

# Nº5101

STREAMING SACD PLAYER/DAC OWNER'S MANUAL

mark   
LEVINSON



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## OVERVIEW

### **INTRODUCING THE MARK LEVINSON N°5101**

Congratulations on your purchase of the Mark Levinson N°5101 Network Streaming SACD player and DAC.

The N°5101 pairs decades of superlative audio engineering with the latest advancements to deliver unmatched performance and value. With a bold new industrial design, PrecisionLinkII DAC, and multiple control options, the N°5101 delivers luxurious fidelity with premium features and flexibility. The Mark Levinson N°5101 is proudly designed and engineered in the USA.

### **Super Audio CD Playback**

The N°5101 features precision transport and playback of all major file formats including SACD, CD-A, CD-R and CDRW. It supports FLAC, WAV, AIFF, OGG, MP3, AAC and WMA. The Mark Levinson PrecisionLink II DAC and PurePath analog circuitry ensure that DSD content is flawlessly converted and presented through the N°5101's analog outputs.

### **Network Streaming**

The N°5101 can stream from NAS drives connected to the same network as the N°5101, as well as receive streaming audio from DLNA and UPnP devices connected to the network.

### **USB Drive Playback**

The N°5101 can navigate and playback audio files from a USB flash drive connected to the USB type-A input.

### **DAC**

The N°5101 features outstanding digital audio capability with the Mark Levinson PrecisionLink II DAC. The latest generation ESS PRO Sabre 32-bit D/A converter with jitter elimination circuitry and a fully balanced, discrete current-to-voltage converter form the heart of the digital audio processing stage. With one coaxial and one optical S/PDIF digital input, the N°5101 serves as a premium stand-alone DAC for digital sources.

In addition the N°5101 has one coaxial and one optical S/PDIF digital output which will pass a PCM stereo signal through to a device such as a Mark Levinson N°5802 or N°5805 integrated amp.

### **Control**

System integration and communication ports include IP (Ethernet), RS-232, IR input, and 12V trigger input. A newly designed, aluminum IR remote is included with the N°5101.

### **Industrial Design**

Robust materials, lavish finishes and bold geometry are celebrated attributes of Mark Levinson designs. One-inch thick solid aluminum front panels are bead-blasted, black-anodized, and machine contoured to flow seamlessly into the sleek glass display, which itself is recessed into a bead-blasted and clear-anodized aluminum bezel. Meticulous artistry is evident in the fine details including debossed top cover vents, screen printing behind the glass panel and aluminum buttons – all resting on matching custom aluminum feet.

For the most up to date manual, firmware and supporting material, please visit [www.marklevinson.com](http://www.marklevinson.com)

# INSTALLATION

## UNPACKING

When unpacking your N°5101:

- Save all packing materials in case you need to ship your N°5101 in the future.
- Inspect your N°5101 for signs of damage during shipment. If you discover damage, contact your authorized Mark Levinson® dealer for assistance in making appropriate claims.
- Locate and remove the accessories from the shipping carton. Make sure that all of the items listed below are included. If any are missing, contact your authorized Mark Levinson dealer.
  - 1 x IEC power cord (terminated according to the region to which the unit is shipped)
  - 1 x Remote control plus 2 x AAA batteries
  - 1 x Owner's Manual
  - 1 x Safety information sheet
  - 1 x WiFi antenna

Please register your N°5101 within 15 days of your purchase. Register online at [www.marklevinson.com](http://www.marklevinson.com). Retain your original, dated sales receipt as proof of warranty coverage.

## PLACEMENT AND VENTILATION

- To ensure proper ventilation, DO NOT install the N°5101 on top of an amplifier or other heat source.
- Ensure that you install the N°5101 on a flat and level surface.
- Select a dry, well-ventilated location that is out of direct sunlight.
- DO NOT expose the N°5101 to high temperatures, humidity, steam, smoke, dampness, or excessive dust.
- DO NOT place the N°5101 in an enclosed space such as a bookcase or closed cabinet unless there is adequate ventilation. The N°5101 is designed to run warm during normal operation.
- DO NOT place any other component or item on top of the N°5101 as this may obstruct airflow, causing the player to run hot.
- Make sure the remote-control receiver on the front panel display is unobstructed, otherwise this will impair the use of the remote-control.

