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Tonton D3508HH8+2078XV2M*8+2TB

Tonton 10CH Security Camera System Instruction Manual

Model: D3508HH8+2078XV2M*8+2TB

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Tonton 10CH Security Camera System. Please read this manual thoroughly before installation and retain it for future reference.

Figure 1.1: Overview of the Tonton 10CH Security Camera System, including the DVR, eight wired cameras, and a 2TB hard disk drive.

2. System Setup

2.1 Package Contents

Your Tonton Security Camera System package includes:

- 1 x 10-Channel 5MP Lite H.265 DVR
- 8 x 1080P IP66 Outdoor Bullet Security Cameras
- 1 x 2TB Security Hard Disk Drive (pre-installed in DVR)
- Power adapters for DVR and cameras
- BNC cables for camera connection
- USB Mouse
- Ethernet Cable

2.2 DVR Connections

The DVR supports various camera types and output options. Ensure all connections are secure.

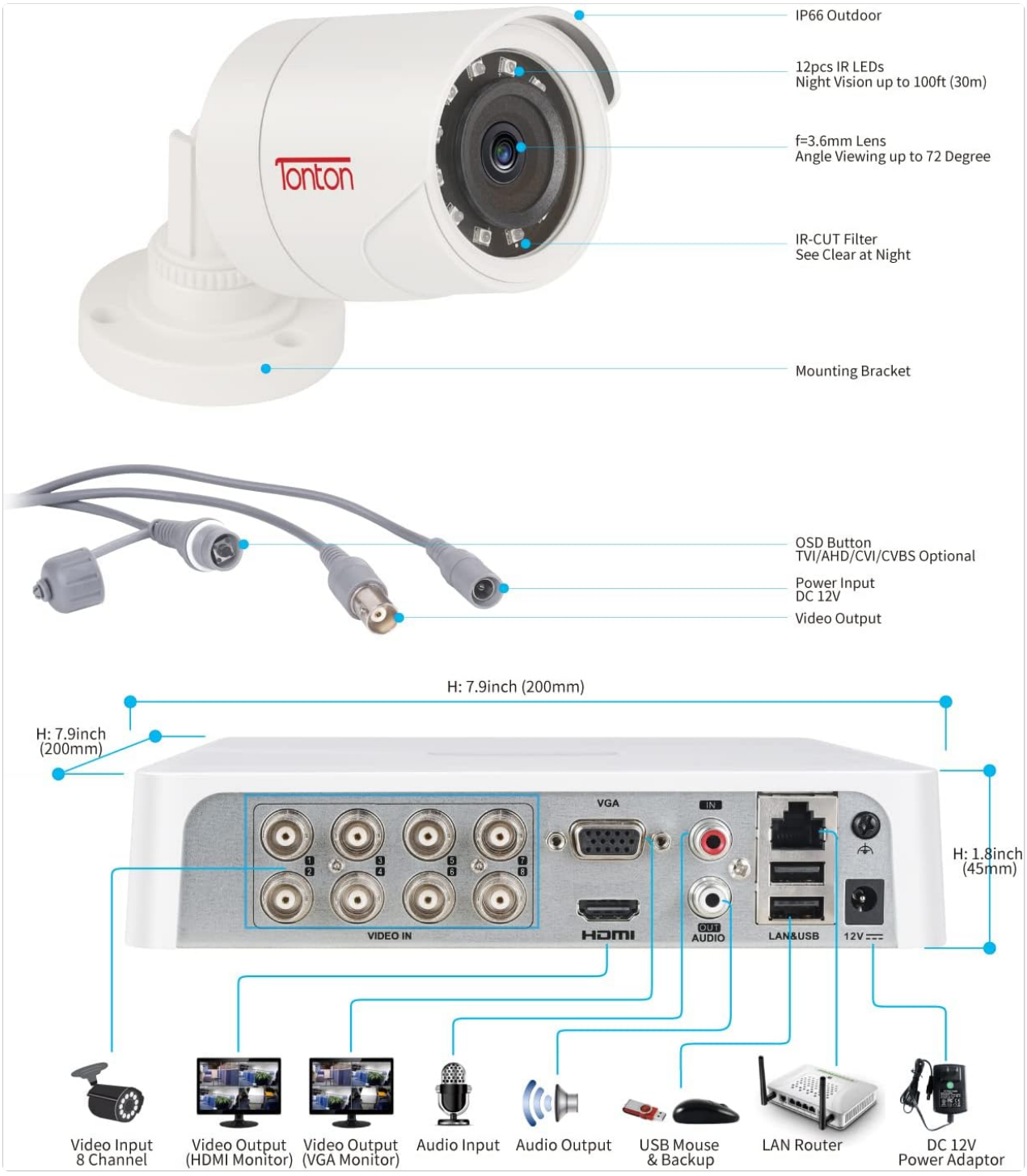

Figure 2.1: Detailed view of the DVR's rear panel, showing video input ports (BNC), VGA and HDMI video outputs, audio input/output, LAN port, USB ports, and power input. Also shown are camera components including IR LEDs, lens, IR-CUT filter, and mounting bracket.

