Amcrest A5TN28-W

Amcrest Analog 5MP NightColor Outdoor Security Camera User Manual

MODEL: AT5N28-W-V3

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Amcrest Analog 5MP NightColor Outdoor Security Camera (Model AT5N28-W-V3). Please read this manual thoroughly before using the product to ensure proper setup and functionality. Retain this manual for future reference.

2. Product Overview

The Amcrest AT5N28-W-V3 is a 5-megapixel analog turret security camera designed for outdoor surveillance. It features NightColor technology for full-color night vision up to 131 feet, a 132° wide viewing angle, and a built-in microphone for one-way audio. The camera is housed in a durable IP67 weatherproof casing, suitable for various environmental conditions. It connects via BNC coaxial cable and requires a compatible Digital Video Recorder (DVR) for operation and recording.

Figure 2.1: Amcrest 5MP NightColor Turret Camera (Model AT5N28-W-V3)

This image displays the Amcrest 5MP NightColor Turret Camera, highlighting its compact design and lens configuration.

Key Features:

- **5-Megapixel Resolution:** Provides clear video at 2592x1944 pixels (4MP @25fps).
- **NightColor Vision:** Full-color night vision up to 131 feet using an enhanced low-light image sensor.
- **Wide Dynamic Range (WDR):** 120dB True WDR for balanced images in varying light conditions.
- **2.8mm Fixed Lens:** Offers a 132° viewing angle.
- **Built-in Microphone:** Enables one-way audio monitoring.
- **IP67 Weatherproof:** Designed for outdoor use in various weather conditions.
- **Quadbrid 4-in-1 Technology:** Compatible with HD-CVI, TVI, AHD, and Analog DVR systems via a dip switch.

3. Package Contents

Verify that all components are present in your package:

- 1 x Amcrest 5MP NightColor Turret Analog Security Camera (White)
- Mounting Hardware (screws, wall anchors)
- Quick Start Guide

Note: A Digital Video Recorder (DVR), power supply, and coaxial video cables are required for operation and are sold separately.
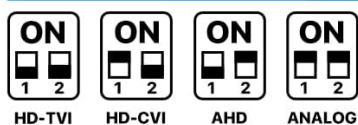
4. Setup

4.1 Pre-Installation Checklist

- Compatible Amcrest HD-CVI/TVI/AHD/Analog DVR (not included).
- 12V DC power adapter (not included).
- BNC coaxial cable (not included).
- Drill and mounting tools.

4.2 Camera Connection and DIP Switch Configuration

The camera features a 4-in-1 dip switch to select the video output format (HD-TVI, HD-CVI, AHD, or Analog). Ensure the dip switch is set to match your DVR's input format before connecting the camera.

Figure 4.1: DIP Switch and BNC Coaxial Connection

This diagram illustrates the location of the 4-in-1 DIP switch for selecting video output modes and the BNC coaxial and 12V DC power connections.

1. **Select Video Format:** Adjust the dip switch on the camera's cable to the appropriate setting for your DVR (HD-TVI, HD-CVI, AHD, or Analog).
2. **Mount Camera:** Secure the camera to your desired outdoor location using the provided mounting hardware. Ensure the mounting surface is stable.
3. **Connect Coaxial Cable:** Connect one end of the BNC coaxial cable to the camera's BNC port and the other end to an available BNC input on your DVR.
4. **Connect Power:** Connect the 12V DC power adapter to the camera's power input and plug the adapter into a power outlet.
5. **Power On DVR:** Ensure your DVR is powered on and configured to detect the camera.

4.3 Video Overview

Your browser does not support the video tag.

Video 4.1: Amcrest - Simple, Reliable, Secure

5. Operating

5.1 Viewing Live Feed and Recordings

Once connected to a compatible DVR, you can view the live camera feed and access recordings through your DVR's interface. For remote viewing, utilize the Amcrest View Pro app on your smartphone or tablet, or the Amcrest Surveillance Pro software on your PC.

Figure 5.1: Amcrest View Pro 2 App Interface

This image shows the Amcrest View Pro 2 app displaying live camera feeds on a smartphone, illustrating remote monitoring capabilities.

