manuals.plus /

› **SMTAV** /

› **SMTAV AI PTZ Camera with Auto Tracking – 20x Optical + 16x Digital Zoom, High-Speed PTZ, 3G-SDI + HDMI + USB 3.0 Output, Local Recording Support, PoE (G03684)**

SMTAV V60XL-BK

SMTAV AI PTZ Camera User Manual

Model: V60XL-BK

1. INTRODUCTION

Thank you for choosing the SMTAV AI PTZ Camera. This high-performance camera is designed for professional video production, live streaming, conferencing, and educational applications. It features advanced AI auto-tracking, versatile connectivity options including 3G-SDI, HDMI, USB 3.0, and LAN, and supports PoE for simplified installation. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your device.

2. SAFETY INFORMATION

Please read all safety instructions carefully before using the product. Failure to follow these instructions may result in fire, electric shock, or other injuries.

- Do not expose the camera to rain or moisture.
- Do not disassemble the camera. Refer all servicing to qualified personnel.
- Use only the power adapter supplied with the camera.
- Ensure proper ventilation around the camera to prevent overheating.
- Avoid placing the camera in direct sunlight or near heat sources.
- Clean the camera with a soft, dry cloth. Do not use liquid or aerosol cleaners.

3. PACKAGE CONTENTS

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

- 1 x SMTAV AI PTZ Camera

- 1 x Remote Control

- 1 x Power Adapter

- 1 x Power Cable

- 1 x Wall Mount Bracket

- 1 x Ceiling Mount Bracket

- 1 x RS232 Cable

- 1 x USB Cable

- 1 x User Manual

USB Cable

Mount Brackets
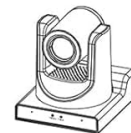
Remote Control

PTZ Camera

RS232 Cable

AC Power Adapter
Power Cable

User Manual

Image: Contents of the SMTAV AI PTZ Camera package.

4. PRODUCT OVERVIEW

The SMTAV AI PTZ Camera is equipped with advanced features for high-quality video capture and versatile integration.

Key Features:

- **AI Auto-Tracking:** Intelligently tracks subjects based on clothing, body shape, hair style, and facial identification for precise and stable focus.

- **High-Definition Video:** Supports 1080p at 60fps, delivering ultra-high resolution and lossless image quality.

- **Powerful Zoom:** Features 20x optical zoom and 16x digital zoom for capturing distant details.

- **Multiple Outputs:** Equipped with 3G-SDI, HDMI, USB 3.0, and LAN ports for diverse connectivity.

- **PoE Support:** Power over Ethernet simplifies installation by combining power and data over a single cable.

- **Local Recording:** Supports local recording capabilities.

- **Wide Compatibility:** Supports TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast protocols for seamless integration with various streaming and conferencing platforms.

5. SETUP

5.1 Physical Connections

Identify the various ports on the back of the camera for proper connection.

Image: Rear panel with connection ports.

- **LAN (RJ45):** Connect to your network for IP control, video streaming (PoE supported).

- **HDMI:** Connect to an HDMI display or capture device.

- **3G-SDI:** Connect to an SDI monitor or video switcher.

- **USB 3.0:** Connect to a computer for video capture and control.

- **LINE IN/OUT (3.5mm Audio):** Connect external audio sources or output audio.
- **RS485/RS232:** For serial control using VISCA/Pelco-D/Pelco-P protocols.
- **DC IN 12V:** Connect the included power adapter if not using PoE.

5.2 Mounting Options

The camera supports both wall and ceiling mounting. Use the appropriate bracket provided.

Image: Mounting brackets.

1. Choose a suitable location for mounting, ensuring stability and clear line of sight.
2. Securely attach the chosen bracket to the wall or ceiling using appropriate hardware (not included).
3. Attach the camera to the bracket, ensuring it is firmly locked in place.

5.3 Powering On

Connect the power adapter to the DC IN 12V port and plug it into a power outlet. Alternatively, if using PoE, connect the LAN cable from a PoE-enabled switch to the LAN port. The camera will power on automatically.

6. Operating

6.1 Remote Control Operation

The included remote control allows for easy adjustment of camera functions.

Image: Remote control with pan/tilt/zoom functionality.

- **Pan/Tilt:** Use the directional arrows to move the camera horizontally (Pan: ±170°) and vertically (Tilt: -30° to 90°).

