AMOCAM V70C-520-2

AMOCAM 2 Units Apartment Video Intercom System User Manual

Model: V70C-520-2

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your AMOCAM 2 Units Apartment Video Intercom System. This system is designed to enhance security and communication for multi-unit dwellings, allowing residents to see, hear, and speak with visitors at the door, as well as remotely unlock the door.



Figure 1.1: Overview of the AMOCAM 2 Units Apartment Video Intercom System, showing the outdoor camera unit and two indoor monitors.

2. Product Components

The AMOCAM 2 Units Apartment Video Intercom System includes the following components:

- 1 x Outdoor Doorbell Unit
- 2 x Indoor Monitor Units
- 2 x Power Supplies for Indoor Monitors
- Connection Cables
- Mounting Accessories (screws, wall anchors)



Figure 2.1: Detailed view of the outdoor unit with labeled components: Camera, LED, Microphone, Speaker, and Call Button.

3. Specifications

Below are the technical specifications for the AMOCAM Video Intercom System:

Feature	Detail
Brand	AMOCAM
Model Number	V70C-520-2
Connectivity Technology	Wired
Indoor/Outdoor Usage	Outdoor, Indoor
Special Feature	Night Vision
Power Source	Battery Powered *(Note: Product description states "Power Supply" included, "Battery Powered" might refer to internal battery for memory/settings)*
Video Capture Resolution	720p (700TVL CMOS)
Color	White Silver

Feature	Detail
Number of Items	2 (Monitors)
Material	Aluminum (Outdoor Unit)
Voltage	240 Volts
Wattage	1.5 watts
Item Dimensions (L x W x H)	12.5 x 7 x 5 inches
Item Weight	4.33 pounds
International Protection Rating	IP54



Figure 3.1: Dimensions of the indoor monitor unit.

4. Setup and Installation

Proper installation is crucial for the optimal performance of your intercom system. Please follow these steps carefully.

4.1 Outdoor Unit Installation

1. **Determine Mounting Location:** Choose a suitable location near your entrance, ensuring the camera has a

clear view of visitors. The recommended standard height for the camera lens is between 145cm and 160cm from the ground.

2. **Mount the Set Iron:** Pass the provided set iron bracket through the holes on both sides of the outdoor station. Securely fix this bracket to the wall or door frame using appropriate screws and wall anchors.
3. **Attach Bottom Cover:** Fix the bottom cover of the outdoor unit to the wall with screws, ensuring it is stable and level.
4. **Secure Outdoor Unit:** Mount the outdoor unit onto the fixed bracket and bottom cover. Ensure it is securely fastened and weatherproof.

4.2 Indoor Monitor Installation

1. **Choose Location:** Select a convenient indoor location for each monitor, typically within the apartment unit.
2. **Mount Bracket:** Secure the indoor monitor's mounting bracket to the wall using screws and wall anchors.
3. **Connect Wiring:** Before hanging, connect the necessary wiring to the back of the indoor monitor. Refer to the wiring diagram in Section 4.3.
4. **Hang Monitor:** Hang the indoor monitor onto the mounted bracket, ensuring it locks into place.
5. **Connect Power:** Plug in the power supply for the indoor monitor.



Figure 4.1: Rear wiring connections for the indoor monitor.

4.3 Wiring Diagram and Connections

The system requires wired connections between the outdoor unit, indoor monitors, and power sources. Use RVV-4 wire for optimal connection stability. Ensure all connections are secure before powering on the system.

