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COMMAX DR-6UM

COMMAX DR-6UM Aluminum 6-Way Audio Intercom Door Station User Manual

Model: DR-6UM

1. PRODUCT OVERVIEW

The COMMAX DR-6UM is a robust 6-button audio intercom panel designed as a door entrance unit. It integrates seamlessly with various COMMAX intercom systems to enhance security and convenience for residential buildings. This unit is constructed with a durable aluminum panel, ensuring longevity and reliable performance.

Key Features:

- Functionality:** Connects to up to 6 residential stations, allowing audio communication with visitors at the door.
- Compatibility:** Designed to connect with COMMAX indoor units such as DP-SS, DP-KSS, DP-4KS, and DP-MR.
- Material:** Features a high-quality aluminum panel for durability and a sleek appearance.
- Mounting Type:** Flush mounting for a clean, integrated installation.
- Wiring:** Utilizes a common 3-wire system with one individual wire per unit for efficient connection.
- Power Source:** Requires DC 12V, 500mA (Power adapter not included).

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your COMMAX DR-6UM intercom system. Please follow these instructions carefully. It is recommended that installation be performed by a qualified technician.

2.1 Package Contents

- COMMAX DR-6UM Door Station Unit
- Mounting Screws

Note: The DC 12V, 500mA power adapter is not included and must be purchased separately.

2.2 Installation Steps

- Preparation:** Ensure all power to the installation area is turned off at the circuit breaker before beginning. Gather necessary tools, including a screwdriver, wire strippers, and a drill.
- Mounting Location:** Select a suitable flush-mount location near the entrance, ensuring it is protected from direct

heavy rain and extreme weather conditions. The unit should be mounted at an accessible height for all users.

3. **Wiring:** Refer to the wiring diagrams below for correct connections. The system uses a common 3-wire setup, with an additional individual wire for each indoor station. Connect the power supply (DC 12V, 500mA) to the designated terminals. Ensure all connections are secure and insulated.
4. **Secure the Unit:** Insert the DR-6UM unit into the flush-mount opening and secure it using the provided screws.
5. **Test:** Once installation is complete and all connections are verified, restore power and test the intercom system by pressing each call button and verifying communication with the corresponding indoor unit.



Figure 1: Front view of the COMMAX DR-6UM 6-way audio intercom door station. This image shows the silver aluminum panel with six call buttons and a speaker grille at the top.

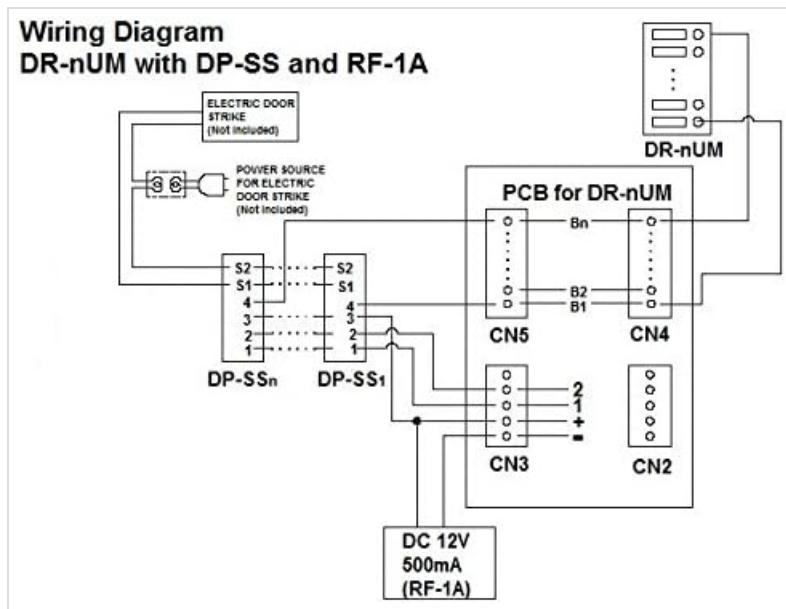


Figure 2: Detailed wiring diagram illustrating the connections for the COMMAX DR-nUM (similar to DR-6UM) with DP-SS indoor units and an RF-1A power source. It shows connections for the electric door strike (not included), power source, and various terminals on the PCB.

