Defender 21182

Defender Pro Sentinel 8CH Security DVR System Instruction Manual

Model: 21182

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Defender Pro Sentinel 8CH Smart Security DVR System. This system includes an 8-channel Digital Video Recorder (DVR), four ultra high-resolution outdoor surveillance cameras, and a 19-inch LED monitor. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

Package Contents

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

- Defender Pro Sentinel 8CH DVR with 1TB HDD
- 19-inch LED Monitor
- 4 Ultra Hi-res 600 TVL Outdoor Surveillance Cameras
- Power Adapters for DVR and Cameras
- 65ft FT4 Fire-Rated Cables (for cameras)
- USB Mouse
- Remote Control
- Instruction Manual and Software CD



Figure 1: System Components. This image displays all items included in the Defender Pro Sentinel 8CH Security DVR System package, including the DVR unit, 19-inch monitor, four surveillance cameras, cables, power adapters, remote control, and USB mouse.

Setup Instructions

1. DVR Connections

Identify the various ports on the rear panel of the DVR unit. These ports are essential for connecting cameras, the monitor, and power.

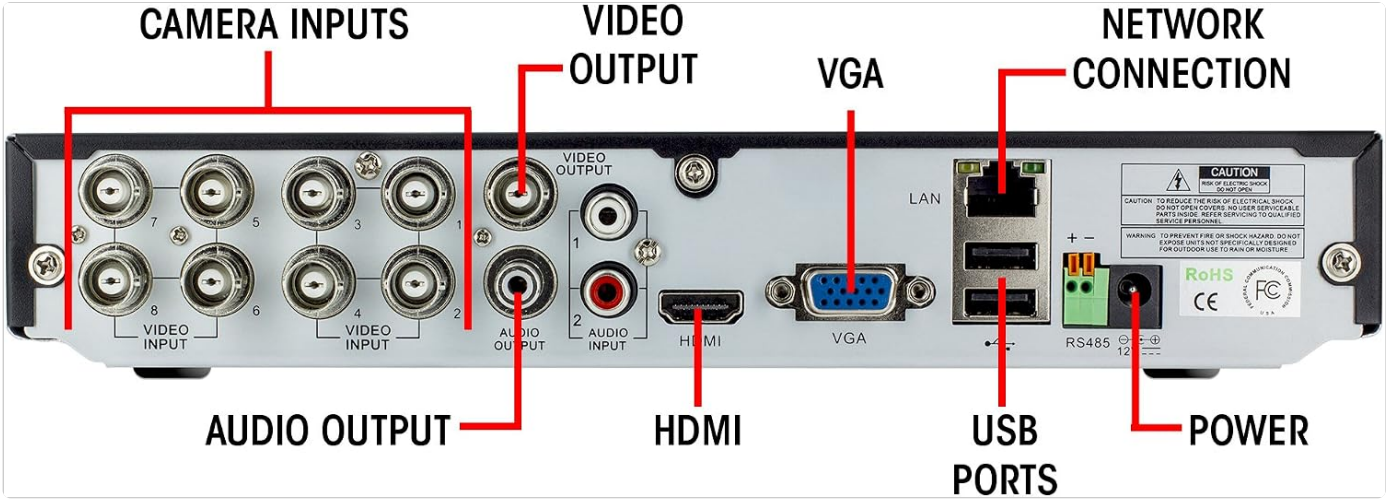


Figure 2: DVR Rear Panel. This image highlights the various input and output ports on the back of the DVR, including camera inputs, video output, audio input/output, HDMI, VGA, USB ports, network connection, and power input.

1. **Camera Connection:** Connect each surveillance camera to the 'VIDEO INPUT' BNC ports on the DVR using the provided 65ft FT4 fire-rated cables. The DVR supports up to 8 cameras.
2. **Monitor Connection:** Connect the 19-inch LED monitor to the DVR using either the HDMI or VGA port.
3. **USB Devices:** Connect the USB mouse to one of the USB ports for system navigation. Additional USB ports can be used for backup devices.
4. **Network Connection:** For remote viewing capabilities, connect an Ethernet cable from your router to the 'LAN' port on the DVR.
5. **Power:** Connect the DVR power adapter to the 'POWER' input and then to a wall outlet.

2. Camera Installation

The outdoor surveillance cameras are designed for high-resolution monitoring and night vision capabilities.



Figure 3: Camera Features. This image highlights the key features of the surveillance camera: Advanced IR for enhanced color, 600 TVL resolution, and 110ft night vision range.