5.2 NightColor Vision

The camera's NightColor feature provides full-color video in low-light conditions, enhancing detail and clarity compared to traditional black and white infrared night vision. This is achieved through an advanced image sensor
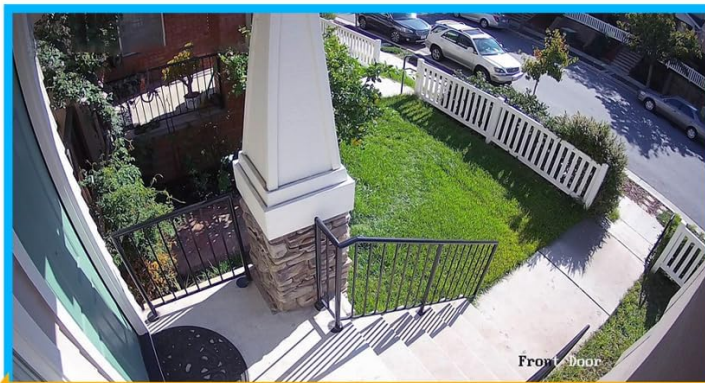
and integrated spotlights.

Figure 5.2: NightColor Vision in Total Darkness

This image compares a scene with NightColor (spotlight on) versus traditional night vision (spotlight off), demonstrating the full-color capability in darkness.

5.3 Audio Monitoring

The integrated microphone allows for one-way audio monitoring, capturing sound from the camera's vicinity. This audio can be accessed through your DVR or the Amcrest View Pro app.

Figure 5.3: Built-in Microphone

This image highlights the built-in microphone feature, indicating its capability to receive audio detection alerts and monitor sound.

5.4 Wide Viewing Angle

The camera's 132° wide viewing angle provides extensive coverage, reducing the number of cameras needed for a given area.

Figure 5.4: Extra-Wide 131° Viewing Angle

This image demonstrates the camera's wide field of view, covering a broad area from a single vantage point.
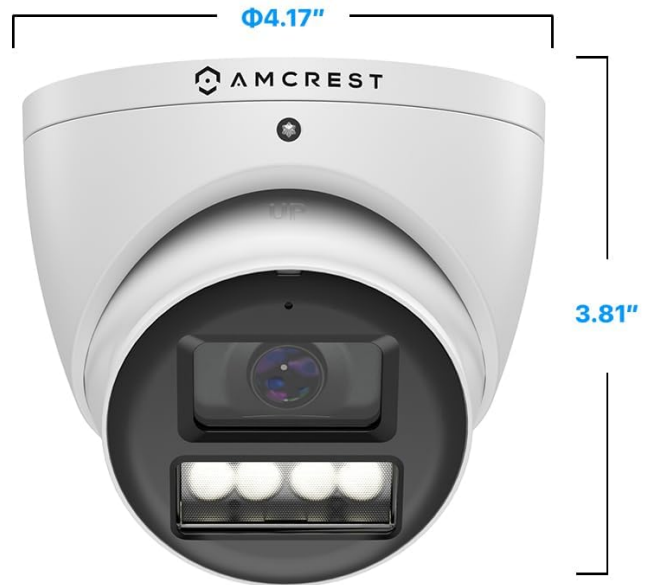
6. Maintenance

The Amcrest AT5N28-W-V3 camera is designed for minimal maintenance due to its durable construction and IP67 weatherproof rating.

AMCREST

THIS IS NOT AN IP OR POE CAMERA

HD ANALOG

5MP ULTRAHD

5-Megapixel Analog
Outdoor Security Turret Camera

MODEL: A5TN28-W-V3-4

Φ4.17"

3.81"

Technical Specifications

CAMERA
Image Sensor 1/2.7" 5MP CMOS
UHD Resolution Up to 5MP UltraHD at 25fps (2880 × 1620)
Night Vision Up to 131ft (4x Spotlights)
Min. Illumination 0.001 lux@F1.0 (Color, 30 IRE)
Wide Dynamic Range 120dB

LENS
Lens Type 2.8mm (Fixed)
Field of View H: 112°; V: 57°; D: 131°

AUDIO
One-Way Talk Built-in Mic

VIDEO
Frame Rate Mainstream:
5MP (1~25fps)

TRANSMISSION RANGE
Up to 2296ft

STORAGE
Amcrest DVR

MOBILE VIEWING
Amcrest View Pro 2 App
iOS and Android Devices

CONNECTION
BNC Coaxial

CONSTRUCTION
Weatherproof IP67
Operating Temperature
-40°F ~ 140°F
Dimensions 3.81" x Φ4.17"
Weight 1.08 lb

Figure 6.1: Weatherproof IP67 Housing

This image illustrates the camera's robust, weatherproof housing, designed to withstand outdoor elements like rain.

