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Prisual TEM-JOY1

Prisual PTZ Camera Controller TEM-JOY1 Instruction Manual

Model: TEM-JOY1 | Brand: Prisual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Prisual PTZ Camera Controller, model TEM-JOY1. This controller is designed for precise management of PTZ (Pan-Tilt-Zoom) cameras in various professional environments, including live streaming, education, and conference settings.

The TEM-JOY1 offers versatile control capabilities, supporting multiple communication protocols and connectivity options to integrate seamlessly into your existing camera systems.

2. KEY FEATURES

- **Multi-Camera Control:** Manage up to 256 PTZ cameras with efficiency. Includes a 6-camera quick select feature for rapid switching.
- **Precise Control:** Intuitive controls for Pan, Tilt, Zoom, Focus, Iris, Backlight, and adjustable PTZ speeds. Features 255 presets and 10 quick-access options for camera positions.
- **Advanced IP Technology:** Supports comprehensive protocols including VISCA (fully compatible and extensible), Pelco-D/P, RS422, and RS232. Facilitates easy discovery, connection, and control of PTZ cameras via IP.
- **Simplified Setup with PoE:** Supports Ethernet IP connections, allowing control of IP streaming PTZ cameras with a single network cable. Power over Ethernet (PoE) support enables powering the controller and cameras via a single Cat5/6 cable, reducing cable clutter.
- **User-Friendly Operation:** Offers both network and analog control modes with independent IP addresses in network mode. A built-in web server provides a clear configuration interface for easy setup.
- **Auto-Tracking Compatibility:** Compatible with Prisual Auto Tracking cameras and most major brands (requires firmware v5.4.3 or later).
- **Quick IP Camera Setup:** Features auto-search and manual add options for IP cameras, with easy camera ID assignment.

3. INITIAL SETUP

3.1. Physical Connections


Before powering on the device, ensure all necessary connections are made securely.

- **Power:** Connect the provided power adapter to the DC 12V input port. Alternatively, if using PoE, connect an Ethernet cable from a PoE-enabled switch to the RJ45 port.
- **Network (PoE/IP Control):** For IP control and PoE power, connect an Ethernet cable from your network switch to the RJ45 port on the controller. This single cable can provide both power and data for IP-based PTZ camera control.
- **Serial (RS232/RS485):** For analog control, connect your PTZ camera(s) using RS232 (8-pin Mini DIN) or RS485/RS422 (2-pin Phoenix Port) cables as required by your camera model.
- **USB:** The USB port is available for firmware upgrades.

Prisual Upgrade Prisual Controller for a Better Experience

Broadcast & Pro AV Tip: Old firmware requires upgrade firmware v5.4.3 or later get more new features


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VS

1. Support auto search and manual add
2. Support auto tracking
3. 10 1-touch preset call and Press three buttons preset call
4. 6 1-touch camera call and Press three buttons camera call
5. Pro joystick/seesaw switch for zoom control
6. Support add camera to web pages

other



X

1. Support auto search or manual add
2. Not support auto tracking
3. Only three buttons preset call
4. Only three buttons camera call
5. No seesaw switch
6. Not support add camera on web pages

Figure 3.1: Rear view of the Prisual TEM-JOY1 controller showing connectivity ports including RS232, RS485/RS422, Ethernet (PoE), USB, and power input.

3.2. Adding PTZ Cameras

The controller supports both auto-search and manual addition of IP cameras.

1. Press the **SETUP** button on the controller.
2. Navigate to the "Add Network Device" option.
3. Choose between "Auto Search" to automatically detect cameras on your network or "Manual Add" to enter camera details (IP address, protocol, port) manually.
4. Confirm the camera addition by pressing **ENTER**.

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Multi mode control of your PTZ camera

Tip: Long press the joystick to switch modes or switch modes on the controller webpage

Network Mode

Ethernet/RJ45: Supports SonyVisca, Visca UDP, Visca TCP, NDI, Onvif, and is fully compatible with Visca.
Supports Power over Ethernet.

Analog Mode

RS232: 8pin Min DIN, Max Distance: 100 feet, Supports Visca / Pelco-D / Pelco-P
RS485/RS422: 2pin Phoenix Port, Max Distance: 3937 feet, Supports Visca / Pelco-D / Pelco-P



RS232 RS485/RS422 Ethernet RJ45 (PoE) USB Flash Upgrade Power supply

Figure 3.2: Workflow for adding PTZ cameras to the controller, detailing auto-search and manual configuration.



Figure 3.3: Example setup demonstrating how the Prisual TEM-JOY1 controller connects to multiple PTZ cameras and a live production system via a PoE switch.

