# AMB-MB AMB-MB2

**1.3 & 2 MEGA PIXEL BULLET IP CAMERAS** 

# **User's Manual**

### ENHANCE YOUR NVR WITH OUR WIDE RANGE OF Q∨IS IP CAMERAS OUR PRODUCTS ARE FULLY TESTED TO WORK TOGETHER



DONT SETTLE FOR LESS, ALL OUR PRODUCTS CARRY QVIS LOGOS

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# Welcome

Thank you for purchasing the 1.3 or 2 Mega Pixel Bullet IP Cameras.

This user's manual is designed to be a reference tool for the installation and operation of your system.

Here you can find information about the corresponding IP camera's features and functions, as well as a detailed installation method.

Before installation and operation please read the following safeguards and warnings carefully!

## **Important Safeguards and Warnings**

### 1. Electrical safety

- All installation and operation here should conform to your local electrical safety codes.
- The power supply shall conform to the requirement in the SELV (Safety Extra Low Voltage) and must make sure that the limited power source is rated 12V DC or 24V AC.

# 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

- Please ensure that the product does not endure heavy stresses, violent vibration or contact with water during transportation, storage and installation.
- Please use the original packing material (or the material of the same quality) if you need to return it to vendor.

### 3. Installation

- Do not apply power to the product before completing installation.
- Do not put object(s) on the product.
- Please install a proper power cut-off device during the installation connection.

### 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 unauthorised modifications or attempted repair.

### 5. Environment

- This product should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.
- Please keep it away from environments that contain electromagnetic radiation or objects that produce it.
- Please keep sound ventilation around the device at all times.
- Do not allow the water and other liquid to penetrate into the device if casing has been compromised. This series product complies with the IP66 standard specified in the Degrees of Protection Provided by Enclosure.
- Ensure lightning surge protection is in place to make sure you fully protect camera circuitry from electrical overload.

- Please make sure the CCD (CMOS) component is away from the radiation of the laser beam device. Otherwise it may result in CCD (CMOS) optical component damage.
- It is recommended that the grounding studs of the product should be grounded, so to further enhance the reliability of the camera.

### 6. Daily Maintenance

- Please shut down the device and then unplug the power cable before you begin any maintenance work.
- Do not touch the CCD (CMOS) optic component. Please use an air jet to clean the dust off the lens surface. You can use the dry cloth with some alcohol or mild detergent to clear if necessary.
- When the camera is not in use please put the dustproof cap to protect the CCD (CMOS) component.
- Do not use volatile solvent such as the benzene, paint thinner or detergent with the ability to abrade surfaces. It may result in lens damage or adversely affect the device's performance.

### 7. Accessories

Always use all the accessories recommended by manufacturer.

Before installation, please open the package and check that all the components are included. Contact your local retailer/vendor ASAP if something is missing.

### 8. Box Contents:

Accessory Name	Amount
Network Camera Unit	1
User's Manual	1
Installation Accessories Bag	1
CD	1

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# **1** General Introduction

### 1.1 Overview

This network camera integrates traditional camera and network video technology. It adopts both audio and video data collection and transmission simultaneously. Because of inbuilt internal hardware it can connect to a network directly without any auxiliary device. When you want to access the camera, you can use a web browser running off the network at the client-end. Due to its multiple functions it allows for various use in many environments such office, bank, road & traffic monitoring, etc.

The latest chipset technology incorporated within the camera design requires low amounts of power to obtain the best video image clarity. Energy efficiency is a key element to this product, but at the same time it does not compromise on performance.

This series network camera product uses the latest industry standard H.264 video and G.711a audio compression technology, which guarantee the best audio and video quality whilst reducing file sizes.

One of the other main features this camera includes is the IR night vision, which aids in video surveillance when the camera is functioning within a low illumination environment. The LED IRs highlight objects of interest within the camera's field of view and is then able to filter out any visual interference so that you can easily view footage upon a monitor. It supports real-time monitor and listening at the same time via the inbuilt microphone. If you want to communicate with a person(s) in view of the camera it also supports dualway bidirectional talk.

The built-in protection enclosure and waterproof design conforms to the IP 66 level. It has the sound waterproof function suitable for use in the outdoor environments.