- **Cleaning:** Periodically clean the camera lens with a soft, damp cloth to remove dust or smudges that may affect image quality. Avoid abrasive cleaners.
- **Cable Inspection:** Regularly check all cable connections for wear, damage, or loose fittings to ensure continuous operation.
- **Firmware Updates:** Check the Amcrest website for any available firmware updates for your DVR, which may improve camera compatibility or performance.

7. Troubleshooting

- **No Video Signal:**
  - Ensure the camera is receiving power.
  - Verify the BNC coaxial cable is securely connected at both the camera and DVR ends.
  - Check the camera's 4-in-1 dip switch setting to ensure it matches your DVR's video input format.

- Confirm your DVR is compatible with 5MP analog cameras.

- **Poor Image Quality:**

    - Clean the camera lens.

    - Ensure sufficient lighting in the area, especially for NightColor functionality.

    - Check cable integrity for any damage or interference.

- **No Audio:**

    - Verify audio settings on your DVR or viewing software are enabled.

    - Ensure the microphone is not obstructed.

For further assistance, please visit the Amcrest support website or contact customer service.

8. Specifications

Detailed technical specifications for the Amcrest AT5N28-W-V3 camera:

Figure 8.1: Technical Specifications Diagram

This image provides a visual summary of the camera's technical specifications and dimensions.

Feature	Specification
Model	AT5N28-W-V3
Image Sensor	1/2.7" 5MP CMOS
Resolution	5-Megapixel (2592x1944) @25fps
Night Vision	NightColor up to 131 feet
Lens	2.8mm Fixed Lens
Viewing Angle	132°
Audio	Built-in Microphone (one-way)
Weatherproof Rating	IP67
Connectivity	BNC Coaxial (Quadbrid 4-in-1)
Power Source	12V DC (adapter not included)
Operating Temperature	-40°F ~ 140°F (-40°C ~ 60°C)
Dimensions	4.17 x 4.17 x 3.81 inches
Weight	1.08 lbs

9. Warranty and Support

Amcrest products come with a **1-Year US Warranty** and **Lifetime Support** provided directly by Amcrest. For warranty claims, technical assistance, or product inquiries, please visit the official Amcrest support website or contact their customer service team.

Amcrest Support: https://amcrest.com/support

Related Documents - A5TN28-W

AMCREST
UltraHD 5MP Full Color Analog Camera
A5TN28-W
Quick Start Guide

[Amcrest UltraHD 5MP Full Color Analog Camera A5TN28-W Quick Start Guide](#)
Quick start guide for the Amcrest UltraHD 5MP Full Color Analog Camera (Model A5TN28-W), covering installation, connection, features, and technical specifications. Includes important safety warnings and FCC/IC compliance information.

	[Amcrest 4K Analog HDCVI Bullet Camera AMC4KBC36P-W User Manual](#) User manual for the Amcrest AMC4KBC36P-W 4K Analog HDCVI Bullet Camera, detailing installation, features, technical specifications, safety guidelines, and compliance information.
	[Amcrest 4K Analog HDCVI Dome Camera User Manual](#) Comprehensive user manual for the Amcrest AMC4KDM28-B-V3 4K Analog HDCVI Dome Camera. Details installation, operation, features (8MP, 65ft night vision, IP67 weatherproof, built-in mic), technical specifications, safety, and support for this white outdoor security camera.
	[Amcrest ASH47-W Quick Start Guide: Setting Up Your 4MP Outdoor Wi-Fi Security Camera](#) A concise guide to setting up and installing the Amcrest ASH47-W 4MP Full Color Dual-Antenna Outdoor Wi-Fi Security Camera, covering unboxing, app connection, and physical mounting.
	[Amcrest IP2M-841W-V3 / IP2M-841B-V3 Quick Start Guide](#) A comprehensive guide to setting up and using Amcrest IP2M-841W-V3 and IP2M-841B-V3 security cameras with Amcrest Cloud and Amcrest View Pro applications, covering mobile and desktop setup methods, access options, physical installation, and troubleshooting.
	[Amcrest AMC4KBC28-W-V2 4K Analog HDCVI Bullet Camera User Manual](#) User manual for the Amcrest AMC4KBC28-W-V2 4K Analog HDCVI Bullet Camera, detailing installation, connection, features, technical specifications, safeguards, and compliance information.