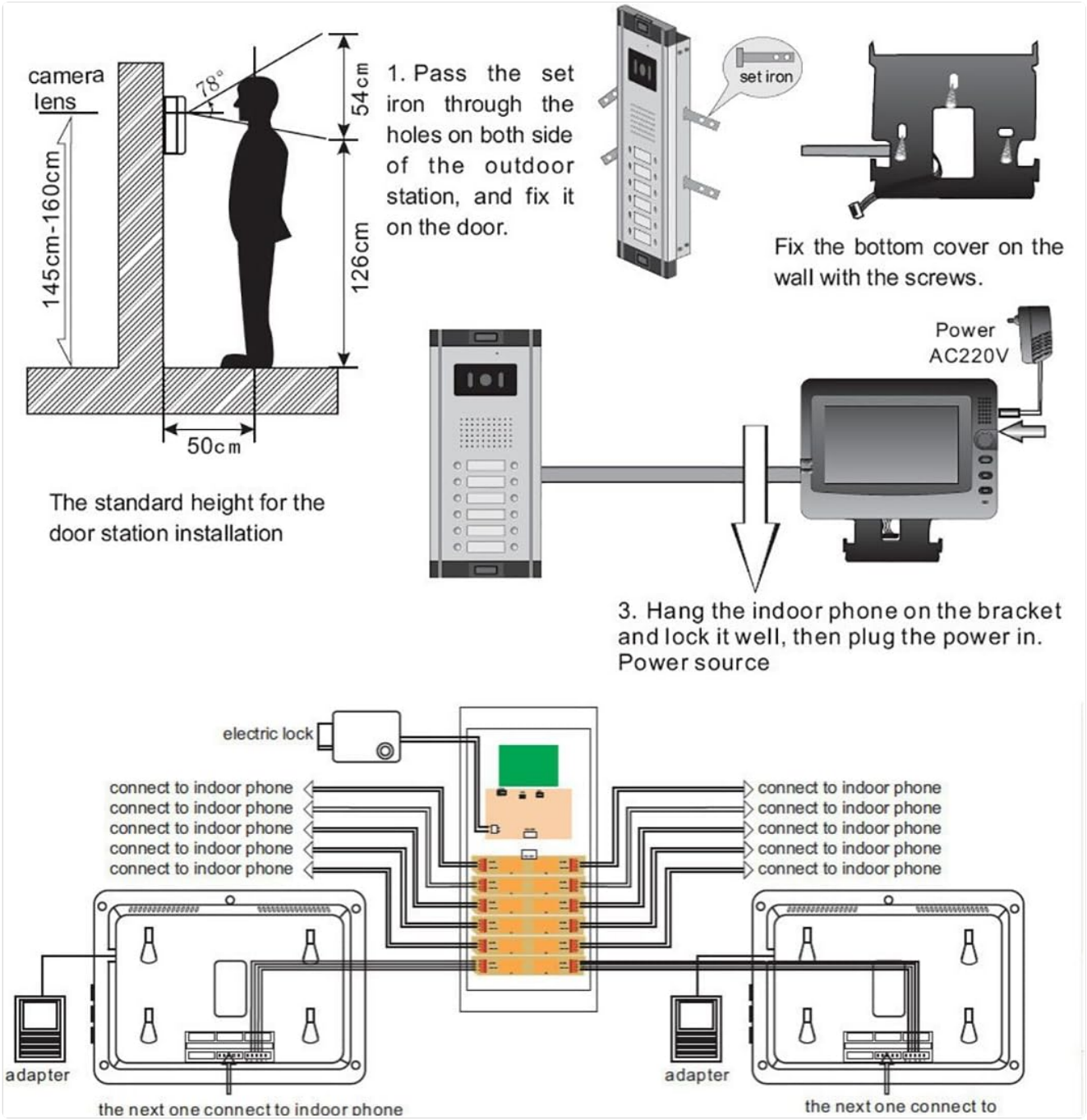


Figure 4.2: Complete installation and wiring diagram for the AMOCAM 2-unit intercom system. This diagram illustrates the standard height for outdoor station installation, the mounting process, and the detailed electrical connections for the outdoor unit, two indoor monitors, power supplies, and an electric lock.

- **Outdoor Unit to Indoor Monitors:** Connect the outdoor unit to each indoor monitor using the appropriate video, audio, and power lines as indicated in the diagram.
- **Power Supply:** Ensure each indoor monitor is connected to its dedicated power supply.
- **Electric Lock (Optional):** If integrating an electric lock, connect it to the outdoor unit as shown in the diagram.