### 1.2 Features

User Management	<ul> <li>Different user rights for each group, one user belongs to one group.</li> <li>The user's right shall not exceed the group right.</li> </ul>
Storage Function	<ul> <li>Supports:</li> <li>Central server backup function in accordance with your configuration and setup in alarm or schedule setting</li> <li>Recording via the Web and sending the recorded file to the storage at the client-end's PC.</li> <li>Network storage function such as FTP.</li> </ul>
Network Monitor	<ul> <li>Network camera supports one-channel audio/video data transmission to network terminal and then decodes signal. Delay is within 270ms (network bandwidth support needed)</li> <li>Supports a maximum of 20 connections.</li> <li>Adopts the following audio and video transmission protocols: HTTP, TCP, UDP, MULTICAST, RTP/RTCP, RTSP, etc.</li> <li>Supports web access.</li> </ul>
Network Management	<ul> <li>Allows network camera configuration and management via Ethernet.</li> <li>Supports device management via web or client-end.</li> </ul>
Power	<ul> <li>External power adapter DC12V.</li> <li>Supports s PoE supply</li> </ul>

	Warning ! Do not connect these two power supplying sources to the device at the same time; it may result in device damage!
	<b>Please note:</b> system cannot support these two types of power supplying at the same time. As a recommendation, if you wish for your security system to be continue to run when there is a loss of power or unstable electrical supply coming from the mains, a UPS system should be installed.
- C.	Log function
	<ul> <li>Supports system resource information and running status real-time display.</li> <li>Day/Night mode auto switch.</li> </ul>
	<ul> <li>Supports picture parameter setup such as electronic shutter and gain setup.</li> <li>Supports motion detection.</li> </ul>
Assistant Function	<ul> <li>Backlight compensation: screen auto split allows backlight compensation to adjust the brightness.</li> </ul>
	Supports video watermark function to avoid vicious video modification.
	Built in IR light to aid with night vision fuction.
	Digital WDR (Wide Dynamic Range)
	<ul> <li>The enclosure conforms to the IP66 protection testing. It can withstand a variety of weather conditions and outdoor environments.</li> </ul>

## 1.3 Specifications

### 1.3.1 Performance

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

Paramet	Model     AMD-MB2     AMD-MB				
Ş	Main Processor	Ambarella A5s high performance D	SP		
yst	OS	Embedded LINUX			
em	System Resources	Support real-time network, local re same time.	ecord, and remote operation at the		
	User Interface	Remote operation interface such as WEB, PSS			
	System Status	re version.			
<	Image Sensor	1/2.8" CMOS	1/3 " CMOS		
ideo	Pixel	1920(H)*1080(V)	1280 (H)*960 (V)		
o Para	Gain Control	Fixed/Auto			
	White Balance	Manual/Auto			
meter	Exposure Mode	Manual/Auto PAL: It ranges from 1/4 to 1/10000 NTSC: It ranges from 1/3 to 1/10000			
	Video Compression Standard	H264/ H.264B/MJPEG			
	Video Frame Rate	PAL: Main stream(1920*1080@25fps), extra stream (704*576@25fps) NTSC:	PAL: Main stream(1280*960@15fps), extra stream (352*288@15fps) Main stream(1280*720@25fps), extra stream (704*576@25fps)		

			Main stream(1920*1080@30fps), extra stream(704*480@30fps)	NTSC: Main stream(1280*960@15fps), extra stream(352*240@15fps) Main stream(1280*720@30fps), extra stream(704*480@30fps)			
		Video Bit Rate	H.264: 56Kbps-8192Kbps. MJPEG is adjustable and bit rate is adjustable. Support customized setup.	H.264: 56Kbps-6144Kbps. MJPEG is adjustable and bit rate is adjustable. Support customized setup.			
		Video Flip	Support mirror. Support flip function.				
		Snapshot	Max 1f/s snapshot. File extension n	ame is JPEG.			
		Privacy Mask	Supports max 4 privacy mask zones	3			
		Video Setup	Support parameter setup such as b	right, contrast.			
		Video Information	Channel title, time title, motion detect, camera masking.				
		Lens	3.6mm Fixed focus.				
		Lens Interface M12. Lens is the default accessories		S			
	Video	Motion Detect	396 (18*22) detection zones; sensitivity level ranges from 1 to 6 (The 6 <sup>th</sup> level has the highest sensitivity) Activation event: video storage, image snapshot, log, email function and etc.				
Darvup	Record and	Storage Management	Support display local storage status				
		Wire Network	1- Channel wire Ethernet port, 10/100 Base-T Ethernet				
	Networ	Network Protocol	Standard HTTP, TCP/IP, ARP, IGMP, ICMP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, UPNP, NTP, Bonjour, SNMP.				
	×	Remote Operation	Monitor, system setup, file download, log information, maintenance upgrade, etc.				
		Restore Default Setup	Reset button (on LED panel)				
		IR light	IR light 20-30M.				
		Power	DC 12V power and PoE.				
	Gene	Power Consumption	6.5 W MAX	6W MAX			
	ral Pa	Working Temperature	-20°C~+60 °C				
	arame	Working Humidify	≪90%				
	ete	Dimensions(mm)	70*66*160	62.9*64.3*146.8			
	7	Weight	500g (Excluding box)				
			Described to the faile of the s				

