

AMOCAM L+70N-H

AMOCAM Video Intercom System User Manual

Model: L+70N-H

1. PRODUCT OVERVIEW

The AMOCAM L+70N-H Video Intercom System is a wired security solution designed for villas, houses, offices, and apartments. It features a 7-inch color monitor and an outdoor doorbell unit with an integrated HD camera, enabling two-way communication, monitoring, and remote unlocking.

Key features include:

- **Clear Communication:** See and speak with visitors through the 7-inch monitor.
- **Night Vision:** Infrared LED projection on the outdoor unit provides clear vision even in low light or darkness.
- **Customizable Settings:** Adjust brightness, volume, contrast, and choose from 16 selectable doorbell tones.
- **Remote Unlocking:** Supports electric door/gate locks for convenient access control.
- **Durable Design:** Outdoor unit features a rain cover and robust ABS and Acrylic front panel for protection against vandalism and weather.



Figure 1.1: AMOCAM Video Intercom System (Indoor Monitor and Outdoor Unit)

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Outdoor Doorbell Unit
- 1 x Indoor Monitor (7-inch LCD)
- 1 x Power Supply Adapter
- 1 x Rain Cover for Outdoor Unit
- Connection Cables
- Connection Terminals
- Mounting Screws and Accessories

3. PRODUCT COMPONENTS

3.1 Indoor Monitor

The indoor monitor features a 7-inch TFT LCD screen for clear viewing and intuitive buttons for various functions.



Figure 3.1: Indoor Monitor Components

- **Power Light:** Indicates power status.
- **Ring Cancel:** Silences the doorbell ring.
- **Ring Tone & Adjust:** Changes doorbell melodies and adjusts settings.
- **Monitor:** Activates live view from the outdoor camera.
- **Unlock:** Remotely unlocks a connected electric door/gate lock.
- **Intercom:** Initiates two-way communication with the outdoor unit.
- **Microphone:** For speaking during intercom calls.



Figure 3.2: Indoor Monitor Dimensions

3.2 Outdoor Doorbell Unit

The outdoor unit houses the HD camera and call button, designed for outdoor use with a protective rain cover.



Figure 3.3: Outdoor Doorbell Unit Components

- **Rain Cover:** Protects the unit from weather elements.
- **Microphone:** Captures audio from visitors.
- **Camera:** HD camera with a 92-degree viewing angle.
- **Infrared Night Vision:** 6 pcs infrared LEDs for clear images in the dark.
- **Call Button:** Visitors press this button to alert the indoor monitor.
- **Speaker:** For two-way audio communication.



Figure 3.4: Outdoor Doorbell Unit Dimensions

4. INSTALLATION GUIDE

The AMOCAM Video Intercom System is designed for surface mounting and DIY installation. Follow these steps for proper setup.

4.1 Wiring Diagram

Ensure all power is disconnected before beginning wiring. The system uses a 4-wire connection between the outdoor unit and the indoor monitor. Additional wiring is required for electric lock integration.