5. Operating Instructions

Learn how to use the various functions of your AMOCAM Video Intercom System.

5.1 Indoor Monitor Controls

The indoor monitor features several buttons and knobs for controlling the system:

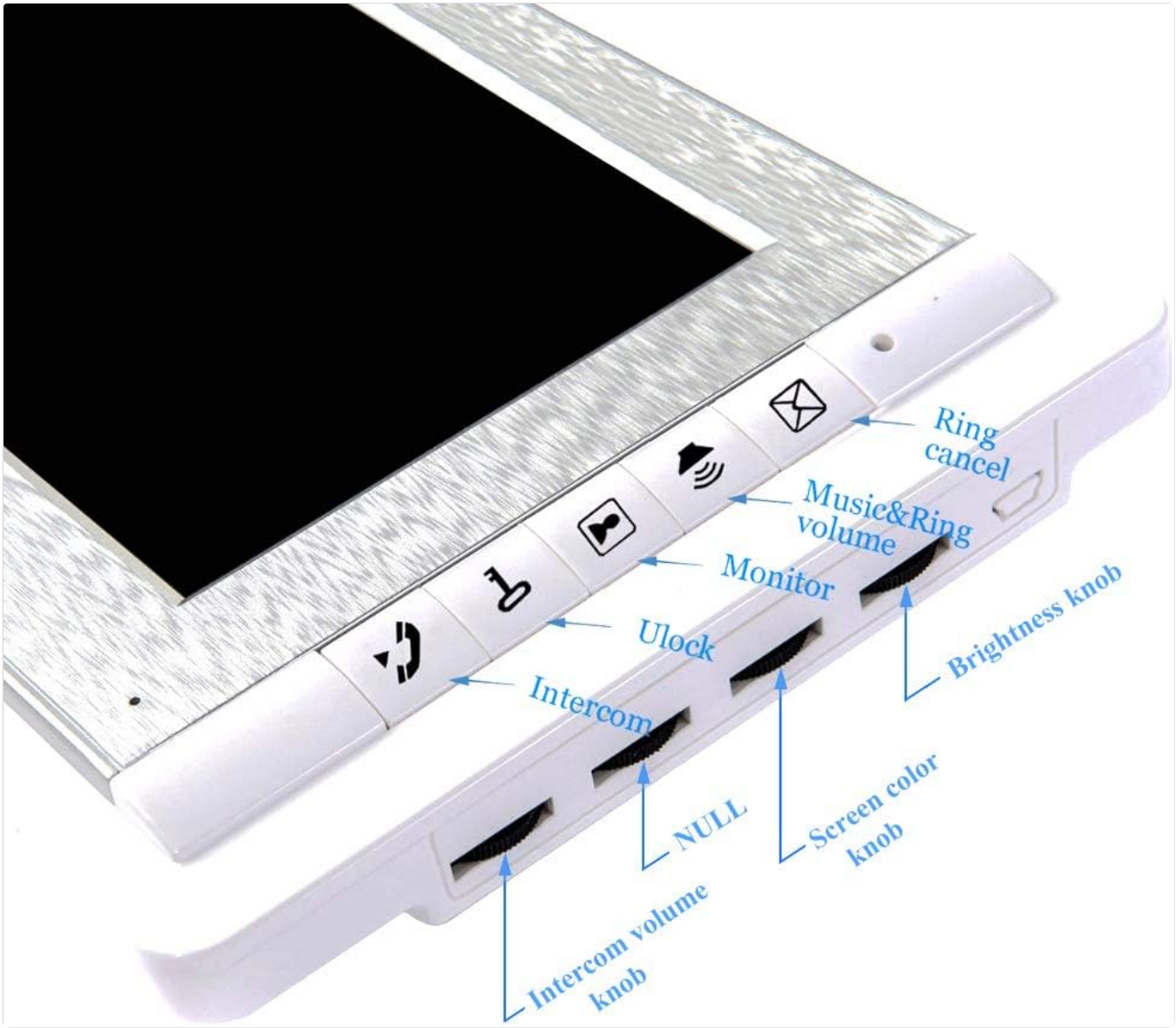


Figure 5.1: Indoor monitor controls and adjustment knobs.