# 2 Structure

### 2.1 Multiple-function Combination Cable

You can refer to the following figure for multiple-function combination cable information (see Figure 2-1):



Figure 2-1

Please refer to the following sheet for detailed information:

SN	Port Name	Function	Connection	Note
1.	LAN	Network port	Ethernet port	Connect to standard Ethernet cable.
2	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.



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Figure 2-3

# **3 Device Installation**

Important: The installation wall needs to sustain a minimum of 3X weight of the bracket and camera.

Please follow the steps listed below to install the device. Please refer to Figure 3-1 and Figure 3-2 for reference.

#### Step 1

Paste the installation map on to the surface of the wall or the ceiling.

### Step 2

Dig the installation holes according to the installation map.



Figure 3-1

### Step 3:

Open the accessories bag and then take the expansion bolts out. Insert the expansion bolts into the installation holes.

#### Step 4:

Take the screws from the accessories bag and then use them to secure the device on to the installation surface of the wall or the ceiling. The sun shield of the device can move forward or backward. Please secure the set screw of the sun shield after you fixed the device to surface..

### Step 5:

Connect the corresponding cables.

#### Step 6:

Use the cross-head screwdriver to loosen the adjust screw.

### Step 7:

Turn the device in different directions to make it suitable for the monitor position.

### Step 8:

Use the cross-head screwdriver to fix the adjust screw firmly.



Figure 3-2

# **4 Quick Configuration Tool**

### 4.1 Overview

Quick configuration tool can search current IP address and 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 and you will see an interface just like the one shown as in Figure 4-1.

In the device list interface, you can view the device's IP address, port number, subnet mask, default gateway, MAC address, etc.

R.,	IF Address	LExt	Didnet Back	Defeilt Setong	Hat: Ableast
	THE. 168. 1. 108	31779	255, 255, 255, 0	110, 160, 1, 1	90 62 49 71
111		_			

### Figure 4-1 Search interface

Select one IP address and then right click mouse, you will see an interface like the one shown in Figure 4-2.

**Note:** You can set the IP address, subnet mask and gateway for the network camera & PC. The network camera IP address and PC IP address should be in the same network segment if there is no router. Network camera default IP address is 192.168.1.108. If there is a router, please set the corresponding gateway and subnet mask.

The factory default user name is **admin** and password is **admin**. For security reasons, please modify your password after you first login.

For detailed WEB operation, please refer to the Network Camera Web Operation Manual in the resource CD.

Textos Lost	1. IN		
COMMUNICATION OF COMMUN	Fort   Dubast Bask	Terral Select Internet	
-		1. 12	
The Tes are shirth Taxan b	ettes directly and		
	Terrica Last	(Pert I Syntax Pack State I State I S	Period Land IM (JP Adverse) Par Address Manual Provide Unit of the Address Manual Provide Unit of the Address Company of the Address (Instance Unit of

Figure 4-2 Search interface 2

Select the 'Open Device Web' item; you can go to the corresponding web login interface (see Figure 4-3).

Shi ba yee factor has be O be a yee factor has be O be - O R R O P bet the	4
Agtree @ 310-01198-148-1-390	🗑 🚺 to 🛛 🖬
WEB SEDVICE	
WYNED STANKWICHERSON	
Uperkane	
Paramet	
THE COM	l.



If you want to modify the device IP address without logging in to the device web interface, you can go to the configuration tool's main interface to set.

In the configuration tool's 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 4-4.

In Figure 4-4, 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.

Login		×
IP Address:	192.168.1.108	
User Name: Password:	*****	
Port:	37777	
	Login Cancel	

Figure 4-4 Login prompt

After you logged in, the configuration tool main interface is shown as below. See Figure 4-5.

