

REVO RU162ABNDL-1

REVO America Ultra 16 Ch. 2TB HDD IP NVR Video Surveillance System User Manual

Model: RU162ABNDL-1

INTRODUCTION

The REVO America Ultra surveillance system offers exceptional video quality, user-friendly operation, and robust networking capabilities. Designed to complement any home or business environment, this system leverages advanced IP technology for superior performance. The RU162ABNDL-1 is a comprehensive, plug-and-play HD surveillance solution, featuring a 16-channel Network Video Recorder (NVR) with a pre-installed 2TB hard disk drive and eight 4MP HD indoor/outdoor bullet cameras. The NVR supports state-of-the-art H.265 compression and 4K video output. REVO Ultra cameras are equipped with optical-grade, IR anti-reflection glass and powerful 4 Megapixel sensors, providing double the resolution of standard 1080P. They also feature commercial-grade "OSRAM" LEDs for clear night vision up to 100 feet in total darkness. Built for outdoor resilience, the cameras can withstand temperatures from -31°F to 140°F. S.M.A.R.T. Technology monitors system health and alerts users to malfunctions. The system's interface is intuitive, accessible via the NVR, mobile app, computer software, or web browser. Setup is simplified with Power over Ethernet (PoE) and Cat 5E cabling, where a single cable handles both power and data between the camera and NVR.

WHAT'S INCLUDED

Your REVO America Ultra surveillance system package includes the following components:

- 16 Channel 4K IP NVR with built-in 16 RJ45 PoE ports
- 8 x 4MP Indoor/Outdoor IP Bullet Cameras
- Pre-installed 2TB Video Surveillance Grade Hard Disk Drive (HDD)
- 8 x 100' Cat 5E Cables
- Mouse
- Power Adapter for NVR
- Ethernet Cable



Figure 1: Package Contents - NVR, 8 cameras, 2TB HDD, and necessary cables and accessories.

SETUP

The REVO America Ultra system is designed for straightforward DIY installation. Follow these simple steps to set up your surveillance system:

1. **Unpack Components:** Carefully remove all items from the packaging and verify against the "What's Included" list.
2. **Connect NVR:** Place the NVR in a secure, well-ventilated location. Connect the NVR to a power source using the provided power adapter. Connect the NVR to your network router using the supplied Ethernet cable for remote access capabilities.
3. **Connect Cameras:** Utilize the 100' Cat 5E cables to connect each 4MP IP bullet camera to the built-in RJ45 PoE ports on the NVR. The PoE functionality means a single cable provides both power and video signal, simplifying wiring.
4. **Connect Display:** Connect a monitor to the NVR via HDMI or VGA for local viewing and configuration.
5. **Initial Setup:** Power on the NVR. Follow the on-screen prompts for initial setup, including setting up administrator passwords and network settings.
6. **Mobile App Setup:** Download the REVO Ultra mobile app on your smartphone or tablet. Follow the app's instructions to add your NVR for remote monitoring. This typically involves scanning a QR code on the NVR or entering its serial number.



Figure 2: REVO America Ultra 16 Channel NVR and 8 4MP IP Bullet Cameras.

For detailed visual instructions, refer to the DIY installation videos provided by REVO America.

OPERATING THE SYSTEM

The REVO Ultra system offers a variety of features for effective surveillance and monitoring:

- **Live View:** Access live video feeds from all connected cameras via the NVR, mobile app, or web browser.
- **4K Recording & Output:** The NVR supports 4K recording and provides 4K video output for crystal-clear imagery.
- **H.265 Compression:** Advanced H.265 video compression ensures efficient storage and bandwidth usage without compromising video quality.
- **Night Vision:** Cameras are equipped with powerful IR LEDs, providing clear night vision up to 100 feet in complete darkness.
- **Smart Alerts & Notifications:** Receive instant notifications via alarms and email for detected events. Configure motion detection zones and sensitivity settings to minimize false alarms.
- **Remote Monitoring:** Use the REVO Ultra mobile app or browser login to view live feeds, review past footage, receive notifications, adjust settings, set alarms, and check motion events from anywhere. The system allows viewing multiple units simultaneously.
- **Corridor View Mode:** Optimize camera views for narrow spaces like hallways, doors, and windows.

4K
16CH NVR

2K
Cameras

IP
Technology

2TB
HDD



Figure 3: System Overview - Highlighting 4K NVR, 2K Cameras, IP Technology, and 2TB Storage.



Figure 4: REVO 4MP Bullet Camera Features - Full HD, Built-in PoE, IP66, Night Vision.