## POWER REQUIREMENTS

Connection to an AC voltage other than that for which the N°5101 is intended can create a safety and fire hazard and may damage the unit. If you have any questions about the voltage requirements for your N°5101 or about the line voltage in your area, contact your authorized Mark Levinson dealer before plugging the N°5101 into an AC power outlet.

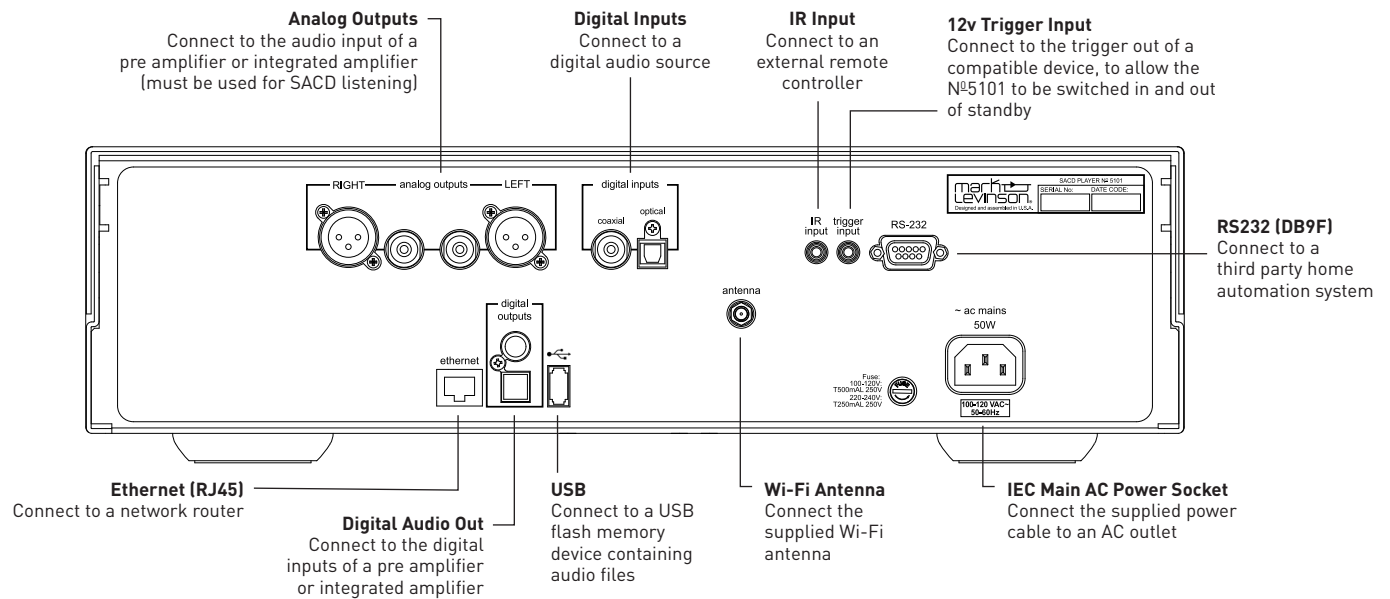
**WARNING! MAKE SURE all components in the audio system are properly grounded. DO NOT defeat the safety purpose of polarized or grounding-type plugs with “ground-lifter” or “cheater” adapters. Doing so may cause a dangerous voltage to build up between components, which may result in personal injuries and/or product damage.**

Unplug the N°5101 from the AC wall outlet during lightning storms and extended periods of non-use.

**CAUTION: Before moving the unit, make sure it is powered off by removing the power cord from the AC power outlet and the unit's rear panel.**

# CONNECTIONS

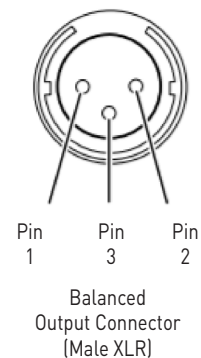
## REAR-PANEL OVERVIEW N<sup>o</sup>5101



## EXTERNAL COMPONENT CONNECTIONS

**Analog Audio Output Connectors:** These balanced XLR and single ended RCA jacks provide a line-level left-channel and right-channel signal that can be used to send the selected input to a pre-amplifier or integrated amplifier.