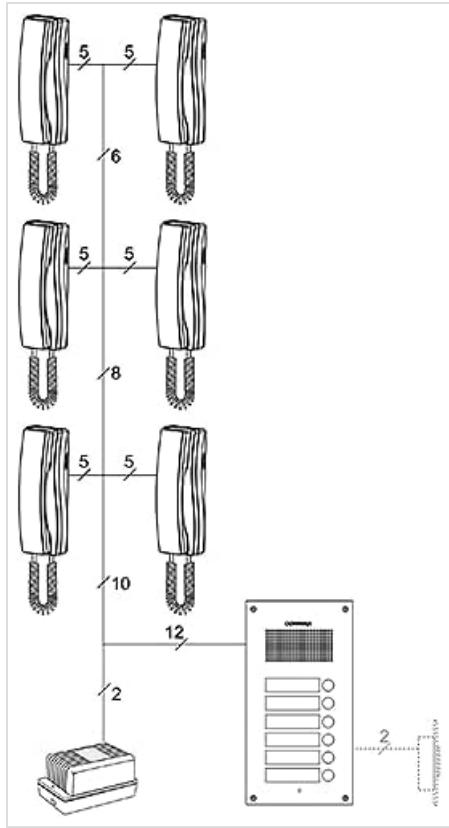


Figure 3: System connection diagram showing the outdoor DR-6UM unit connected to six indoor intercom units (DP-SS, DP-KSS, DP-4KS, or DP-MR) in a multi-apartment setup. It illustrates the main bus line and individual connections to each indoor station.

3. OPERATING INSTRUCTIONS

The COMMAX DR-6UM is designed for straightforward operation, facilitating clear audio communication between visitors and residents.

3.1 Making a Call

- A visitor presses the call button corresponding to the desired residential unit on the DR-6UM panel.
- The indoor intercom unit (e.g., DP-SS) in the resident's apartment will ring.

3.2 Answering a Call

- When the indoor unit rings, the resident picks up the handset or presses the talk button (depending on the indoor unit model).
- Two-way audio communication is established between the DR-6UM outdoor unit and the indoor unit.

3.3 Door Release (if applicable)

- If an electric door strike is connected to the system (as shown in Figure 2) and the indoor unit supports door release, the resident can press the door release button on their indoor unit to unlock the entrance.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your COMMAX DR-6UM intercom unit.

- **Cleaning:** Gently wipe the aluminum panel with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish and electronic components.
- **Inspection:** Periodically check the unit for any signs of physical damage, loose screws, or exposed wiring. Address any issues promptly.

- **Environmental Protection:** While the unit is designed for outdoor use, ensure it is not exposed to excessive moisture or direct water spray. If installed in an area prone to heavy rain, consider adding a protective cover.

5. TROUBLESHOOTING

If you encounter issues with your COMMAX DR-6UM intercom system, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No audio from outdoor unit	Loose wiring connection; Faulty speaker/microphone; Power issue.	Check all wiring connections (refer to Figure 2). Ensure power supply is active. If problem persists, contact support.
Indoor unit does not ring when button is pressed	Incorrect wiring; Faulty button; Indoor unit power issue.	Verify wiring for the specific indoor unit. Check power to the indoor unit. Test other buttons to isolate the issue.
Door release not working	Incorrect wiring to door strike; Faulty door strike; Indoor unit issue.	Ensure the electric door strike is correctly wired and receiving power. Check the door release button on the indoor unit.
Intermittent communication	Loose connections; Interference.	Inspect all wiring for secure connections. Ensure no strong electromagnetic interference sources are nearby.

If these steps do not resolve the issue, please contact COMMAX customer support or a qualified technician.

6. SPECIFICATIONS

Feature	Detail
Model Name	DR-6UM
Manufacturer	COMMAX
Material	Metal (Aluminum Panel)
Color	Silver
Mounting Type	Screw (Flush Mount)
Connectivity Technology	Wired
Power Source	Corded Electric (DC 12V, 500mA)
Number of Channels	6
Included Components	Screws
Video Capture Resolution	No
Light Source Type	Infrared (for night vision, if applicable)
Communication Protocol	Intercom System

7. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service, please refer to the official COMMAX website or contact your local authorized dealer. Keep your purchase receipt as proof of purchase for any warranty claims.

COMMAX Official Website: www.commax.com

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