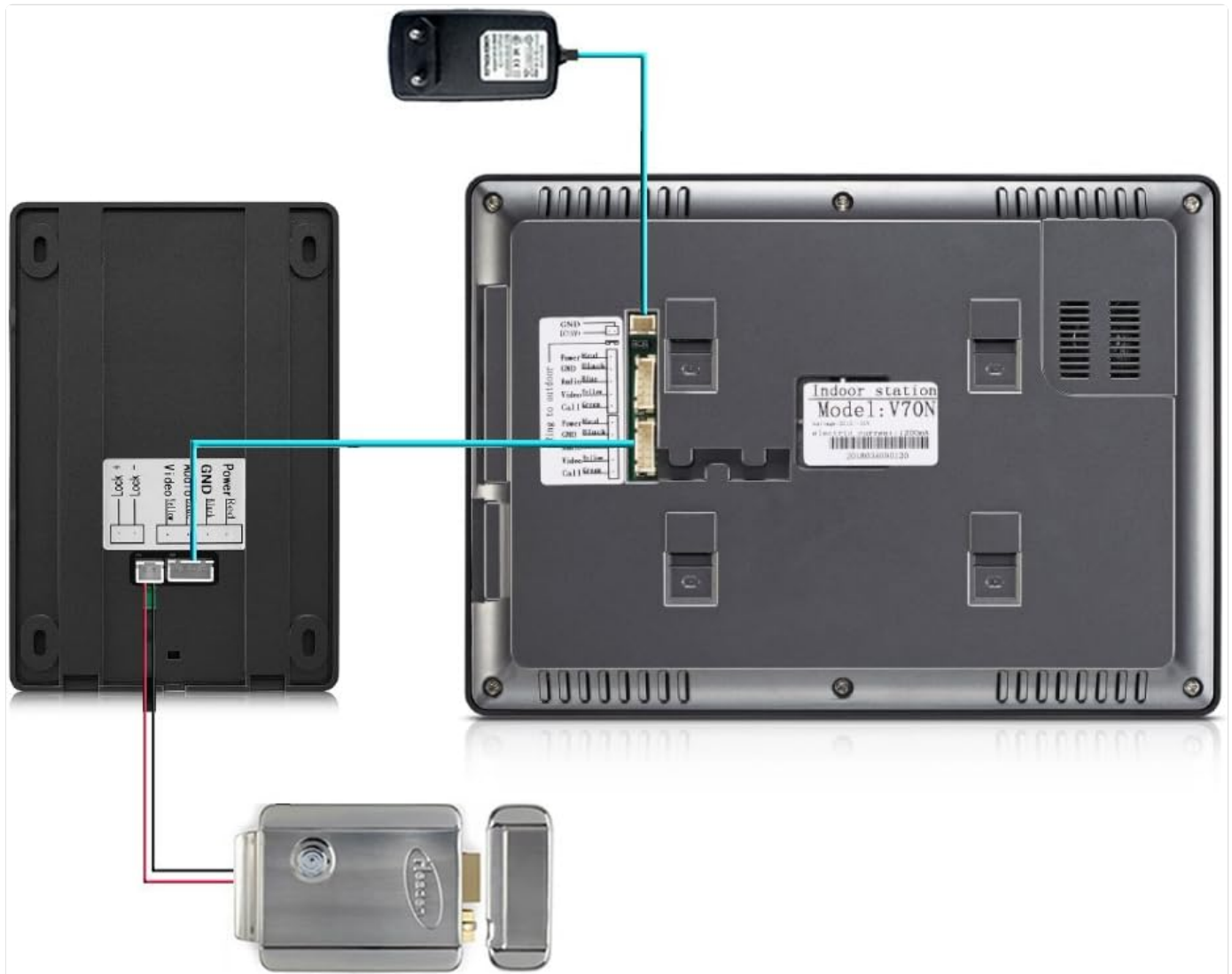


Figure 4.1: System Wiring Diagram

- **Cable Type:** For distances up to 30m (95 feet), use RVV4*0.30mm cable or CAT network cable. For 50m (150 feet), use RVV4*0.50mm cable. For 100m (320 feet), use RVV4*1.0mm cable.
- **Power Supply:** Connect the provided power supply to the indoor monitor.
- **Electric Lock (Optional):** If connecting an electric bolt lock, electric strike, or electric magnetic lock, an extra "Power Supply Control" unit is required to connect the lock.

4.2 Mounting

1. Choose a suitable location for both the indoor monitor and outdoor doorbell unit. The outdoor unit should be placed at a height that allows visitors to be clearly seen by the camera.
2. Mount the rain cover for the outdoor unit using the provided screws.

3. Secure the outdoor doorbell unit within the rain cover.
4. Mount the indoor monitor to a wall using the provided mounting bracket and screws.
5. Connect all necessary cables as per the wiring diagram (Figure 4.1).
6. Once all connections are secure, connect the power supply to an electrical outlet.

