-01-00A-22562 Other Devices B65A-01-00A-22562 Other Devices B65A-XX-13K-00017 Other Devices B65A-XX-13K-00017 Other Devices B85A-XX-13K-00010 Other Devices B85A-XX-13K-00017 Other Devices B85A-XX-13K-00019 Other Devices B87A-XX-13K-00019 Other Devices B87A-XX-13K-00019 Other Devices B87A-XX-13K-00019 Other Devices B87A-XX-13K-00019 Other Devices B89A-XX-13K-00019 Other Devices B94A-XX-13K-00019 Other Devices B95A-XX-13K-00015 Other Devices



Double-click on the camera model name, the default browser of the PC is automatically launched and the IP address of the target camera is already filled in the address bar of the browser.

If you work with our cameras regularly, then there is even a better way to discover the cameras in the network – by using IP Utility. The IP Utility is a light software tool that can not only discover the cameras, but also list lots of valuable information, such as IP and MAC addresses, serial numbers, firmware versions, etc, and allows quick configuration of multiple devices at the same time.

The IP Utility can be downloaded for free from http://www.acti.com/IP_Utility

With just one click, you can launch the IP Utility and there will be an instant report as follows:

IP_Utility	2						
		IPAd	dress / NetMask 172.16.	26.51 / 255.255.255.0	 Basic Search 	•	
	Refresh	Device Settings 0	Change Network Address	Firmware Upgrade	Config. Backup C	Config. Restore	Reset Save&Reboot
	Account	admin Password					
Total: 65							
	IP Address	Serial No.	MAC Address	FW Version	Model	Multicast IP	Status
	172.16.26.62	ACM5801-10A-X-00008	00:0F:7C:04:08:D5	A1D-220-V3.14.19-AC	IP Camera	228.5.6.1	
	172.16.26.155	B41A-01-12A-99999	00:0F:7C:B4:77:4B	A1D-500-V6.05.14-AC	Megapixel IP Camera	228.5.6.1	
	172.16.26.79	B61A-XX-13J-00006	00:0F:7C:0C:20:4A	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.157	B64A-XX-13J-00003	00:0F:7C:0C:20:5B	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.5	B65A-01-00A-22562	00:0F:7C:84:58:22	A1D-500-V6.06.B1-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.147	B65A-XX-13K-00017	00:0F:7C:0C:58:81	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.70	B67A-XX-13J-00018	00:0F:7C:0C:20:7E	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.136	B81A-XX-13J-00001	00:0F:7C:0C:20:81	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.118	B85A-XX-13K-00017	00:0F:7C:0C:58:95	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.124	B85A-XX-13K-00019	00:0F:7C:0C:58:97	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.246	B87A-01-00A-61973	00:0F:7C:4D:F2:15	A1D-500-V6.05.19-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.145	B87A-XX-13J-00014	00:0F:7C:0C:20:B6	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1	
	172.16.26.105	B94A-XX-13K-00019	00:0F:7C:0C:58:AB	A1D-500-V6.05.22-AC	Megapixel IP PTZ Camera	228.5.6.1	
	172.16.26.152	B95A-XX-13K-00005	00:0F:7C:0C:58:B1	A1D-500-V6.05.22-AC	Megapixel IP PTZ Camera	228.5.6.1	
	172.16.26.127	B95A-XX-13K-00015	00:0F:7C:0C:58:BB	A1D-500-V6.05.22-AC	Megapixel IP PTZ Camera	228.5.6.1	

You can quickly notice the camera model in the list. Click on the IP address to automatically launch the default browser of the PC with the IP address of the target camera filled in the address bar of the browser already.



Use the default IP address of a camera:

If there is no DHCP server in the given network, the user may have to assign the IP addresses to both PC and camera manually to make sure they are in the same network segment.

When the camera is plugged into network and it does not detect any DHCP services, it will automatically assign itself a default IP:

192.168.0.100

Whereas the default port number would be **80**. In order to access that camera, the IP address of the PC has to be configured to match the network segment of the camera.

Manually adjust the IP address of the PC:

In the following example, based on Windows 7, we will configure the IP address to **192.168.0.99** and set Subnet Mask to **255.255.255.0** by using the steps below:

