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- › [NEUMITECH](#) /
- › [NEUMI Atom 4K Lite Ultra-HD Digital Media Player Instruction Manual](#)

## NEUMITECH Atom 4K Lite

# NEUMI Atom 4K Lite Ultra-HD Digital Media Player Instruction Manual

Model: Atom 4K Lite

Brand: NEUMITECH

## INTRODUCTION

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This manual provides detailed instructions for the setup, operation, and maintenance of your NEUMI Atom 4K Lite Ultra-HD Digital Media Player. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your user experience.

## SAFETY INFORMATION

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Observe the following safety guidelines to prevent damage to the device or personal injury:

- Do not expose the device to water, moisture, or extreme temperatures.
- Use only the power adapter provided with the device.
- Do not attempt to disassemble, modify, or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device and its accessories out of reach of children.
- Ensure proper ventilation around the device during operation.

## PACKAGE CONTENTS

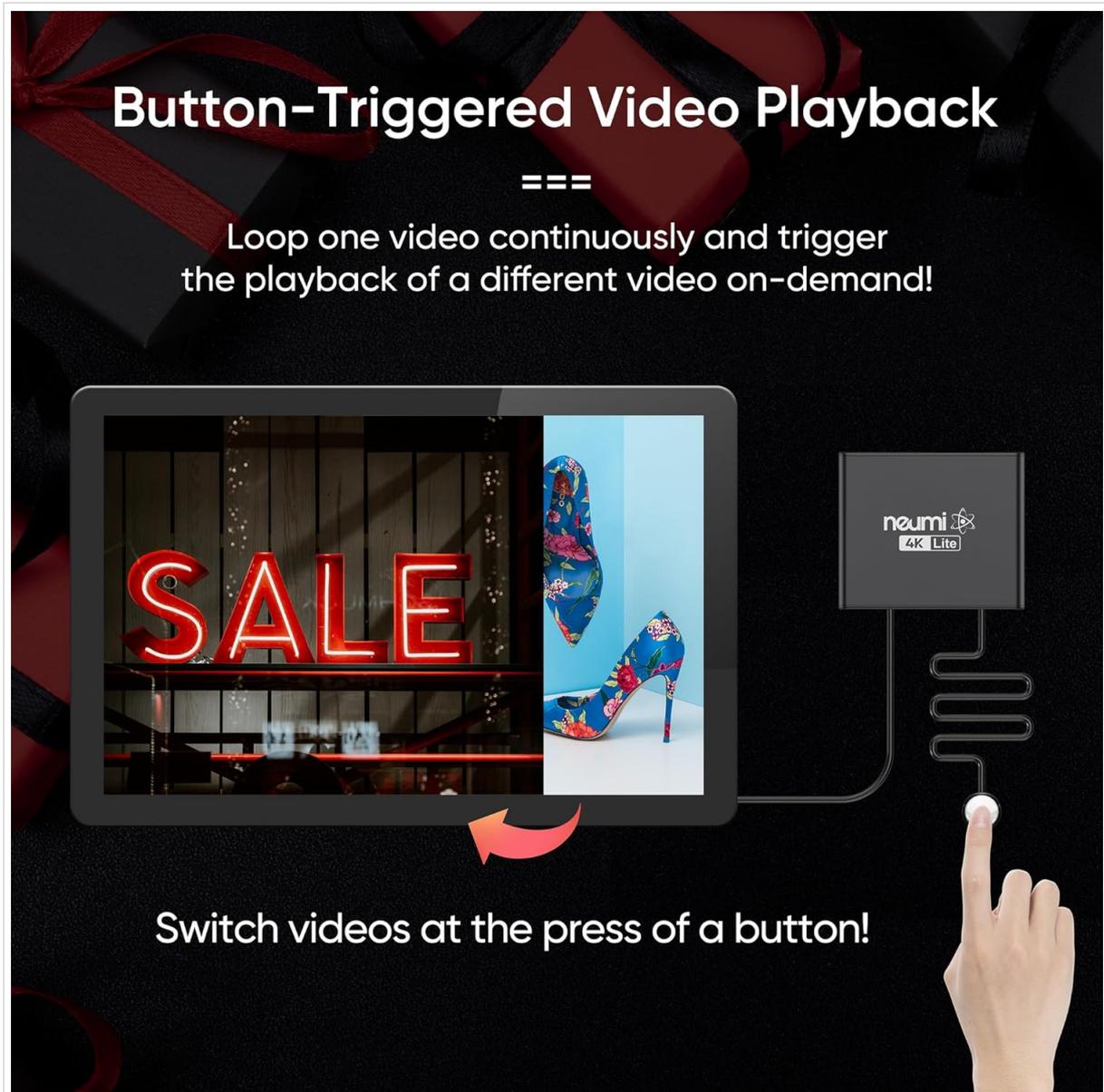
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Verify that all items are present in your package:

- NEUMI Atom 4K Lite Digital Media Player
- Remote Control
- Power Adapter
- HDMI Cable
- Motion Sensor
- Push Button Trigger
- User Manual (this document)

## PRODUCT OVERVIEW

The NEUMI Atom 4K Lite is a compact Ultra-HD digital media player designed to play videos, photos, and music from USB drives and SD cards. It features HDMI output for 4K resolution, analog AV output, and trigger sensor inputs for interactive playback.



**Figure 1:** Front and Rear Panel Interfaces of the NEUMI Atom 4K Lite. The front panel includes a USB port, LED indicator, IR receiver, and SD/MMC card slot. The rear panel features AV output, Trigger Sensor input, HDMI output, and a DC 5V power jack.

### Key Components:

- **USB Port:** For connecting USB flash drives or hard drives (up to 8TB).
- **SD/MMC Card Slot:** For inserting SD cards (up to 1TB).
- **HDMI Output:** Connects to a TV or monitor for up to 4K/60Hz video and digital audio.
- **AV Output:** Connects to older TVs or stereo systems using a 3.5mm to RCA cable (not included).
- **Sensor Input:** For connecting the motion sensor or push button trigger.
- **DC 5V Power Jack:** For connecting the power adapter.
- **IR Receiver:** For remote control signals.

## SETUP

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### 1. Connect to Display:

Connect the NEUMI Atom 4K Lite to your TV or monitor using the provided HDMI cable for 4K video and digital audio. Alternatively, use an AV cable (not included) for analog video and audio output to older displays. Ensure your TV's input source is set to the corresponding HDMI or AV input.

### 2. Insert Media:

Copy your desired video, photo, or music files onto a USB flash drive, external hard drive, or SD card. Insert the USB drive into the USB port or the SD card into the SD/MMC slot on the player.



**Figure 2:** Inserting a USB drive and SD card into the NEUMI Atom 4K Lite. The device supports USB drives up to 8TB and SD cards up to 1TB.

### 3. Connect Power:

Connect the provided power adapter to the DC 5V power jack on the player, then plug it into a wall outlet. The device will power on automatically.

### 4. Connect Trigger Sensors (Optional):

If using the motion sensor or push button trigger, connect it to the "SENSOR" input jack on the player.



Figure 3: NEUMI Atom 4K Lite bundle showing the player, remote, motion sensor, and push button trigger. These accessories connect to the player's sensor input.

## OPERATING INSTRUCTIONS

### Basic Playback

1. **Power On:** The device will power on automatically when connected to power.
2. **Navigate Menu:** Use the remote control's arrow keys and "OK" button to navigate the on-screen menu.
3. **Select Media:** Browse your USB drive or SD card to select the desired video, photo, or music file.
4. **Play:** Press "OK" to start playback.

### Automatic Playback and Looping

The Atom 4K Lite supports fully automatic playback, ideal for digital signage applications.

- **Enable Automatic Playback:** Access the system settings via the remote control and enable the automatic playback feature.
- **Continuous Looping:** The device can be configured to continuously loop a single video or a playlist of videos.
- **Resume Playback:** The player remembers the last stop point of a video and can resume playback from there.

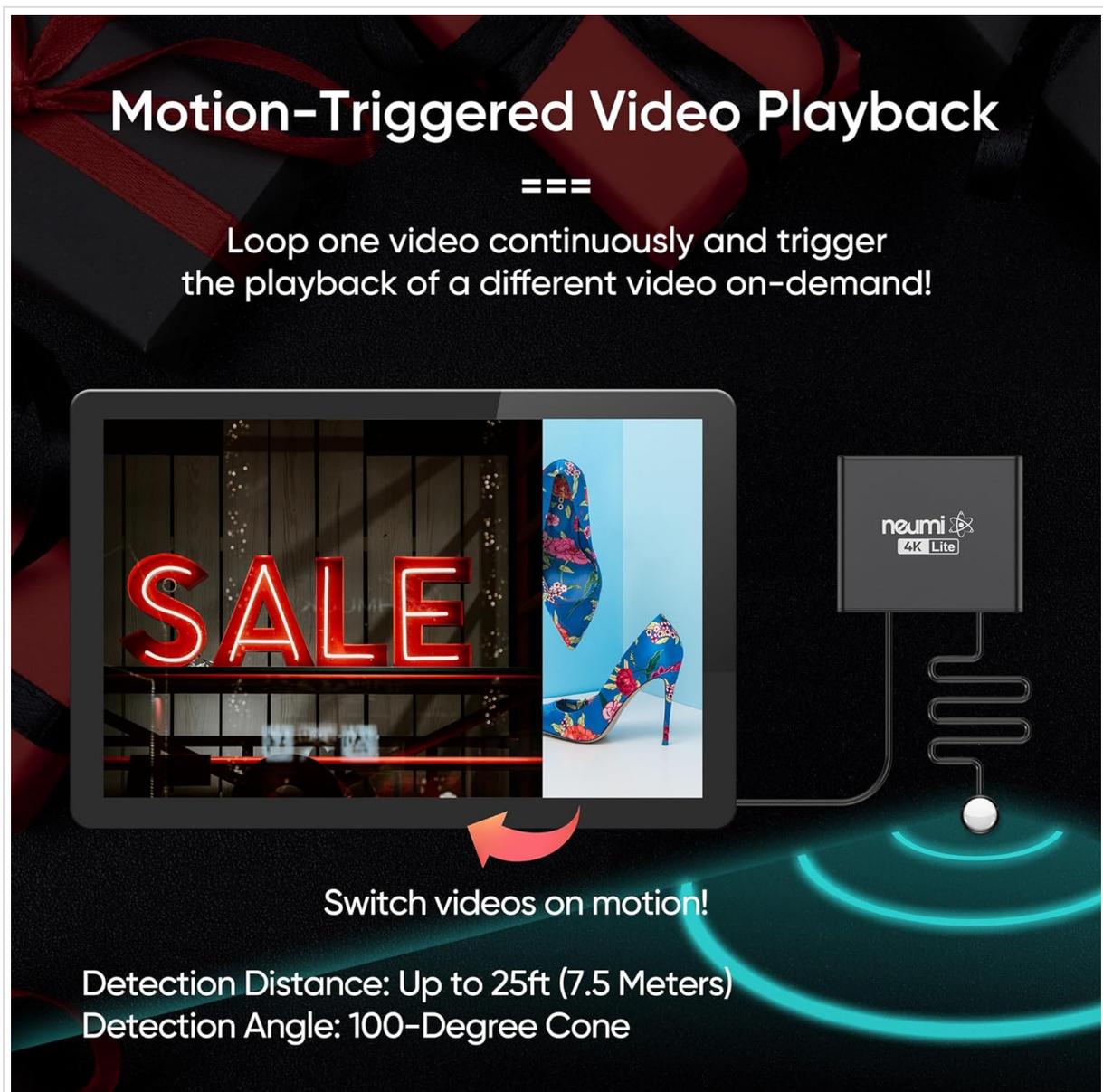
## Trigger Sensor Operation

The NEUMI Atom 4K Lite can play different videos based on input from a motion sensor or push button trigger.

### Configuration Steps:

1. **Connect Sensor:** Ensure the motion sensor or push button is connected to the "SENSOR" input.
2. **Prepare Media:**
  - For continuous looping, name your main video file loop.mp4 (or other supported format) and place it in the root directory of your USB drive or SD card.
  - For triggered playback, name your trigger video files sequentially, e.g., trigger01.mp4, trigger02.mp4, etc., and place them in the root directory.
3. **Set Trigger Mode:** In the player's settings, configure the sensor input to "trigger play" mode.

When configured, the player will continuously loop loop.mp4. Upon activation of the connected sensor (motion detected or button pressed), it will play trigger01.mp4 (or the next sequential trigger video) and then return to looping loop.mp4.

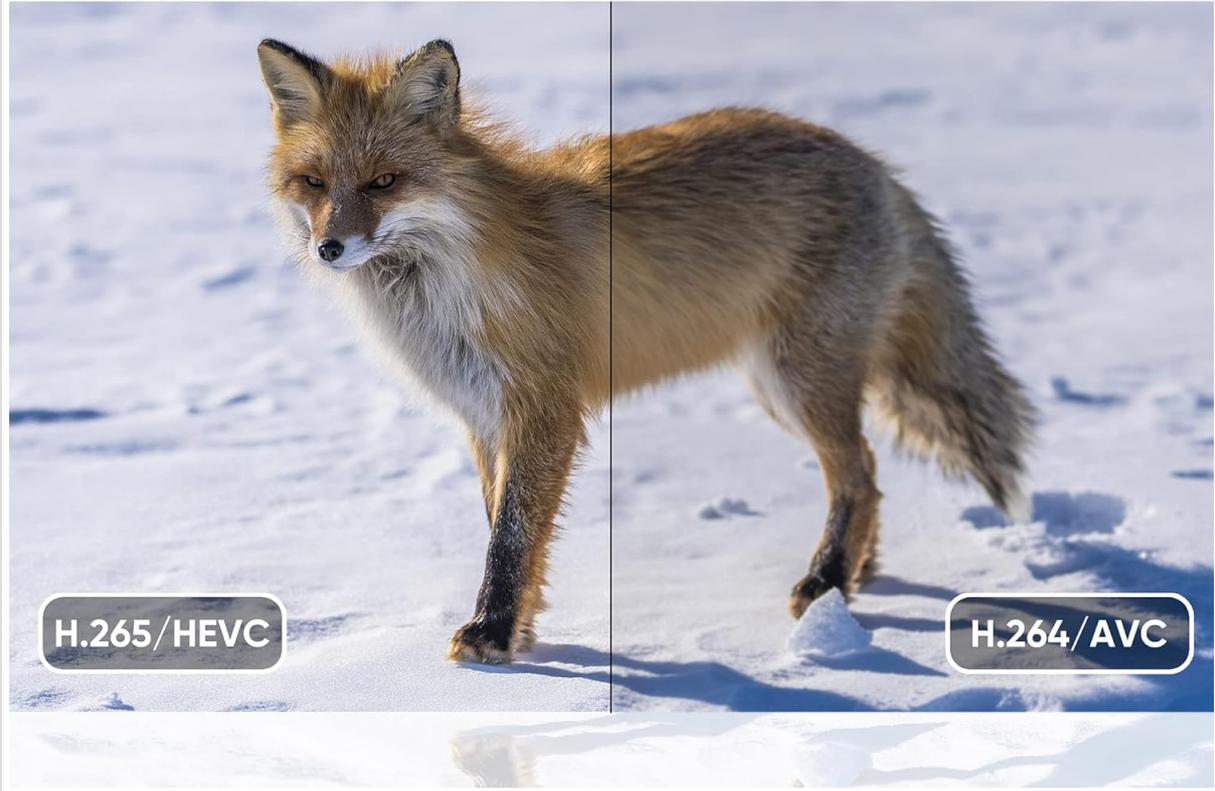


**Figure 4:** Illustration of Motion-Triggered Video Playback. A main video loops continuously, and a different video is played when motion is detected by the connected sensor. Detection distance is up to 25ft (7.5 meters) with a 100-degree cone angle.

# H.265/HEVC Support

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The ATOM 4K Lite plays modern video codecs:  
H.265/HEVC at up to 4K/30fps and 200mbps  
Superior visual quality, sharp details, and vibrant colors



**Figure 5:** Illustration of Button-Triggered Video Playback. A main video loops continuously, and a different video is played when the connected push button is pressed.

## Remote Control Functions

The included remote control allows full navigation and control of the media player:

- **Power Button:** Turns the player on/off.
- **Gear Icon:** Accesses system settings.
- **Arrow Keys (Up/Down/Left/Right):** Navigation within menus.
- **OK Button:** Selects items, plays media, confirms actions.
- **Home Button:** Returns to the main menu.
- **Back Button:** Returns to the previous screen or menu.
- **Menu Button:** Accesses context-sensitive options.
- **Playback Controls (Play/Pause, Stop, Fast Forward/Rewind):** Controls media playback.
- **Volume Up/Down:** Adjusts audio volume.

## MEDIA FORMAT SUPPORT

The NEUMI Atom 4K Lite supports a wide range of media formats:

# Rich Interface Configuration

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The ATOM 4K Lite has a USB port, SD card reader, trigger button sensor port, HDMI, and AV output.

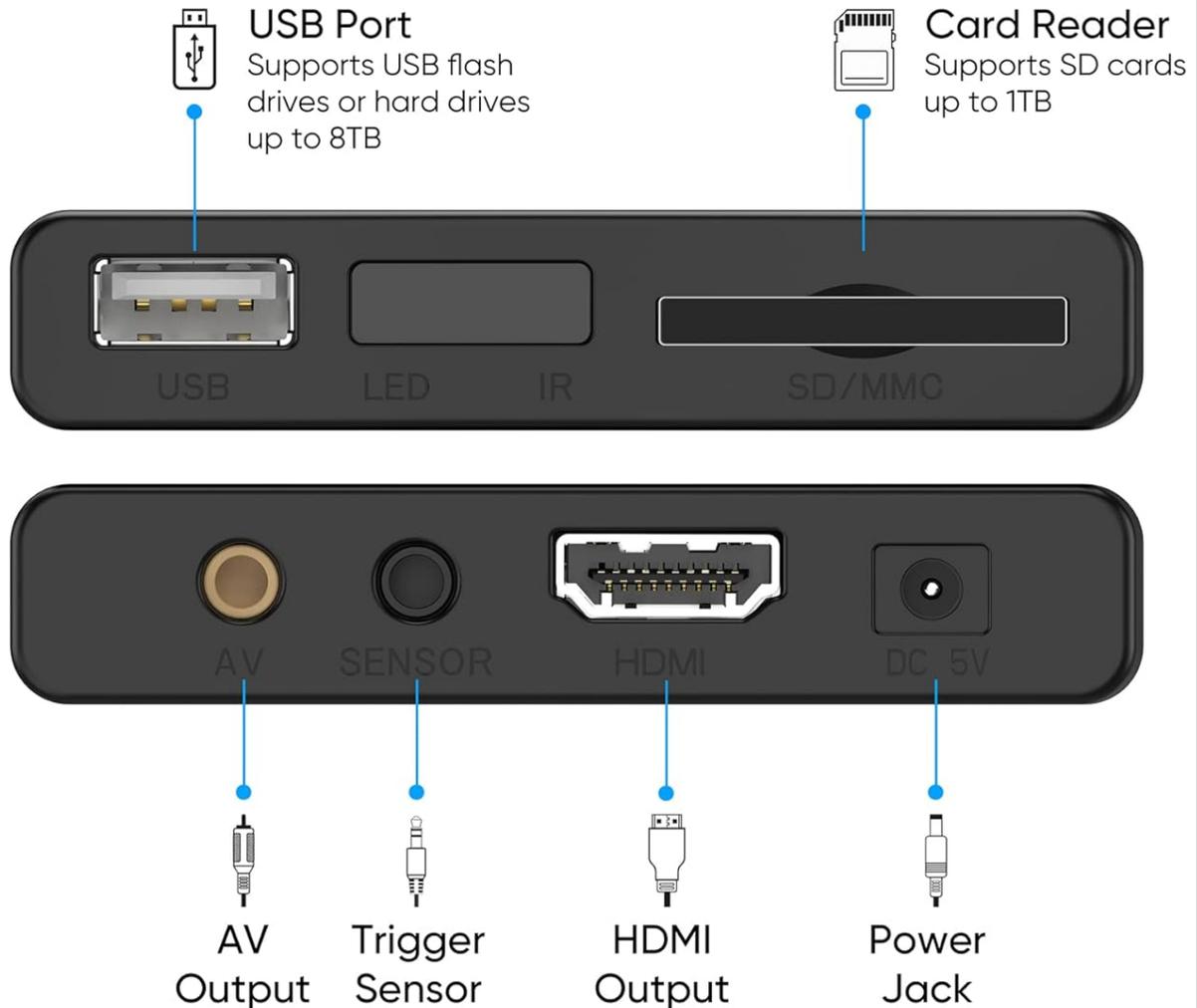


Figure 6: Supported Media Formats. The NEUMI Atom 4K Lite is compatible with various video, photo, and music file types.

## Video Support:

- **Container Files:** MP4, MKV, AVI, TS/TP, MOV, VOB, M2TS, WMV
- **Codecs:**
  - H.265/HEVC, H.264/AVC, VC1, MPEG2/4
  - Up to 4096x2304p@30fps resolution
  - 10-bit color, up to 200mbps bitrate

# Enjoy Videos, Photos, and Music

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## Video File Support

- o Container files: MKV, MP4, MOV, VOB, AVI, TS, M2TS, WMV
- o MPEG1, MPEG2, MPEG4/ASP, VP8 – maximum 1920x1080@60fps, 50mbps
- o H.264/AVC, H.265/HEVC – maximum 4096x2304@30fps, 2048x1080@60fps, 200mbps

## Music File Support

- o Formats: MP3, FLAC, OGG, APE, AAC
- o Bitrate: 32kbps to 320kbps

## Photo File Support

- o Formats: JPG, PNG, GIF (non-animated), BMP

Figure 7: H.265/HEVC Support. The player supports modern video codecs like H.265/HEVC for superior visual quality at up to 4K/30fps and 200mbps.

## Photo Support:

- JPG, JPEG, BMP, GIF (non-animated), PNG

## Music Support:

- MP3, WMA, OGG, FLAC, APE, AAC

**Supported File Systems:** FAT32, exFAT, NTFS.

## MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your device:

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the device. Do not use liquid cleaners, aerosols, or abrasive materials.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Firmware Updates:** Periodically check the official NEUMITECH website for available firmware updates to ensure the latest features and performance enhancements.

## TROUBLESHOOTING

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If you encounter issues with your NEUMI Atom 4K Lite, refer to the following common problems and solutions:

### No power/Device does not turn on:

Ensure the power adapter is securely connected to the device and a working power outlet. Verify the power outlet is active. Try a different power outlet.

### No video output:

Check the HDMI or AV cable connection between the player and your TV/monitor. Ensure the TV input source is set correctly (e.g., HDMI 1, AV). Try a different HDMI port or cable. Restart both the player and the TV.

### No audio output:

Verify the volume on the player and your TV/audio system is not muted or set too low. Check audio settings on the player. If using AV, ensure the audio cables are correctly connected to the appropriate input on your audio system or TV.

### Media files not playing:

Ensure the media files are in a supported format (refer to "Media Format Support" section). Check if the USB drive or SD card is properly inserted and formatted with a supported file system (FAT32, exFAT, NTFS). Try a different USB drive or SD card. Ensure the files are not corrupted.

### Trigger sensor not working:

Ensure the sensor is securely connected to the "SENSOR" input. Verify that the trigger mode is correctly configured in the player's settings. Check the file naming convention for loop.mp4 and triggerXX.mp4 files in the root directory of your media storage. Ensure the sensor is not obstructed.

## SPECIFICATIONS

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Feature	Detail
Model Name	NEUMI Atom 4K Lite
Video Output	HDMI (up to 4K/60Hz), Analog AV
Supported Storage	USB Drives (up to 8TB), SD Cards (up to 1TB)
File Systems	FAT32, exFAT, NTFS
Video Codecs	H.265/HEVC, H.264/AVC, VC1, MPEG2/4
Max Video Resolution	4096x2304p@30fps
Special Features	Motion Sensor Input, Push Button Trigger Input, Automatic Playback, Continuous Looping, Resume Playback
Power Input	DC 5V
Color	Black

## WARRANTY AND SUPPORT

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For detailed warranty information, product registration, and technical support, please visit the official NEUMITECH website or contact their customer service department directly. Keep your purchase receipt as proof of purchase for any warranty claims.