

Indoor Dome Series Hardware Manual

D61, D62, D64, D65, E61, E62, E63, E64, E65, E66, E67

2014/01/02





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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:

D61	0	1.3MP Indoor Dome with SLLS, Vari-focal lens
D62		2MP Indoor Dome with SLLS, Vari-focal lens
D64		1MP Indoor Dome with D/N, IR, Vari-focal lens
D65		3MP Indoor Dome with D/N, IR, Vari-focal lens
E61		1MP Indoor Dome with D/N, IR, Basic WDR, Vari-focal lens
E62		3MP Indoor Dome with D/N, IR, Basic WDR, Vari-focal lens
E63		5MP Indoor Dome with D/N, IR, Basic WDR, Vari-focal lens
E64		1MP Indoor Dome with D/N, IR, Superior WDR, Vari-focal lens
E65		3MP Indoor Dome with D/N, IR, Superior WDR, Vari-focal lens
E66		1.3MP Indoor Dome with Basic WDR, SLLS, Vari-focal lens
E67	0	2MP Indoor Dome with Basic WDR, SLLS, Vari-focal lens

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



Package Contents

Camera (D64, D65, E61, E62, E63, E64, E65)	Camera (D61, D62, E66, E67)	Mounting Screw Kit
Hexagon Screwdriver	Quick Installation Guide	Warranty Card
	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<section-header></section-header>
Drill Template		
Drill Template		



Physical Description

D61, D62, E66, E67



D64, D65, E61, E62, E63, E64, E65



1) 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:

The administrator's password has been forgotten and therefore the camera cannot be accessed.

- 1. In case of IP address, mask, or allow/deny filter related issues, resulting with inability to modify these settings.
- 2. In case of connectivity issues or abnormal video quality.

How to do the reset properly?

Using a pointed object, such as a paper clip, press and hold the reset button for 5 seconds.

2) Memory Card Slot

Insert a memory card into this slot for local recording purposes. See *How to Use a Memory Card* on page 26 for more information.

NOTE: Supports microSDHC and microSDXC cards.

3) Ethernet Port

Connects to a network using an Ethernet cable.



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	Suitable when mounting the camera directly on walls or ceilings				
Mount	without extra accessories. See <i>Installing the Camera on a Surface</i> on page 14 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-1003				
Gang Box	Suitable for locations which require the use of gang boxes. The				
Converter	Gang Box Converter can be attached to a "two-gang" or 4"				
	square gang box. Then, the camera can be installed on the				
	Gang Box Converter. All cables are hidden inside the gang box.				
	PMAX-0803				
Pendant Mount	Suitable when mounting the camera on hard and high ceilings.				
	PMAX-0101 PMAX-0103 (Straight Tube with Bracket)				
	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 (Heavy Duty Wall Mount) Image: Constraint of the second s			
Vertical Pole	Suitable when mounting the camera on vertical poles.			
Mount	PMAX-0101 PMAX-0305 PMAX-0503			
Horizontal Pole Mount	Suitable when mounting the camera on horizontal poles.			
	PMAX-0101 PMAX-0102 PMAX-0503			
Corner Mount	Suitable when mounting the camera on 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.



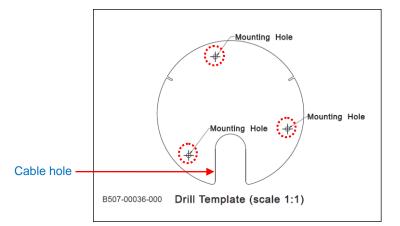
Installing the Camera on a Surface

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. Use the supplied drill template to mark the screw holes 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.



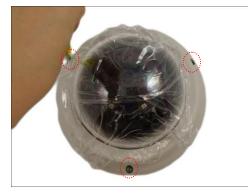
- If the cables will be routed along the surface, just drill the three (3) screw holes on the surface.
- 3. Insert the plastic plugs into the screw holes.



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.

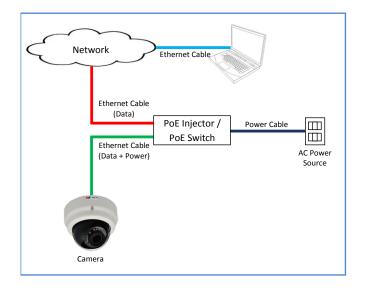


Step 4: Connect the Cable

1. Connect the network cable to the Ethernet port of the camera.



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



Step 5: Access the Camera Live View

See *Accessing the Camera* on page 27 for more information on how to access the Live View of the camera.



