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ANNKE DT61BS0-TCDW-V2

ANNKE 16 Channel Security Camera System User Manual

Model: DT61BS0-TCDW-V2

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ANNKE 16 Channel Security Camera System. Please read this manual thoroughly before using the product to ensure proper setup and functionality. This system includes a 5-in-1 Hybrid 1080P Lite DVR and 12x 2MP Indoor/Outdoor IP66 Weatherproof Cameras with Color Night Vision.

2. WHAT'S IN THE Box

Before beginning installation, verify that all components listed below are present in your package:

What's in the Box



X12 Camera



X1 DVR



X12 60 ft BNC Cable

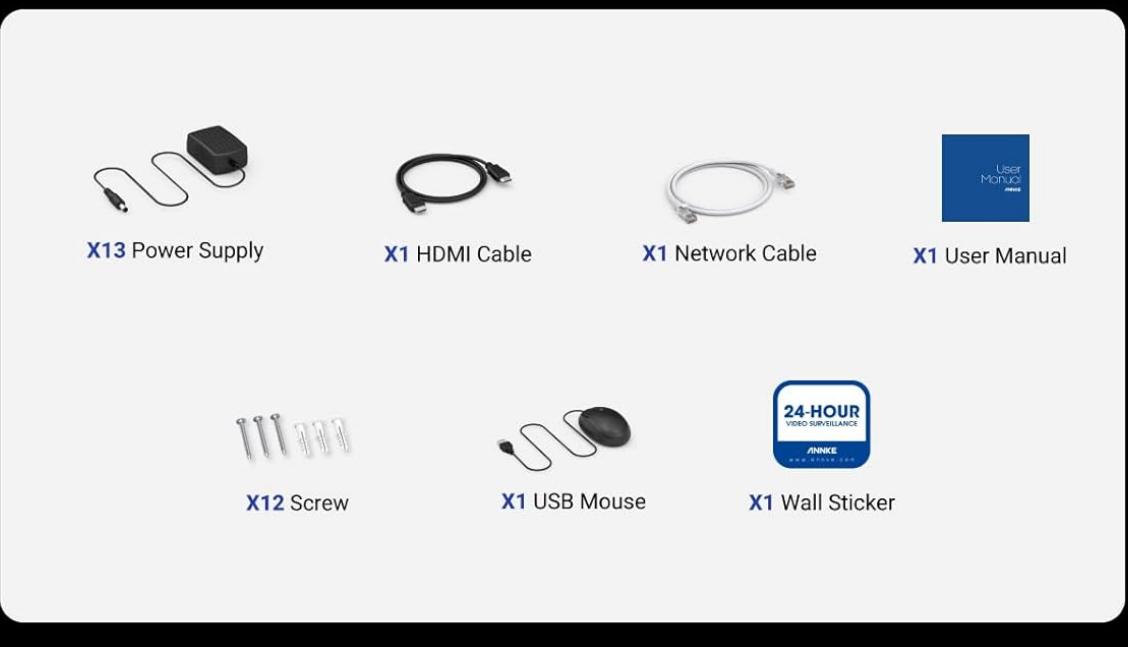


Figure 2.1: Package Contents. This image displays the complete set of items included in the ANNKE 16 Channel Security Camera System package, ensuring you have all necessary components for installation.

- 1x 16CH 2MP Lite DVR (Hard Drive NOT Included)
- 12x 2MP Wired Cameras
- 12x BNC Cables (60 ft each)
- 13x Power Adapters (for DVR and Cameras)
- 1x Ethernet Cable
- 1x HDMI Cable
- 1x USB Mouse
- 1x User Manual
- 1x Wall Sticker

- 12x Screw Kits for camera mounting

3. SYSTEM SETUP

Follow these steps to set up your ANNKE security camera system:

1. **Connect Cameras:** Connect each camera to the DVR using the provided BNC cables. Ensure connections are secure.
2. **Power Cameras:** Connect the camera power adapters to the cameras and then to a power outlet.
3. **Connect DVR:**
 - Connect the DVR to a monitor using the HDMI or VGA cable.
 - Connect the USB mouse to the DVR's USB port.
 - Connect the DVR to your router using the Ethernet cable for remote access features.
 - Connect the DVR power adapter and plug it into a power outlet.
4. **Initial Boot-up:** The system will power on automatically. Follow the on-screen prompts for initial setup, including setting a password and configuring network settings.
5. **Hard Drive Installation (Optional):** If you wish to record video, install a compatible SATA hard drive (up to 10TB) into the DVR. Refer to the separate hard drive installation guide if provided, or consult the ANNKE support website.