5. OPERATING INSTRUCTIONS

This section details the primary functions of your AMOCAM Video Intercom System.

5.1 Receiving a Call

1. When a visitor presses the call button on the outdoor unit, the indoor monitor will ring and display the visitor's image.
2. To answer the call, press the **Intercom** button on the indoor monitor.
3. Engage in two-way communication with the visitor.
4. To end the call, press the **Intercom** button again or wait for the call to automatically disconnect after a set period.

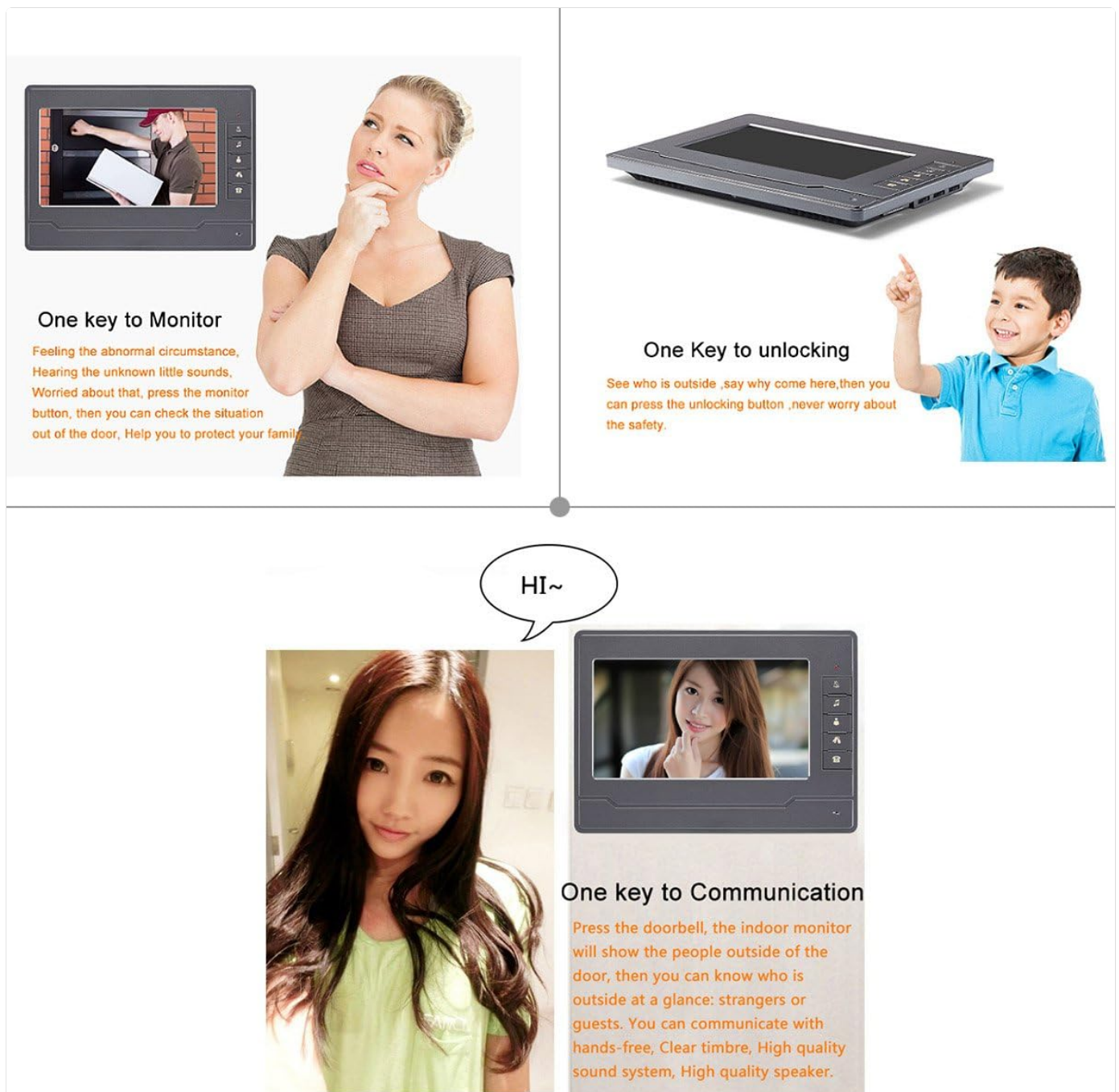


Figure 5.1: Core Functions Overview

5.2 Active Monitoring

You can view the outdoor area at any time without a visitor pressing the call button.

1. Press the **Monitor** button on the indoor monitor.
2. The screen will display a live feed from the outdoor camera.
3. To end monitoring, press the **Monitor** button again.

See, Hear

It can function as a monitor.
Press the button of Response Monitoring, the screen will show you the picture outside doors, which makes you know the outside world staying in the house.