- **Zoom:** Use the 'ZOOM +' and 'ZOOM -' buttons to adjust the optical and digital zoom.

- **Focus:** Use 'FOCUS AUTO' for automatic focus or 'FOCUS FAR' / 'FOCUS NEAR' for manual adjustment.

- **Presets:** Save and recall camera positions using the numeric buttons and 'PRESET' button.

- **AI Tracking:** Activate AI auto-tracking for automatic subject following. Refer to the camera's on-screen display or web interface for specific AI tracking settings.

6.2 Video Output and Streaming

The camera supports simultaneous output through multiple interfaces and is compatible with various live streaming solutions.
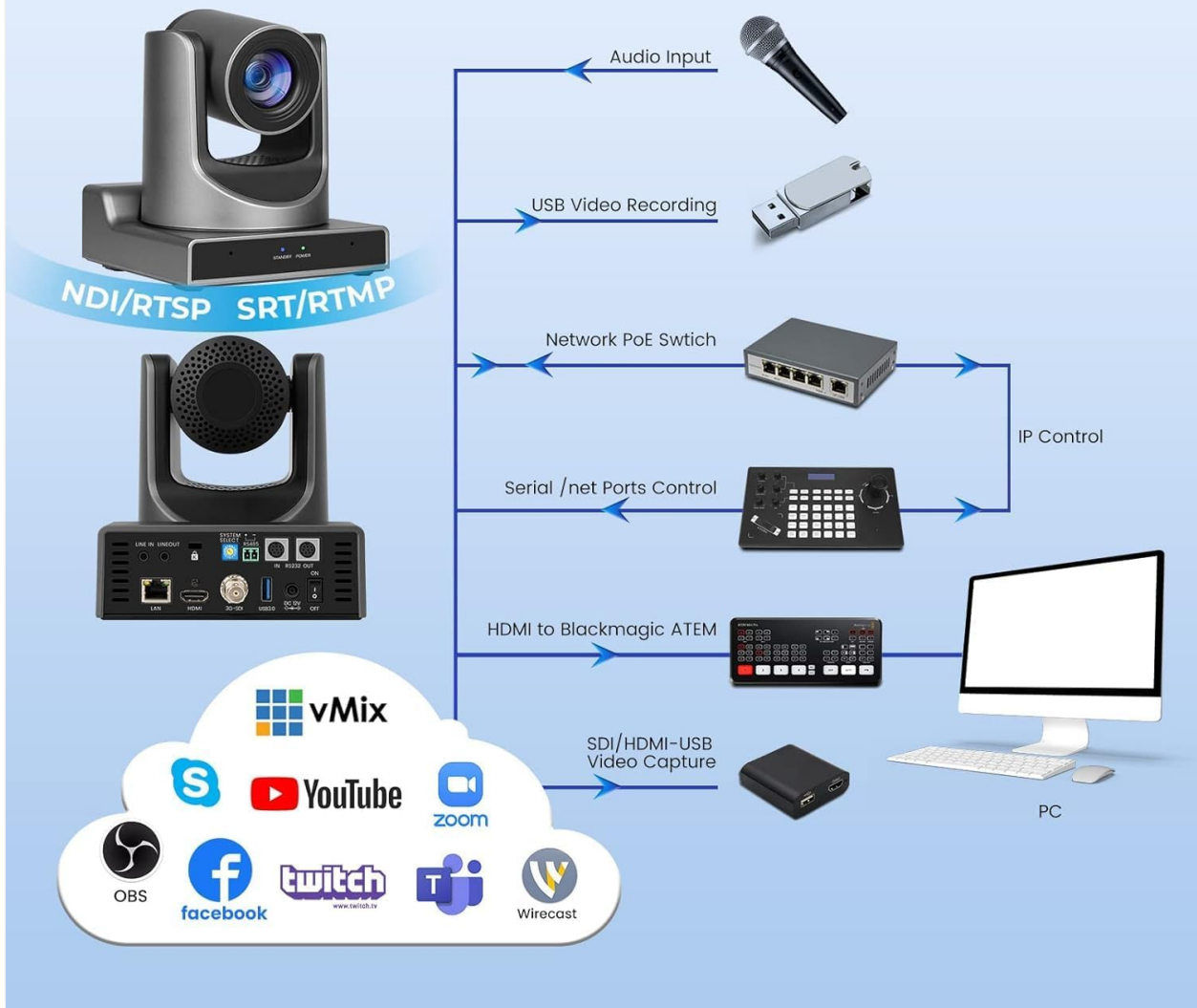
Image: PTZ Camera Live Streaming Solutions.

- **HDMI/3G-SDI:** Connect directly to professional monitors, switchers, or capture cards for high-quality video.

- **USB 3.0:** Connect to a computer for use as a webcam or for direct video capture with software like OBS, vMix, or Zoom.

- **LAN (IP Streaming):** Configure network settings via the camera's web interface to stream video using RTSP, RTMP, NDI (if supported by firmware), or SRT protocols. This allows integration with platforms like YouTube, Twitch, Facebook, and more.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your SMTAV AI PTZ Camera.

- **Cleaning:** Use a soft, dry cloth to clean the camera body. For the lens, use a specialized lens cleaning cloth and solution. Do not use abrasive cleaners or solvents.

- **Firmware Updates:** Periodically check the SMTAV official website for firmware updates to ensure your camera has the latest features and bug fixes.
- **Storage:** When not in use for extended periods, store the camera in a cool, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common problems and solutions.

- **No Power:** Ensure the power adapter is securely connected and the outlet is functional. If using PoE, verify the network switch provides power.
- **No Video Output:** Check all video cable connections (HDMI, SDI, USB, LAN). Ensure the correct input source is selected on your display or capture device. Verify camera settings via the web interface.
- **Remote Control Not Working:** Check the batteries in the remote control. Ensure there are no obstructions between the remote and the camera's IR receiver.
- **AI Tracking Issues:** Ensure the subject is within the camera's optimal tracking range and lighting conditions are adequate. Reset AI tracking settings if necessary.
- **Network Connectivity Problems:** Verify the LAN cable connection. Check IP address settings (DHCP or static) and ensure the camera is on the same network segment as your control device.

If the problem persists, please contact SMTAV customer support for further assistance.

9. SPECIFICATIONS

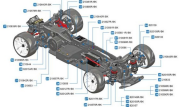Detailed technical specifications for the SMTAV AI PTZ Camera (Model: V60XL-BK).

Feature	Specification
Model Number	V60XL-BK
Sensor	1/2.7" CMOS, 2.07M Effective Pixels
Video Resolution	1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50
Optical Zoom	20x (f4.42mm ~ 88.5mm, F1.8 ~ F2.8)
Digital Zoom	16x
Horizontal Angle of View	60.7° ~ 3.36°
Vertical Angle of View	34.1° ~ 1.89°
Minimum Illumination	0.5 Lux (F1.8, AGC ON)

Feature	Specification
Shutter Speed	1/30s ~ 1/10000s
Video Compression	H.265/H.264/MJPEG
Audio Compression	AAC
Video Outputs	1x 3G-SDI, 1x HDMI, 1x USB 3.0, 1x RJ45 (LAN)
Audio Interface	1-ch 3.5mm Line In, 1-ch 3.5mm Line Out
Control Interface	1x RS485 (VISCA/Pelco-D/Pelco-P)
Network Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.
Power Input	DC 12V (JEITA connector), PoE (Power over Ethernet)
Dimensions (L x W x H)	24 x 30 x 24 cm
Weight	3.8 kg
Color	Black

10. WARRANTY AND SUPPORT

SMTAV products come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official SMTAV website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact SMTAV customer service through their official website or the contact information provided with your purchase. When contacting support, please have your product model number (V60XL-BK) and purchase details ready.

Related Documents - V60XL-BK

HD PTZ Camera **User Manual** **English (V3.0)**	[SMTAV HD PTZ Camera User Manual - AI Tracking Features](#) 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.
SMTAV **PTZ Video Camera** **User Manual** V2.0 Model No: BA30S	BA30N	BA30S-W	BA30N-W (English)	[SMTAV BA30 Series PTZ Video Camera User Manual](#) 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.
	[MST RMX EX S PRO RC Drift Car Upgrade Guide](#) Official upgrade guide for the MST RMX EX S PRO 1/10 scale RC RWD high-performance drift car, detailing recommended parts and comparisons for enhanced performance.
	[Minolta MN35Z Super Zoom Digital Camera User Manual](#) Discover the capabilities of your Minolta MN35Z Super Zoom digital camera with this comprehensive user manual. This guide details features like its 20MP sensor, 35x optical zoom, 1080p HD video, and 3-inch LCD, alongside instructions for setup, operation, shooting modes, and file management.