General Paral	neter	DHCP Enable	IPv4	•		
	IP Address:	192.168.1.108				
	Subnet Mask:	255.255.255.0				
	Gateway:	192.168.1.1				
	Mac Address:	90:02:a9:00:76:83				
				Save	Retu	rn

#### Figure 4-5 Main interface

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

# **5 Web Operation**

This IP camera product supports the Web access and management using a PC.

Web includes several modules: monitor channel preview, system configuration, alarm, 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 192.168.1.108. Subnet mask is 255.255.255.0. Gateway is 192.168.1.1
- Use order ping \*\*\*.\*\*\*.\*\*\*(\* network camera address) to check connection is OK or not.

### 5.2 Login and Logout

1. Open web browser and input network camera address in the address bar.

For example, if your camera IP is 192.168.1.108, then please input **http:// 192.168.1.108** into the web browser's address bar. See Figure 5-1.

	COO · R REALDER		with a stress	Input your IP
	👷 🖉 🖉 Sank Page		A · D A · Page ·	address here
				14
	mt -		🚱 Internat 🛛 🗧	\$100% +
		Figure 5-1 IP a	address	
ne logir	n interface is show	n as below. See Figure	5-2.	
lease in	nput your user nan	ne and password.		
- f If f				

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

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Que · O	🖹 🖹 🖏 🔎 2402 🌟 10002 🤁 🔂 🔂 🕞 🔜 🔛	
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Figure 5-2 Web login

If it is your first time logging in, the system pops up warning information to ask you whether to install the control '**webrec.cab**' or not, after you have logged in for one minute. Please click OK button, the system can automatically install the control. When system is upgrading, it can overwrite the previous Web as well.

If you can't download the ActiveX file, please check whether you have installed the plug-in to disable the control download. Or you can lower the web browser's security level. See Figure 5-3.

Internet Options	Security Settings - Internet Zone
General Security Privacy Content Connections Programs Advanced	Settings
Select a zone to view or change security settings.	O Disable
Internet Local intranet Trusted sites	Download signed ActiveX controls (not secure)     Disable     Enable (not secure)
Internet This zone is for Internet websites, except those listed in trusted and restricted zones.	<ul> <li>Prompt (recommended)</li> <li>Download unsigned ActiveX controls (not secure)</li> <li>Disable (recommended)</li> <li>Enable (not secure)</li> <li>Prompt</li> </ul>
Security level for this zone Allowed levels for this zone: Medium to High	Initialize and script ActiveX controls not marked as safe for s     Disable (recommended)     Enable (not secure)     Prompt
- Appropriate for most websites - Prompts before downloading potentially unsafe content - Unsigned ActiveX controls will not be downloaded	Run ActiveX controls and plug-ins     Administrator approved     Takes effect after you restart Internet Explorer
	Reset custom settings       Reset to:     Medium-high (default)       Reset
OK Cancel Apply	OK Cancel

Figure 5-3 IE security level

After you logged in, you can see the main window. See Figure 5-4:



Figure 5-4 Web monitoring window

# 6FAQ

Bug	Solution / Reason
I cannot boot up the device or operate it properly.	Please click the RESET button for at least five seconds to restore factory default setup.
The water has leaked into the camera casing	The unauthorised front or rear cap removal many result in water leaking into the camera housing. The glass front cap has sustained a heavy push or strike. The waterproof plug of the rear cap becomes loosen.
IR video is poor.	Incorrect supply power has been used. The IR light cannot light up to its maximum level. The object is out of the IR distance range. IR-CUT does not turn to the night mode. The front end photosensitive chip cannot sense the IR light.
I cannot upgrade the device via network.	When network upgrade operation has failed, you can use port 3800 to continue upgrade.
I cannot login the client-end or the WEB.	The Active X control is blocked. The display card version needs to be DX8.1 or higher. Network connection error occurred. Invalid network setup. Invalid user name or password.
I cannot play the download file.	There is no player. 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 only work reliably within the temperature range of between 0°C to 40 °C. If the power supply is being operated outside this temperature range then it may result in an unstable power supply being provided to the camera. Please replace with an industrial-grade power adapter if you are using it in a harsh environment.

#### Note

- This user's manual is for reference only. Slight differences may be found in user interface.
- All the designs and software here are subject to change without prior written notice.

For more information about our IP Cameras and other available cameras, NVRs & accessories, please visit our website:

# www.adata.co.uk

Alternatively scan this QR code with your smart phone to be directed instantly to our website:

