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## COMMAX CDV-70H

# COMMAX CDV-70H Hands-Free Video Intercom System User Manual

*Model: CDV-70H*

## 1. INTRODUCTION

Thank you for choosing the COMMAX CDV-70H Hands-Free Video Intercom System. This manual provides detailed instructions for the installation, operation, and maintenance of your new device. Please read this manual thoroughly before using the product to ensure proper and safe operation. The CDV-70H offers a 7-inch TFT LED display, supporting video communication and door lock release for enhanced security and convenience in your home.

## 2. SAFETY INFORMATION

- Always disconnect power before performing any installation, maintenance, or cleaning procedures.
- Do not expose the device to water, excessive humidity, or extreme temperatures.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not attempt to disassemble or repair the unit yourself. Refer all servicing to qualified personnel.
- Keep the device away from strong magnetic fields.

## 3. PACKAGE CONTENTS

Please check the package contents to ensure all items are present:

- COMMAX CDV-70H Main Monitor Unit
- Mounting Bracket
- Screws and Wall Plugs
- User Manual (this document)

## 4. PRODUCT OVERVIEW

The COMMAX CDV-70H is a sleek and functional video intercom monitor. It features a large 7-inch display for clear visuals and intuitive touch-sensitive buttons for easy operation.



Figure 4.1: COMMAX CDV-70H Main Monitor Unit

This image displays the front of the COMMAX CDV-70H monitor. It features a large, dark screen at the top, with a row of five touch-sensitive icons below it, including a home icon, a person icon, a settings gear, a key icon, and a grid icon. Below these icons, there is a white panel with the COMMAX logo subtly printed on the bottom right. The overall design is minimalist and modern.

## 5. SETUP

### 5.1 Mounting the Monitor

Choose an indoor location for the monitor that is easily accessible and free from direct sunlight or heat sources. Use the provided mounting bracket and screws to securely attach the monitor to a wall.

### 5.2 Wiring Connections

The CDV-70H system requires wired connections for the door camera and power. Refer to the diagram below for proper wiring. The system supports one door camera and up to two additional indoor units (sub-screens or intercom phones).

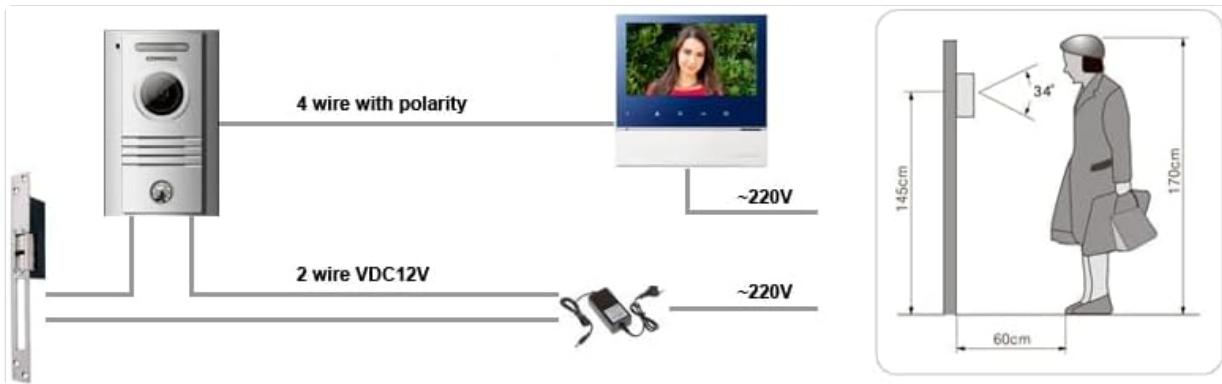


Figure 5.1: System Wiring and Optimal Camera Height

This diagram illustrates the wiring connections for the COMMAX video intercom system. It shows the outdoor door station connected to the indoor monitor via a 4-wire cable with polarity. A separate 2-wire VDC12V connection from the door station goes to an electric door lock, powered by a ~220V adapter. The indoor monitor is also powered by ~220V. On the right, a separate diagram shows the optimal installation height for the outdoor camera, recommending approximately 145 cm from the ground for a clear view of a person between 170 cm and 180 cm tall, with a 34-degree viewing angle.

- **Door Camera Connection:** Connect the outdoor door camera to the main monitor using a 4-wire cable. Ensure correct polarity.
- **Power Supply:** Connect the monitor to an AC 100-240V, 50/60Hz power source.
- **Door Lock Release:** Connect the electric door lock to the outdoor door camera unit using a 2-wire VDC12V connection.
- **Intercommunication (Optional):** If installing additional indoor units, connect them to the main monitor using 4-wire cables for intercommunication functionality.

