HyperMax 11.1.0

- Release Date: January, 2026.

(!) Important: *Please review the* **End User Software License Agreement** *before installing or using this software.*

Feature Enhancements

A number of features have been added, or updated, to this version of software. This section provides a brief introduction to these features, and how to use them.

v11.1.0 Features

Preprocessor Effects

The Preprocessor creates visual effects that can be applied any 3D DVE channel. Any number of preprocessor effects can be applied to the same DVE channel.

- **Ultrawide Defocus** — adds a horizontal and vertical blur to the image on the channel.
- **Strobe** — alternates between freezing and playing the live video of the channel.

Key Auto Drop

The Key Auto Cut, or DSK Auto Drop, feature sets whether or not the keys are cut off-air when a source is selected directly on the background bus of the control panel.

Key Auto Drop automatically cuts the selected keys off-air when a source is selected directly on the Background bus (hot punched) of the ME or MiniME™ on the control panel.

Note: *This feature only applies when a source is selected directly on the control panel.*

Media-Store Capture

Capture a still image of the video and alpha from any bus on ME P/P using Media-Store channels 1 or 2.

MaxScene Source List

You can now view a table of all external video sources being used by any MaxScene in the switcher. This tells you how many input you are using and allows you remove sources to make room.

New Devices Supported

No new device support or commands were added to this version of software.

New Devices

No new devices were added or updated for this version of software.

New/Updated Commands

Note: *New RCP Aux Panel Label files have been released. There are separate files for Auxes and standard input/outputs.*

Bugs Addressed

The following bugs were addressed in this version of software:

- CR-9251 — TouchDrive panel will now connect to HyperMax switcher over SFTP, not just FTP.
- CR-9182 — Pressing multiple selections simultaneously on some TouchDrive panel displays no longer triggers unintended bus selections.
- CR-9159 — A problem with Ultrix routers not forwarding source name changes after reboot has been fixed.
- CR-9047 — User select buttons assigned to Scene Groups now stay lit when selected.
- CR-8881 — Media Autoplay now works correctly on all MEs, not just ME P/P.
- CR-8877 — Source changes made from and RCP panel are now correctly reflected on the HyperMax TouchDrive panel and DashBoard UI.
- CR-8861 — RCP panel control of HyperMax MEs beyond ME 2 now works correctly.

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- CR-8853 — Ultrix PIP labels now update correctly when HyperMax output sources are updated.
- CR-8830 — Problem whereby upgrades occasionally failed due to file not found error has been fixed.
- CR-8816 — USB port is no longer displayed as an available drive in the Media Manager.
- CR-8811 — Fixed a problem whereby 3D DVE Rotation Pivot settings sometimes did not recall correctly.
- CR-8804 — When storing a memory, clicking the All Trans attribute no longer selects the Run Auto flag.
- CR-8801 — Media Manager internal samples folder now correctly displays sample images.
- CR-8797 — Fixed an issue whereby some TouchDrive panel button presses did not register.
- CR-8780 — Problem whereby RCP panel was displaying "NO RESP" message when recalling Custom Controls has been fixed.
- CR-8774 — MiniME MultiViewer PIPs now display bus follow sources correctly.
- CR-8772 — DashBoard PaneLink feature now works correctly when panel ID set to Satellite 1 or 2, not just Main.
- CR-8765 — Wait time for Memory Recall functionality immediately following Set Load action has been shortened.
- CR-8748 — Various minor cosmetic fixes made to Live Assist buttons and layout.
- CR-8747 — Recalling memories while holding a key source now recalls the key settings correctly.
- CR-8744 — Fixed a problem where Ultrix rejected external input changes after a video mode change.
- CR-8733 — HyperMax systems with 8 SDPE blades now support more then 2 blades with non-ME configuration.
- CR-8724 — Color picker widget for Max Scene DVE border parameter now displays correctly.

- CR-8675 — RossTalk commands LOADSET and SAVESET now work with HyperMax NFS file system.
- CR-8616 — Ultrix Source names for external inputs now display correctly in the DashBoard Configuration page.
- CR-6733 — Fixed a problem whereby TSL devices using UDP were not being disabled properly

Known Issues and Limitations

Keep these notes in mind when upgrading your system to this version of software. Contact Ross Video Technical Support if you have any questions about performing a software upgrade.

Operational Notes

The following issues have been identified when working with the switcher:

- **Corrupt USB** — If you remove the USB drive while the switcher is writing to it, the USB could become corrupted and will need to be re-formatted.
- **External Re-Entry Video Errors** — A video timing error can occur when a video output of the switcher is routed back into the switcher using an input BNC. If video timing errors do occur, assigning a frame synchronizer to the input BNC will remove the timing errors.
- **Stills with same Name** — You cannot have two or more Media-Store files with the same name but different file extensions in the same folder. The switcher treats capital and lowercase letters as the same.
- **Transitions with Show Alpha** — If the show alpha feature is on, only cut transition are possible on the ME. The switcher will perform a cut at the end of the transition duration instead of the selected transition type.
- **720p in BT.2020 SDR** — The combination of 720p and the BT.2020 color gamut in SDR is not documented in the applicable standards

and may not be supported by other downstream devices.

