4K Analog HDCVI Bullet Camera
AMC4KBC6-B
Quick Start Guide

Version 2.0.2

Contents

Welcome 3

Important Safeguards and Warnings 3

Product Introduction 4

Features 4

Installation 4

Connection 5

Audio 5

Technical Specifications 5

FCC Statement 7

IC Warning Statement 7

Appendix A: Toxic or Hazardous Materials or Elements 8

Welcome

Thank you for purchasing an Amcrest camera!

This user manual is designed to be a reference tool for the installation and operation of your camera. Here you can find information about the camera's features and functions, as well as information to aid in troubleshooting.

Many of the setup and installation sections have corresponding videos on YouTube. To access the setup videos, please go to http://amcrest.com/videos.
For access to other support related materials and information, please visit us at http://amcrest.com/support. To contact Amcrest support, please do one of the following:

Visit http://amcrest.com/contacts and use the email form.

Call Amcrest Support using one of the following numbers:

Toll free: (888)212-7538
International Callers (Outside of the US): +1-713-893-9656
USA: 713-893-8956
Canada: 437-888-0177
UK: 203-769-2757

Email Amcrest Customer Support: support@amcrest.com

Important Safeguards and Warnings

1. Electrical Safety
All installation and operation should conform to your local electrical safety codes. The product must be grounded to reduce the risk of electrical shock. We assume no liability or responsibility for any fires or electrical shock caused by improper handling or installation.

2. Transportation Security
Heavy stress, violent vibrations, and excess moisture should not occur during transportation, storage, and installation of the device.

3. Installation
Handle the device with care. Do not apply power to the camera before completing installation. Do not place objects on top of the camera.

4. Repair Professionals
All the examination and repair work should be performed by a qualified service engineer. We are not liable for any problems caused by unauthorized modifications or user attempted repair.

5. Environment
The camera should be kept in a cool, dry place away from direct sunlight, flammable materials, explosive substances, etc. This product should be transported, stored, and used only in the specified environments as stated above. Do not aim the camera at a strong light source as it may cause overexposure of the picture or affect the longevity of the camera's sensors. Ensure the camera is in a well-ventilated area to prevent overheating.

6. Operation and Maintenance

Do not touch the camera sensor or lens directly. To clean dust or dirt off the lens, use an air blower or a microfiber cloth.

7. Accessories

Be sure to use only the accessories recommended by the manufacturer. Before installation, please open the package and check to make sure that all the components are present. Contact the retailer that you purchased from or Amcrest directly if anything is broken or missing in the package.

Product Introduction

This series of camera is adopted with CMOS image sensors that provide high performance, high megapixel resolution that supports 4K video. It supports monitoring signals and audio via a coaxial transmission and standard BNC connection and built in microphone. Transmission distances can range more than 700m (2296ft) @ 4K. This series can also support CVI/TVI/AHD/Analog output as well as recognize high speed, long distance, and real time video transmissions.



Features

- 1/2" CMOS (OS08A10)AGC, AWB, AES
- 4K@15fps, 6M@20fps, 4M@30fps
- 2D/3D DNR, Smart IR Control
- DC12V, 2.0A

Installation

Before physically installing your camera, make sure the mounting surface can support up to 3x the weight of the camera.

1) Locate the position in which you would like to place your camera and using the base of the camera, mark the 4 installation holes with a marker onto the mounting surface. These holes will be used to drill the holes needed to mount your camera.

2) Using a drill bit that is the same diameter or slightly smaller diameter than the included drywall wall anchors, drill the 4 holes and insert the wall anchors into the holes.

Note: The wall anchors should be in the same bag as the screws and a designed to secure the screws onto the mounting surface.

3) Attach the power cable and BNC cabling to the camera. (If you are running the cables through a mounting surface, use a 1” paddle bit to bore a hole for the cables.)

4) Place the base of the camera on the wall anchors lining the holes to the mounting surface. Then, using a Phillips head screwdriver, secure the screws and base of the camera to the mounting surface.

Note: To adjust the camera, you can loosen the adjustment screws near the base of the camera. Adjust the position as desired and tighten when complete.

Connection

To connect your camera to your DVR, please follow the steps provided below:

Step 1: Connect a BNC (coaxial) cable to the video out connection of your camera.
Step 2: Connect the male end of the DC power connector of the BNC (coaxial) cable to the female end of the power connector of the camera.
Step 3: Connect the BNC (coaxial) cable to a video out channel on the back of your DVR.
Step 4: Connect the male end of the DC power connector of the power adapter to the female end of the power connector of the BNC (coaxial) cable. Plug in the power adapter to apply power to the camera.
For more information on the installation process described, refer to the image below for more details.

Audio

The camera has a built-in microphone which allows the camera to transmit one-way audio through a coaxial connection. To enable the microphone on your camera, please make sure the following settings on your DVR are enabled.