1. **Mounting:** Securely mount each camera in your desired outdoor location using the provided mounting hardware. Ensure the camera has a clear line of sight to the area you wish to monitor.
2. **Cable Routing:** Route the 65ft FT4 fire-rated cables from each camera to the DVR. These cables are suitable for in-wall installation.
3. **Power:** Connect the camera power adapters to the camera power inputs and then to a power source.



Figure 4: Mounted Camera. This image shows a Defender Pro surveillance camera securely mounted on an exterior wall, demonstrating a typical installation scenario.

3. Monitor Setup

The 19-inch LED monitor provides a direct display for your security footage.



Figure 5: Monitor Rear Panel. This image displays the rear of the 19-inch LED monitor, highlighting the VGA input port for video connection and the DC power input.

1. **Connect to DVR:** As mentioned in DVR connections, use an HDMI or VGA cable to connect the monitor to the DVR.
2. **Power:** Connect the monitor's power adapter to the 'DC' input on the monitor and then to a wall outlet.

Operating Instructions

1. Initial Power-On and System Access

1. Ensure all connections (cameras, monitor, power) are secure.
2. Power on the DVR and the monitor. The system will boot up and display the camera feeds.
3. Follow on-screen prompts for initial setup, including setting date/time and creating a password.

2. Viewing Live Footage

The 19-inch monitor will display live feeds from all connected cameras. You can typically switch between single-camera view and multi-camera grid view using the DVR's interface (via mouse or remote control).



Figure 6: Live View Display. This image shows the 19-inch LED monitor presenting a split-screen view of live footage from four connected security cameras, demonstrating the system's real-time monitoring capability.

3. Recording and Playback

The DVR is equipped with a 1TB Hard Disk Drive (HDD) for storing recorded footage, capable of holding approximately four years of memory.

- **Continuous Recording:** The system is configured for continuous recording by default.
- **Motion Detection Recording:** You can configure specific cameras to record only when motion is detected within their field of view. Refer to the on-screen menu for settings.
- **Playback:** Use the DVR interface to access recorded footage. Navigate through the timeline or search by date and time to review events.

4. Night Vision Functionality

The cameras feature 38 black IR LEDs, providing automatic night vision up to 110ft in complete darkness (zero lux). An advanced IR filter ensures clear, color-enhanced imagery during the day and switches to black and white for optimal night vision.



Figure 7: Night Vision Display. This image shows the 19-inch LED monitor displaying footage captured by the security cameras in low-light or nighttime conditions, demonstrating the system's night vision capabilities.

5. Video Demonstration

Watch this video for a demonstration of the camera's day and night footage capabilities.

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Video 1: Defender Pro 600TVL Camera Footage. This video demonstrates the high-resolution day and night footage captured by the Defender Pro 600TVL cameras, showcasing their clarity and 110ft night vision in complete darkness. The video also illustrates the pure, rich color with advanced IR filtration during daytime recording.

Maintenance

- **Cleaning:** Regularly clean the camera lenses and monitor screen with a soft, dry cloth to ensure optimal image clarity.
- **HDD Management:** The 1TB HDD provides ample storage. The system will automatically overwrite the oldest footage when the disk is full. Back up important footage periodically to an external USB drive.

- **Firmware Updates:** Check the Defender website for any available firmware updates for your DVR to ensure optimal performance and security.

Troubleshooting

- **No Video Signal:** Check all cable connections between the cameras, DVR, and monitor. Ensure all devices are powered on.
- **Poor Image Quality:** Clean camera lenses. Adjust camera position or focus if applicable. Verify camera resolution settings in the DVR menu.
- **No Recording:** Check HDD status in the DVR menu. Ensure recording schedules are correctly configured.
- **Network Connection Issues:** Verify Ethernet cable connection. Check router and network settings.

Specifications

Feature	Detail
Brand	Defender
Model Number	21182
Connectivity Technology	Wired
Special Feature	Night Vision
Memory Storage Capacity	1 TB HDD
Camera Resolution	600 TVL
Night Vision Range	110 feet (38 IR LEDs)
Color	Black
Power Source	Corded Electric
Product Dimensions (DVR)	17.9 x 5.5 x 10.8 inches
Item Weight	4.8 pounds
Manufacturer	SVAT Electronics
UPC	061783255544
Date First Available	July 8, 2013

Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or visit the official Defender website. Keep your purchase receipt as proof of purchase for warranty claims.
For further assistance, you may contact Defender customer support directly. Contact details are typically available on the manufacturer's website or in the product packaging.

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