The DVR is a 5-in-1 hybrid system, compatible with TVI, CVI, AHD, 960H analog, and Onvif IP cameras. It features 8 channels for wired cameras and can support up to 2 additional 1080P IP cameras.

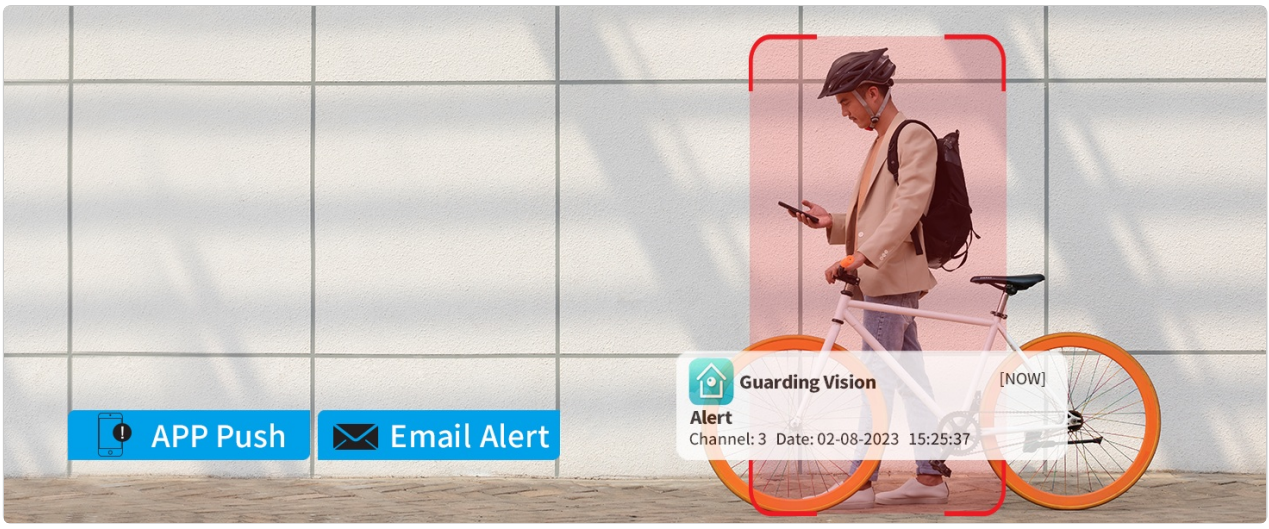

Figure 2.2: The DVR supports multiple camera input types: TVI, CVI, AHD, CVBS, and IP cameras, offering flexibility for system expansion.

2.3 Initial System Connection

Follow these steps for the initial setup of your security system:

1. **Connect Cameras:** Connect each camera to the DVR using the provided BNC cables. Ensure the power adapter for each camera is also connected.
2. **Connect DVR to Monitor:** Use an HDMI or VGA cable to connect the DVR to a monitor.
3. **Connect USB Mouse:** Plug the USB mouse into a USB port on the DVR for navigation.
4. **Connect to Network (Optional for Remote Access):** Connect the DVR's LAN port to your router using an Ethernet cable.
5. **Power On:** Connect the DVR to a power outlet using its power adapter. The system will boot up.