Step 6: Adjust the Viewing Angle and Focus

Based on the camera live view, adjust the viewing angle, orientation and focus of the camera. Adjustments vary depending on model, see *How to Adjust the Camera Viewing Angle and Focus* on page 20 for more information.

Step 7: Close the Dome Cover

1. Turn the dome cover shroud to align to the direction of the lens.



 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.





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



4. Remove the plastic covering the dome cover.



Final installation should look similar to the illustration below.





Other Adjustments and Accessories

How to Adjust the Camera Viewing Angle and Focus

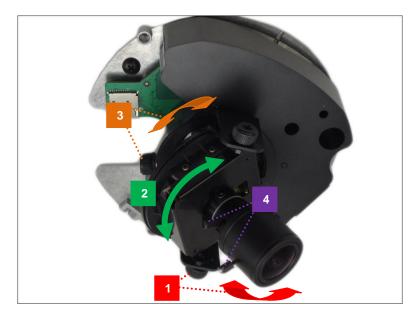
This section describes procedures in adjusting the viewing angle, focus, and pan direction of the camera.

D61, D62, E66, E67 Camera Models

Camera Parts Overview



Adjustment Procedures



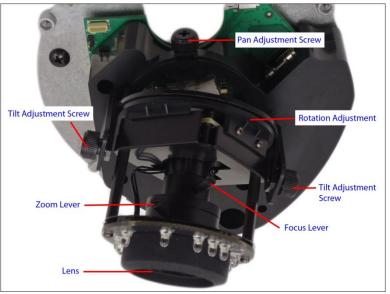


- 1. Loosen the tilt adjustment screws, adjust the tilt, and then tighten back the screws to fix the tilt position.
- 2. Turn the rotation adjustment to rotate the viewing orientation.
- 3. Loosen the pan adjustment screw, move the pan direction, and then tighten back the screw to fix the pan position.
- 4. Move the zoom and focus levers left or right to adjust the focus and the viewing angle.

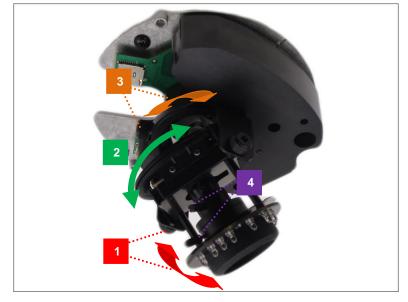


D64, D65, E61, E62, E63, E64, E65 Camera Models

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. Turn the rotation adjustment to rotate the viewing orientation.
- 3. Loosen the pan adjustment screw, move the pan direction, and then tighten back the screw to fix the pan position.
- 4. Move the zoom and focus levers left or right to adjust the focus and the viewing angle.



How to Replace 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. Remove the shroud from the dome cover.



5. Place the shroud on the replacement dome cover.

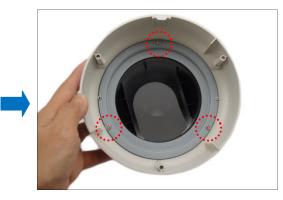


6. Insert the replacement dome cover into the cover housing.



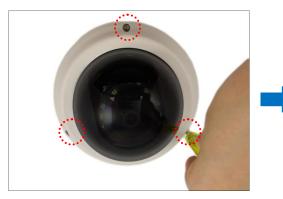
7. Align and attach the three (3) screws to secure the bracket to the cover housing.







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







How to Use 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.