- **Ring Cancel Button:** Press to silence the doorbell ring.
- **Monitor Button:** Press to view the outdoor camera feed.
- **Unlock Button:** Press to remotely unlock the connected electric door lock.
- **Intercom Button:** Press to initiate or answer an intercom call with the outdoor unit or another indoor monitor.
- **Music & Ring Volume Knob:** Adjusts the volume of the doorbell chimes and system sounds.
- **Brightness Knob:** Adjusts the screen brightness.
- **Screen Color Knob:** Adjusts the color saturation of the display.
- **Intercom Volume Knob:** Adjusts the volume of the two-way audio during intercom calls.

5.2 Basic Functions

- **Answering a Call:** When a visitor presses the call button on the outdoor unit, the indoor monitor will ring. Press the **Intercom** button to answer and speak with the visitor.
- **Monitoring:** To view the outdoor area without a visitor pressing the doorbell, press the **Monitor** button on the indoor unit.
- **Unlocking the Door:** During a conversation or while monitoring, press the **Unlock** button to open the connected electric door lock.
- **Two-Way Intercom:** Engage in real-time two-way audio communication with visitors at the outdoor unit.

- **Inter-Monitor Communication:** (If supported by specific model configuration) You can communicate between the two indoor monitors. Consult the wiring diagram for specific connections required for this feature.



Figure 5.2: The "See, Hear" function allows residents to monitor and communicate with visitors.

6. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the surfaces of both indoor and outdoor units. Avoid abrasive cleaners or solvents that may damage the finish or electronic components.
- **Outdoor Unit Lens:** Periodically clean the camera lens on the outdoor unit to ensure clear video quality. Use a lens cleaning cloth or a soft, damp cloth.
- **Wiring Inspection:** Annually inspect all visible wiring for any signs of wear, damage, or loose connections. Address any issues promptly to prevent system malfunctions.
- **Environmental Protection:** While the outdoor unit is IP54 rated for dust and splash resistance, avoid direct exposure to extreme weather conditions if possible. Ensure proper drainage around the unit.

7. Troubleshooting

If you encounter issues with your intercom system, refer to the following table for common problems and their solutions.

Problem	Possible Cause	Solution
No image on indoor monitor	Loose video cable connection; Power supply issue; Outdoor camera malfunction.	Check all video cable connections between outdoor and indoor units. Ensure power supply is connected and working. Inspect outdoor camera for damage.

Problem	Possible Cause	Solution
No audio during intercom	Loose audio cable connection; Microphone/speaker malfunction; Volume too low.	Verify audio cable connections. Adjust intercom volume knob on the indoor monitor.
Doorbell not ringing	Loose call button wiring; Ring volume too low; Faulty outdoor unit button.	Check wiring from outdoor unit call button to indoor monitor. Adjust Music & Ring Volume knob.
Door unlock function not working	Electric lock not connected or faulty; Loose unlock wiring; Power issue to lock.	Ensure electric lock is properly connected and receiving power. Check unlock wiring from indoor monitor to outdoor unit/lock.
Poor image quality (blurry, distorted)	Dirty camera lens; Incorrect screen settings; Damaged video cable.	Clean the outdoor camera lens. Adjust Brightness and Screen Color knobs on the indoor monitor. Inspect video cable for damage.

8. Warranty and Support

AMOCAM Technology Inc. is committed to providing high-quality products and customer satisfaction. For any technical assistance, warranty claims, or product inquiries, please contact AMOCAM customer support.
AMOCAM aims to help people apply the power of technology to make their lives better, more convenient, and more fulfilling. We provide after-sales support and services to all of our customers around the world. Privacy and security are top priorities, and we are wholeheartedly committed to protecting your privacy and ensuring your data is always secure.
Please refer to your purchase documentation for specific warranty terms and contact information.

© 2024 AMOCAM Technology Inc. All rights reserved.
For more information, visit AMOCAM Store on Amazon.