Control Panel Home	View your basic network informat	tion and set up connections	Orc	janize 🔻 Dis	able this network device	Di
Change adapter settings	A B	exection and complex and a complex of the second	e full map	Local Area	Connection	12-120
Change advanced sharing settings	SISO_NP_PC1 Netwo (This computer)	rk Internet		Network Intel(R) 81		
	View your active networks	Connect or d	isconnect		Status Diagnose	
	Network Work network	Access type: Internet Connections: Decal Area Conn	ection		Bridge Connections	
			E		Create Shortcut	
	Change your networking settings				Delete	
	Set up a new connection or netwo	vrk •up, ad hoc, or VPN connection; or set up a	router or		Rename	
	access point.	ap, control, or in the contraction, or set up o			December	
	Connect to a network			L	Properties	_
e also	Connect or reconnect to a wireless	s, wired, dial-up, or VPN network connection	on.			
omeGroup	Choose homegroup and sharing o	ptions				
ternet Options	Access files and printers located or	n other network computers, or change sha	ring			
indows Firewall	settings.					
	Terriblesheet enclose					
		1 4				
	it Network Connection	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings.	automatically if your netwo ed to ask your network adr	rk supports ninistrator		
	it Network Connection	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings.	eed to ask your network adr	rk supports ninistrator		
Intel(R) 82567LM-3 Gigab	Configure	You can get IP settings assigned this capability. Otherwise, you ne	eed to ask your network adr atically	rk supports ninistrator		
Intel(R) 82567LM-3 Gigab connection uses the followin Client for Microsoft Netv	Configure ng items: works working Driver	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings.	eed to ask your network adr atically	ninistrator		
Intel(R) 82567LM-3 Gigab connection uses the followin Client for Microsoft Nett VirtualBox Bridged Netv QoS Packet Scheduler	Configure ng items: works working Driver	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings. Obtain an IP address autom Use the following IP address IP address: Subnet mask:	ed to ask your network adr atically	ninistrator 99		
Intel(R) 82567LM-3 Gigab	Configure ng items: works working Driver for Microsoft Networks n 6 (TCP/IPv6)	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings. Obtain an IP address autom Use the following IP address IP address:	ed to ask your network adr atically ;; 192 , 168 , 0 , ;	ninistrator 99		
Intel(R) 82567LM-3 Gigab connection uses the followin Client for Microsoft Netv Quick Client for Microsoft Netv Quick Client for Microsoft Netv Quick Client for Microsoft Versio Internet Protocol Versio Internet Protoco	Configure ng items: works working Driver for Microsoft Networks n 6 (TCP/IPv6) scovery Mapper I/O Driver	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings. Obtain an IP address autom Use the following IP address IP address: Subnet mask: Default gateway: Obtain DNS server address	ed to ask your network adr atically 192 . 168 . 0 . 255 . 255 . 255 . automatically	ninistrator 99		
Intel(R) 82567LM-3 Gigab connection uses the followin Client for Microsoft Netw Client for Microsoft Netw Ox Packet Scheduler File and Printer Scharing Internet Protocol Versio Link-Layer Topology Di Link-Layer Topology Di	Configure works working Driver for Microsoft Networks in 6 (TCP/IPv6) m4(TCP/IPv6) m4(TCP/IPv4) scovery Mapper I/O Driver scovery Responder	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings. Obtain an IP address autom Use the following IP address IP address: Subnet mask: Default gateway: Obtain DNS server address Outain DNS server address Use the following DNS server	ed to ask your network adr atically 192 . 168 . 0 . 255 . 255 . 255 . automatically	ninistrator 99		
Intel(R) 82567LM-3 Gigab	Configure ng items: works working Driver for Microsoft Networks n 6 (TCP/IPv6) scovery Mapper I/O Driver	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings. Obtain an IP address autom Use the following IP address IP address: Subnet mask: Default gateway: Obtain DNS server address	ed to ask your network adr atically 192 . 168 . 0 . 255 . 255 . 255 . automatically	ninistrator 99		
VirtualBox Bridged Netv Oss Pracket Scheduler Scheduler Scheduler Fictored Versio Internet Protocol Versio Link-Layer Topology Di Link-Layer Topology Di Install Un Rescription	Configure mg items: works working Driver for Microsoft Networks of (TCP/IPv6) m4 (TCP/IPv6) m4 (TCP/IPv6) scovery Responder install Properties /internet Protocol. The default	You can get IP settings assigned this capability. Otherwise, you ne for the appropriate IP settings. Obtain an IP address autom Use the following IP address IP address: Subnet mask: Default gateway: Obtain DNS server address Outain DNS server address Use the following DNS server	ed to ask your network adr atically 192 . 168 . 0 . 255 . 255 . 255 . automatically	ninistrator 99		



Manually adjust the IP addresses of multiple cameras:

If there are more than 1 camera to be used in the same local area network and there is no DHCP server to assign unique IP addresses to each of them, all of the cameras would then have the initial IP address of **192.168.0.100**, which is not a proper situation for network devices – all the IP addresses have to be different from each other. The easiest way to assign cameras the IP addresses is by using **IP Utility**:

0			IP	_Utility			_ = X
			IP Address / NetMask 172.16.	26.192 / 255.255.255.0	 Basic S 	iearch 🔻	
		Refres	h Device Settings Change Network Address	Firmware Upgrade	Config. Ba	ckup Config. Restor	re Reset Save&Reboot
Total: 5	6	Account	admin Password 123456	Http Port 80			
		IP Address	MAC Address FW Version	Model	Serial No.	Multicast IP	Status
		172.16.26.2	00:0F:7C:07:DE:65 A1D-311-V5.07.05-AC	Hemispheric Camera	KCM3911	228.5.6.1	*
		172.16.26.4	00:0F:7C:08:17:C2 A1D-310-V4.12.02-AC	Mega IP Camera	TCM1111	228.5.6.1	
		172.16.26.6	00:0 @ Change Network Address	8	KCM7311	228.5.6.1	
		172.16.26.7	00:0		TCM6630	228.5.6.1	
		172.16.26.10	00:0 Opnamic IP Address		TCM4201	228.5.6.1	
		172.16.26.11	00:0		KCM3911	228.5.6.1	
		172.16.26.13	00:0 Static IP Address		KCM5111	228.5.6.1	=
		172.16.26.40	00:0 Starting IP Address 192 . 168 . 0 .		KCM5211	228.5.6.1	
		172.16.26.41	00:0 Starting IP Address 192 - 168 - 0 -	101	KCM5311	228.5.6.1	
		172.16.26.50	00:0 Netmask 255 - 255 - 255 -	0	KCM5111	228.5.6.1	
		172.16.26.52	00:0 Gateway 192 - 168 - 0 - 1	254	KCM5311	228.5.6.1	
		172.16.26.53	00:0 Gateway 192 188 0 .	234	TCM5311	228.5.6.1	
		172.16.26.54	00:0		TCM5611	228.5.6.1	
		172.16.26.55	00:0 Apply		TCM5111	228.5.6.1	
		172.16.26.57	00:0F:7C:04:87:A7 A1D-310-V4.12.09-AC	Video Server	TCD2100	228.5.6.1	
		172.16.26.61	00:0F:7C:04:32:E3 A1D-310-V4.12.09-AC	Megapixel IP Camera	TCM1231	228.5.6.1	

With the procedure shown above, all the cameras will have unique IP addresses, starting from 192.168.0.101. In case there are 20 cameras selected, the last one of the cameras would have the IP 192.168.0.120.

Later, by pressing the "Refresh" button of the IP Utility, you will be able to see the list of cameras with their new IP addresses.



Please note that it is also possible to change the IP addresses manually by using the Web browser. In such case, please plug in only one camera at a time, and change its IP address by using the Web browser before plugging in the next one. This way, the Web browser will not be confused about two devices having the same IP address at the same time.



Access the Camera

Now that the camera and the PC are both having their unique IP addresses and are under the same network segment, it is possible to use the Web browser of the PC to access the camera.

You can use **any of the browsers** to access the camera, however, the full functionality is provided only for **Microsoft Internet Explorer**.

The browser functionality comparison:

Functionality	Internet Explorer	Other browsers
Live Video	Yes	Yes*
Live Video Area Resizable	Yes	No
PTZ Control	Yes	Yes
Capture the snapshot	Yes	Yes
Video overlay based configuration (Motion Detection regions, Privacy Mask regions)	Yes	No
All the other configurations	Yes	Yes

* **QuickTime** (<u>http://www.apple.com/quicktime/download/</u>) has to be installed in PC first before using any non-Internet Explorer browsers to be able to get live video feed from the camera with those browsers. It is a free and open source cross-platform multimedia player.

Disclaimer Notice: The camera manufacturer does not guarantee the compatibility of its cameras with QuickTime – since it is a third party software, the third party has the right to modify their utility any time which might affect the compatibility. In such cases, please use Internet Explorer browser instead.

When using Internet Explorer browser, the ActiveX control for video stream management will be downloaded from the camera directly – the user just has to accept the use of such control when prompted so. No other third party utilities are required to be installed in such case.

The examples in this manual are based on Internet Explorer browser in order to cover all functions of the camera.

Assuming that the camera's IP address is **192.168.0.100**, you can access it by opening the Web browser and typing the following address into Web browser's address bar:

http://192.168.0.100

Upon successful connection to the camera, the user interface called **Web Configurator** would appear together with the login page. The HTTP port number was not added behind the IP address since the default HTTP port of the camera is 80, which can be omitted from the address for convenience.

()) @	http://192.168.0.100
	Web Configurator
	Login
	Account Password Language English ▼
	Login Reset

Before logging in, you need to know the factory default Account and Password of the camera.

Account: Admin

Password: 123456

For further operations, please refer to the Firmware User Manual.