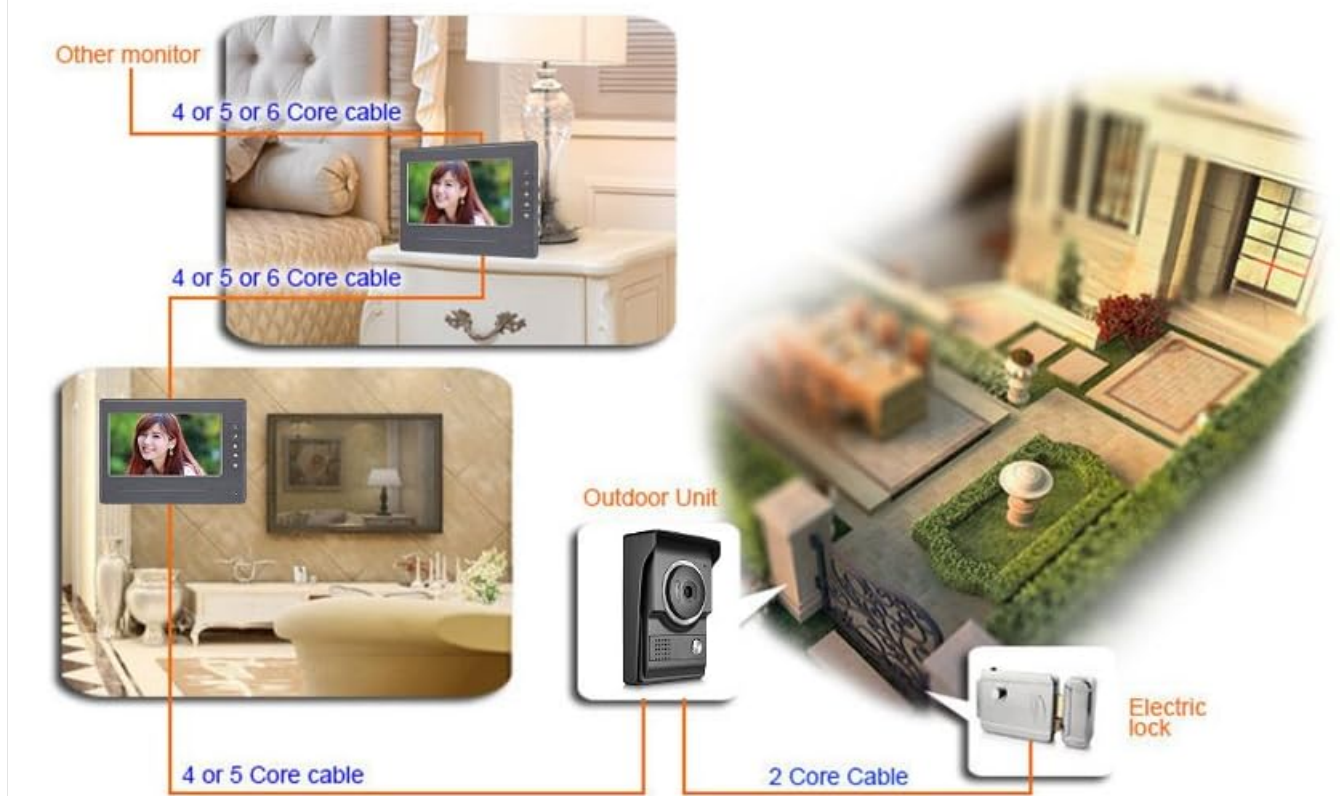


Figure 5.2: Monitoring and Multi-Monitor Setup

5.3 Unlocking the Door

If an electric lock is connected, you can unlock it directly from the indoor monitor.

1. During an active call or while monitoring, press the **Unlock** button on the indoor monitor.
2. The connected electric lock will disengage, allowing entry.

Your browser does not support the video tag.

Video 5.1: Demonstration of Video Doorbell System Functions, including monitoring and unlocking an electric lock.

5.4 Adjusting Settings

Use the **Ring Tone & Adjust** button to access settings for brightness, color, volume, and ringtone selection.

- Press the button repeatedly to cycle through adjustable parameters.
- Use the up/down arrows (if available, or refer to specific model instructions) to modify values.
- The monitor supports 16 different doorbell tones.

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the monitor screen and outdoor unit. Avoid abrasive cleaners or solvents.
- **Outdoor Unit:** Periodically check the outdoor unit for any obstructions (dirt, spiderwebs) on the camera lens or microphone/speaker grilles. Clean gently if necessary.
- **Cabling:** Ensure all cables are securely connected and free from damage. Avoid bending or pinching cables.
- **Environmental Protection:** While the outdoor unit has a rain cover, avoid direct exposure to extreme weather conditions if possible.

7. TROUBLESHOOTING

If you encounter issues with your AMOCAM Video Intercom System, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on monitor / Monitor screen is black.	Power supply disconnected. Loose cable connection. Outdoor unit camera malfunction.	Check if the power adapter is properly plugged in. Verify all 4-wire connections between the outdoor unit and monitor are secure. Contact customer support if the issue persists.
