IQeye Alliance-mini Series

Installation and Operating Instructions
Important Safeguards

CAUTION: BEWARE OF RISK OF ELECTRICAL SHOCK. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Due to product size and space limitations, this label may not appear on all products.

The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS TO RAIN OR MOISTURE.

Attention: Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

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1 Unpacking

The Alliance-mini should include the following:

**Interior Vandal Camera Model**

1. IQeye Alliance-mini camera with aluminum black trim ring on WDR/5MP models and plastic black trim ring on non-WDR models
2. Additional aluminum trim ring in beige on WDR/5MP models
3. IQeye Alliance-mini Installation and Operating Instructions
4. Mini-CD with IQeye PC Tools
5. Camera mounting hardware
6. Qty (2) spare tamper-proof trim cover screws
7. Torx T-10 security wrench

If the optional Alliance-mini IQD4-PB (black) or IQD4-PG (beige) Pendant Mount Adapter Multi-Pack is purchased, the package should include the following:

1. Qty (5) Pendant Mount Adapters
2. Qty (10) Screws - Two Per Pendant Mount
3. Installation & Operating Instructions

2 Service

If the unit needs repair service or parts, the customer should contact Vicon for authorization to return, as well as shipping instructions. See Shipping Instructions at the end of this manual.
3 Description

The Alliance-mini is a compact high-resolution mini-dome camera system that supports both H.264 and MJPEG video compression and is suitable for indoor vandal resistant installations via wall- or ceiling-mounting. Optional adapters allow the camera models to be surface, single-gang box wall-mounted as well as pendant-mounted.

The Alliance-mini comes with a black trim ring installed (aluminum on WDR/5MP and plastic on non-WDR IQD6xN models); on WDR/5MP models, an extra aluminum trim ring in beige is included so that the camera will look attractive in any décor.

4 Installation

This manual describes how to install the Alliance-mini, including installation with the optional wall mount, as well as the optional pendant mount. Installations should be performed by qualified service personnel only in accordance with local, state and national code(s).

5 Parts List

The following depicts the parts included (Figure 5.1):
1. Alliance-mini enclosure, camera, and lens assembly
2. Alliance dome cover and shroud assembly
3. Alliance-mini dome beige trim ring (on WDR/5MP models)
6 Camera Connections

Remove the camera dome cover assembly; it is not secured with screws when shipped.

The Alliance-mini camera provides the following connection options (Figure 6.1).

1. Ethernet (Power-over-Ethernet) connector.
2. Micro SD card slot (Micro SD card not included)
3. Audio in/out, I/O relay and analog video output (requires optional IQA-CAB; WDR/5MP only); see below for connection details.

IQA-CAB Connections

Refer to Figure 6.1 and 6.3 for the connections below.

1. Optional: Insert the Micro SD card in Micro SD card slot (not supplied).
2. Optional: Route and connect the IQA-CAB cable when using an external microphone and powered loudspeaker, I/O relay or analog output to the Alliance-mini dome camera as shown in Figure 6.3 (cable and loudspeaker not supplied). Refer to table that follows.

Note: The included internal microphone is disabled by default.

3. If using a PoE Ethernet cable coming through the wall, be sure to run this cable through the cable pass-through in the camera base plate. Route and connect the Power-over-Ethernet cable to the Ethernet connector port in the camera as shown in Figure 6.1 and 6.2.
Cable Connections: Refer to Figure 6.3

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mic G/Mic</td>
<td>Microphone line in and ground. Externally powered microphone is recommended for optimal quality.</td>
</tr>
<tr>
<td>Line G/Line</td>
<td>Audio line out and ground. Powered speaker required.</td>
</tr>
<tr>
<td>Rly 2/Rly 1</td>
<td>Relay output. Relay acts as simple switch between Rly 1 and Rly 2.</td>
</tr>
<tr>
<td>Trg G/Trg</td>
<td>Trigger input (senses contact closure)</td>
</tr>
<tr>
<td>Vid/Vid G</td>
<td>Analog video output. Provides NTSC or PAL signal.</td>
</tr>
</tbody>
</table>
7 Mounting Options

The Alliance-mini is designed to be used in one of the following configurations:

1. Surface mounted to any interior durable surface wall.
2. Surface mounted to a plenum or other durable ceiling surface.
3. Used in conjunction with a ¾” NPT threaded pipe (not included) as part of a pendant mount solution with the use of the Alliance-mini Pendant Mount Adapter Multi-Pack (models IQD4-PB or IQD4-PG, black or beige, respectively).