**NOTE:** The analog outputs must be used to listen to the SACD layer of a Super Audio Compact Disc.



Balanced connector pin assignments:

- Pin 1: Signal ground
- Pin 2: Signal + (non-inverting)
- Pin 3: Signal - (inverting)

**Digital Audio Inputs:** The N<sup>o</sup>5101 has a coaxial and an optical S/PDIF digital audio input allowing the N<sup>o</sup>5101 to function as a stand alone DAC.

**Digital Audio Outputs:** The digital audio outputs (optical or coaxial) provide a PCM (Pulse-Code Modulation) stereo signal to the digital input of your device, such as a Mark Levinson N<sup>o</sup>5805 or N<sup>o</sup>5802 integrated amplifier. DSD (Direct Stream Digital) formatted audio will not be routed to the digital outputs due to copy protection requirements.

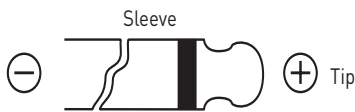
**S/PDIF:** Supports PCM sources up to 24bit /192k.

**USB Port:** This USB Type-A connector allows PCM audio playback from USB flash drives and can also be used for software updates.

**IR Input Connector:** This connector accepts IR (infrared) control signals (RC5). See [www.marklevinson.com](http://www.marklevinson.com) for IR code data.

**NOTE:**

- The remote control input requires a mono 3.5mm jack, with the tip active and the sleeve grounded.
- The remote control signals must be in modulated RC5 format (at 36kHz), with a voltage level of between 5V and 12V.
- The tip is the modulated signal, while the sleeve is the ground.



**RS232 Port:** This DB9F connector provides serial control through a standard RS232 protocol. See [www.marklevinson.com](http://www.marklevinson.com) for RS232 code protocol.

**Trigger Input Connector:** This 3.5mm tip/sleeve connector can be connected to the trigger output of another system component or control system that supplies a trigger voltage. Whenever the unit detects a voltage between 5V and 12V DC at this connection it will turn ON. When the trigger signal at this connection ceases the N°5101 will enter the Standby mode. (See illustration below.)



**AC Mains Connector:** This connector provides AC power to the N°5101 when the supplied power cord is connected from it to an AC electrical outlet. This should be the LAST connection you make in the hookup process.

We recommend that you unplug the unit from the AC wall outlet during lightning storms and extended periods of non-use.

**Network:** Ethernet cable can be used to connect the N°5101 to a router or switch on your home network, enabling playback of audio stored on your computer or NAS device.

**NOTE:** Connecting an Ethernet cable will disable the wireless function.

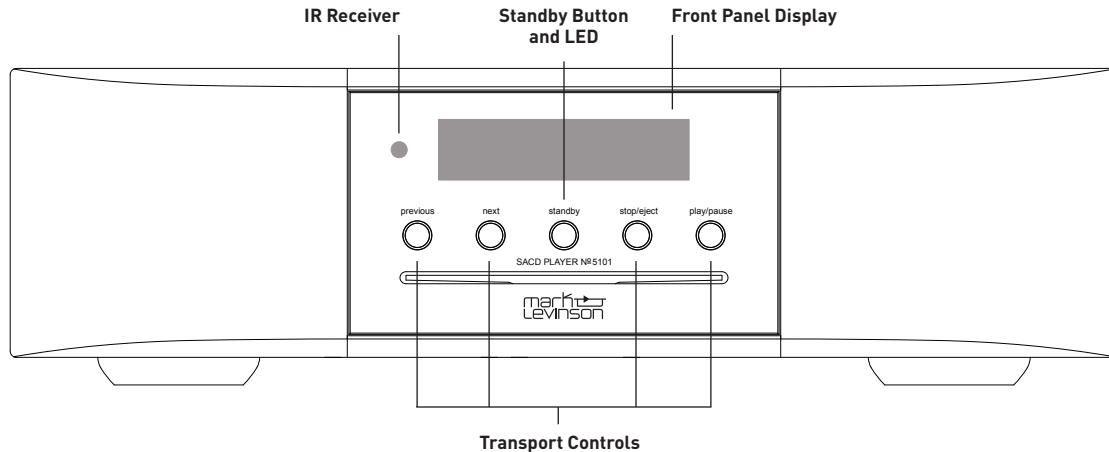
Wireless connection is also available, and may be configured through the settings menu.