4. OPERATING THE CONTROLLER

The TEM-JOY1 controller features a 4D joystick and dedicated buttons for comprehensive camera control.



Figure 4.1: Overview of the Prisual TEM-JOY1 PTZ Camera Controller.

4.1. Joystick Control

- **Pan/Tilt:** Move the joystick left, right, up, or down to control the camera's pan and tilt movements.
- **Zoom:** Rotate the joystick clockwise or counter-clockwise for zoom in/out. Alternatively, use the dedicated zoom rocker switch (W/T) on the left side of the controller.
- **4D Functionality:** The joystick can rotate 360 degrees, offering precise and variable-speed control over camera movements. Short press the joystick to confirm selections, long press to switch between network and analog modes.

NEW JOYSTICK 360° ROTATES



Figure 4.2: The 4D joystick allows for 360-degree rotation for precise camera control.

4.2. Camera Selection

- Use the **CAM 1** to **CAM 6** buttons for quick selection of up to six cameras.
- To control cameras beyond the quick select buttons (up to 256), use the numeric keypad to enter the camera ID and press **ENTER**.

4.3. Preset Management

The controller supports 255 presets and 10 quick-access presets per camera.

- **Setting a Preset:** Position the camera to the desired view. Long press the **TRACK ON / SET PRESET** button, then enter a preset number (0-9) using the numeric keypad, and press **ENTER**.
- **Calling a Preset:** Short press the **TRACK OFF / CALL PRESET** button, then enter the preset number (0-9) using the numeric keypad, and press **ENTER**.

Tip: Short press Turn on/off tracking, Long press set/call up to 255 preset



Figure 4.3: Instructions for setting and calling camera presets.

4.4. Image Adjustment Controls

Dedicated knobs and buttons allow for fine-tuning of image parameters:

- **PT Speed / Zoom Speed:** Use the rotary knobs to adjust the pan/tilt and zoom speeds for smoother camera movements.
- **White Balance:** Buttons for **WHITE BALANCE CYCLE**, **AUTO WHITE BALANCE**.
- **Exposure:** Buttons for **AUTO EXPOSURE**, **BRIGHT UP**, **BRIGHT DOWN**, **EXPOSURE COMP UP**, **EXPOSURE COMP DOWN**, **EXPOSURE COMP ON/OFF**.
- **Focus:** Buttons for **NEAR**, **FAR**, **AUTO FOCUS**.
- **Backlight:** Buttons for **BACKLIGHT ON**, **BACKLIGHT OFF**.
- **Menu:** Buttons for **MENU**, **MENU BACK**, **MENU ENTER** to navigate camera OSD menus.