Surface Mount Installation

1. Mount the Alliance-mini camera base to the desired wall or ceiling surface using the supplied or equivalent mounting hardware.

Pendant Mount Installation

The Alliance-mini Pendant Mount adapter is designed to easily mount the camera via a ¾” NPT conduit (not supplied).

1. Pull the PoE Ethernet cable through the top of the Pendant Mount and attach the Pendant Mount to the conduit by threading the pendant cover to the conduit as shown in Image 7.1.
2. Pull the PoE Ethernet cable through the cable pass-through in the camera base plate and connect it to the camera’s Ethernet port.
3. Attach the camera base plate to the Pendant mount using the supplied quantity. (2) machine screws.

Notes: The Alliance-mini Pendant Mount does not provide a weather seal to the camera. The Alliance-mini in all of its mounting configurations is still an indoor camera. When using the pendant mount, there is no place for the IQA-CAB connectors.

Figure 7.1
8 Camera Positioning, FOV Setup and Focus

1. Remove the camera shroud by placing your palm over the top of the shroud and gently squeeze the two tabs toward the front of the shroud toward the center of the camera. Pivot these tabs away from the camera, then pull the shroud off the camera as shown in Figure 8.1.

2. Set the field-of-view using the camera’s 3-axis gimbal.

3. Focus the camera:
   - **Varifocal Lens**: Adjust the field-of-view and focus rings to focus the lens. Be sure to lock the lens ring thumbscrews when desired focus is achieved as shown in Figure 8.2.
   - **Fixed Focal Lens**: Focus the lens by twisting the lens clockwise or counter-clockwise to achieve the desired focus. Then lock the lens in place by tightening the locking ring as shown in Figure 8.3.

4. Replace the camera shroud by first positioning the shroud against the rear shroud tab, then pivoting the shroud down toward the front two mounting tabs. Squeeze the shroud gently and push it down to engage the front two mounting tabs.

5. Replace the trim cover:
   Position the dome cover so the dome cover screws line up with the matching receiving holes on the mounting plate (Figure 8.4). Tighten the dome cover to the mounting plate using the supplied screws and Torx T-10 security wrench.

**Note**: The cover fits in only one orientation. Do not apply excessive force, or damage to the trim cover may occur. If it does not push down easily on to the camera, the cover may be flipped 180° from the correct orientation. Remove the cover, flip it 180° and try again. An easy way to identify the correct orientation is to look for the “Activity LED” hole in the trim ring and align that on the same side of the camera as the Activity LED.
9 PC Configuration of the Alliance-mini

1. Plug the camera into the network.
2. The Alliance-mini cameras are powered via the Ethernet using an IEEE 802.3af power source.

**Power Source Warning**

Note that the Alliance-mini camera can only be powered with a standard IEEE 802.3af PoE injector or PoE switch. It CANNOT BE POWERED with DC or AC.

3. Alliance-mini field-of-view and focus adjustment must be performed using a browser to view the camera image.

A. Download and install IQfinder from the Vicon website. Launch IQfinder and scan for cameras on the network by clicking the Refresh button. The detected cameras will be displayed in the IQfinder window. Select a camera from the list and click “Assign IP” to edit the selected camera’s network settings.
B. The “Assign IP” window allows the IP Address, Subnet and Gateway of the camera to be changed, and alternatively the camera to be configured for DHCP operation. Click the “Apply” button after making the desired changes.

Note: Changing between a static IP address and DHCP will require the camera to be rebooted.