### 5.3 Optimal Installation Height for Outdoor Camera

For optimal viewing and communication, install the outdoor camera unit at a height that allows visitors to be clearly seen. The recommended height is approximately 145 cm from the ground, which provides a good viewing angle for most individuals.

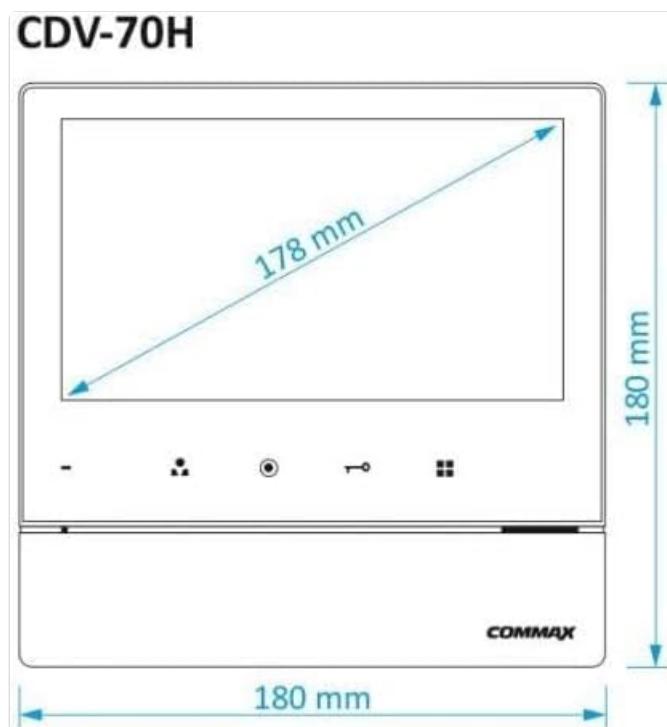


Figure 5.2: CDV-70H Monitor Dimensions

This image provides a technical drawing of the COMMAX CDV-70H monitor, detailing its physical dimensions. The monitor has a width of 180 mm and a height of 180 mm. The diagonal measurement of the screen itself is indicated as 178 mm.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Receiving a Call

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 (typically a phone icon) to initiate two-way audio and video communication.

### 6.2 Door Release

During an active call or while monitoring the outdoor unit, press the **Door Release** button (typically a key icon) to unlock the connected door. Ensure the door lock mechanism is properly installed and wired.

### 6.3 Intercommunication

If multiple indoor units (sub-screens or intercom phones) are installed, you can communicate between them. Press the **Intercom** button (typically a person icon or similar) and select the desired indoor unit to establish communication.

### 6.4 Monitoring

To view the outdoor camera feed at any time without a visitor call, press the **Monitor** button (typically an eye icon or similar). This allows you to check the outdoor area proactively.

## 7. MAINTENANCE

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- **Cleaning:** Clean the monitor screen and unit casing with a soft, dry, lint-free cloth. Do not use liquid cleaners, abrasive materials, or chemical solvents, as these may damage the surface.
- **Connections:** Periodically check all wiring connections to ensure they remain secure and free from corrosion.
- **Outdoor Unit:** Keep the outdoor camera lens clean and free from obstructions (dirt, dust, spiderwebs) for clear image quality.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No image on monitor screen.	Power not connected; Camera wiring incorrect; Camera malfunction.	Check power supply to the monitor. Verify 4-wire connection between monitor and camera. Test camera functionality.
No audio during communication.	Wiring issue; Volume too low.	Check 4-wire connection. Adjust monitor volume settings.
Door lock not releasing.	Door lock wiring incorrect; Insufficient power to lock; Lock malfunction.	Verify 2-wire connection from outdoor unit to door lock. Ensure adequate power supply for the lock. Check the door lock mechanism.
Intercom not working.	Sub-unit wiring incorrect; Sub-unit malfunction.	Check 4-wire connection between main and sub-units. Ensure sub-unit is powered.

## 9. SPECIFICATIONS

Feature	Detail
Model Name	CDV-70H
Display	7-inch TFT LED Color LCD
Mounting Type	Screw (Wall Mount)
Material	Plastic
Power Source	AC 100-240V, 50/60Hz
Power Consumption	Max. 16W / Standby 3W
Wiring (Door Camera)	4-wire with polarity
Wiring (Intercom)	4-wire
Max. Door Camera Distance	50 meters (0.65Ø)
Max. Intercom Phone Distance	30 meters (0.65Ø)
Dimensions (W x H x D)	180 x 180 x 28 mm
Item Weight	900 g
Color	Snowy
Batteries Required	No

## 10. WARRANTY AND SUPPORT

For warranty information, technical support, and service inquiries, please refer to the warranty card included with your product or visit the official COMMAX website. It is recommended to keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, please contact your local COMMAX distributor or authorized service center.