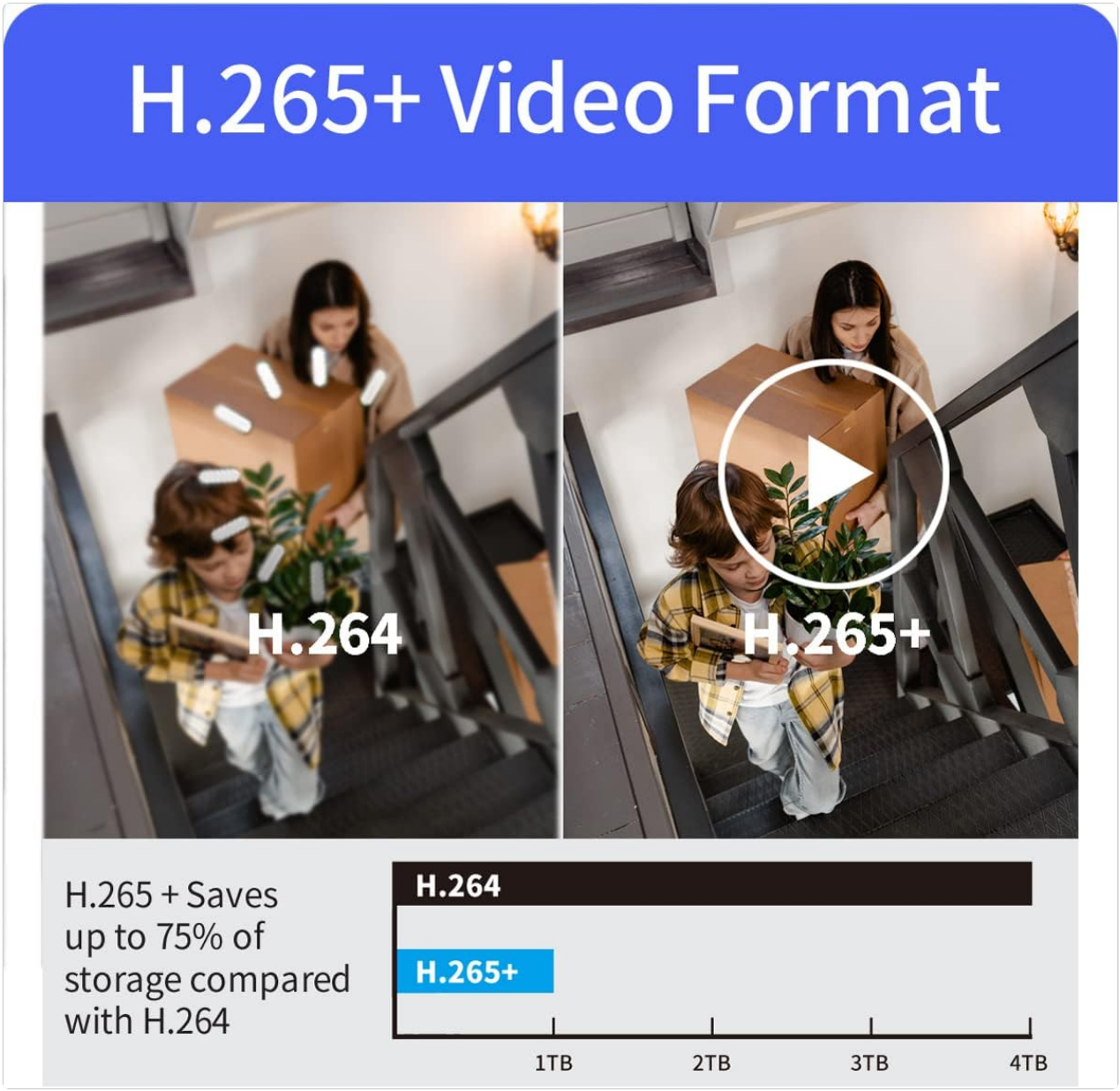

Figure 2.3: Connection diagram showing cameras wired to the DVR, the DVR connected to a router for network access, and the DVR connected to a monitor for local viewing.

2.4 Local View Setup

For local viewing, simply connect the DVR to a monitor. No internet connection is required for basic recording and local playback.

Figure 2.4: The system supports local viewing via a connected monitor, providing 24/7 surveillance without requiring an internet connection.

2.5 Remote Access Setup (Guarding Vision App)

To access your security system remotely via a smartphone or tablet, follow these steps:

1. **Connect DVR to Internet:** Ensure your DVR is connected to your home router via an Ethernet cable.
2. **Download App:** Download the free **Guarding Vision** app from the App Store (iOS) or Google Play Store (Android).
3. **Add Device:** Open the app and follow the on-screen instructions to add your DVR by scanning the QR code on the DVR or manually entering its details.
4. **Live View:** Once added, you can view live feeds from your cameras and access playback features from anywhere with an internet connection.