C. To view a camera double-click on a camera entry or highlight a camera in the list and click the “Web Page” button. The “Live” page will be displayed through your default browser (IE recommended). It is also possible to open Internet Explorer and enter the IP address of the IQeye camera in the address field of the browser.

4. Additional Configuration.
To perform further configuration of the camera click on the “Setup” tab.

Note: The default username is “root” and the default password is “system”.
10 VLC for H.264 Stream

1. Using VLC for H.264 Stream
   A. To prepare the camera to serve an H.264 stream, install VLC Player (Version 1.0.1 or higher) from https://videolan.org/vlc/ and use default installation parameters.

   B. Launch VLC Player.

   C. Click on “Media” and then “Open Network Stream”.

   D. On the “Network” tab choose RTSP under the “Protocol” drop down. Then enter the IP address of the camera under the “Address” field.

   E. Click the down arrow next to the “Play” button on the bottom right to expand the list. From the menu choose “Play”. The video player will open with the live H.264 video stream.

For product warranty, additional documentation and technical information, please visit www.vicon-security.com/support
Shipping Instructions
Use the following procedure when returning a unit to the factory:

1. Call or write Vicon for a Return Authorization (R.A.) at one of the locations listed below. Record the name of the Vicon employee who issued the R.A.

Vicon Industries Inc.
135 Fell Court
Hauppauge, NY  11788
Phone: 631-952-2288; Toll-Free: 1-800-645-9116; Fax: 631-951-2288

For service or returns from countries in Europe, contact:

Vicon Industries (U.K.) Ltd
Brunel Way
Fareham, PO15 5TX
United Kingdom
Phone: +44 (0)1489/566300; Fax: +44 (0)1489/566322

2. Attach a sheet of paper to the unit with the following information:

a. Name and address of the company returning the unit  
b. Name of the Vicon employee who issued the R.A.  
c. R. A. number  
d. Brief description of the installation  
e. Complete description of the problem and circumstances under which it occurs  
f. Unit’s original date of purchase, if still under warranty

3. Pack the unit carefully. Use the original shipping carton or its equivalent for maximum protection.

4. Mark the R.A. number on the outside of the carton on the shipping label.
Vicon Standard Equipment Warranty

Vicon Industries Inc. (the “Company”) warrants your equipment to be free from defects in material and workmanship under Normal Use from the date of original retail purchase for a period of three years, with the following exceptions:

1. All IQEYE Cameras: Two years if purchased before 1/1/2011.
2. Alliance-mini (IQD3xx), Alliance-mx (IQMxxx) and 3 Series (IQ03xx): Five years if purchased between 1/2/2011 – 12/31/2014.
4. Uninterruptible Power Supplies: Two years from date of original retail purchase.
5. VDR-700 Recorder Series: One year from date of original retail purchase.
6. V5616MUX: One year from date of original retail purchase.
7. Arecont Cameras: One year from date of original retail purchase.
8. FMC series fiber-optic media converters and associated accessories: Lifetime warranty.
9. For PTZ cameras, “Normal Use” excludes prolonged use of lens and pan-and-tilt motors, gear heads, and gears due to continuous use of “autopan” or “tour” modes of operation. Such continuous operation is outside the scope of this warranty.
10. Any product sold as “special” or not listed in Vicon’s commercial price list: One year from date of original retail purchase.

NOTE:
• If the product is to be used outdoors or in dusty, humid, or other hostile environments, it must be suitably protected.
• Camera products must be protected, whether in use or not, from exposure to direct sunlight or halogen light as the light may damage the camera image sensor. This applies to both indoor and outdoor use of the cameras.
• For camera products supplied without a lens, extreme care should be used when mounting a lens on these products. Damage to the product due to incorrectly mounted lenses will invalidate this limited hardware warranty.
• Failure to comply with any of the aforementioned requirements will invalidate this Limited Hardware Warranty.

Date of retail purchase is the date original end-user takes possession of the equipment, or, at the sole discretion of the Company, the date the equipment first becomes operational by the original end-user.

