

Action-CS Interior ADU QUICKSTART GUIDE

Created by Action-CS

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Action-CS Interior ADU Quickstart Guide



Document Controls

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Introduction

Welcome to the Action-CS Interior ADU Quickstart Guide! This guide provides step-by-step instructions to seamlessly connect your IP camera to the Action-CS Interior ADU.

System Requirements

Hardware Requirements:

- IP Camera: Ensure the camera supports the desired resolution and features.
- Network Router or Switch: A router or switch with available Ethernet ports if connecting via wired LAN.
- Computer or Mobile Device: A PC, laptop, smartphone, or tablet to access the camera.
 - PC: Minimum dual-core processor, 4GB RAM.
 - Mobile: iOS 12 or later, Android 8.0 or later.
- Power Source: A power adapter for the camera or Power over Ethernet (PoE) setup if supported.
- Ethernet Cable: Cat5e or Cat6 cable for wired connections.
- Storage Device (Optional): NVR, DVR, or external storage for video recording.

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Software Requirements:

- Operating System:
 - Windows 10 or later / macOS 10.13 or later.
 - Android 8.0 or later / iOS 12 or later for mobile apps.
- Web Browser:
 - Latest versions of Chrome, Firefox, Safari, or Edge for accessing the camera's web interface.
- Camera Management Software: Manufacturer's software or app for setup and management.
- Video Player: VLC or similar media players for live viewing or playback.

Network Requirements:

- Internet Connection:
 - Wired: Stable Ethernet connection for consistent performance.
 - Wireless: 2.4GHz or 5GHz Wi-Fi with good signal strength.
- Bandwidth:
 - At least 1 Mbps upload speed per camera for standard resolution.
 - 4-6 Mbps for high-definition video streaming.
- Static or Dynamic IP: Ensure the camera can obtain an IP address from the network (via DHCP or manually assigned static IP).

Additional Requirements:

- Login Credentials: Default or updated username and password for the camera.
- Firewall Settings: Open necessary ports if accessing the camera remotely.
- Compatibility: Ensure the camera is compatible with the Action-CS interior ADU.

Getting Started

Quickstart Installation and Wiring Guide

Step 1: Locate all the cables coming out of the bottom of the unit.

- You should have 1 ethernet cable as well as a pigtail with (red, black, yellow, blue, white, orange, brown) hanging from the bottom of the ADU.

Step 2: Secure the Camera

- Attach the camera to the housing using at least one screw. Leave the screw slightly loose to allow the camera to be rotated out of the way. Unless using the NPT adapter then attach on a work bench.
- This adjustment will be necessary to access the mounting screws with a long ball-end Allen key or screwdriver.

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Step 3: Connect the Ethernet Cable

- Plug an Ethernet cable into the outbound port and connect it to the camera's Ethernet port.

Step 4: Wire the Alarm/Digital Out

- Connect the camera's "Alarm Out/Digital Out" to the REX input on the Voice Down unit.
 - If this is using an Action-CS audio Card then this will be the only connection that is needed as the digital out on the camera will trigger the tiered audio messaging.
- Do not remove the heatshrink from the white wire unless directed from Action-CS Support.
- Refer to the wiring chart below and ensure correct polarity.
 - **Note:** If the lights fail to turn on or off, adjust the jumper settings.

Step 5: Connect Microphone Cables

- Wire the microphone cables from the Voice Down unit to the camera, ensuring correct polarity as indicated in the wiring chart.

Step 6: Wire Audio Out

- Connect the "Audio Out" from the camera to the Voice Down unit's audio input wires.
- Follow the wiring chart and ensure proper polarity.

Step 7: Crimp and Connect RJ45 Cable

- At the mounting location, crimp an RJ45 connector (without a boot) onto the Ethernet cable.
- Plug the cable into the "POE++" input on the Voice Down unit.

Step 8: Mount the Assembly

- Attach the assembly to the wall or ceiling.
- Secure it using the included hardware or the optional heavy-duty wall mount.

Step 9: Finalize Camera Installation

- Tighten the camera's position on the Voice Down unit.
- Secure the anti-tamper screw to prevent unauthorized adjustments.

Step 10: Test the Unit

- Verify all connections and test the unit to ensure proper functionality.

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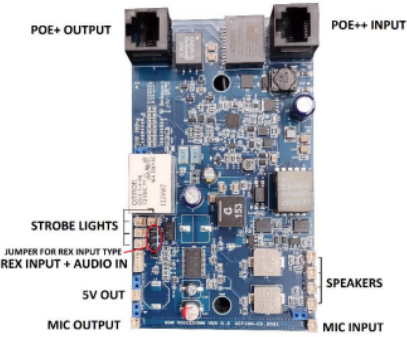


Wiring Chart

- Ensure all connections follow the polarity and wiring specifications provided in the chart below.
- Double-check connections for accuracy to avoid operational issues.

Wiring Color Key

Wire Color	Purpose
Blue	Alarm Out/Digital out (Low)
White	Digital Out/Alarm Out (Hi)
Yellow	Alarm Out/Digital Out Ground
Red	Audio Out
Black	Blue Audio Out Ground
Orange	Mic
Brown	Mic Ground



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Troubleshooting Steps

1. No Power to the Camera

- o Check the POE++ connection and ensure the cable is properly crimped.
- o Verify the power supply is functional and correctly connected.

2. Camera Not Connecting to the Network

- o Confirm the Ethernet cable is securely connected to both the camera and the Voice Down unit.
- o Check the network settings and ensure the camera is configured correctly.
- o Test the Ethernet cable with a cable tester to rule out any faults.

3. No Audio Output

- o Verify the microphone and audio out connections follow the wiring chart.
- o Check for reversed polarity in the audio wiring.
- o Ensure the camera's audio settings are enabled.

4. Alarm/Digital Out Not Working

- o Double-check the wiring connections and polarity.
- o If lights are not turning on or off, adjust the jumper settings as instructed.

5. Camera Alignment Issues

- o Loosen the mounting screw slightly to adjust the camera angle.
- o Ensure the anti-tamper screw is not over-tightened before final adjustments.

6. Unit Not Functioning After Installation

- o Verify all connections are secure and match the wiring chart.
- o Test the power supply and network connectivity.
- o Perform a reset on the camera and reconfigure as needed.

7. Intermittent Connectivity

- o Inspect the RJ45 connector for loose or damaged pins.
- o Ensure the cable run does not exceed the recommended length for Ethernet connections.

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SUPPORT

For assistance, contact:

Action-CS Support

- Phone: 1-206-237-7250 (Select Option 2)
 - Email: Support@action-cs.com
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