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IC Realtime AVR-1404

IC Realtime AVR-1404 4-Channel Pentabrid DVR Instruction Manual

Model: AVR-1404

1. INTRODUCTION

The IC Realtime AVR-1404 is a 4-channel Pentabrid Digital Video Recorder (DVR) designed for surveillance applications. It supports multiple video input formats, including HD-AVS and IP cameras, with resolutions up to 4MP for analog channels and 6MP for IP channels. This DVR features H.264/H.265 compression for efficient storage, HDMI and VGA outputs for display, and network connectivity for remote access. This manual provides essential information for the proper setup, operation, and maintenance of your AVR-1404 DVR.

2. PRODUCT FEATURES

- Supports 4 analog channels (HD-AVS) and up to 2 additional IP channels, each up to 6MP.
- Video output resolutions up to 1920 x 1080 via HDMI and VGA ports.
- Advanced H.265/H.264 video compression for optimized storage and bandwidth.
- Multiple recording resolutions: 5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF.
- Pentaplex operation for simultaneous live view, recording, playback, backup, and remote access.
- Equipped with 2 USB ports for mouse control and data backup.
- Network connectivity via 1 RJ-45 port supporting various protocols including HTTP, TCP/IP, P2P, and more.
- Supports motion detection, video loss, and tampering detection trigger events.
- Compact Mini 1U desktop design.

3. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon unpacking:

- IC Realtime AVR-1404 DVR Unit
- Power Adapter
- USB Mouse
- Screws for Hard Drive Installation

- Quick Start Guide (this manual)

4. PHYSICAL OVERVIEW

4.1 Front Panel



The front panel features the IC Realtime branding and a USB port for connecting a mouse or USB storage device.



A direct front view of the DVR, highlighting the clean design and accessible front USB port.

4.2 Rear Panel



The rear panel provides all necessary connection ports:

- **VIDEO IN (BNC):** 4 channels for HD-AVS cameras.
- **AUDIO IN (RCA):** 4 channels for audio input.
- **AUDIO OUT (RCA):** 1 channel for audio output.
- **HDMI Port:** For connecting to an HDMI display.
- **VGA Port:** For connecting to a VGA display.
- **RJ-45 Ethernet Port:** For network connection.
- **USB Ports:** Additional USB ports for peripherals.
- **DC12V Power Input:** For connecting the power adapter.
- **ON/OFF Switch:** Power control for the unit.

5. SETUP

5.1 Hard Drive Installation (Optional)

The DVR typically requires a hard drive for recording. If not pre-installed, follow these steps:

1. Unscrew and remove the top cover of the DVR.
2. Connect the SATA data and power cables from the DVR to the hard drive.
3. Secure the hard drive to the DVR chassis using the provided screws.
4. Replace the top cover and secure it with screws.

5.2 Connecting Cameras

- **HD-AVS Cameras:** Connect BNC cables from your HD-AVS cameras to the 'VIDEO IN' BNC ports on the rear panel.
- **IP Cameras:** IP cameras are connected via the network. Ensure IP cameras are on the same network as the DVR and configured correctly. Refer to the DVR's on-screen interface for adding IP cameras.

5.3 Connecting Display and Peripherals

- Connect a monitor to the DVR using either an HDMI or VGA cable.
- Connect the USB mouse to one of the USB ports (front or rear).
- For network access, connect an Ethernet cable from the DVR's RJ-45 port to your router or network switch.

5.4 Powering On

Connect the power adapter to the DC12V input on the rear panel, then plug the adapter into a power outlet. Flip the ON/OFF switch to the 'ON' position. The DVR will power on and boot up.

6. OPERATING INSTRUCTIONS

6.1 Initial Configuration

Upon first boot, the DVR will guide you through an initial setup wizard. This typically includes setting the system language, date/time, network settings, and creating an administrator password. It is crucial to set a strong password for security.

6.2 Live View

After initial setup, the DVR will display the live view of connected cameras. You can switch between single-camera view and multi-camera grid views using the on-screen controls or mouse.

6.3 Recording Setup

Access the 'Record' menu from the main interface to configure recording settings:

- **Schedule Recording:** Set specific times for continuous recording.
- **Motion Detection Recording:** Configure motion detection zones and sensitivity for event-triggered recording.
- **Alarm Recording:** Link recording to external alarm inputs (if applicable).

6.4 Playback

To review recorded footage, navigate to the 'Playback' menu. You can search by date, time, event type (motion, alarm), and camera channel. Playback controls include play, pause, fast forward, rewind, and digital zoom.

6.5 Network Access and Remote Viewing

The DVR supports remote viewing via a web browser or dedicated mobile application. Ensure the DVR is connected to the internet and network settings (IP address, port forwarding, P2P) are correctly configured. Refer to the DVR's network settings menu for details on enabling P2P or configuring port forwarding on your router.

7. MAINTENANCE

7.1 Data Backup

Regularly back up important recorded footage to an external USB drive or network storage. Access the 'Backup' menu to select footage and initiate the backup process.

7.2 Firmware Updates

Periodically check the IC Realtime website for firmware updates. Firmware updates can improve performance, add features, and address security vulnerabilities. Follow the provided instructions carefully when performing an update.

7.3 Cleaning

Keep the DVR free from dust and debris. Use a soft, dry cloth to clean the exterior. Ensure ventilation openings are not blocked to prevent overheating.

8. TROUBLESHOOTING

- No Video Output:** Check HDMI/VGA cable connections, ensure monitor is on and set to correct input. Verify DVR is powered on.
- No Camera Image:** Check camera power supply and cable connections (BNC for HD-AVS, network for IP). Ensure IP cameras are correctly added and configured in the DVR settings.
- No Recording:** Verify hard drive is installed and initialized. Check recording schedule and motion detection settings. Ensure hard drive is not full.
- Network Connection Issues:** Check Ethernet cable connection. Verify network settings (IP address, gateway, DNS) in the DVR. Test network connectivity from the DVR's system menu.
- Forgot Password:** Refer to the IC Realtime support documentation or contact technical support for password reset procedures.

9. SPECIFICATIONS

Feature	Specification
Model Number	AVR-1404
Video Input	4 Channel BNC (HD-AVS), 4+2 Channel IP (up to 6MP per channel)
Video Compression	H.265/H.264
Record Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF

Feature	Specification
Display Output	1 HDMI, 1 VGA
Display Resolution	1920 x 1080, 1280 x 1024, 1280 x 720
Audio Input/Output	RCA (4 In / 1 Out), Two-way Talk (reuse audio in/out)
Network Interface	1 RJ-45 Port (10/100Mbps)
USB Ports	2 (for mouse, backup)
Max. User Access	128 Users
Backup Mode	USB Device / Network
Power Supply	DC12V/2A
Power Consumption	Less than 10W (without HDD)
Dimensions (W x D x H)	325mm x 255mm x 55mm (12.8" x 10" x 2.2")
Item Weight	10 pounds
Operating Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official IC Realtime website or contact their customer support directly. Keep your purchase receipt as proof of purchase for warranty claims.