Organize Search Active Directory	Network and Sharing Center Add a printer	Add a wireless device	= -	?
☆ Favorites	Name		Category	^
📃 Desktop	ACD2100-10A-X-00450		Other Devices	
🗼 Downloads	ACM3701-10H-X-00473		Other Devices	
🖳 Recent Places	ACM5801-10A-X-00008		Other Devices	
			Other Devices	
词 Libraries	B95A-XX-13K-00007		Other Devices	
Documents	E271A-01-00A-0826		Other Devices	
a) Music	E43A-XX-12L-00050		Other Devices	
E Pictures	E43A-XX-12L-00107		Other Devices	
🚼 Videos	E63A-XX-13C-00071		Other Devices	
	E73A-XX-13D-00337		Other Devices	
🖳 Computer	E93A-XX-13L-00116		Other Devices	
	ENR-130-ENR		Other Devices	
🗣 Network	ENR-130-ENR		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	Address / NetMask 172.16	.26.79 / 255.255.255.0	 Basic Search 	•		
\bigcirc	Refresh	Device Settings	Change Network Address	s Firmware Upgrade	Config. Backup C	onfig. Restore	Reset	Save
etal: 63	Account	admin Passwo	ord •••••		1	1		
	IP Address	Serial No.	MAC Address	FW Version	Model	Multicast IP		
	172.16.26.67	D51A-XX-12K-00480	00:0F:7C:09:81:9A	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
<u> </u>	172.16.26.140	D54A-XX-13A-00165	00:0F:7C:09:D6:BD	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
<u> </u>	172.16.26.72	E91A-XX-13B-00154	00:0F:7C:0A:3E:B9	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.108	E63A-XX-13C-00071	00:0F:7C:0A:58:3D	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.12	D55A-XX-13C-00107	00:0F:7C:0A:8A:B5	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.18	E73A-XX-13D-00337	00:0F:7C:0A:98:9D	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.2	E72A-XX-13D-00166	00:0F:7C:0A:A3:3A	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.167	E95A-XX-13I-00117	00:0F:7C:0B:AF:55	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.69	E93A-XX-13L-00079	00:0F:7C:0C:90:32	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.86	E93A-XX-13L-00107	00:0F:7C:0C:90:4E	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.82	E93A-XX-13L-00116	00:0F:7C:0C:90:57	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.95	E93A-XX-13L-00141	00:0F:7C:0C:90:70	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.85	E93A-XX-13L-00152	00:0F:7C:0C:90:7B	A1D-500-V6.04.15-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.163	E97A-XX-13K-00147	00:0F:7C:0C:60:9A	A1D-500-V6.05.16-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.111	B52A-XX-13L-00009	00:0F:7C:0C:8E:98	A1D-500-V6.05.22-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.161	B85A-XX-13L-00007	00:0F:7C:0C:8F:0E	A1D-500-V6.05.23-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.42	E94A-XX-13I-00054	00:0F:7C:0B:AE:80	A1D-500-V6.06.02-AC	Megapixel IP Dome	228.5.6.1		
	172.16.26.238	194A-XX-13J-00014	00:0F:7C:0B:F8:CE	A1D-500-V6.05.21-AC	Megapixel IP PTZ Camera	228.5.6.1		
	172.16.26.7	I92A-XX-13J-00007	00:0F:7C:0B:F8:95	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:

1 🐺 « All Control Pane	Items Network and Sharing Center			event at
	Trains , Herwork and Sharing Center	· · · · · · · · · · · · · · · · · · ·		« Network and Internet Network Control
Control Panel Home	View your basic network informa	ation and set up connections	Organize 🔻	Disable this network device Diagno
Change adapter settings	🧶 —— 🐌	🛛 📖 🌍 See ful	I map	I Area Connection
Change advanced sharing settings	SISO_NP_PC1 Netw (This computer)	ork Internet	Netv Intel	vork (R) 8: 🚱 Disable
	View your active networks	Connect or disco	nnect	Status Diagnose
	Network Work network	Access type: Internet Connections: D Local Area Connection	on	
			E	Bridge Connections
	Change your networking settings		_	Create Shortcut
	Set up a new connection or network of the set up a wireless broadband dia	/ork Il-up, ad hoc, or VPN connection; or set up a rou	ter or	Rename
	access point.			Properties
	Connect to a network			Topenies
See also	Connect or reconnect to a wirele	ess, wired, dial-up, or VPN network connection.		
HomeGroup	Choose homegroup and sharing			
Internet Options	Access files and printers located settings.	on other network computers, or change sharing		
Windows Firewall	,			
Connect using:	Configure	You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings. Obtain an IP address automatic	to ask your network administrator	
Client for Microsoft Netv		 Use the following IP address: IP address: 	192 . 168 . 0 . 99	
VirtualBox Bridged Netw QoS Packet Scheduler		Subnet mask:	255.255.255.0	
File and Printer Sharing	n 6 (TCP/IPv6)	Default gateway:	3 X K	
Internet Protocol Version Link-Layer Topology Dis Link-Layer Topology Dis	scovery Mapper I/O Driver	 Obtain DNS server address auto Ouse the following DNS server address 		
Install Uni	nstall Properties	Preferred DNS server:		
Description Transmission Control Protocol,		Alternate DNS server:		
wide area network protocol the across diverse interconnected		Validate settings upon exit	Advanced	
	OK Cancel	L	OK Cancel	



