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› [AMOCAM V70C-520-3 3-Unit Apartment Video Intercom System User Manual](#)

AMOCAM V70C-520-3

AMOCAM V70C-520-3 3-Unit Apartment Video Intercom System User Manual

Model: V70C-520-3 | Brand: AMOCAM

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AMOCAM V70C-520-3 3-Unit Apartment Video Intercom System. This system is designed to enhance security and communication for multi-household buildings, featuring a 7-inch indoor monitor, an outdoor IR camera, and two-way intercom functionality. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x Outdoor Doorbell Unit
- 3 x Indoor Monitors (7-inch)
- 1 x Power Supply
- Connection Cables
- Mounting Accessories (screws, wall brackets)

3. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the product and ensure user safety:

- **Electrical Safety:** Ensure power is disconnected before performing any wiring or installation. All electrical work should be performed by a qualified electrician if you are unsure.
- **Environmental Conditions:** Do not expose the outdoor unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture. The indoor monitors are for indoor use only.
- **Handling:** Handle components with care to avoid physical damage. Do not attempt to disassemble or repair the units yourself.

- **Cables:** Use only the provided or recommended cables. Ensure cables are properly secured and not exposed to damage.

4. SETUP AND INSTALLATION

This section outlines the steps for installing your video intercom system. The system uses a wired connection for stable performance.

4.1 Outdoor Unit Installation

1. **Mounting Location:** Choose a location near your entrance, typically beside the door, where the camera can capture a clear view of visitors. The recommended height for the camera lens is between 145-160 cm (approximately 57-63 inches) from the ground, with the call button around 126 cm (approximately 50 inches).
2. **Secure the Bracket:** Pass the set iron through the holes on both sides of the outdoor station. Fix the bottom cover to the wall using the provided screws.
3. **Wiring:** Connect the necessary wires (video, audio, power) from the outdoor unit to the main distribution point according to the wiring diagram.

