

## Airshi Airshixyrd98mzeg-11

# Airshi LCD Analog PTZ Camera Keyboard User Manual

Model: Airshixyrd98mzeg-11

## 1. INTRODUCTION

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The Airshi LCD Analog PTZ Camera Keyboard is a sophisticated 4D joystick controller designed to provide precise and intuitive control over your PTZ (Pan-Tilt-Zoom) cameras. This device is engineered for high compatibility and ease of use, making it an ideal solution for various surveillance and security applications. This manual will guide you through the installation, operation, and maintenance of your new PTZ camera keyboard.



Figure 1.1: Top view of the Airshi LCD Analog PTZ Camera Keyboard.

## 2. PRODUCT FEATURES AND COMPATIBILITY

The Airshi PTZ Camera Keyboard offers a range of features designed for efficient camera control:

- **Compatibility:** The 4D joystick PTZ camera controller is primarily designed for Linux-based systems and is compatible with most dome security and surveillance IP cameras.
- **Control Modes:** The keyboard allows for the setup of preset patrol modes and AB scanning when paired with compatible cameras.
- **Standard Protocol Support:** Supports standard network surveillance protocols, ensuring good compatibility and scalability with existing systems.
- **4D Joystick:** Provides comprehensive control including pan (left/right), tilt (up/down), and zoom (twisting the joystick). An integrated 'OK' button on the rocker enhances functionality.
- **LCD Display:** Features an LCD for clear display of operational information.



Figure 2.1: Illustration of the 4D joystick's control capabilities.

### 3. SETUP AND INSTALLATION

Setting up your Airshi PTZ Camera Keyboard is straightforward. Follow these steps for proper installation:

1. **Unpack:** Carefully remove all components from the packaging. Verify that all items listed in the 'Package Contents' section are present.
2. **Power Connection:** Connect the provided DC12V, 500mA power adapter to the 'DC12V' input port on the rear of the keyboard. Plug the adapter into a suitable power outlet.
3. **Communication Connection:** Connect the RS485 bus communication cable from your PTZ camera system to the communication interface port on the keyboard. Ensure the baud rate of the keyboard matches that of your DVR/NVR system (default 9600bps).
4. **Initial Power On:** Once connections are secure, power on the device. The LCD display should illuminate.



Figure 3.1: PTZ Camera Keyboard with its power adapter.

### Interface description

The keyboard control DVR communication baud rate is 9600bps, not optional, so the DVR internal communication baud rate must be 9600bps, otherwise the DVR hard disk recorder cannot be operated.

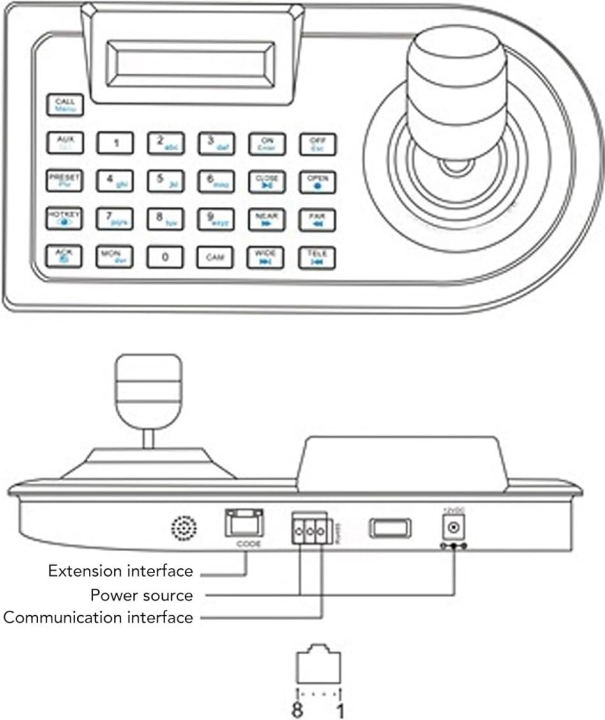


Figure 3.2: Interface description of the keyboard's rear ports.