Figure 2.5: Steps for setting up remote access: connect DVR to network, download the Guarding Vision app, and enjoy live viewing on your mobile device.

3. Operating Instructions

3.1 Live View and Playback

Access live camera feeds and recorded footage through the connected monitor or the Guarding Vision mobile app. The system supports 24/7 continuous recording.

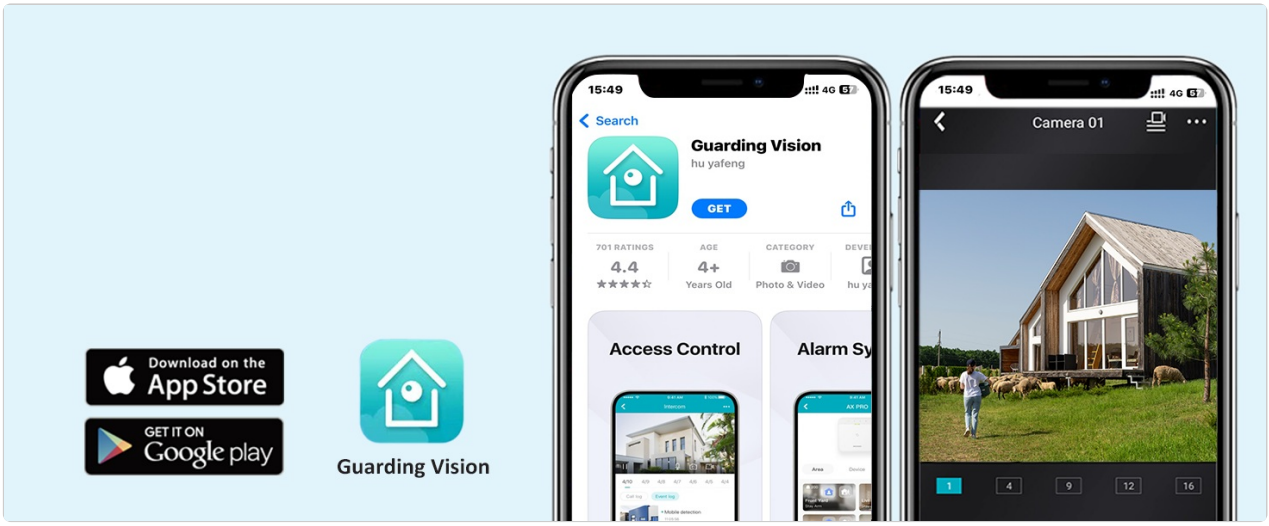

Figure 3.1: The DVR system provides continuous 24/7 recording for comprehensive surveillance.

3.2 Motion Detection and Alerts

Configure motion detection zones for each camera to minimize false alarms. When motion is detected, the system can send instant app push notifications and email alerts with snapshots.

Figure 3.2: The system sends instant alerts via app notifications and email with snapshots upon detecting motion.

The system utilizes smart algorithms to help minimize false alarms, focusing on human and vehicle detection.

Figure 3.3: Smart algorithms are employed to reduce irrelevant alerts by distinguishing between significant movements and minor environmental changes.

3.3 Night Vision

The cameras are equipped with smart IR night vision, providing clear images up to 100ft (30m) in low-light conditions.