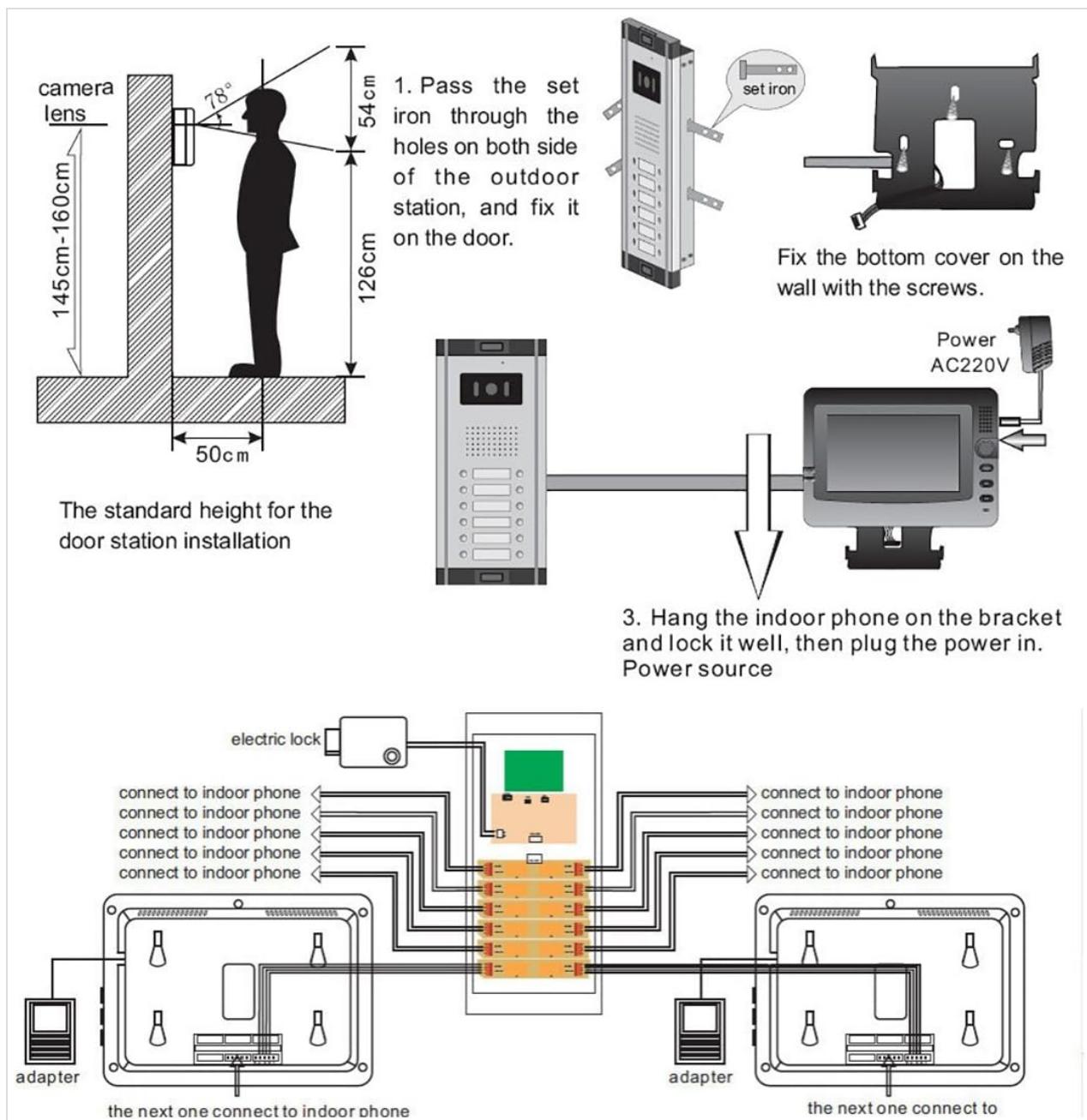


Figure 4.1: Outdoor Unit Installation Diagram and Wiring Schematic

4.2 Indoor Monitor Installation

- Mounting Location:** Select a convenient indoor location for each monitor, such as a living room or hallway.
- Secure the Bracket:** Install the wall bracket for each indoor monitor using screws.
- Wiring:** Connect the indoor monitor to the main distribution point using the provided connection cables. Ensure all connections are secure. Refer to the wiring diagram for correct terminal connections.
- Power Connection:** Plug in the power supply for each indoor monitor.
- Hang the Monitor:** Once wiring is complete, hang the indoor monitor onto its bracket.



Figure 4.2: Indoor Monitor Wiring Terminals

4.3 System Wiring Overview

The system utilizes a wired connection for reliable communication. The outdoor unit connects to a central point, which then distributes signals to each indoor monitor. An electric lock can also be integrated into the system for remote door unlocking.

Wiring Diagram Explanation:

- **GND:** Ground connection.
- **DC15V:** Power input for the monitor.
- **Video:** Video signal transmission.
- **Audio:** Audio signal transmission.
- **Power:** Additional power connection for specific functions or accessories.

Ensure all wires are connected to their corresponding terminals on both the outdoor unit and indoor monitors. Incorrect wiring can lead to system malfunction or damage.

Your browser does not support the video tag.

This video demonstrates the AMOCAM V70C-520-3 3-Unit Apartment Video Intercom System, showcasing its components, wiring connections, and operational features such as calling, monitoring, and two-way communication between the outdoor unit and indoor monitors.

5. OPERATING INSTRUCTIONS

This section details how to use the various functions of your AMOCAM video intercom system.