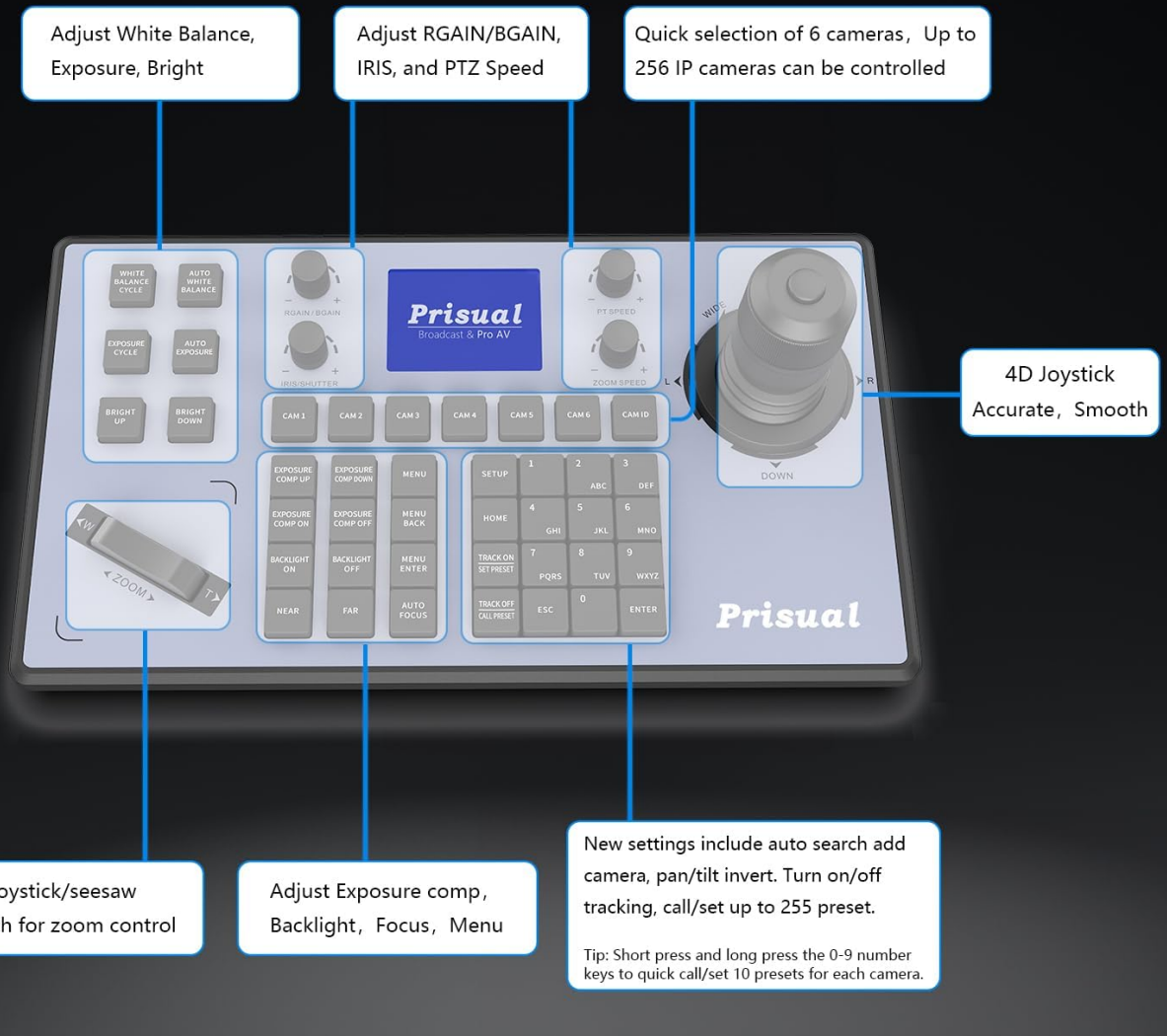


Figure 4.4: Labeled diagram of the controller's functions and buttons.



Figure 4.5: PTZ speed adjustment knobs for fine-tuning camera movement speed.

5. CONNECTIVITY AND PROTOCOLS

The TEM-JOY1 supports multiple control modes and protocols for broad compatibility.

5.1. Network Mode

- **Interface:** Ethernet/RJ45 port.
- **Protocols:** Supports SonyVisca, Visca UDP, Visca TCP, NDI, and Onvif.
- **Power:** Supports Power over Ethernet (PoE) for simplified cabling.

5.2. Analog Mode

- **RS232:** 8-pin Mini DIN port. Maximum distance: 100 feet.
- **RS485/RS422:** 2-pin Phoenix Port. Maximum distance: 3937 feet.
- **Protocols:** Supports Visca, Pelco-D, and Pelco-P.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the controller's surface. Avoid abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check the Prisual website for firmware updates. Updates can introduce new features (e.g., auto-tracking compatibility requires firmware v5.4.3 or later) and improve performance. Firmware updates are typically performed via the USB port.
- **Storage:** Store the controller in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

7. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected or that the Ethernet cable is connected to a functional PoE switch.
- **Camera Not Responding:**
 - Verify physical connections (Ethernet, RS232, RS485) are secure.
 - Check camera IP address, protocol, and port settings in the controller's setup menu.
 - Ensure the camera is powered on and functioning correctly.
 - Confirm the camera's control protocol matches the setting on the controller.
- **Laggy Control:** For IP control, ensure your network has sufficient bandwidth and minimal latency. Check for network congestion.
- **Features Not Working:** Ensure your controller's firmware is up to date. Some features, like auto-tracking, require specific firmware versions.

If issues persist, refer to the Prisual support resources or contact customer service.

8. SPECIFICATIONS

Feature	Detail
Model Number	TEM-JOY1
Brand	Prisual
Connectivity Technology	Ethernet, RS232, RS485/RS422
Compatible Devices	PTZ Cameras
Control Type	4D Joystick Controller
Supported Protocols	SonyVisca, Visca UDP, Visca TCP, NDI, Onvif, Pelco-D, Pelco-P
Max Cameras Controlled	256
Presets	255 (with 10 quick-access)
Power Supply	DC 12V or Power over Ethernet (PoE 802.3AF 48V)
Item Weight	3.3 pounds
Package Dimensions	14.02 x 9.02 x 5.47 inches

9. WARRANTY AND SUPPORT

Prisual is dedicated to providing high-quality products and offers lifetime technical support for the TEM-JOY1 PTZ Camera Controller. For assistance, please visit the official Prisual website or contact their customer support team. Free online training may also be available.

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