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## Vanxse VS-BX5100

# Vanxse VS-BX5100 CCTV Security Camera User Manual

Model: VS-BX5100

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vanxse VS-BX5100 CCTV Security Camera. Please read this manual thoroughly before using the product to ensure proper function and longevity.

The Vanxse VS-BX5100 is a high-definition 960H 1000TVL bullet box camera featuring a 1/3" Color Super HAD CCD Effio-E processor and a 6-60mm F1.6 varifocal auto iris lens. It is designed for both indoor and outdoor surveillance applications.



Figure 1.1: Front view of the Vanxse VS-BX5100 CCTV Security Camera.

## 2. SAFETY INFORMATION

- Ensure the power supply voltage matches the camera's requirements (DC 12V).
- Do not expose the camera to extreme temperatures, humidity, or corrosive environments.
- Avoid direct exposure of the lens to strong light sources for extended periods.
- Handle the camera with care to prevent physical damage.
- Installation should be performed by qualified personnel if you are unsure about electrical connections.
- Keep the camera away from water and moisture unless specifically designed for waterproof applications (this model has IP54 rating, offering limited protection against dust and splashing water).

## 3. SETUP AND INSTALLATION

### 3.1 Package Contents

Verify that all components are present:

- Vanxse VS-BX5100 CCTV Security Camera
- User Manual (this document)
- Mounting accessories (if included with your specific package)

### 3.2 Physical Installation

The camera supports various mounting options including wall mounting, ceiling mounting, and hoisting. The mounting block can be repositioned on the front, bottom, or sides of the camera body.

1. Choose a suitable location for surveillance, considering the camera's field of view and environmental conditions.
2. Securely attach the camera bracket to the chosen surface using appropriate screws and anchors.

3. Mount the camera onto the bracket.



## Bracket Hole Installation

Multiple designs, hoisting, wall mounting, vertical mounting, this mounting block can be repositioned on the front or bottom.



Can also be installed on both sides

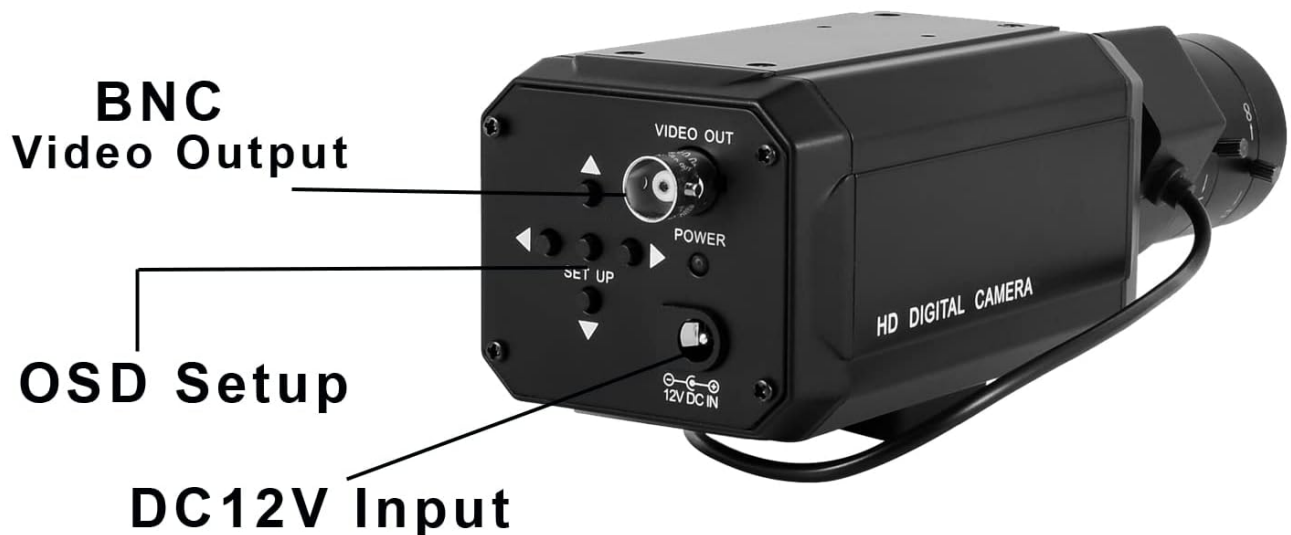


Figure 3.1: Illustration of bracket hole installation options for the camera.

### 3.3 Connecting the Camera

The VS-BX5100 camera uses a BNC connector for video output and a DC 12V input for power. It can be connected to a DVR, a monitor with a BNC interface, or a TV/monitor with an RCA interface using an adapter.

1. **Power Connection:** Connect a DC 12V power adapter to the "DC 12V IN" port on the rear of the camera.
2. **Video Output:** Connect a BNC cable from the "VIDEO OUT" port on the camera to your Digital Video Recorder (DVR) or monitor.
3. **Alternative Video Connections:**
  - For monitors with a VGA/HDMI interface, connect the BNC cable to a DVR, then the DVR to the monitor.
  - For TVs/monitors with an RCA interface, use a BNC Female to RCA Male adapter to connect the BNC cable to the RCA input.

# Three Connection Ways Optional



Figure 3.2: Three optional connection methods for the camera to various display devices.



Figure 3.3: Rear panel connections and OSD setup buttons.

### 3.4 Lens Adjustment

The camera features a 6-60mm varifocal lens with auto iris. Adjustments for zoom and focus are typically made manually on the lens itself to achieve the desired field of view and image clarity.

- **Zoom:** Rotate the zoom ring on the lens to adjust the magnification level.
- **Focus:** Rotate the focus ring to achieve a sharp image. It is recommended to adjust zoom first, then fine-tune the focus.



Figure 3.4: Varifocal lens with adjustable zoom and focus rings.

## 4. OPERATING INSTRUCTIONS

## 4.1 Powering On

Once all connections are secure, plug the power adapter into an electrical outlet. The camera will power on automatically.

## 4.2 On-Screen Display (OSD) Menu

The camera features an OSD menu for advanced settings configuration. Access the OSD menu using the buttons located on the rear panel of the camera (refer to Figure 3.3).

- Use the "SET UP" button to enter the menu.
- Use the up/down arrow buttons to navigate through menu options.
- Use the left/right arrow buttons to change values or select sub-menus.
- Press "SET UP" again to confirm selections or exit a sub-menu.

Common OSD settings may include:

- **Exposure:** Adjust brightness, shutter speed, and gain.
- **White Balance:** Set color temperature for accurate color reproduction.
- **Day/Night Mode:** Configure automatic switching between color (day) and black & white (night) modes.
- **DNR (Digital Noise Reduction):** Reduce image noise in low-light conditions.
- **Motion Detection:** Configure motion sensing areas and sensitivity (if supported by the camera's OSD).

## 5. MAINTENANCE

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### 5.1 Cleaning

- Use a soft, dry cloth to clean the camera body.
- For the lens, use a specialized lens cleaning cloth and solution to avoid scratches.
- Do not use harsh chemicals or abrasive cleaners.

### 5.2 Environmental Considerations

The camera has an IP54 rating, meaning it is protected against dust ingress and splashing water from any direction. While suitable for many outdoor environments, it is not fully waterproof and should be protected from direct heavy rain or submersion.

- Regularly check for any obstructions to the camera's view.
- Ensure proper ventilation around the camera if installed in an enclosed space.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No image on monitor/DVR	No power; incorrect video connection; monitor/DVR input not selected.	Check power adapter and connection; ensure BNC cable is securely connected; select correct input on monitor/DVR.
Image is blurry	Lens out of focus; protective film on lens.	Adjust the focus ring on the lens; remove any protective film from the lens.
Image is too dark/bright	Exposure settings incorrect in OSD.	Access OSD menu and adjust brightness, shutter speed, or gain settings.
Color distortion	White Balance settings incorrect in OSD.	Access OSD menu and adjust White Balance settings.
Intermittent signal	Loose cable connection; faulty cable.	Check all cable connections; try a different BNC cable.

If you encounter issues not listed here or require further assistance, please contact Vanxse customer support.

## 7. SPECIFICATIONS

Feature	Detail
Image Sensor	1/3" Color Super HAD CCD Effio-E processor
Resolution	HD 960H 1000TVL
Effective Pixels	976(H)x494(V)
Lens	6-60mm F1.6 Varifocal Auto Iris Lens
Video Format	NTSC
Power Source	DC 12V
Power Consumption	2.5 Watts
Connectivity Technology	Wired (BNC)
Indoor/Outdoor Usage	Indoor, Outdoor
International Protection Rating	IP54
Mounting Type	Ceiling Mount, Wall Mount
Dimensions (L x W x H)	3.94 x 2.17 x 1.97 inches (10 x 5.5 x 5 cm)
Item Weight	0.4 Kilograms (14.1 ounces)
Model Number	VS-BX5100
UPC	751450292216



Figure 7.1: Visual representation of camera specifications and dimensions.

## 8. WARRANTY AND SUPPORT

Vanxse is committed to providing quality products. This camera is designed for reliable performance. In case of any issues, Vanxse offers 24/7 online technical support.

For support, please refer to the contact information provided with your purchase or visit the official Vanxse website. Please retain your proof of purchase for warranty claims.