5.1 Indoor Monitor Functions

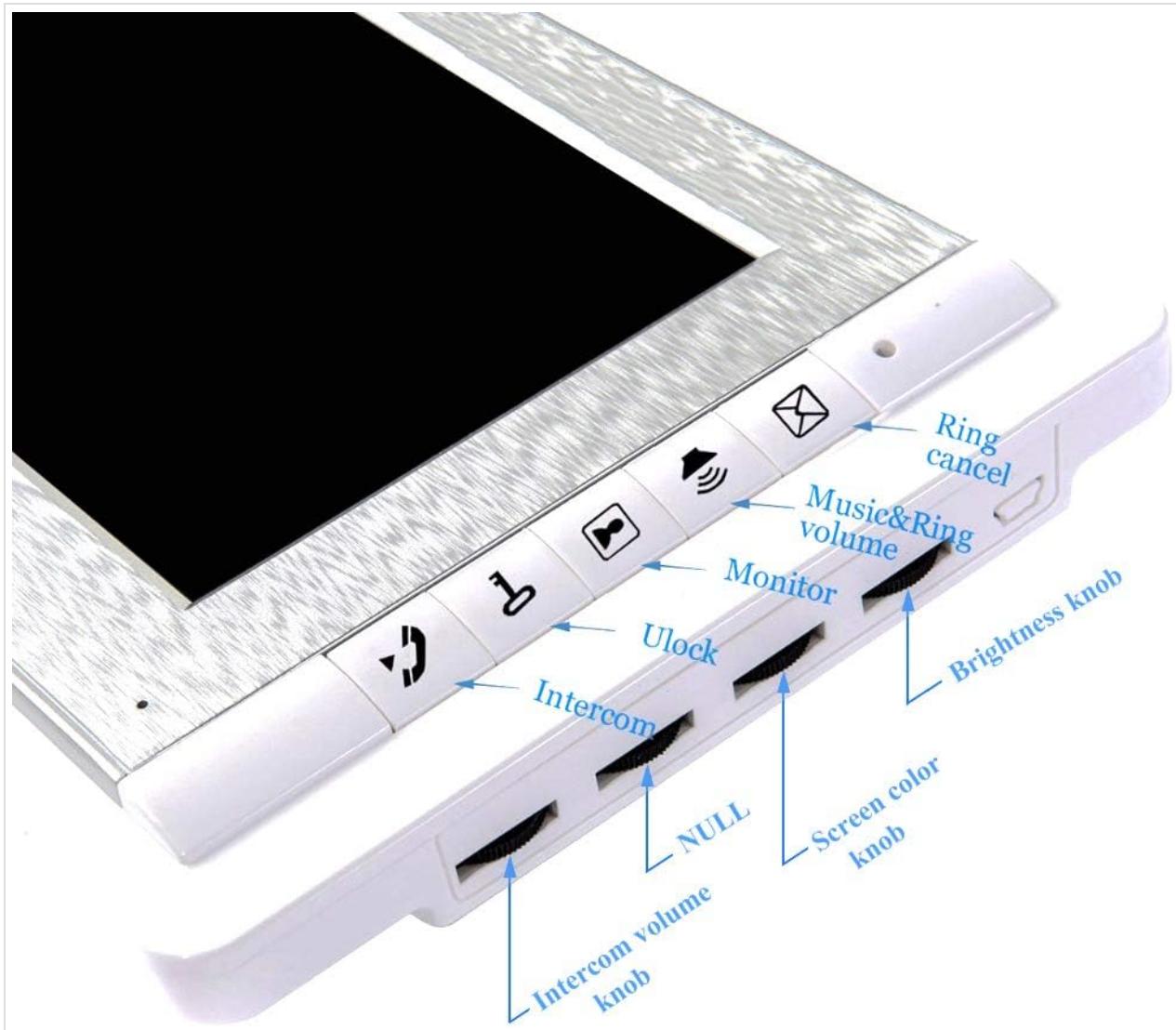


Figure 5.1: Indoor Monitor Controls

- **Door Answering:** When a visitor presses the call button on the outdoor unit, the indoor monitor will ring and display the visitor's image. Press the 'Answer' button on the monitor to establish two-way communication.
- **Monitoring:** Press the 'Monitor' button on the indoor unit to view the outdoor camera feed at any time, even without a visitor pressing the doorbell. This allows you to see outside your door.
- **Unlocking:** If an electric lock is connected to the system, press the 'Unlock' button on the indoor monitor to remotely open the door for your visitor.
- **Two-Way Intercom:** Engage in real-time audio communication with visitors at the outdoor unit.
- **Inter-Monitor Communication:** The system supports communication between indoor monitors within the same household or between different households if configured.
- **Volume Adjustment:** Use the 'Music & Ring volume' knob to adjust the doorbell chime volume and the 'Intercom volume knob' for call volume.
- **Display Adjustments:** Use the 'Brightness knob' and 'Screen color knob' to customize the display settings of your 7-inch LCD screen.

- **Doorbell Chimes:** Choose from 16 different kinds of doorbell chimes.

5.2 Outdoor Unit Functions



Figure 5.2: Outdoor Unit Front View

- **Call Buttons:** Each household has a dedicated call button. Pressing a button will alert the corresponding indoor monitor.
- **IR Night Vision Camera:** The 700TVL CMOS camera provides clear video, even in low-light conditions, thanks to its infrared night vision capabilities.
- **Microphone and Speaker:** Integrated microphone and speaker enable two-way audio communication with indoor monitors.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your AMOCAM video intercom system.

- **Cleaning:** Use a soft, dry cloth to clean the indoor monitors and outdoor unit. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the surfaces.
- **Outdoor Unit:** Periodically check the outdoor unit for any obstructions to the camera lens or microphone/speaker. Ensure it is free from dirt, dust, and spiderwebs.
- **Cables:** Inspect all visible cables for signs of wear or damage. Ensure connections remain secure.
- **Software Updates:** Check the manufacturer's website periodically for any available firmware updates for your system.

7. TROUBLESHOOTING

If you encounter issues with your system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No video on indoor monitor	Loose video cable connection; power issue; camera malfunction.	Check all video cable connections. Ensure the outdoor unit and indoor monitor are powered. If the issue persists, contact support.
No audio during intercom	Loose audio cable connection; volume too low; microphone/speaker malfunction.	Verify audio cable connections. Adjust intercom volume on the indoor monitor. Check for obstructions on the microphone/speaker.
Doorbell not ringing	Loose call button wiring; chime volume too low; monitor not powered.	Check call button wiring. Increase the 'Music & Ring volume' on the indoor monitor. Ensure the monitor has power.
Door unlock function not working	Incorrect electric lock wiring; incompatible lock; power issue to lock.	Verify electric lock wiring according to the diagram. Ensure the lock receives power. Confirm lock compatibility.
Poor video quality at night	Obstruction to IR sensors; dirty camera lens.	Clean the camera lens. Ensure no objects are blocking the IR sensors on the outdoor unit.

If these steps do not resolve the issue, please contact AMOCAM customer support for further assistance.

8. SPECIFICATIONS

Below are the technical specifications for the AMOCAM V70C-520-3 Video Intercom System:

- **Model Number:** V70C-520-3
- **Screen Size:** 7 Inches
- **Video Capture Resolution:** 720p
- **Photo Sensor Technology:** CMOS
- **Low Light Technology:** Night Color (IR Night Vision)
- **Connectivity Technology:** Wired
- **Power Source:** Battery Powered (for some components, main system is wired)
- **Voltage:** 240 Volts
- **Wattage:** 5 watts
- **Material:** Aluminum (outdoor unit)
- **Color:** White Silver
- **Item Dimensions (L x W x H):** 14 x 11 x 4 inches
- **Item Weight:** 5.7 pounds
- **Mounting Type:** Wall Mount
- **International Protection Rating:** IP65 (for outdoor unit)
- **Number of Channels:** 2-way intercom

- **Recommended Uses:** Doorbell, Indoor, Outdoor
- **Manufacturer:** AMOCAM

9. WARRANTY AND SUPPORT

AMOCAM products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your purchase or visit the official AMOCAM website. For technical support, troubleshooting assistance, or inquiries regarding parts and service, please contact AMOCAM customer service through the contact information provided on their website or your purchase documentation.