- **Sets Not Backwards Compatible** — If you save a set in one version, you may not be able to load the set in an older version of switcher software.
- **Decimal Accuracy** — DashBoard and the 3-knob menu show numerical values slightly differently. DashBoard shows values accurate to 2 decimal places and the 3-knob menu shows values rounded to 1 decimal place.
- **Jumbo Frames Not Supported** — Ethernet frames with more than 1,500 bytes of payload (Jumbo Frames) are not supported at this time. If your device has an option to send jumbo frames, it must be turned off to properly communicate with the switcher.
- **MediaWipe and DVE Wipe** — If you switch back and forth between a DVE transition and a MediaWipe DVE transition, the DVE transition may only perform a cut at the end of the transition duration. Select a different DVE transition pattern and then switch back to the pattern you want to fix the issue.
- **AES Fixed Sources** — The audio sources are fixed for all AES ports. You cannot assign a different audio source to an AES port at this time.
- **Tallies and GPIs on ME P/P Only** — Only the **Tally** and **GPIO** ports on the blade assigned as ME P/P are supported at this time.
- **MaxScene Assignment Limit** — HyperMax can only support 2 blades being assigned as MaxScene at this time. Assigning more than 2 blades as MaxScene may cause the switcher to become unresponsive.
- **MaxMini Assignment Limit** — HyperMax can only support 4 blades being assigned as MaxMini at this time. Assigning more than 4 blades as MaxMini may cause the switcher to become unresponsive.

Security & Network Vulnerabilities

The following exploits have been identified:

- **CVE-2024-6387: Remote Unauthenticated Code Execution Vulnerability in OpenSSH server** — At this time this exploit is only theoretical for 64-bit operating systems such as that used in HyperMax.

Software Upgrade

Depending on the version of software you are upgrading from, your menus may be arranged or appear differently.

Software Compatibility

Before installing any software, review the following version compatibility information.

> **Note:** *Compatibility, unless otherwise indicated, shows the combination of software versions that were tested together. Other combinations may not have all the features introduced with the most recent version of software.*

Table 1: Version Compatibility

Product	Version	To Verify
HyperMax	11.1.0	The current version is shown on the **Status** tab in DashBoard.
Ultrix FR5-NS	6.7.3 (or higher)	The current version is shown on the **Product** tab of the **System Status** node in DashBoard.
Ultrix FR12	6.7.3 (or higher)	The current version is shown on the **Product** tab of the **System Status** node in DashBoard.
Ultricore BCS	6.7.3 (or higher)	The current version is shown on the **Product** tab of the **System Status** node in DashBoard.
DashBoard	9.16.0 (or higher)	Refer to the documentation what came with DashBoard for information on getting the current version number.
TouchDrive Panel	3.3.1 (or higher)	The current version is shown on the **Status** page in DashBoard for the TouchDrive node.

To Upgrade the Switcher Software

Connect to the CPU to upload and install the upgrade files on the switcher.

> **Note:** *Save your switcher setup information to a set on a separate USB drive before upgrading. This switcher set can be used as a backup in case there is a critical error during the upgrade.*

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Important: *Do NOT turn the system power off during the upgrade. Doing so may corrupt the switcher software or damage the switcher components.*

Tip: *The switcher copies the system logs to the internal NFS drive before the upgrade. This information can be useful for Technical Support if there is an issue with the upgrade.*

1. On your computer launch your FTP client.

2. Open an FTP connection to the switcher using the following settings.

   - **Protocol** — `FTP`.
   - **Host** — the IP address of the Frame CPU.
   - **User** — `user`.
   - **Password** — `password`.

3. Copy the `upgrade-full-####.hypermax` upgrade file to the `/upgrade` folder.

4. Open a web browser and navigate to the IP address of the CPU. You are prompted to enter a user name and password. The defaults are `user` and `password`.
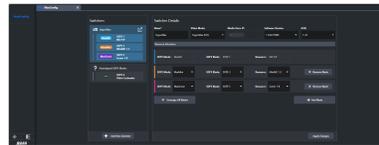
5. Click **Upgrade**.

6. Select the version of software you want to upgrade the switcher to and click **Upgrade selected version**.

   Note: *This stage upgrades the CPU and unpacks the upgrade files for the SDPE blades.*

   Tip: *You can delete an upgrade package by selecting it and clicking **Delete selected version**. This deletes the upgrade package, not the unpacked upgrade files in the upgrade folder.*

7. Click **Confirm Upgrade**.
   The screen will pause for a time as the file is unpacked and the upgrade started. When the upgrade file is installed the CPU will reboot and a timer will count down until it is clear to move on to the next step.

8. Click **MaxConfig**.

9. Select the switcher that you want to upgrade and select the new software version from the **Software Version** list.

10. Click **Apply Changes**.

   Important: *When you click **Apply Changes**, the configurator will update the software on all the SDPE blades you selected a change for. Do NOT attempt to make additional changes to the configuration until all the blades are back up and running as you assigned them.*