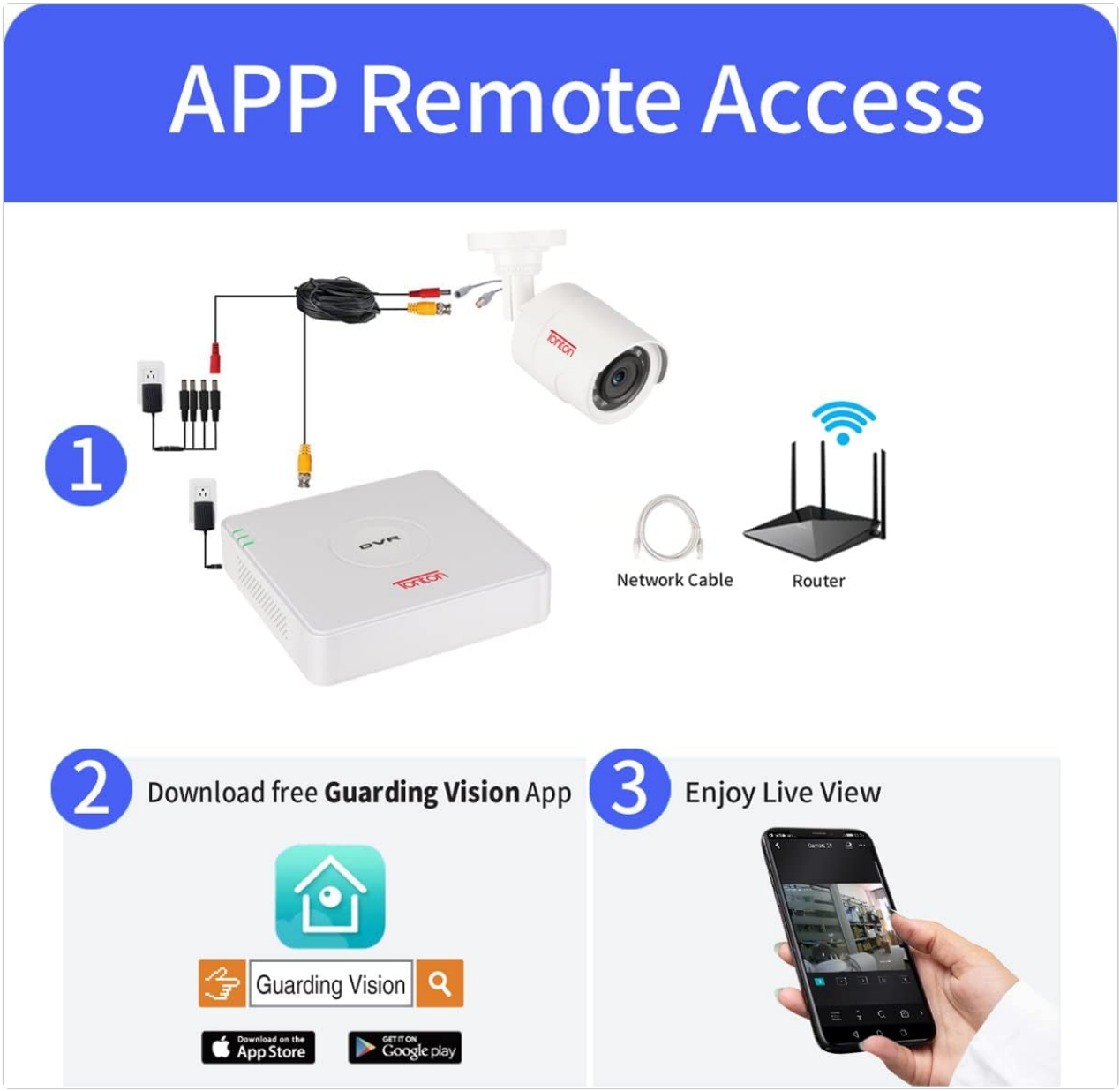

Figure 3.4: Comparison demonstrating enhanced clarity and detail in night vision footage when Smart IR is active.