The N°5101 can also be controlled by a home automation system, using external commands.

Please visit [www.marklevinson.com](http://www.marklevinson.com) for further information.

# CONTROL

## FRONT-PANEL OVERVIEW



**Standby Button And LED:** Press this button to put the N°5101 into and out of the Standby mode. The LED illuminates steady RED when the unit is On. When the unit is in the standby state, the LED flashes slowly.

**IR Receiver:** The IR receiver receives commands from the included remote control when the rear-panel IR input is not being used.

**Front Panel Display:** This 32-character alphanumeric display provides information about the N°5101's operating status. The top row will display non selectable information. The bottom row will display selectable menu items.

**Transport Controls:** Use to play and navigate CD and Media tracks.



## OPERATION

The N°5101 was designed in a modern elegant style for ergonomic simplicity. It is designed to be used with the remote control or third party control system for all but the most basic functions. This section explains how to play audio discs, network content, audio files stored on USB media and audio from external digital sources. Note that it may be necessary to configure your player correctly for your system before optimum – or any – playback can be achieved. Player configuration is described in the “Settings Menu” on page 10.

### Switching On

Switch the unit on by pressing the **Standby** button on the front panel. The LED illuminates steady RED when the unit is On. When the unit is in the standby state, the LED flashes slowly. Use the **Standby** button on the remote control to toggle in and out of standby. If power is lost the unit will retain its standby state.

### Playing a Disc

Gently insert the disk into the slot loader. When the **Disc Autoplay** setting is set to **ON** (the default setting), playback starts automatically after it has loaded. For discs that do not play automatically, press play/pause on the front panel or ►/|| on the remote control.

### Transport Control

The following front panel controls are available during audio playback:

**STOP/EJECT:** Press the ■/▲ button to stop playback. Press the ■/▲ button again to eject the disc.

**PLAY/PAUSE:** Press the ►/|| button to pause playback. To resume playback, press the ►/|| button again.

**SKIP:** To skip tracks, press ►| or |◀. When skipping back, the first button press takes you to the beginning of the current track. Pressing the button again takes you to the start of the previous track.

### Playing From a Network

Make sure the N°5101 is connected to your local network (see connecting to a network on page 10). Press the **Home** button on the remote control. Use the ▲▼ to select **Media Browser**. The N°5101 will search for connected media. Once connected media is discovered, the user will be presented with a list of devices available for browsing. Navigate the available libraries using the navigation keys on your remote.

Network music playback may also be controlled from your computer, phone or mobile device using your UPnP control application.

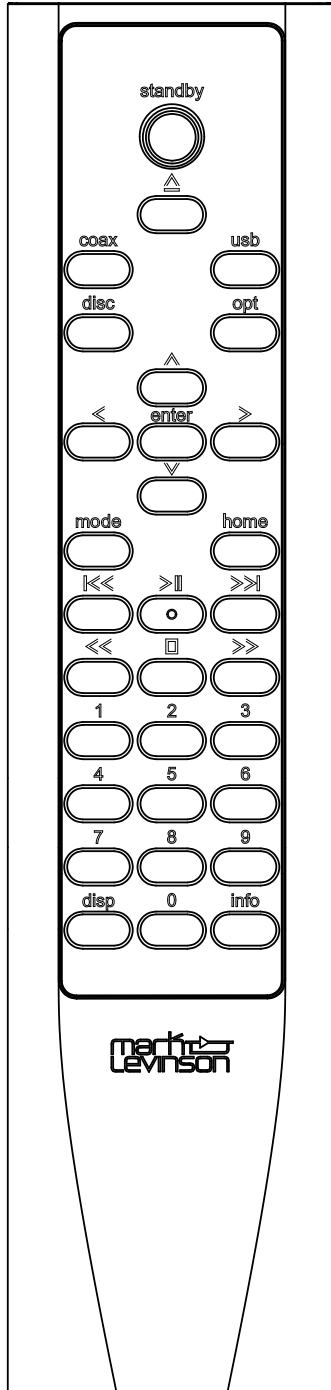
Pressing **Enter** on a bottom row “highlighted” audio file will access the file for playback. Playback will continue through all subsequent tracks in the playback directory.

### Playing From USB

Connect your USB device to the USB jack to the rear of the N°5101. After the device has been recognized select **USB** from the home screen, then press **Enter**.

Navigate directories using the keys on the remote and begin playback of a highlighted audio file by pressing **Enter** or ►. Playback will continue through all subsequent tracks in the playback directory. If audio is organized into folders, use the ◀ and ► to scroll folder names and the ▲▼ to scroll tracks within the folder. Pressing **Enter** on a bottom row “highlighted” audio file will access the file for playback. Playback will continue through all subsequent tracks in the folder.

## REMOTE CONTROL OVERVIEW



**Standby:** Press this button to put the N°5101 into and out of the standby mode.

**Eject:** Press this button to eject the disc.

**Coax:** Press this button to select the coaxial RCA digital input as the source.

**USB:** Press this button select a connected USB flash drive as a source.

**Disc:** Press this button to select the disc as the playback source.

**Opt:** Press this button to select the optical (TOSLINK) digital input as the source.

**Enter:** Press enter to select the highlighted menu option in lower field.

▲: Use this to navigate menu up.

◀: Use this to navigate menu left (back).

▶: Use this to navigate menu right (forward).

▼: Use this to navigate menu down.

**Mode:** Cycle though playback modes (random, repeat one, repeat all).

**Home:** Use this to go to the top of the menu.

**Play/Pause:** Play or pause selected track.

**Numeric Keypad:** Select track number.

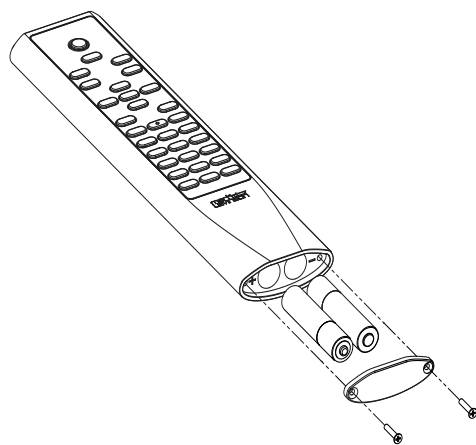
**Disp:** Use this to access display settings.

**Info:** Use this to access info menu.

## REMOTE CONTROL OPERATION

### Battery Installation

Your N°5101 remote control comes with two AAA alkaline batteries. To install the batteries, use the included hex tool to remove the battery cover, insert the batteries and replace the battery cover and hex screws. Be sure to observe proper battery polarity.



### Using the Remote Control

When using the remote control, aim it toward the unit's front panel IR receiver. Make sure that no objects, such as furniture, blocks the remote's line of sight to the receiver. Bright lights, fluorescent lights, and plasma video displays may interfere with the function of the remote.

- The remote has a range of about 17 feet (5m), depending on the lighting conditions.
- You can use the remote at an angle of up to 45° on either side of the unit.
- Placing the N°5101 behind tinted glass will reduce the remote control's effective range.

If the remote control operates intermittently, replace both batteries with new ones.

### Supported File Types

The following file formats are supported, over disc, USB and network:

<b>FLAC</b>	Up to 24 bit/192kHz
<b>WAV</b>	Up to 24 bit/192kHz
<b>AAC</b>	Up to 24 bit/96kHz
<b>AIFF</b>	Up to 24 bit/192kHz
<b>OGG</b>	Up to 24 bit/192kHz
<b>MP3</b>	Up to 320kbps/48kHz
<b>WMA</b>	Up to 192kbps/48kHz

## CONTROL

The N<sup>o</sup>5101 is highly flexible and allows a variety of means of setup and control including front panel buttons, IR remote as well as IP (Ethernet) and RS-232 for integration with 3rd party control systems.

The **Settings** menu allows you to configure all aspects of your N<sup>o</sup>5101. This section will go through the menu items and explain their function.

For more details visit [www.marklevinson.com](http://www.marklevinson.com).

### Entering the settings menu

To access the **Settings** menu, press the **Home** button to go to the home screen. Press **▲** to scroll to the **Settings** menu item and press **Enter**. The top line on the display should read **Settings** menu.

### Navigating the menus

The menus can be navigated by using the cursor (arrow) keys on the remote control.

1. Use the **▲** and **▼** keys to navigate up and down the current menu.
2. With the main section you require displayed, press **Enter** to select it.
3. Use the **▲** and **▼** keys to navigate up and down the options.
4. Pressing **▶** selects a setting: use the **▲** and **▼** keys to change the setting.
5. Press **Enter** to confirm the setting. Go back to step 4 to adjust any other settings in the current section.
6. Press **◀** to return to the previous screen if you want to select another section to adjust.

### Network Setup

This item allows the user to configure the unit to join an existing network via Ethernet or WiFi. This is required for network audio playback and OTA software updates. It is recommended that you use the "Auto" method for the easiest set up.

For WiFi auto set up:

1. Select **WiFi** under the **Select Interface** menu.
2. Press **Enter**.
1. Select **Scan** under the **Wireless** menu.
2. Press **Enter** and the unit will scan for available networks.
3. Use **▼** key to scroll and find the network of choice.
4. Press **Enter** to select the network. You will be prompted to **Enter Password**.
5. Use navigation controls to enter the network password:
  - ▲ and ▼ to scroll though characters.
  - ▶ and ◀ to move to the next/previous character.
6. Press **Enter** when password is complete.
7. For Ethernet select **Ethernet** under the **Select Interface** menu. Press **Enter**, and then **Enter** again. Follow the prompts.

For Ethernet auto set up:

1. Make sure a router with DHCP is connected.
2. Select **Ethernet** under the **Select Interface** menu.
3. Press the **Enter** key. The display should read **DHCP On (Auto)**.
4. Press the **Enter** key again, and the display should read: **Connecting. Please Wait**.
5. Once connected, the display should read: **Connected**.
6. Press **Enter**.

NOTE: Manual set up is not recommended but is available for advanced users should the need arise.

For WiFi manual set up:

1. Select **WiFi** under the **Select Interface** menu.
2. Press **Enter**.
3. Use **▲▼** key to select **Manual Input**.
4. Enter the SSID using **▲▼▶** and press **Enter**.
5. Using the **▲▼** buttons, review the menu options then select which security protocol your wireless network is using and press **Enter**.
6. If you picked an option other than NONE, it should prompt you for a password. Use **▲▼▶** and **Enter** to select the characters and enter the full password.
7. Press **Enter**.

For Ethernet manual set up:

1. Use **▼** to select **DHCP Off** (Manual).
2. Press **Enter**.
3. Use **Numeric Keys** and **▶** to enter the **IP Address**. Press **Enter**.
4. Use **Numeric Keys** and **▶** to enter the **Subnet Address**. Press **Enter**.
5. Use **Numeric Keys** and **▶** to enter the **Gateway Address**. Press **Enter**.
6. Use **Numeric Keys** and **▶** to enter the **DNS1 Address**. Press **Enter**.
7. Use **Numeric Keys** and **▶** to enter the **DNS2 Address**. Press **Enter**.

### Network Standby

This item determines whether network features are available when the N°5101 is in standby mode. Selecting **Active** will maintain the network connection (required for IP control). Selecting **Standby** will allow the network hardware to be powered down in order to reduce power consumption. It is recommend that this is set to **Active** for optimum control and performance.

### Network Audio

Allows the user to enable or disable the UPnP rendering capability of the player. Setting this option to **OFF** will disable network audio.

### DMR Device Name

This is the name that will show up on your network when searching for your device from a third party control app.

### Default Layer

Allows the selection of **SACD** or **CD** to be the default media layer that is played back. Turning this to **CD** will disable playback of the DSD layer of an SACD disc, and route the PCM signal to the digital outputs.

### Disc Auto Play

This controls whether an optical disc will play automatically after it is inserted. When set to **ON**, optical discs will play automatically.

When set to **OFF**, the user must press **Play** to start the disc.

### Load Defaults

This allows the user to load the default settings and write over all of the saved settings. There is a protective prompt that allows the user to cancel. Press the **▲** to be prompted **OK**. Press **Enter** to execute the command. Press **▼** to go back to cancel prompt. DO NOT interrupt power during loading process.

### Auto Standby

This allows user to specify the period of inactivity after which the unit will automatically enter standby. The options are: **5 Minutes, 10 Minutes, 15 Minutes, 20 Minutes** and **OFF**.

### PCM Filter

This setting lets you set the filter characteristic for PCM digital content such as the digital output from a CD player. We recommend trying several of these filters with the types of music you typically listen to and choose the one you prefer. There are no right or wrong choices.

The available filters are:

- **Fast Minimum Phase**
- **Slow Minimum Phase**
- **Apodiz Fast**
- **Hybrid Fast Minimum Phase**
- **Brickwall**
- **Fast Linear**
- **Slow Linear**

“Fast” filters provide steeper roll-off at high frequencies and therefore do a better job of attenuating unwanted high frequency “aliased” signals. However, they exhibit more ringing on signal transients.

“Slow” filters exhibit less ringing on transients, but they do a poorer job of attenuating unwanted high frequency signals.

“Linear Phase” filters exhibit symmetric pre- and post-ringing, i.e., they ring before and after the transient signal.

“Minimum Phase” filters exhibit only post-ringing, which some listeners feel sounds more natural, but they typically ring for longer than linear phase filters.

The “Hybrid” filter blends some linear phase and some minimum phase characteristics to achieve good high frequency attenuation with reduced pre-ringing.

The “Apodizing” filter blends linear phase characteristics with techniques to reduce pre and post-ringing.

The “Brick Wall” filter is optimized purely for attenuating unwanted high frequency aliased signals.

### DAC SACD Filter

Select the frequency the low pass filter is applied to SACD playback: **47kHz**, **50kHz**, **60kHz**, or **70kHz**.

### PLL Bandwidth

**Normal** is the default setting and is appropriate for almost all sources. Select **Wide** only if you experience noise or signal dropouts (most likely from high jitter sources such as cable TV set-top boxes).

### Digital Output

This allows the user to limit the sample frequency of the digital output to **48kHz Max**, **96kHz Max** or set to **No Downsampling** (full source bandwidth).

### System Info

This is a read only menu, use ▲▼ to scroll through:

- **Software Version**
- **WiFi MAC Address**
- **Wired MAC Address**
- **IP Address**

## TROUBLESHOOTING

### NO POWER

Examine the power cord to ensure that it is connected to both the AC mains connector and a working, un-switched electrical outlet.

Examine the electrical circuit breaker to ensure that power is being supplied to the electrical outlet to which the N°5101 is connected.

Make sure the N°5101 is not in Standby mode. The front-panel standby LED illuminates fully and continually when the N°5101 is On. The LED flashes slowly when the N°5101 is in Standby mode.

### REMOTE CONTROL DOES NOT OPERATE

Eliminate obstructions between the remote control IR transmitter and the IR receiver on the N°5101 front-panel display. Check the menu to make sure the front panel IR was not disabled.

Make sure the rear-panel IR input connector is not being used.

Make sure the remote control is positioned within 17 feet (5m) and within a 45-degree angle of the N°5101 front panel.

Make sure the IR receiver on the N°5101 front-panel display is not exposed to intense sunlight, halogen light, or fluorescent light. This can cause IR reception to become unreliable.

Replace the remote control batteries.

### NO SIGNAL AT THE LINE OUTPUTS

Make sure all associated components are connected to working electrical outlets and powered On.

Make sure the source device connected to the selected N°5101 input is producing an output signal.

### NO SOUND WHEN PLAYING AN SACD

Make sure you are monitoring the Analog outputs from the N°5101 when listening to SACDs.

The digital outputs are for PCM sources only. DSD (Direct Stream Digital) audio is not routed to the Coaxial or TOSLINK outputs due to copy protection requirements.

### AUDIO HAS A HUMMING SOUND

Disconnect components one at a time to isolate the problem.

Once you have identified the problematic component, make sure it is properly grounded and connected to the same electrical circuit as the N°5101.

### FRONT-PANEL DISPLAY NOT WORKING

Press any remote or front panel button to restore the display from the off mode.

## NO CONNECTIVITY VIA ETHERNET

Verify that an Ethernet cable is correctly connected between the router, switch or hub and the N°5101.

Verify the age of the router, switch or hub. If the router, switch or hub is more than three years old, there may be a communication issue with the N°5101.

Power cycle the unit and use a newer router, switch or hub between the network and the N°5101.

## IF ALL ELSE FAILS...

Power cycle the N°5101 by unplugging the power cord, waiting at least 10 seconds and reconnecting the power cord.  
Restore factory-default settings.

Contact your authorized Mark Levinson dealer.

Contact Mark Levinson Customer Service at 888-691-4171 or [www.marklevinson.com](http://www.marklevinson.com).



# SPECIFICATIONS

## GENERAL

Output Voltage:	3.0V RMS single-ended at full scale (0dBFS) 6.0V RMS balanced at full scale (0dBFS)
Total Harmonic Distortion + Noise:	<0.004%, 20Hz to 20kHz, single-ended, 3V RMS output (44.1kHz/16 bit signal) <0.003%, 20Hz to 20kHz, balanced, 6V RMS output (44.1kHz/16 bit signal) <0.003%, 20Hz to 20kHz, single-ended, 3V RMS output (192kHz/24 bit signal) <0.002%, 20Hz to 20kHz, balanced, 6V RMS output (192kHz/24 bit signal)
Signal-To-Noise Ratio:	>94dB single-ended (wideband, unweighted, referred to 3V RMS output) >106dB balanced (wideband, unweighted, referred to 6V RMS output)
Power Consumption:	Standby: <0.4W Power on: 32W
Digital Audio Connectors:	1 optical digital input (Toslink) 1 coaxial digital S/PDIF input (RCA) 1 optical digital output (Toslink) 1 coaxial digital S/PDIF output (RCA)
Output Connectors:	1 pair single-ended line-level outputs (RCA) 1 pair balanced line-level outputs (XLR)
Control And Network Connectors:	1 RS-232 port (DB9 connector) 1 IR input (1/8"/3.5mm phone jack) 1 12V DC trigger input (1/8"/3.5mm phone jack) 1 Ethernet port (RJ-45 connector) 1 USB-A connector 1 Wi-Fi antenna connector (SMA receptacle)
Wireless Format:	2.4GHz, 802.11b/g/n
Supported File Types:	FLAC, WAV, AIFF, OGG up to 24 bit/192kHz DSF, DFF up to 5.6MHz (DSD128/DSD 2X) AAC up to 24 bit/96kHz MP3 up to 320kbps/48kHz WMA up to 192kbps/48kHz
Dimensions/Weight (Unit):	Height: 4.97"/126mm; Height without feet: 4.50"/114mm; Width: 17.25"/438mm; Depth: 18.36"/466mm; Weight: 25.5 lb/11.5kg
Dimensions/Weight (With Packaging):	Height: 11"/279mm; Width: 27"/686mm; Depth: 24"/610mm; Weight: 35.7 lb/16.2kg

**HARMAN** HARMAN International Industries, Incorporated  
8500 Balboa Boulevard, Northridge, CA 91329 USA



Points de collecte sur [www.quefairedemesdechets.fr](http://www.quefairedemesdechets.fr)

**European Representative:** Harman International Industries, Incorporated  
EMEA Liaison Office, Danzigerkade 16G, 1013 AP Amsterdam, The Netherlands

**UK Business Address:** Ground Floor, Westside 2, London Road, Apsley, Hemel  
Hertfordshire, HP3 9TD, United Kingdom

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