- In the Management menu, click on Encode to enter the encode settings menu for your DVR.
- Click on “More Settings” and make sure that the Audio Encode checkbox is enabled.
- Set the encode settings to AAC and then change the input from “Local” to “HDCVI”.
- Click Save to save the encode settings to your device.

Note: If you are using the system on your mobile device, ensure that the Video Steam checkbox is enabled in the Sub stream menu of your DVR.

Technical Specifications

Model	**AMC4KBC6-B**
Camera	
Image Sensor	1/2" CMOS (OS08A10)
Effective Pixels	3840(H)×2160(V), 8MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/4s~1/100,000s NTSC: 1/3s~1/100,000s
Minimum Illumination	0.054Lux/F1.6, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 50m (164feet)

<table>
<tr><td>IR On/Off Control</td><td>Auto / Manual</td></tr>
<tr><td>IR LEDs</td><td>2</td></tr>
<tr><td>Video</td><td></td></tr>
<tr><td>Resolution</td><td>8MP (3840×2160)</td></tr>
<tr><td>Bit Rate Control</td><td>4K@15fps, 6M@20fps, 4M@30fps</td></tr>
<tr><td>Video Output</td><td>1-channel BNC high definition video output.</td></tr>
<tr><td>WDR</td><td>120dB</td></tr>
<tr><td>Day/Night</td><td>Auto (ICR) / Manual</td></tr>
<tr><td>BLC Mode</td><td>BLC / HLC / DWDR</td></tr>
<tr><td>AGC</td><td>Auto</td></tr>
<tr><td>Audio</td><td></td></tr>
<tr><td>Audio</td><td>1-Way Audio with built-in Microphone</td></tr>
<tr><td>Camera Features</td><td></td></tr>
<tr><td>White Balance</td><td>Auto / Manual</td></tr>
<tr><td>Gain Control</td><td>AGC</td></tr>
<tr><td>Noise Reduction</td><td>2D / 3D</td></tr>
<tr><td>Smart IR</td><td>Auto / Manual</td></tr>
<tr><td>Transmission Range</td><td>700m (2296ft) @ 4K and 4MP HD video via coaxial cable</td></tr>
<tr><td>Lens</td><td></td></tr>
<tr><td>Lens Type</td><td>Fixed lens / Fixed iris</td></tr>
<tr><td>Mount Type</td><td>Board-in</td></tr>
<tr><td>Focal Length</td><td>6.0mm</td></tr>
<tr><td>Max. Aperture</td><td>F1.6</td></tr>
<tr><td>Angle of View</td><td>H: 55° V: 30°</td></tr>
<tr><td>Close Focus Distance</td><td>6100mm, 240.16''</td></tr>
<tr><td>Dori Distance</td><td>
<table>
<tr><th>Lens</th><th>Detect</th><th>Observe</th><th>Recognize</th><th>Identify</th></tr>
<tr><td>6.0mm</td><td>164m(538ft)</td><td>66m(217ft)</td><td>33m(108ft)</td><td>16m(52ft)</td></tr>
</table>
*Note: The DORI distance is a “general proximity” of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.
</td></tr>
<tr><td>General</td><td></td></tr>
<tr><td>Power Supply</td><td>12V DC ±30%</td></tr>
<tr><td>Power Consumption</td><td>Max 4.6W (12V DC, IR on)</td></tr>
<tr><td>Operating Conditions</td><td>-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F).</td></tr>
<tr><td>Ingress Protection</td><td>IP67</td></tr>
<tr><td>Storage Conditions</td><td>-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH</td></tr>
</table>

Casing	Aluminum
Dimensions	6.37"×2.75"×2.75"
Net Weight	0.42kg (0.93lb)
Gross Weight	0.53kg (1.17lb)

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes, or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

3. (b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual: NOTE: 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.

4. RF exposure warning: This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

IC Warning Statement

TThis device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body. Pour se conformer aux exigences de

conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil ettoutes les personnes.

Appendix A: Toxic or Hazardous Materials or Elements

Component Name	**Toxic or Hazardous Materials or Elements**					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Sheet Metal(Case)	o	o	o	o	o	o
Plastic Parts （Panel）	o	o	o	o	o	o
Circuit Board	o	o	o	o	o	o
Fastener	o	o	o	o	o	o
Wire and Cable/Ac Adapter	o	o	o	o	o	o
Packing Material	o	o	o	o	o	o

Accessories	o	o	o	o	o	o

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.
X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note:

- **To view setup videos for many of the steps outlined in this guide, go to http://amcrest.com/videos**
- **This user manual is for reference only. Slight differences may be found in the 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.**

To contact Amcrest support, please do one of the following:

Visit http://amcrest.com/contacts and use the email form.
Call Amcrest Support using one of the following numbers: Toll Free US: (888) 212-7538
International Callers (Outside of US): +1-713-893-8956
USA: 713-893-8956
Canada: 437-888-0177
UK: 203-769-2757
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