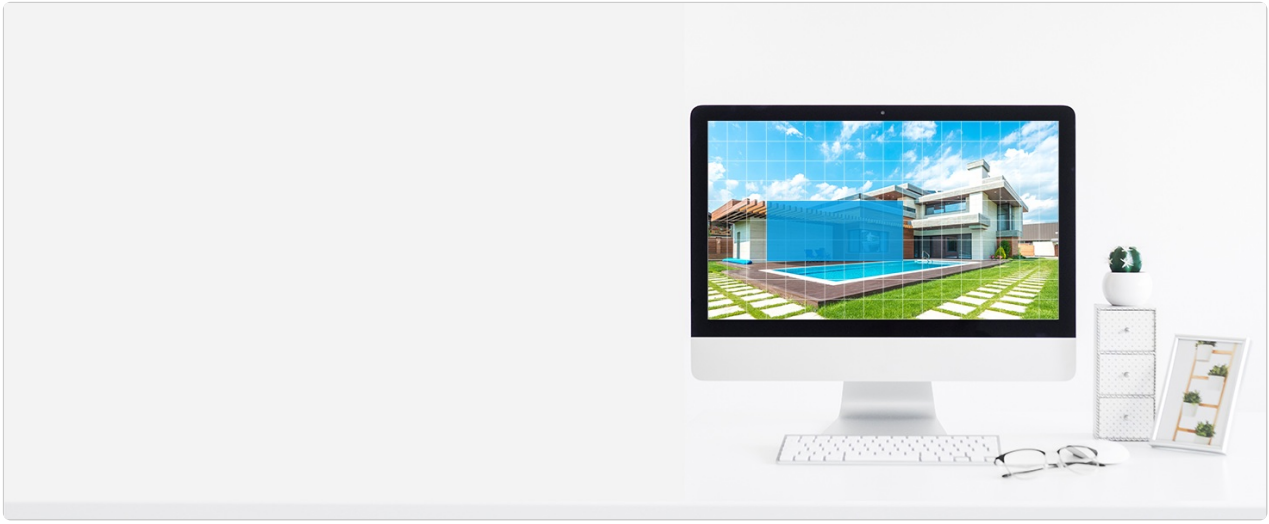

Figure 3.5: Illustrates the camera's performance during daytime (color) and nighttime (monochrome infrared) conditions.

3.4 Wide Dynamic Range (WDR)

The cameras feature Wide Dynamic Range (WDR) technology to balance exposure in scenes with both very bright and very dark areas, ensuring clearer images.

Figure 3.6: Demonstrates the improvement in image clarity when WDR is enabled, especially in challenging lighting conditions.

3.5 Privacy Masking

You can configure privacy mask areas to block out specific regions within the camera's view that you do not wish to record, ensuring privacy in sensitive zones.

Figure 3.7: An example of a privacy mask applied to a section of the camera's view, preventing recording in that specific area.

4. Maintenance

4.1 Hard Disk Drive (HDD) Management

The DVR includes a pre-installed 2TB security-grade HDD. The system supports multiple recording modes and will automatically overwrite older footage when the disk is full to ensure continuous recording.

4.2 H.265+ Video Compression

The system utilizes advanced H.265+ video compression technology, which significantly reduces file sizes while maintaining video quality. This maximizes storage space and allows for longer recording durations compared to older H.264 compression.

Figure 4.1: Illustrates how H.265+ compression saves up to 75% of storage space compared to H.264, allowing for extended recording times on the same HDD capacity.

4.3 Cloud Storage (Dropbox)

For off-site backup, you can configure the system to upload still images to your Dropbox cloud storage account. This ensures that image evidence is preserved even if the physical security system is compromised.

Figure 4.2: The system supports uploading images to Dropbox for secure cloud storage and backup.

4.4 Data Security

The system incorporates double encryption to protect your recorded data and ensure privacy.

Figure 4.3: Visual representation of the double encryption feature, enhancing the security of your surveillance data.

5. Troubleshooting

This section addresses common issues you might encounter with your Tonton Security Camera System.

5.1 No Image on Monitor After Setup

- **Check Connections:** Ensure all camera BNC cables are securely connected to the DVR and that the DVR is connected to the monitor via HDMI or VGA.
- **Power Supply:** Verify that the DVR and all cameras are receiving power. Check power adapters and outlets.
- **Input Source:** Confirm your monitor's input source is set correctly (HDMI/VGA) to match the DVR connection.
- **Initial Configuration:** For initial setup, it is recommended to connect a monitor and USB mouse directly to the DVR to configure settings.

5.2 Excessive Motion Detection Alerts

- **Adjust Sensitivity:** Access the DVR settings (via local monitor or app) and reduce the motion detection sensitivity for the affected cameras.
- **Define Detection Zones:** Customize specific motion detection zones to exclude areas with frequent, irrelevant movement (e.g., swaying trees, busy public pathways).
- **Environmental Factors:** In night vision mode, insects or sudden changes in light (e.g., car headlights) can sometimes trigger alerts. Adjusting sensitivity or camera placement may help.

5.3 Remote Access Issues

- **Network Connection:** Verify the DVR is connected to your router and has a stable internet connection. Check your router's status.
- **App Configuration:** Ensure the DVR is correctly added to the Guarding Vision app and that its network settings (e.g., port forwarding if required by your network setup) are configured correctly.
- **Firewall Settings:** Your router's firewall might be blocking the connection. Consult your router's manual or ISP for assistance with firewall settings.

