

SMTAV V60XL

SMTAV AI Auto Tracking PTZ Camera User Manual

Model: V60XL



INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your SMTAV AI Auto Tracking PTZ Camera (Model: V60XL). Please read this manual thoroughly before using the product to ensure proper and safe operation.

The SMTAV AI Auto Tracking PTZ Camera is designed for professional video production, offering advanced features such as 20X optical zoom, 16X digital zoom, high-speed pan-tilt-zoom capabilities, and multiple output options including 3G-SDI, HDMI, USB3.0, and LAN with PoE support. Its AI tracking functionality enables precise and stable automatic focusing and subject tracking.

PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact SMTAV customer support.



SMTAV AI Auto Tracking PTZ Camera: The main camera unit with pan, tilt, and zoom capabilities, featuring AI tracking.



Remote Control: Used for controlling camera functions such as pan, tilt, zoom, presets, and menu navigation.



USB Cable



Mount Brackets



Remote Control



PTZ Camera



RS232 Cable



AC Power Adapter
Power Cable



User Manual

USB Cable: For connecting the camera to a computer for USB 3.0 video output.



SMTAV

Product Name: HD Video Camera

Model: HD-35

Serial No.: HD-3523456789

Package Quantity(unit): 1



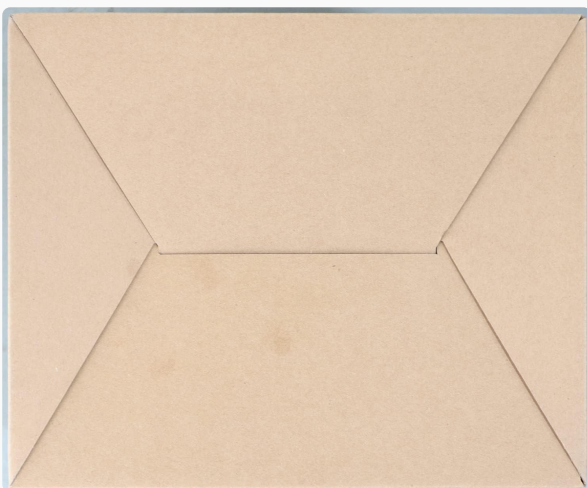
Made in China



Wall Mount Bracket: For secure wall installation of the camera.



Ceiling Mount Bracket: For secure ceiling installation of the camera.



RS232 Cable: For serial communication and control of the camera.



Power Adapter and Power Cable: Provides necessary power to the camera (DC 12V).



User Manual: This document, providing detailed instructions.

SAFETY PRECAUTIONS

- Ensure the power supply voltage matches the camera's requirements (DC 12V).
- Do not expose the camera to rain or moisture to prevent electric shock or fire.
- Avoid placing the camera in direct sunlight, near heat sources, or in environments with extreme temperatures or humidity.
- Do not disassemble the camera. Refer all servicing to qualified personnel.
- Clean the camera with a soft, dry cloth. Do not use strong detergents or abrasive cleaners.

SETUP

1. Physical Installation

The SMTAV PTZ camera supports various installation methods including desktop, wall mount, and ceiling mount.

Desktop Installation

Place the camera on a stable, flat surface. Ensure adequate ventilation around the camera.

Wall Mount Installation

1. Attach the wall mount bracket to a sturdy wall using appropriate screws and anchors.
2. Secure the camera to the wall mount bracket.
3. Ensure the camera is level and securely fastened.

Ceiling Mount Installation

1. Attach the ceiling mount bracket to a sturdy ceiling structure.
2. Secure the camera to the ceiling mount bracket.
3. Ensure the camera is level and securely fastened.



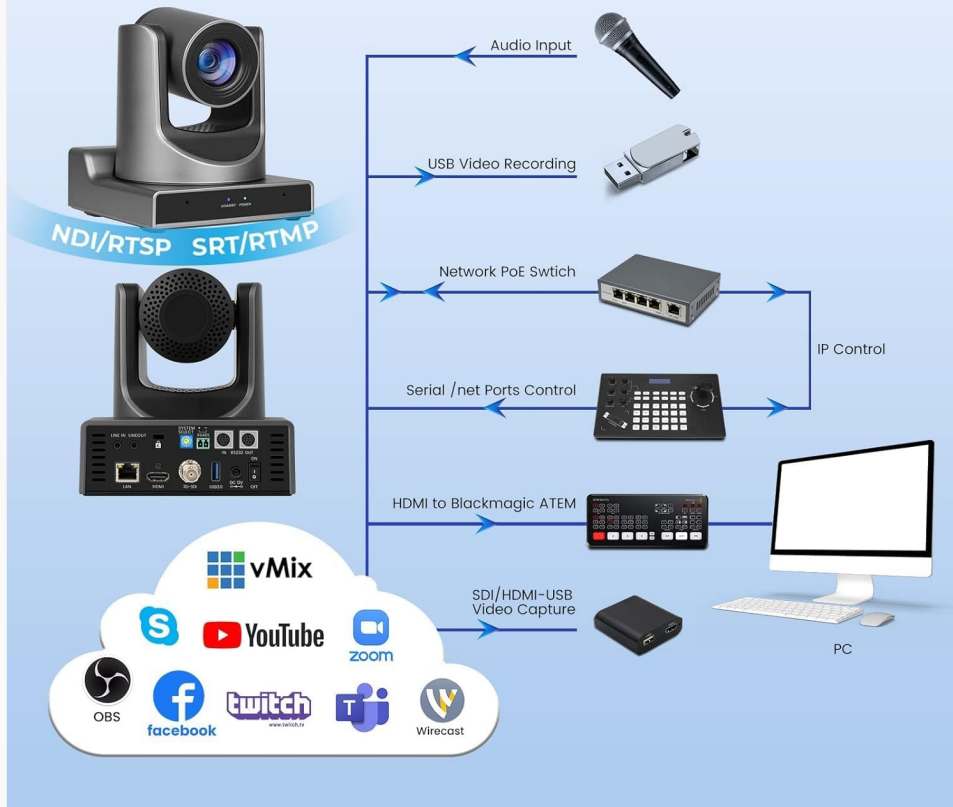
Rear Panel Connections: This image displays the rear panel of the SMTAV PTZ camera, highlighting the various input and output ports including LAN, HDMI, 3G-SDI, USB3.0, audio in/out, RS485, RS232, and DC 12V power input.