MAINTENANCE

To ensure optimal performance and longevity of your REVO America Ultra surveillance system, regular maintenance is recommended:

- **Clean Cameras:** Periodically clean the camera lenses and housings to remove dust, dirt, or cobwebs that may obstruct the view. Use a soft, damp cloth.
- **Check Connections:** Ensure all cable connections (power, Ethernet, camera) are secure and free from damage.
- **Monitor Storage:** The NVR features a 2TB HDD. Monitor storage capacity and configure recording settings (e.g., motion-triggered recording) to manage space effectively. The system's S.M.A.R.T. Technology helps monitor its own health, including the HDD, and will alert you of any potential malfunctions.
- **Software Updates:** Keep your NVR firmware and mobile app updated. The system supports hassle-free software upgrades via the cloud.
- **Environmental Considerations:** Ensure the NVR is in a well-ventilated area to prevent overheating. While cameras are built for outdoor use, extreme conditions may require additional protective measures.

TROUBLESHOOTING

If you encounter issues with your REVO America Ultra system, consider the following common troubleshooting steps:

- **No Video/Offline Camera:**
 - Check power and Ethernet connections for the camera and NVR.
 - Ensure the Cat 5E cable is not damaged.
 - Verify the camera is properly added and configured in the NVR settings.
- **No Remote Access:**
 - Confirm the NVR is connected to the internet.
 - Check your router settings (firewall, port forwarding if necessary, though usually not required with P2P cloud access).
 - Ensure the mobile app or browser client is updated to the latest version.
- **Poor Video Quality:**
 - Clean the camera lens.
 - Check for obstructions in the camera's field of view.
 - Verify network bandwidth if experiencing lag or pixelation.
- **No Recording:**
 - Check the NVR's recording schedule and motion detection settings.
 - Verify the 2TB HDD is functioning correctly and has sufficient free space.

For persistent issues, please contact REVO America technical support.

SPECIFICATIONS

Feature	Detail
Brand	REVO
Model Number	RU162ABNDL-1
Connectivity Technology	Wired (PoE)
Video Capture Resolution	4 MP (Cameras), 4K (NVR Output)
Special Features	Portable, Night Vision, Motion Sensor, H.265 Compression, S.M.A.R.T. Technology
Number of Channels	16
Memory Storage Capacity	2 TB HDD (Pre-installed)
Color	Black (NVR) & Cameras (White)
Power Source	Corded Electric
Item Dimensions L x W x H	22 x 12 x 18 inches
Operating System	Linux
Recommended Uses	Indoor, outdoor, home, business, commercial, hospitals, schools, office



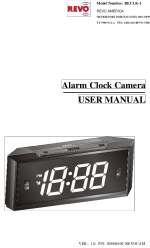

Feature	Detail
Compatible Devices	Desktop, Laptop, Tablet, Smartphone (Android, iOS)
Night Vision Range	100 Feet
Frame Rate	30 fps
Recording Mode	Continuous, Motion Detection
Hardware Interface	Ethernet
Video Input	VGA, HDMI
Item Weight	30 pounds

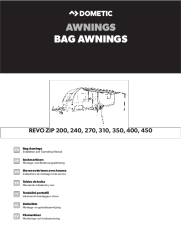

WARRANTY & SUPPORT

REVO America provides comprehensive support for your surveillance system:

- **Warranty:** A 2-year free warranty is provided, which includes free parts replacement.
- **Technical Support:** Lifetime technical support is available. Email replies are typically provided within 24 hours.
- **Phone Support:** You can also call REVO America at: **+1(866) 625-7386** (Mon: 8am-6pm CST, Tue-Fri: 8am-5pm CST).

Related Documents - RU162ABNDL-1

	REVO RW4NVR1 Wireless NVR Kit Product Manual Comprehensive product manual for the REVO RW4NVR1 Wireless NVR Kit, detailing features, specifications, installation, operation, network setup, and maintenance for home and business security.
	Abu Garcia Revo Low Profile Baitcast Reels - Owner's Manual & Specifications Comprehensive guide to the 5th generation Abu Garcia Revo low profile baitcast reels, detailing features, specifications for models X, SX, SX-RKT, STX, Winch, and Rocket, along with casting techniques, maintenance, and warranty information.
	REVO RECLK-1 Alarm Clock Camera User Manual User manual for the REVO RECLK-1 Alarm Clock Camera, detailing safety precautions, package contents, operation instructions, and technical specifications.
	Crimestopper Revo-1 & Revo-4 Series Remote Start System Installation and Operation Guide Comprehensive instructions for installing and operating the Crimestopper Revo-1 and Revo-4 Series 1-Way Remote Start Systems. Covers transmitter functions, battery replacement, and programming procedures for ADS iDatalink and Fortin data modules.

	<p>Dometic REVO ZIP Bag Awnings: Installation and Operating Manual</p> <p>Comprehensive guide for Dometic REVO ZIP bag awnings, covering installation, operation, maintenance, and troubleshooting for models 200 through 450. Essential reading for caravan and motorhome owners.</p>
	<p>Abu Garcia Revo Spinning Reels: Owner's Manual and Specifications</p> <p>Comprehensive owner's manual for Abu Garcia Revo 3rd generation spinning reels, detailing features, specifications, maintenance, and warranty information.</p>