5.4 Poor Image Quality on a Camera

- **Check Cable:** Inspect the BNC cable for any damage or loose connections. Try swapping the cable with a known working one.
- **Clean Lens:** Ensure the camera lens is clean and free from dirt, dust, or moisture.
- **Power Supply:** Insufficient power can affect image quality. Verify the camera's power adapter is functioning correctly.
- **Interference:** Electromagnetic interference from other electronic devices can sometimes affect wired camera signals. Try to reposition cables or devices.

6. Specifications

Feature	Detail
Brand	Tonton
Model Number	D3508HH8+2078XV2M*8+2TB
Connectivity Technology	Wired
Video Capture Resolution	1080p, 1944p (5MP Lite)
Special Features	Night Vision, Waterproof (IP66)
Number of Channels	8 (wired) + 2 (IP)
Memory Storage Capacity	2 TB HDD (pre-installed)
Power Source	Corded Electric
Product Dimensions	14.4 x 12.2 x 9.4 inches
Item Weight	13.99 pounds
Operating Temperature	-10°C to 60°C (14°F to 140°F)
Manufacturer	Tonton security
Date First Available	March 13, 2023

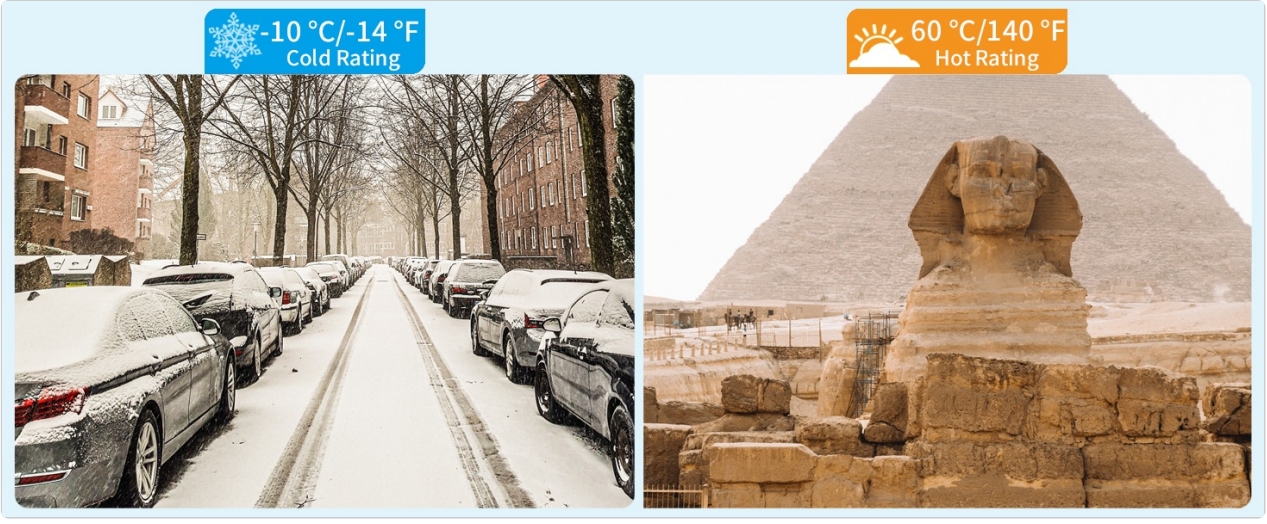

Figure 6.1: The system is designed to operate within a wide temperature range, from -10°C (14°F) to 60°C (140°F).

Figure 6.2: The cameras have an IP66 rating, indicating resistance to dust and powerful water jets, suitable for outdoor use in various weather conditions.

7. Warranty and Support

7.1 Warranty Information

Tonton products typically come with a manufacturer's warranty. For specific details regarding the warranty period and coverage for your system, please refer to the warranty card included with your product or contact Tonton customer support directly. It is advisable to retain your proof of purchase for warranty claims.

7.2 Customer Support

Should you encounter any issues or require assistance with your Tonton Security Camera System, please contact Tonton customer support. Many users have reported positive experiences with the support team, noting their responsiveness and helpfulness.

You can often find support resources, FAQs, and contact information on the official Tonton website or through the provided QR code for direct support access.

Figure 7.1: Scan this QR code with your smartphone to access Tonton customer support resources and assistance.

Alternatively, visit the Tonton Store for more information: Tonton Store on Amazon

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