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**:

Q				IP_Utility				_	= X
		IP.	Address / NetMask 1	72.16.26.192 / 255.255.2	55.0	 Basic S 	Search 🔻		
	Refres	h Device Settings	Change Network Ad	dress Firmware U	lpgrade	Config. Ba	ckup Config. R	estore Reset Save&R	eboot
Total: 56	Account	admin Passwo	rd 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 Cam	era	KCM3911	228.5.6.1		•
	172.16.26.4	00:0F:7C:08:17:C2 A1E)-310-V4.12.02-AC	Mega IP Camera	a	TCM1111	228.5.6.1		
	172.16.26.6	00:0 Q Change Networ	k Addrocc		3	KCM7311	228.5.6.1		
	172.16.26.7	00:0	K Address	Lè		TCM6630	228.5.6.1		
	172.16.26.10	00:0 Opynamic IP Addres	SS			TCM4201	228.5.6.1		
	172.16.26.11	00:0	1			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				KCM5211	228.5.6.1		
	172.16.26.41	00:0 Starting IP Addres	192 • 168 • 0	. 101		KCM5311	228.5.6.1		
	172.16.26.50	00:0 Netmas	sk 255 • 255 • 25	55 . 0		KCM5111	228.5.6.1		
	172.16.26.52	00:0	192 • 168 • (254		KCM5311	228.5.6.1		
	172.16.26.53	00:0 Gatewa	iy 192 - 166 - 1	. 234		TCM5311	228.5.6.1		
	172.16.26.54	00:0	<u> </u>			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 A1E)-310-V4.12.09-AC	Video Server		TCD2100	228.5.6.1		
	172.16.26.61	00:0F:7C:04:32:E3 A1E	-310-V4.12.09-AC	Megapixel IP Cam	era	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

* When using non-Internet Explorer browsers, free third-party software plug-ins must be installed to the PC first to be able to get the live video feed from the camera. Check the firmware version of the camera to determine which plug-in is necessary:

Firmware Version	Required Plug-In		
A1D-500-V6. 04 .xx-AC or older	Basic VLC Media Player (<u>http://www.videolan.org</u>)		
A1D-500-V6. 05 .xx-AC or newer	QuickTime (<u>http://www.apple.com/quicktime/download/</u>)		

The camera firmware version can be found on the **FW Version** column of the IP utility or access the **Setup** page of the Web Configurator (see page 33).

Disclaimer Notice: The camera manufacturer does not guarantee the compatibility of its cameras with VLC player or QuickTime – since these are third party softwares. 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.

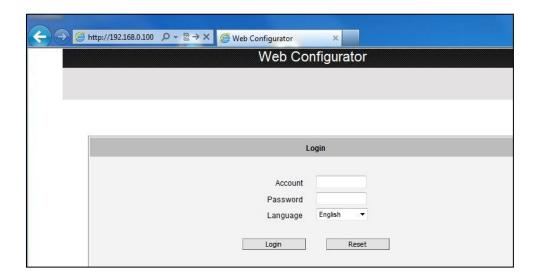


The following examples in this manual are based on Internet Explorer browser in order to cover all functions of the camera.

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.



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

Account: Admin

Password: 123456

To check the firmware version through the Web Configurator, access the **Setup** page and click **System** > **System Info**.

	Web Configurator
• 🗙 1	
Host Date & Time Network IP Settings Video Event System User Account System Info Factory Default Firmware Upload Save & Reboot Logout	System Information : Firmware Version = A1D-500-V6.05.22-AC MAC Address = 00:0F:7C:0C:58:95

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