Powerful 5-in-1 DVR



Figure 3.1: 5-in-1 Hybrid DVR Compatibility. This image highlights the DVR's versatility, supporting various camera technologies including TVI, AHD, CVI, CVBS, and IP cameras.

4. OPERATING THE SYSTEM

4.1 Remote Access and Motion Detection Alerts

The system supports remote monitoring via smartphone applications (iPhone, iPad, Android). Once connected to the internet, you can view live feeds and receive alerts.

Smart Motion Detection Alerts



Figure 4.1: Smart Motion Detection Alerts. This image demonstrates the alert features, including app push notifications, email alerts with snapshots, and DVR buzzer warnings, triggered by motion events.

You can customize motion detection zones and sensitivity settings through the DVR interface or the mobile application. The DVR will send instant app pushes and email alerts with snapshots when motion is detected in the specified areas.

4.2 Video Recording and Playback

The DVR supports various recording modes and advanced video compression for efficient storage.

- **H.265+ Video Compression:** This advanced compression technology saves up to 50% of storage space compared to H.265, allowing for longer recording times and smoother streaming.
- **Recording Modes:** The system offers 24/7 continuous recording, motion detection recording,

scheduled recording, and event-triggered recording.

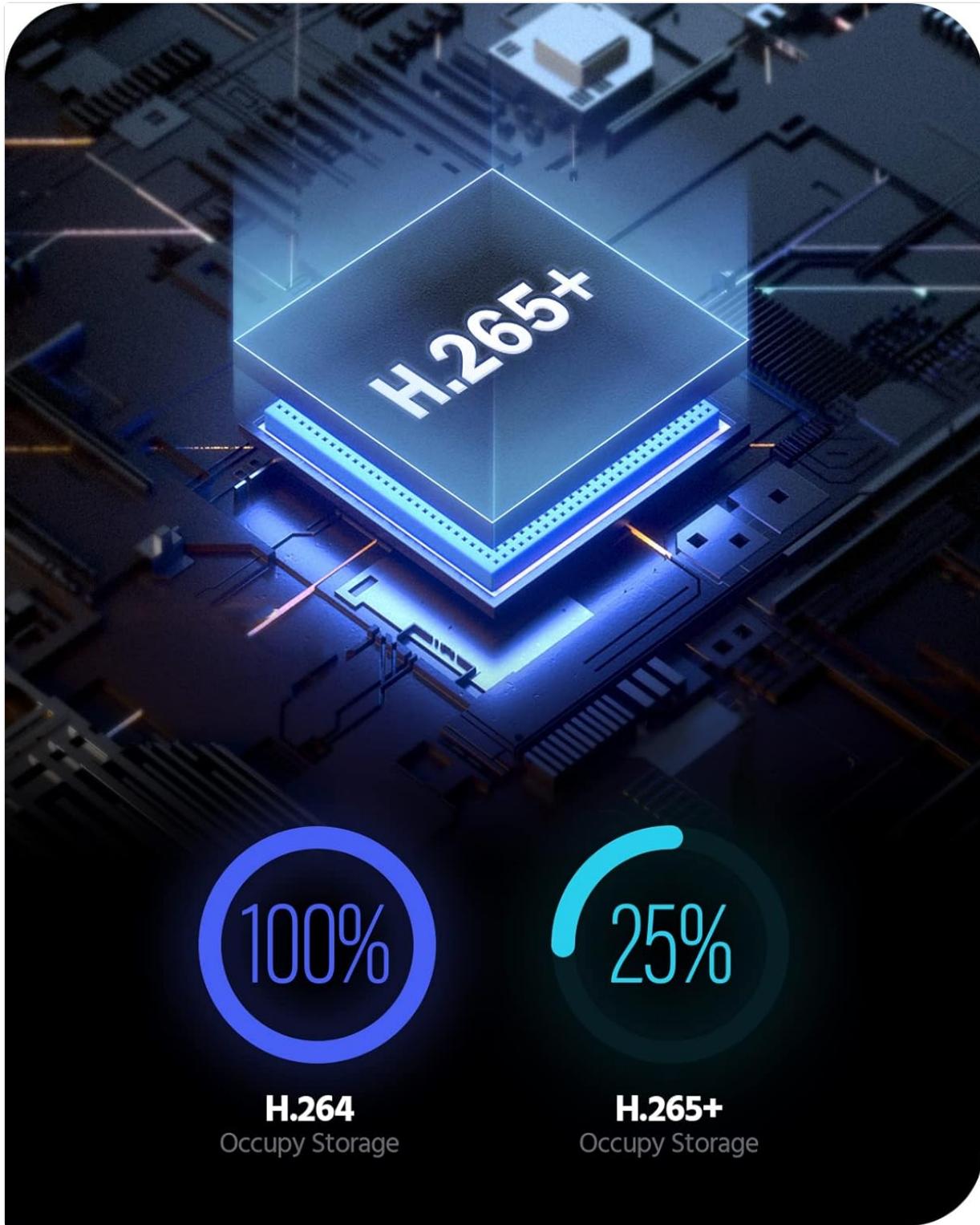


Figure 4.2: H.265+ Video Compression Efficiency. This graphic illustrates the significant storage savings achieved with H.265+ compression technology compared to older H.264 standards.



24/7 Continuous
Recording



Motion Detection
Recording



Schedule Recording



Event Recording

Figure 4.3: Recording Options. This image displays the different recording functionalities available, including continuous, motion-activated, scheduled, and event-based recording.

Smart Playback: The system features smart playback functionality, allowing you to quickly locate vital video segments based on events or timelines.

Locate Vital Videos with Smart Playback

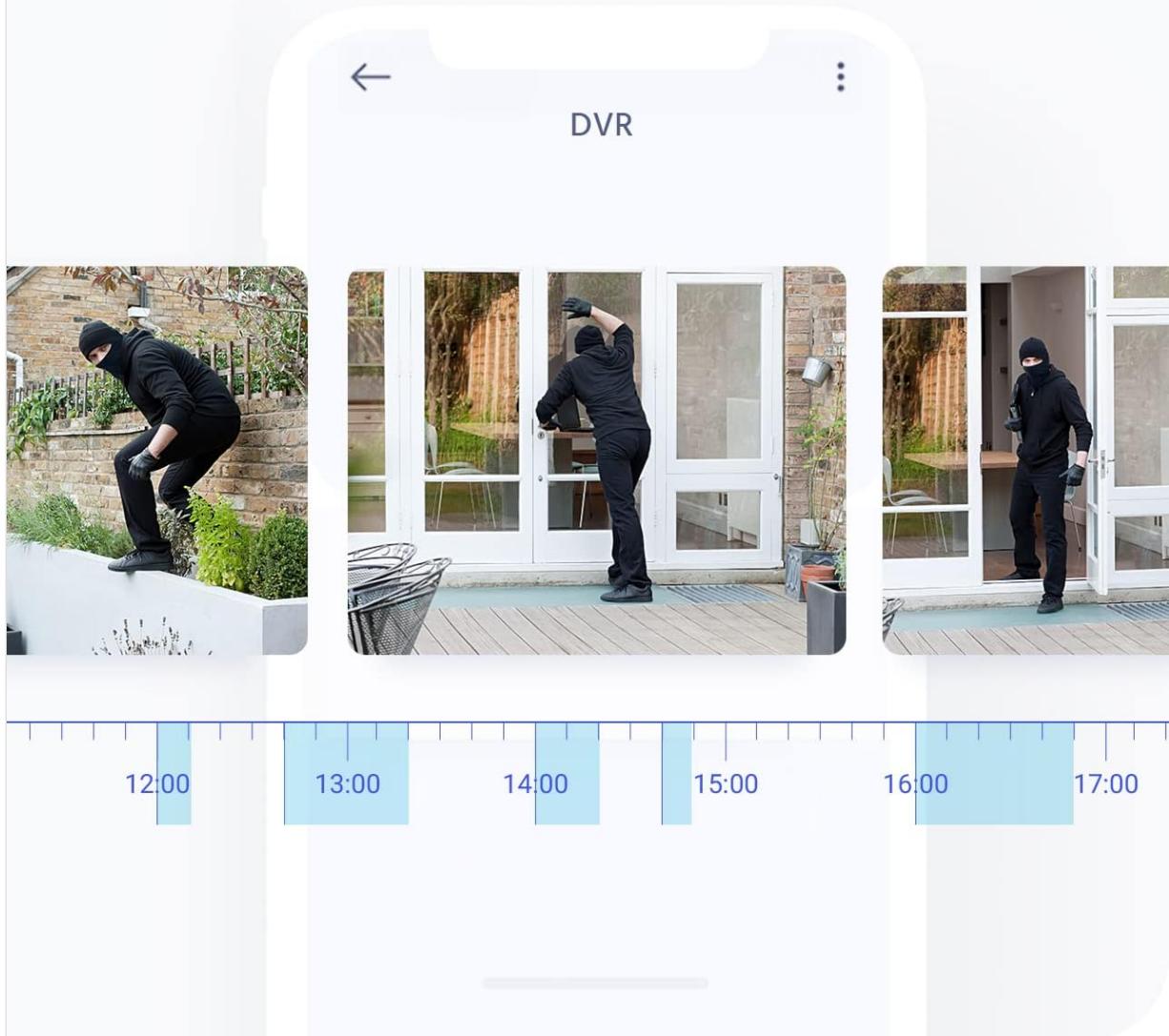


Figure 4.4: Smart Playback Interface. This image illustrates the user-friendly interface for reviewing recorded footage, enabling efficient navigation through video timelines to find specific events.

