

# JMP 9600 • Setup Guide

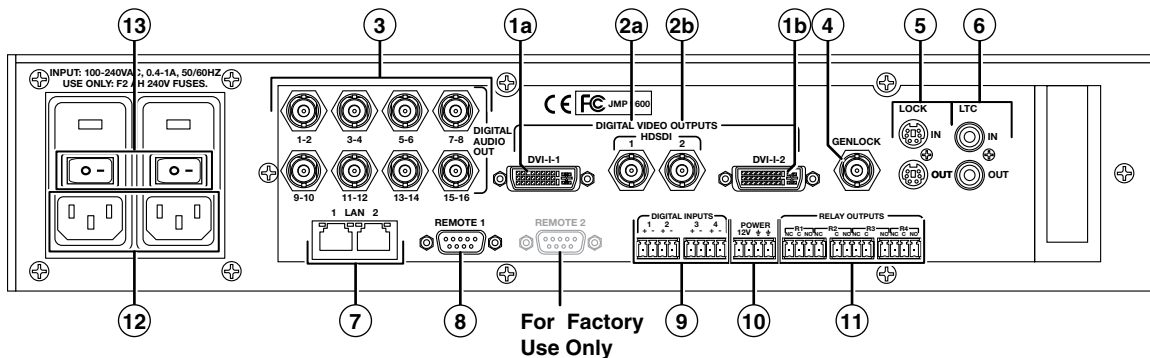
This guide provides quick start instructions for an experienced installer to set up and operate the Extron® JMP 9600 HD and JMP 9600 2K Media Players.

**NOTE:** For full installation, configuration, and operation details, see the *JMP 9600 Media Player User Guide*, available at [www.extron.com](http://www.extron.com).

**IMPORTANT:**  
Refer to [www.extron.com](http://www.extron.com) for the complete user guide and installation instructions before connecting the product to the power source.

The JMP 9600 Media Player is a high quality video and audio playback device that provides one or two video playback channels. Depending on the model, the player supports playback of video at HD (720p and 1080i) or 2k (1080p) resolutions. Both video outputs support DVI-I (digital and analog RGB) and HD-SDI formats.

## Connections



- ① **Digital Video Outputs, DVI-I connectors** — Connect one or two DVI displays to the DVI-I-1 and DVI-I-2 connectors for the direct digital image and RGB video output.

**NOTE:** Both DVI connectors can output single-link DVI (digital) video and traditional analog RGBHV video.

- ② **Digital Video Outputs, HD-SDI connectors** — Connect one or two HD-SDI devices to the HDSDI-1 and HDSDI-2 BNC connectors.

**NOTE:** In single-channel mode with dual-link HD-SDI selected, both HD-SDI connectors are required for a single image.

- ③ **Digital Audio Output connectors** — Connect devices that can receive and decode AES3-encoded audio to these 8 BNC connectors to receive up to 16 channels of audio.

**NOTES:**

- The AES3 protocol supports two channels of linear PCM (wave) audio on one BNC connector.
- For compatibility with the 2-channel mode of the player, media files must be encoded with 4:2:2 subsampled color video sampling and a maximum of eight channels of audio. With 4:2:2 video:
  - Audio channels 1 through 8 are associated with video channel 1.
  - Audio channels 9 through 16 are associated with video channel 2.

- ④ **Genlock Input connector** — Connect an external genlock signal to this BNC connector for genlocking the video signal in broadcast or other sync-critical NTSC or PAL applications. Use a tee connector or distribution amplifier to connect any downstream equipment that requires genlocking

- ⑤ **Lock Input and Output connectors** —

**NOTES:**

- Use only one of the Genlock and Lock sync types (items ④ and ⑤) available).
- The Lock connectors support ESGEN and MSGEN, which are proprietary sync signals that are native to Electrosonic® products that have been acquired by Extron and to older Electrosonic products.

**Lock Input connector** — Connect an external ESGEN or MSGEN sync signal to this 6-pin mini-DIN connector for the media player to function as a sync receiver of the other device.

**Lock Output connector** — Connect any downstream equipment that requires an ESGEN sync signal to this 6-pin mini-DIN connector to either route the external sync signal throughout the system or for the media player to function as a sync generator.

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## ⑥ LTC Input and Output connectors —

**LTC Input connector** — Connect an external LTC sync signal to this RCA connector for the media player to function as a sync receiver of another device.

**LTC Output connector** — Connect any downstream equipment that requires an LTC sync signal to this RCA connector to either route the external sync signal throughout the system or for the media player to function as a sync generator.

## ⑦ LAN ports —

If desired, for IP control of the media player and content transfer, connect the player to a PC (using a crossover cable) or to an Ethernet LAN (using a patch cable), via either of these RJ-45 connectors. You can use a PC to control the networked player via MSVPP commands (serial ASCII commands for remote control of former Electrosonic® products), the Extron Windows-based control program, or built-in HTML pages.

- NOTES:**
- Extron recommends that each LAN port have a unique IP address.
  - The factory default IP and netmask (subnet mask) addresses are as follows:

LAN 1:	LAN 2:	Both ports:
IP address: 192.168.254.254	IP address: 192.168.254.253	Gateway address: 0.0.0.0
Netmask address: 255.255.0.0	Netmask address: 255.255.0.0	DHCP: Off

- Two LAN ports allow the media player to reside on two different subnets simultaneously.

## ⑧ Remote (RS-232) port 1 —

Connect a host device, such as a computer or touch panel control to the player via this male 9-pin D connector for serial RS-232 control or pass-through.

- NOTES:**
- Former Electrosonic products use a male connector, unlike most Extron products. You may need an adapter.
  - Remote 1 can be set to Control (control the player), Passthrough (pass the signals to a controlled device), or Disabled.
  - The media player can:
    - Operate at 300, 600, 1200, 4800, 9600, 19200, 38400, 57600, or 115200 baud rates
    - Use 7 or 8 data bits
    - Use no parity, even parity, or odd parity.
    - Use 1 or 2 stop bits
  - Serial port Remote 2 is for factory use only. Do not attempt to control the player via the Remote 2 port.

**NOTE:** The relay interface ports (items ⑨, ⑩, and ⑪) provide optically-isolated digital inputs and relay outputs that can be controlled by show control software. See the *JMP 9600 Media Player User Guide* for more details.

## ⑨ Digital Inputs 1 through 4 —

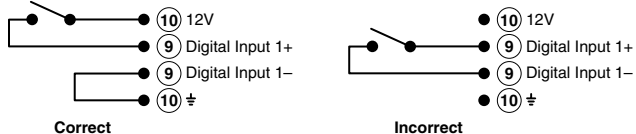
When enabled, these inputs allow the media player to sense a discrete signal, such as a change in a switch position when it reads the inputs. Connect the desired discrete input line to the unit via two poles (+ and -) of a 4-pole captive screw connector. See the drawing underneath item ⑩ and see the *JMP 9600 Media Player User Guide*, for detailed wiring recommendations.



**NOTE:** By factory default, automatic reports from Digital Inputs 1 through 4 are disabled, although they can be manually read on command. To be made automatic, reports must be enabled using the Set input trigger on MSVPP command. See the *JMP 9600 Media Player User Guide*, for MSVPP commands.

## ⑩ Power —

This port provides +12 VDC power at up to 1.8 A, typically for use with Digital Inputs 1 through 4 (item ⑨) above. The power is internally protected. Connect the device requiring power to two poles (12V and ground [±]) of a 4-pole captive screw connector. See the drawing below and see the *JMP 9600 Media Player User Guide*, for detailed wiring recommendations.



**WARNING:** 12 VDC is always present on the Power port when the media player is powered on. Ensure that no conductive material comes into contact with these terminals.

## ⑪ Relay Outputs —

These ports are four sets of NO and NC relay contacts. Connect an external device that you want to control to the player via three poles (normally closed [NC], common [C], and normally open [NO]) of the 4-pole captive screw connectors.



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- 12 **Dual Redundant AC Power Input connectors** — Connect standard IEC power cords between one rear panel AC Power Input connector and a 100 to 240VAC, 50-60 Hz power source.

**WARNING:** Physically disconnect both power cables from the player before opening the case for servicing.

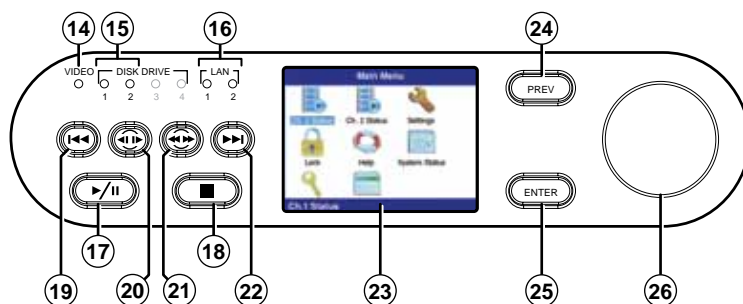
**NOTE:**

- Although the unit performs reliably while running on a single AC power supply, doing so defeats the dual-redundant power supply feature.
- Connect the dual power cords to either uninterruptible power sources or to power sources that are completely independent of each other.

- 13 **Dual Redundant AC Power Input switches** — Toggle both AC Power Input switches to the on (I) position.

## Front Panel Controls and Indications

- 14 **Video LED** — This LED blinks when the player is in Play mode or Pause mode.
- 15 **Disk Drive 1 and 2 LEDs** — These LEDs flash when the associated hard disk is active. When you are transferring a large file or playing a high bit rate file the LEDs flash more frequently. It is common, under heavy load, for the LEDs to appear to be continuously lit.



**NOTE:** The Disk 3 and Disk 4 LEDs are reserved for possible future applications and are not currently implemented.

- 16 **LAN 1 and 2 LEDs** — These LEDs flash when the associated Ethernet connection is active. When you are transferring a large file the LEDs flash more frequently. It is not uncommon, under heavy load, for the LEDs to appear to be continuously lit.
- 17 **Play/Pause (P/II) button** — Press this button to start the currently selected playlist or clip (DCP) file or pause a currently playing presentation while leaving the image displayed.

**NOTE:** Clips must conform to the Digital Cinema Initiative (DCI) DCP file format requirements (although encryption and watermarking are not currently supported). A clip is selected by choosing the associated \*.cpl.xml file from the front panel (see “[Load and Play a Presentation](#)”). Multiple DCP clips of the same format can be combined into playlists to define their playback sequence, which can also be selected from the front panel.

- 18 **Stop (■) button** — Press this button to stop the currently playing presentation. When you press Play again, the presentation starts over from the beginning.
- 19 **Previous clip (◀◀) button** — Press this button to load the previous clip in the playlist file. The button has no function if no playlist file has been loaded (using the menu controls).
- 20 **Frame mode button (◀▶) button** — Press this button and then rotate the encoder knob (item 26) to step frame-by-frame, backwards and forwards through the active clip while the player is in play mode.
- 21 **Shuttle mode (◀▶) button** — Press this button and then rotate the encoder knob (item 26) To “shuttle” backwards and forwards through the active clip, at a rate controlled by the encoder knob.
- 22 **Next clip (▶▶) button** — Press this button to load the next clip in the playlist file. The button has no function if no playlist file has been loaded (using the menu controls).

**NOTE:** The previous clip, frame, shuttle mode, and next clip features are **not** supported for 48 Fps clip files.

- 23 **LCD screen and confidence monitor** — The LCD displays the user interface (the menu and submenu system shown in the drawing above) for local control. The screen can also display live output 1 or output 2 video. The alpha-blend feature allows you to display a mix of the user interface and output video simultaneously.

**NOTE:** Channel 2 Status is displayed in the main menu and available for selection only in 2-channel output mode and 2-channel locked output mode, both of which can be selected in the Settings > Video submenu.

- 24 **Previous button** — Press this button to return to the previously displayed menu or page.
- 25 **Enter button** — Press this button to initiate or activate a selected function.
- 26 **Encoder knob** — Rotate this knob to navigate the menu system. Rotate this knob when frame mode and shuttle mode are selected to operate those features.

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## Load and Play a Presentation

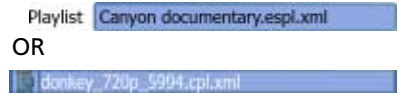
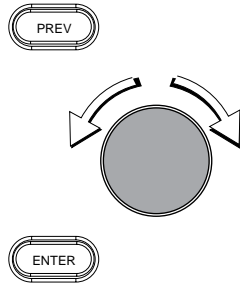
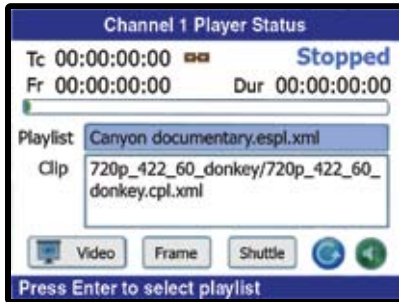
Load and play a presentation as follows:

**NOTE** The player must be correctly configured for the clip or playlist that you select using the Settings > Video submenu, or else the player does not load the selected clip or playlist and the LCD reports ERROR.

1. Rotate the encoder to highlight the Ch. 1 Status selection or Ch. 2. Status selection.

**NOTE:** The Ch.2 Status selection is only available when the media player is in 2-channel output mode and 2-channel locked output mode, both of which can be selected in the Settings > Video submenu.

2. Press the Enter button. The selected Channel Status menu opens.



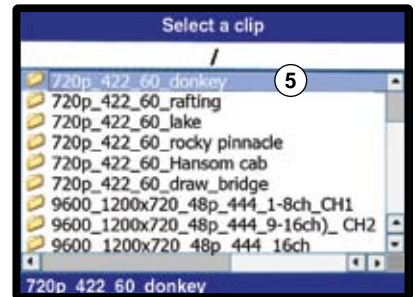
3. Rotate the encoder knob as necessary to highlight the Playlist field or Clip field.

**NOTE:** You must have created one or more playlists using the player web interface before they can be selected from the list of playlists. All clips in a playlist must have the same format. See the *JMP 9600 Media Player User Guide*.

4. Press the Enter button. The Select a playlist screen (a list of playlist files) or Select a clip (folder) screen (a list of clip folders) appears.



Select a playlist



Select a clip

5. Rotate the encoder knob as necessary to highlight the desired playlist file or clip folder.

Park intro documentary.espl.xml

6. Press the Enter button.

**When loading a playlist** — If the playlist is valid, and all clips have the same format, the LCD returns to the Channel Status screen with the playlist selected in step 5 shown in the Playlist field.

The Play/Pause (▶/⏸) Button lights. **Proceed to step 9.**

**When loading a clip** — The LCD displays the Select a clip (file) screen, showing a folder full of clip files or subfolders. **Proceed to step 7.**

7. Rotate the encoder knob as necessary to highlight the desired clip (\*.cpl.xml) file.
8. Press the Enter button. If the clip is valid, the LCD returns to the Channel Status screen with the clip selected in step 7 shown in the clip field. The Play/Pause (▶/⏸) Button lights.
9. Press the Play/Pause (▶/⏸) Button to start playing the file. The LCD screen displays a progress-bar as the clip runs. The video output appears on the connected display system.



**NOTE:** To display the video that is playing in the LCD, rotate the encoder knob to highlight the Video Mode icon (▶ Video) and press the Enter button. Press the Previous button to return to the Channel Status menu.

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