2. Connecting the Camera

- **Power Connection:** Connect the provided power adapter to the DC 12V input port on the camera and plug it into a power outlet.
- **Video Output:**
 - **HDMI:** Connect an HDMI cable from the camera's HDMI output to an HDMI input on a display or video switcher.
 - **3G-SDI:** Connect an SDI cable from the camera's 3G-SDI output to an SDI input on a professional video device.
 - **USB 3.0:** Connect the USB 3.0 cable from the camera's USB 3.0 port to a computer for video capture or streaming.
 - **LAN (Network):** Connect an Ethernet cable from the camera's LAN port to a network switch or router. This port supports PoE (Power over Ethernet) if your network equipment provides it, eliminating the need for a separate power adapter.
- **Audio Connection:** Connect external audio sources (e.g., microphone) to the "LINE IN" 3.5mm audio interface and audio output devices (e.g., speakers) to the "LINE OUT" 3.5mm audio interface.
- **Control Connection (Optional):**
 - **RS232/RS485:** For external control systems using VISCA, Pelco-D, or Pelco-P protocols.
 - **Network (IP Control):** The camera can be controlled over the network using its IP address and supported protocols (e.g., Onvif).

PTZ Camera Live Streaming Solutions

SDI is mostly for professional video production, it features long cable distances up to 492feet/100m.



Live Streaming Solutions Diagram: This diagram illustrates various connectivity options for live streaming, including audio input, USB video recording, network PoE switch, serial/IP control, and integration with HDMI to Blackmagic ATEM, connecting to platforms like vMix, YouTube, Zoom, OBS, Facebook, Twitch, and Wirecast.

OPERATING INSTRUCTIONS

1. Powering On/Off

Locate the power switch on the rear panel of the camera. Flip the switch to the "ON" position to power on the camera. The indicator light on the front will illuminate. Flip to "OFF" to power down.

2. Remote Control Functions

The included remote control allows for comprehensive control of the camera's functions.



Remote Control Layout: This image shows the layout of the remote control, including buttons for camera selection, numeric presets, pan/tilt/zoom controls, menu navigation, focus, and backlight settings.

- **Camera Select:** If you have multiple SMTAV cameras, use these buttons to select which camera the remote controls.
- **Pan/Tilt/Zoom (PTZ) Control:** Use the directional arrows to pan (left/right) and tilt (up/down) the camera. Use the "ZOOM +" and "ZOOM -" buttons to adjust the optical and digital zoom.
- **Preset Positions:**
 - **Setting Presets:** Position the camera to the desired view, then press "PRESET" followed by a number (0-9) to save the position.
 - **Recalling Presets:** Press the desired number (0-9) to recall a saved preset position.
- **Focus:** Use "AUTO FOCUS" for automatic focus or "MANUAL FOCUS" buttons to adjust focus manually.
- **Menu:** Access the camera's on-screen display (OSD) menu for advanced settings.
- **Backlight:** Adjust backlight compensation.



Pan and Tilt Range: This image illustrates the camera's pan range of $\pm 170^\circ$ and tilt range of -30° to 90° , demonstrating its wide coverage capabilities.

3. AI Auto Tracking

The camera features intelligent AI auto-tracking based on target's clothes, body shape, hair style, and face identification. This allows the camera to automatically follow a designated subject.

- **Activation:** Refer to the camera's OSD menu (accessed via the remote control) for specific settings to enable and configure AI tracking.
- **Tracking Modes:** The camera may offer different tracking modes (e.g., full body, upper body). Select the mode best suited for your application.
- **Performance:** Ensure adequate lighting and clear line of sight for optimal tracking performance. Avoid rapid, erratic movements by the subject if possible.

4. Network Configuration (LAN/PoE)

For IP control and network streaming, the camera needs to be configured on your network.