The sole remedy under this Warranty is that defective equipment be repaired or (at the Company’s option) replaced, at Company repair centers, provided the equipment has been authorized for return by the Company, and the return shipment is prepaid in accordance with policy. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer. When a product or part is exchanged the replacement hardware becomes the property of the original purchaser and all hardware or part thereof that is replaced shall become the property of Vicon.

The warranty does not apply (a) to faulty and improper installation, maintenance, service, repair and/or alteration in any way that is not contemplated in the documentation for the product or carried out with Vicon consent in writing, operation adjustments covered in the
operating manual for the product or normal maintenance, (b) to cosmetic damages, (c) if the product is modified or tampered with, (d) if the product is damaged by acts of God, misuse, abuse, negligence, accident, normal wear and tear and deterioration, improper environmental conditions (including, but not limited to, electrical surges, water damage, chemical exposure, an/or heat/cold exposure) or lack of responsible care, (e) if the product has had the model or serial number altered, defaced or removed, (f) to consumables (such as storage media or batteries) (g) to products that have been purchased “as is” and Vicon the seller or the liquidator expressly disclaim their warranty obligation pertaining to the product, (h) to any non-Vicon hardware product or any software (irrespective of packaged or sold with Vicon hardware product) and Vicon products purchased from an unauthorized distributor/reseller, (i) to damage that occurs in shipment or (j) to damages by any other causes not related to defective design, workmanship and/or materials.

The warranty for the products shall run from Vicon to End User customers only (including product purchased through authorized partners and resellers). Vicon is not obligated under any circumstances to honor warranties on product(s) purchases from internet auction sites including eBay, uBid or from any other unauthorized resellers. Except as explicitly provided herein, Vicon disclaims all other warranties, including the implied warranties of fitness for a particular purpose and merchantability.

Software supplied either separately or in hardware is furnished on an “As Is” basis. Vicon does not warrant that such software shall be error (bug) free. Software support via telephone, if provided at no cost, may be discontinued at any time without notice at Vicon’s sole discretion. Vicon reserves the right to make changes to its software in any of its products at any time and without notice.

The Warranty and remedies provided above are exclusive and in lieu of all other express or implied warranties including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Certain jurisdictions do not allow the exclusion of implied warranties. If laws under such jurisdictions apply, then all express and implied warranties are limited to the warranty period identified above. Unless provided herein, any statements or representations made by any other person or firm are void. Except as provided in this written warranty and to the extent permitted by law, neither Vicon nor any affiliated shall be liable for any loss, (including loss of data and information), inconvenience, or damage, including, but not limited to, direct, special, incidental or consequential damages, resulting from the use or inability to use the Vicon product, whether resulting from breach of warranty or any other legal theory. Notwithstanding the foregoing, Vicon total liability for all claims under this warranty shall not exceed the price paid for the product. These limitations on potential liabilities have been an essential condition in setting the product.

No one is authorized to assume any liability on behalf of the Company, or impose any obligations on it in connection with the sale of any Goods, other than that which is specified above. In no event will the Company be liable for indirect, special, incidental, consequential, or other damages, whether arising from interrupted equipment operation, loss of data, replacement of equipment or software, costs or repairs undertaken by the Purchaser, or other causes.

This warranty applies to all sales made by the Company or its dealers and shall be governed by the laws of New York State without regard to its conflict of laws principles. This Warranty shall be enforceable against the Company only in the courts located in the State of New York. The form of this Warranty is effective February 1, 2015.

THE TERMS OF THIS WARRANTY APPLY ONLY TO SALES MADE WHILE THIS WARRANTY IS IN EFFECT. THIS WARRANTY SHALL BE OF NO EFFECT IF AT THE TIME OF SALE A DIFFERENT WARRANTY IS POSTED ON THE COMPANY’S WEBSITE, WWW.VICON-SECURITY.COM. IN THAT EVENT, THE TERMS OF THE POSTED WARRANTY SHALL APPLY EXCLUSIVELY.