4.3 Color Night Vision

The 2MP cameras are equipped with advanced color night vision technology, providing clear, full-color images even in low-light conditions up to 100ft. In zero-light environments, built-in warm supplemental lighting activates to ensure color visibility.

2MP Full Color Night Vision



Figure 4.5: Full Color Night Vision vs. B&W Night Vision. This comparison demonstrates the superior detail and clarity provided by the full color night vision feature, even in dark conditions, compared to traditional black and white night vision.

5. MAINTENANCE

To ensure optimal performance and longevity of your security system, regular maintenance is recommended:

- **Camera Cleaning:** Periodically clean the camera lenses with a soft, damp cloth to remove dust, dirt, or smudges that may obstruct the view. Avoid abrasive cleaners.
- **Cable Inspection:** Regularly check all cables for any signs of wear, damage, or loose connections. Secure or replace damaged cables promptly.
- **Firmware Updates:** Check the ANNKE official website for any available firmware updates for your

DVR. Keeping the firmware updated ensures optimal performance and security.

- **Environmental Protection:** The cameras are IP66 weatherproof, designed to withstand temperatures from -40 °F to 140 °F (-40 °C to 60 °C). While robust, avoid direct exposure to extreme conditions or harsh chemicals.



Figure 5.1: IP66 Weatherproof Camera. This image highlights the camera's durable metal housing and IP66 rating, indicating its resistance to dust and water, and its ability to operate in extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your ANNKE security system, refer to the following common troubleshooting steps:

- **No Video Display:**

- Ensure all power adapters are securely connected to the DVR and cameras, and plugged into working outlets.
- Check HDMI/VGA cable connections between the DVR and monitor.
- Verify that the correct input source is selected on your monitor.

- **No Remote Access:**

- Confirm the DVR is connected to your router via Ethernet cable and has a stable internet connection.
- Check network settings on the DVR and ensure they are correctly configured (DHCP enabled or static IP set).
- Ensure your mobile device has a stable internet connection.
- Verify that the ANNKE app is updated to the latest version.

- **Motion Detection Not Working:**

- Check motion detection settings in the DVR or app to ensure it's enabled for the desired channels.
- Adjust sensitivity levels; too low may miss events, too high may trigger false alarms.
- Ensure motion detection zones are correctly defined.

- **Poor Image Quality:**

- Clean camera lenses to remove dirt or smudges.
- Ensure camera resolution settings on the DVR are set to 1080P.
- Check BNC cable connections for any looseness or damage.

For further assistance, please contact ANNKE customer support.

7. SPECIFICATIONS

7.1 DVR Specifications

Feature	Detail
Video Compression	H.265+/H.265/H.264+/H.264
Video Input	16CH Analog HD/Analog + 2CH IP
Video Output	HDMI and VGA Up to 1080P
Audio Input/Output	1/1 RCA
Analog HD Recording Resolution	1080P Lite (960×1080)/720p (1280×720) @ 15fps
Analog HD Playback Resolution	1080P Lite (960×1080)/720p (1280×720) @ 15fps
IPC Recording Resolution	2CH, Up to 5MP
IPC Playback Resolution	2CH, Up to 5MP
Max Playback Channel	16CH

HDD Interface	1 SATA interface
HDD Capacity	Up to 10TB
USB Interface	USB2.0 x 2
Operating Power	DC12V
Dimensions (L x W x H)	17.62 x 12.41 x 7.65 inches

7.2 Camera Specifications

Feature	Detail
Image Sensor	2MP CMOS Image Sensor
Video Resolution	1920 (H) X 1080 (V)
Signal System	TVI: 1080p@25fps/30fps, CVI: 1080p@25fps/30fps, AHD: 1080p@25fps/30fps, CVBS: PAL/NTSC
Lens	2.8 mm
Angle of View	Horizontal FOV: 102°, Vertical FOV: 54°, Diagonal FOV: 121°
Light Distance (Night Vision)	Up to 20m (65ft) with Smart Light, up to 30m (100ft) white light distance
WDR	130 dB true WDR
DNR	3D DNR
Housing Material	Metal
Operating Power	DC 12V
Operating Temperature	-40 °F – 140 °F (-40 °C – 60 °C)
Weatherproof Rating	IP66

8. WARRANTY AND SUPPORT

For warranty information, product registration, and technical support, please visit the official ANNKE website or contact their customer service directly. Keep your purchase receipt for warranty claims. You can find more information and support resources by visiting the [ANNKE Store](#).