1. Connect the camera to your network via the LAN port.
2. By default, the camera may obtain an IP address via DHCP. You can find its IP address using a network scanner tool or through the camera's OSD menu.
3. For static IP configuration or advanced network settings, access the camera's web interface by entering its IP address into a web browser. (Consult the OSD menu or a separate network configuration guide for default login credentials if required).
4. Ensure your network firewall allows necessary ports for video streaming (RTSP, RTMP) and control (Onvif).

MAINTENANCE

- **Cleaning:** Regularly clean the camera lens with a soft, lint-free cloth specifically designed for optical surfaces. For the camera body, use a soft, dry cloth. Do not use liquid cleaners or aerosols directly on the camera.
- **Firmware Updates:** Check the SMTAV official website periodically for firmware updates. Keeping the firmware updated ensures optimal performance, new features, and bug fixes. Follow the instructions provided with the firmware update package carefully.
- **Environmental Conditions:** Operate and store the camera within the recommended temperature and humidity ranges to prevent damage.
- **Cable Management:** Ensure all cables are securely connected and not under strain. Avoid bending cables sharply.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable not connected; Power outlet faulty; Power switch off.	Ensure power cable is securely connected. Test power outlet. Turn on the power switch.
No video output	Incorrect cable connection; Display input not selected; Resolution mismatch.	Check HDMI/SDI/USB cable connections. Select correct input on display. Adjust camera output resolution via OSD menu.
Remote control not working	Batteries low/dead; Obstruction between remote and camera; Incorrect camera selected.	Replace batteries. Ensure clear line of sight. Select the correct camera using the "Camera Select" buttons.
AI tracking is erratic or not working	Poor lighting; Subject too far/close; Rapid subject movement; Tracking settings incorrect.	Improve lighting conditions. Ensure subject is within optimal range. Reduce rapid movements. Check AI tracking settings in OSD menu.
Network connection issues	Incorrect IP address; Network cable faulty; Firewall blocking.	Verify IP address and network settings. Check Ethernet cable. Configure firewall to allow camera traffic.

If the problem persists after attempting these solutions, please contact SMTAV customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Model Name	1080 AI Smart PTZ Camera (V60XL)
Video Output Resolutions	1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50
Sensor	1/2.7 inch CMOS, 2.07 Megapixel effective
Optical Zoom	20x
Digital Zoom	16x
Horizontal Angle of View	60.7° ~ 3.36°
Vertical Angle of View	34.1° ~ 1.89°
Pan Range	±170°
Tilt Range	-30° ~ 90°
Video Compression	H.265/H.264/MJPEG
Audio Compression	AAC
Output Interfaces	1x 3G-SDI, 1x HDMI, 1x USB3.0, 1x RJ45 (LAN/PoE)
Audio Interfaces	1-ch 3.5mm Line In, 1-ch 3.5mm Line Out
Control Interfaces	1x RS485, Network (IP Control)
Supported Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, VISCA/Pelco-D/Pelco-P
Input Voltage	DC 12V
Power Consumption	60 watts
Dimensions (Package)	11.73 x 9.84 x 9.61 inches
Weight (Item)	8.18 pounds

WARRANTY AND SUPPORT

SMTAV products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, please refer to the warranty card included with your product or visit the official SMTAV website. For technical support, troubleshooting assistance, or inquiries about spare parts, please contact SMTAV customer service through the following channels:

- **Website:** Visit the official SMTAV website for FAQs, drivers, firmware updates, and contact information.



- **Email:** Refer to your product documentation for the support email address.
- **Phone:** Refer to your product documentation for the support phone number.

When contacting support, please have your product model number (V60XL) and purchase information ready.



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Related Documents - V60XL

<div><div>HD PTZ Camera</div><div></div><div>User Manual English (V3.0)</div></div>	<p>SMTAV HD PTZ Camera User Manual - AI Tracking Features</p> <p>Comprehensive user manual for the SMTAV HD PTZ Camera, detailing installation, features, AI tracking capabilities, remote control, and troubleshooting. Learn how to set up and operate your PTZ camera.</p>
<div><div>SMTAV</div><div>PTZ Video Camera</div><div>User Manual V3.0 Model Nos. BA30S/BA30N/BA30S-W/BA30N-W (English)</div></div>	<p>SMTAV BA30 Series PTZ Video Camera User Manual</p> <p>This comprehensive user manual for SMTAV BA30 series PTZ video cameras (models BA30S, BA30N, BA30S-W, BA30N-W) covers installation, features, operation, network setup, specifications, and troubleshooting for professional video conferencing and streaming applications.</p>
<div><div>CÂMARA MUNICIPAL DE PARACATU PROPOSTAS DO PROCESSO</div><div></div></div>	<p>Propostas do Processo Eletrônico - Pregão nº 006/2024 - Câmara Municipal de Paracatu</p> <p>Este documento detalha as propostas para o Pregão Eletrônico nº 006/2024 da Câmara Municipal de Paracatu (Processo Administrativo nº 2024.03.0138), listando itens para aquisição como equipamentos de informática, softwares, suprimentos e acessórios, com seus respectivos fornecedores e valores.</p>