No audio during intercom / Poor audio quality.	Microphone/speaker obstructed. Volume setting too low. Loose audio wire connection.	Clear any debris from the microphone and speaker grilles on both units. Adjust the volume setting on the indoor monitor. Check the audio wire connections.
Doorbell not ringing.	Ring volume set to zero or muted. Call button on outdoor unit is faulty.	Adjust the ring volume on the indoor monitor. Ensure the "Ring Cancel" function is not active. Test the call button; if unresponsive, contact support.
Electric lock not unlocking.	Incorrect wiring to the electric lock. Missing external power supply control for the lock. Lock mechanism issue.	Review the wiring diagram for electric lock connections. Confirm that an appropriate external "Power Supply Control" unit is used for the lock, if required. Test the electric lock independently.

8. SPECIFICATIONS

Feature	Detail
Brand	AMOCAM
Model Number	L+70N-H
Indoor Monitor Display	7-inch TFT LCD (16:9)
Monitor Resolution	800 x 480
Outdoor Camera Resolution	720p (700 TV-Lines)
Image Sensor	Colorful CMOS sensor (1/3 inch)
View Angle	92 degrees
Night Vision	6 pcs Infrared LED
Connectivity Protocol	Wired
Power Source	AC 100-240V 50Hz-60Hz
Material (Outdoor Unit)	ABS with waterproof cover
Mounting Type	Surface Mount (DIY installation)
Item Dimensions (L x W x H)	10 x 9.5 x 2 inches
Item Weight	2 Pounds
IP Rating	IP65
UPC	669614774976

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or visit the official AMOCAM website. Specific warranty terms and conditions may vary.

You can also visit the AMOCAM Store on Amazon for more information:[AMOCAM Amazon Store](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question