## 4. OPERATING INSTRUCTIONS

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The PTZ camera controller is designed for easy operation. Here are the basic steps to control your net dome camera:

### 4.1. Basic Camera Control (4D Joystick)

- **Pan/Tilt:** Move the joystick left, right, up, or down to control the camera's horizontal (pan) and vertical (tilt) movement.
- **Zoom:** Twist the joystick clockwise to zoom in (TELE) and counter-clockwise to zoom out (WIDE).
- **OK Button:** Press the top of the joystick (rocker) to activate the 'OK' function, often used for selection or confirmation.

### 4.2. Keyboard Functions

The numeric keypad and function buttons provide additional control:

- **Numeric Keys (0-9):** Used for entering camera IDs, preset numbers, or other numerical inputs.
- **CALL/Menu:** Access the camera's menu or initiate a call function.
- **AUX:** Auxiliary function button.
- **PRESET/Ptz:** Set or recall camera presets.
- **HOTKEY:** Programmable hotkey function.
- **ACK/dvr:** Acknowledge or DVR control function.
- **ON/Enter:** Power on or confirm selection.
- **OFF/Exit:** Power off or exit menu.
- **CLOSE/<<:** Close function or rewind.
- **OPEN/>>:** Open function or fast forward.
- **NEAR/<<:** Adjust focus near.
- **FAR/>>:** Adjust focus far.
- **WIDE/<<:** Zoom out.
- **TELE/>>:** Zoom in.
- **MON/dvr:** Monitor or DVR control.
- **CAM:** Camera selection.



Figure 4.1: Close-up of the keyboard's function buttons.



Figure 4.2: The PTZ camera keyboard in a typical surveillance environment.

## 5. MAINTENANCE

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To ensure the longevity and optimal performance of your Airshi PTZ Camera Keyboard, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the surface of the keyboard. For stubborn dirt, a slightly damp cloth with mild detergent can be used, ensuring no liquid enters the device. Avoid abrasive cleaners or solvents.
- **Storage:** Store the keyboard in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity when not in use for extended periods.
- **Cable Management:** Ensure all cables are neatly organized and not under strain to prevent damage to the ports or cables themselves.
- **Avoid Impact:** Protect the device from drops or strong impacts, especially the joystick, as this can cause internal damage.

## 6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Keyboard does not power on.	No power supply or faulty adapter.	Check power connection. Ensure adapter is plugged in and functional. Verify power outlet.
Camera does not respond to commands.	Incorrect communication settings (baud rate, protocol) or faulty cable.	Verify communication protocol (PELCO D, PELCO P, SAMSUNG, AD, etc.) and baud rate (1200, 2400, 4800, 9600, 19200) match the camera/DVR. Check RS485 cable connection.
Joystick movement is erratic or unresponsive.	Physical obstruction or internal damage.	Ensure no debris is obstructing the joystick. If the issue persists, contact customer support.
LCD display is blank or unreadable.	Power issue or display malfunction.	Check power supply. If power is present and display remains blank, contact customer support.

## 7. SPECIFICATIONS

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Detailed technical specifications for the Airshi LCD Analog PTZ Camera Keyboard:

- **Model:** Airshixyrd98mzeg-11
- **Material:** ABS
- **Input Voltage:** DC12V, 500mA
- **Power Consumption:** Less than 5W

- **Communication Interface:** RS485 bus
- **Communication Distance:** 1500 meters (0.5mm twisted pair)
- **Communication Protocols:** For PELCO D, for PELCO P, for SAMSUNG, for AD, etc.
- **Baud Rates:** 1200, 2400, 4800, 9600, 19200 bps
- **Communication Parameters:** 8 data bits, 1 stop bit, no parity
- **Joystick:** 4D (control machine up and down, left and right, twisting for zoom, rocker for OK button)
- **Display:** LCD
- **Package Dimensions:** 11.02 x 5.51 x 4.72 inches

## 8. PACKAGE CONTENTS

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The following items are included in your product package:

- 1 x Joystick Analog PTZ Camera Keyboard
- 1 x Power Plug (US Plug 100-240V)
- 1 x User Manual

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims.