Mira Express Replay System • Software Release Notes

Welcome to the Mira Express V9.2.0 Software Release Notes. Please read this document to find important information on areas of Mira Express that may not be covered in the Getting Started Guide or the User Help system.

CONTENTS

VERSION HISTORY

VERSION 9.2.0 – NOVEMBER 2023

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

1. **Mira Config App: Change Default Image upon "Unload Video Channel"**
   Prior to V9.2 Software, whenever a video channel transport was "Unloaded" that channel would be automatically loaded with "Internal Color Bars".

   A new feature has been added to the **Mira Config** app on the **Channels** tab to allow the User to change the image that gets loaded upon a Channel Unload operation. The choices are:
   - Color Bars (Default)
   - Black
   - Stored Still/Clip from Clip Library

   NOTE: The "Stored Still or Clip" selection will present **all** .clip files stored in the Clip Library, including clips that are in video standards *different* from the video standard the video server is currently operating in. If a still or clip is chosen that's in a *different* video standard, then when the Unload command is executed the "Color Bars" will be loaded instead (*because it's impossible to load a .clip file that's in another video standard*).

2. **Mira Config App: RossTalk Protocol • Change Port Number**
   In the **Mira Config** app on the **RS422** tab, a new feature has been added to allow the "RossTalk port number" to be changed. The default port number is 7788.

   The RossTalk port number can now be changed to a new port number ranging from 7788 to 7798 to help avoid duplicate RossTalk port numbers with other devices on the same Ethernet network.

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4. **Mira Remote Control: Added RossTalk Receive Command: Load Playlist**
A new RossTalk Receive command has been added to load Playlist media content into specific video player channel(s), with the following syntax:

LOAD_PLAYLIST *(pvw-channel:)pgm-channel:playlistname*	Load playlist in specific *channel* or *channels* (*see: "Examples of Load Playlist Command" below*)

Examples of Load Playlist Command

LOAD_PLAYLIST B:A:Sports_Show

Loads playlist titled "**Sports_Show**" into **ChA** as PGM Player and with **ChB** as PVW Player. The **first** playlist item is loaded into **ChA**, while the **second** playlist item is loaded into **ChB**.

LOAD_PLAYLIST D:Good Morning Show

Loads playlist titled "**Good Morning Show**" into **ChD** as PGM Player; first item is loaded into **ChD**.

5. **Mira Remote Control: Added RossTalk Receive Command: Loop Playlist**
A new RossTalk Receive command has been added to loop all Playlist content in a specific video player channel, with the following syntax:

LOOP_PLAYLIST *channel:mode*	Enable Loop Playlist (*see: "Examples of Loop Playlist Command" below*)

Examples of Loop Playlist Command

These commands can be issued *during* playlist playout.

LOOP_PLAYLIST A:loop

Enables "**loop**" command for playlist currently loaded in **ChA**.

LOOP_PLAYLIST A:off

Disables "**loop**" command for playlist currently loaded in **ChA**.

6. **Mira Remote Control: RossTalk Receive Commands: 'forward slash' to indicate 'Folder'**
While using RossTalk Receive commands that can include 'folders' and 'subfolders' in the video server's Clip Library, the 'forward slash' character (/) is now allowed, in addition to the 'back slash' character (\ ), as has always been the case.

Example:

(H:\Video) SPORTS\HOCKEY\Finals or **(H:\Video) SPORTS\\HOCKEY\\Finals**

Can now be simply:

(H:\Video) SPORTS/HOCKEY/Finals

RossTalk Receive Commands affected by this change:

CUE *channel:clipname*	Load *clipname* on *channel*
CUE *channel:clipname:position*	Load *clipname* on *channel* and seek to *position*
PLAY *channel:clipname*	Load *clipname* and start playing
PLAY *channel:clipname:position*	Load *clipname* and start playing from *position*
LOAD_PLAYLIST *(pvw-channel:)pgm-channel:playlistname*	Load *playlist* in specific *channel* or *channels*

7. **Mira Remote Control: Added RossTalk Receive Command: TAKE**
A new RossTalk Receive command has been added to transition ("take") media content within specific video player channel, with the following syntax:

TAKE *channel*	Take (transition) clip content in *channel* (*see: "Examples of TAKE Command" below*)

Examples of TAKE Command

TAKE A

While Playlist is loaded in ChB as (PVW) with ChA as (PGM): Transitions currently highlighted playlist item into ChA.

TAKE G

With the Mira Replay app configured with two PGM Players (ChG=PGM-1 / ChH=PGM-2): Swaps content from ChH into ChG and content from ChG into ChH.

TAKE C

With the Mira Explorer app configured with two PGM Players while a Playlist is "ON-AIR" in the channel pair (ChC=PGM / ChD=PVW): Swaps PVW content of the Playlist from ChD into PGM ChC, and advances the Playlist forward by one item.

8. **Mira Remote Control: Added RossTalk Receive Command: UP_ONE_ITEM**
A new RossTalk Receive command has been added to move an active Playlist's "current item highlighting cursor" UP by one item in the Playlist, with the following syntax:

UP_ONE_ITEM *channel*	Move Playlist "current item highlighting cursor" for playlist active in *channel* UP by one item (*see: "Example of UP_ONE_ITEM Command" below*)

Examples of UP_ONE_ITEM Command

UP_ONE_ITEM B

While Playlist is loaded in ChB as (PVW) with ChA as (PGM): moves the "current item highlighting cursor" UP by one item within the playlist that's currently active in ChB.

9. **Mira Remote Control: Added RossTalk Receive Command: DOWN_ONE_ITEM**
A new RossTalk Receive command has been added to move an active Playlist's "current item highlighting cursor" DOWN by one item in the Playlist, with the following syntax:

DOWN_ONE_ITEM *channel*	Move Playlist "current item highlighting cursor" for playlist active in *channel* DOWN by one item (*see: "Example of DOWN_ONE_ITEM Command" below*)

Examples of DOWN_ONE_ITEM Command

DOWN_ONE_ITEM B

While Playlist is loaded in ChB as (PVW) with ChA as (PGM): moves the "current item highlighting cursor" DOWN by one item within the playlist that's currently active in ChB.

10. **Mira Remote Control: Added RossTalk Receive Command: RECUE_TO_FIRST_ITEM**
A new RossTalk Receive command has been added to move an active Playlist's "current item highlighting cursor" to FIRST item in the Playlist, with the following syntax:

RECUE_TO_FIRST_ITEM *channel*	Move Playlist "current item highlighting cursor" for playlist active in *channel* to FIRST item (*see: "Example of RECUE_TO_FIRST_ITEM Command" below*)

Examples of RECUE_TO_FIRST_ITEM Command

RECUE_TO_FIRST_ITEM B

While Playlist is loaded in ChB as (PVW) with ChA as (PGM): moves the "current item highlighting cursor" to FIRST item within the playlist that's currently active in ChB.

If you want the newly highlighted playlist item to transition into the PGM player, you'll need to follow this RECUE command with a TAKE command.

11. **Mira Remote Control: Added RossTalk Receive Command: EJECT_PLAYLIST**
A new RossTalk Receive command has been added to unload (EJECT) a Playlist that's currently loaded in the specified video channel, with the following syntax:

EJECT_PLAYLIST *channel*	Unloads (Ejects) Playlist that's currently loaded in *channel* (*see: "Example of EJECT_PLAYLIST Command" below*)

Examples of EJECT_PLAYLIST Command

EJECT_PLAYLIST A

While Playlist is loaded in ChB as (PVW) with ChA as (PGM): halts playout of the active Playlist but keeps the currently playing item in ChA (PGM) playing out.

To completely clear the Playlist from all playout channels, follow with another command:

EJECT_PLAYLIST A

— or —

EJECT A

12. **Mira Replay App: Support for Audio Swap & Mute from Foreign Replay Events**
When a Foreign Replay Event is accessed in the Local Replay Event's Clip Registers, and a given clip from the Foreign Replay Event has Audio Swap & Mute (AS&M) attributes applied, those AS&M attributes are now obeyed when such a clip is loaded and played from the Local Replay Event.

13. **Mira Replay App: STOP@IN and STOP@POI new User Setup Parameters**
Two new **User Setup** menu parameters were added to determine playback behavior during `PLAYBACK` mode while IN & POI points are set and during `CLIP PLAY` mode. When each parameter is ON, the PGM Player will stop at the set IN / POI during playback.

14. **Mira Replay App: Multi-Select items in Clip Registers and Playlist**
    It's now possible to select multiple items in the Mira Replay app's Clip Registers and Playlist, by using QWERTY keyboard shortcuts that are identical to the Windows Explorer file management app. These shortcuts include:

To select ALL Items in current Clip Register Bank or in current Playlist
Ctrl + **A** = Select ALL Items in Clip Register or Playlist

To select RANGE of Items in current Clip Register Bank or in current Playlist
✓ *HOLD DOWN* **Shift** *throughout entire operation below until all desired items are highlighted (selected)*
HOLD Shift + TAP ▲   *— or —*   **HOLD Shift + TAP ▼**   *— or —*   **HOLD Shift + TAP Page Up**   *— or —*   =   Select RANGE of Items in Clip Register or Playlist   **HOLD Shift + TAP Page Down**   *— or —*   **HOLD Shift + TAP HOME**   *— or —*   **HOLD Shift + TAP END**

To select Random Set of Items in current Clip Register Bank or in current Playlist
✓ *HOLD DOWN* **Ctrl** *throughout entire operation below until all desired items are highlighted (selected)*
HOLD Ctrl + TAP ▲   *— or —*   =   Move Selection Cursor UP (or) DOWN   **HOLD Ctrl + TAP ▼**
...then:
TAP (SPACEBAR)   =   Select item @ cursor location
...repeat two steps above until all desired items are highlighted (selected)

15. **Mira Replay App: Clip Register & Playlist Cut, Copy, & Paste**
    While one or multiple items (*see item **14** above*) in the current Clip Register or current Playlist during PL-EDIT mode are highlighted, it's now possible to use QWERTY keyboard shortcuts to **Cut** (**Ctrl** + **X**), **Copy** (**Ctrl** + **C**), and **Paste** (**Ctrl** + **V**) with those multiple items.

    These functions are useful to remove and move multiple items in the currently active Clip Register and Playlist.

16. **Mira Replay App: Modify multiple items in Playlist using Multi-Select**
While multiple playlist items (*see item **14** above*) in the current Playlist are highlighted during PL-EDIT mode, it's now possible to then use the **Edit Item Flags** sub-menu to then modify any of the attributes (TRANS, TRANS DUR, @START, @END, and RUN TIME), and have that change apply to all the currently selected/highlighted playlist items.

17. **Mira Replay App: Clip Registers "Preferred CAM Angles" in** CLIP PLAY **Mode**
The camera angles that were loaded in the PGM Players when clips are saved is now an attribute stored with each clip in the Clip Registers.

As part of this new feature, the User can also turn ON or OFF visual "colored indicators" (that highlight which camera angles in each clip were loaded all PGM Players when the clip was saved), coupled with an "auto-angle select" function during CLIP PLAY mode that automatically loads the highlighted camera angles into the appropriate PGM Player.

- **To turn ON this function**:   **Double-Tap** the [LOAD] button

The Clip Register colored highlighters and camera angle auto-load function is enabled:
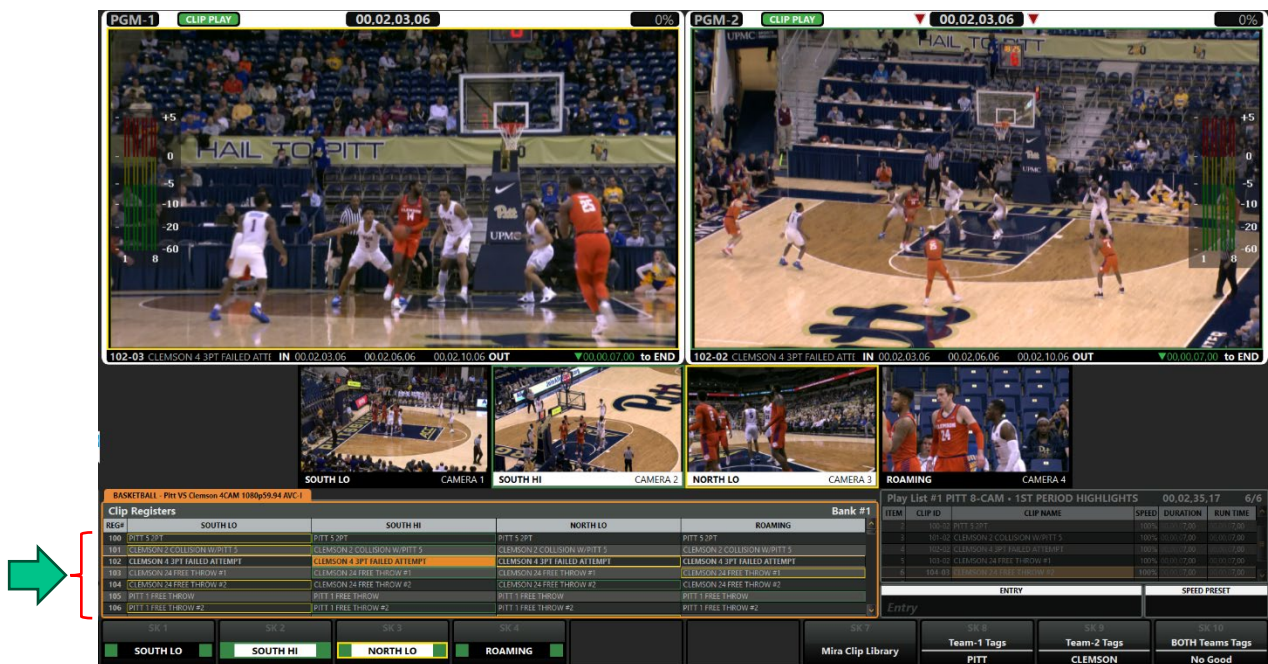
As the current clip item "orange highlighter" is moved UP and DOWN through the Clip Register rows, the PGM Players are automatically loaded with the camera angles that are highlighted with the corresponding-colored rectangles (**PGM-1** with **magenta-colored** rectangles, and **PGM-2** with **cyan-colored** rectangles in the image above).

- **To turn OFF this function**:   **Double-Tap** the [LOAD] button

The Clip Register colored highlighters and camera angle auto-load function is disabled.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

1. **File Import: Photoshop (PSD) media file support**
Fixed bug that prevented Photoshop files (.PSD) from being imported. These files now import.

2. **Mira Replay App: Exit from "PLAY LIST" to "PL-EDIT" remains at Current Item**
This long-standing issue has been resolved. When exiting PLAY LIST mode back into PL-EDIT mode, the PGM Player now remains parked at the current position in the Playlist!

   In previous software releases, the "current item cursor" within the playlist would move down by one item whenever PLAY LIST mode was exited.

   And if the LAST item in the playlist was highlighted during PLAY LIST mode, exiting back to PL-EDIT mode would move the cursor upward to the penultimate item in the playlist.

   Both issues are now resolved, and the "current item cursor" within the playlist remains at the current position when exiting PLAY LIST mode.

3. **Mira Replay App: Non-matching Folders appear in Search Results**
When performing a clip search in the Clip Registers using the SEARCH button, the Search Results would sometimes display Folders of clips that did not match the search filter. This bug is now fixed.

4. **Mira Replay App: Inability to Save a STILL as a Mira Server Clip in Bank 0**
While Mira Clip Library is opened in the Mira Replay app, when a STILL clip file is highlighted and SAVE is tapped to save the clip in Bank 0, the STILL would not get saved. This bug is now fixed.

5. **Mira Replay App: GANG in PL-EDIT mode with active Foreign Replay Event**
While a Foreign Replay Event is active in the Playlist pane during PL-EDIT mode, it was impossible for the GANG button to be activated. This bug is now fixed.

6. **Mira Replay App: MARK then SAVE incorrectly saves to Foreign Replay Event**
While a Foreign Replay Event is active in the Playlist pane during PL-EDIT mode, tapping the MARK button (*to save active camera timecode to MARKS List*), then tapping SHIFT + MARK buttons (*to activate* VUE MARKS *mode*), followed by a tap of the SAVE button would incorrectly save that Mark timecode as a new clip in the Foreign Replay Event instead of the Local currently active Replay Event. This bug is now fixed.

7. **Mira Replay App: Mira Clip Library pane always displays BANK #1 as "Active Bank"**
While BANK #2 thru BANK #99 is active during LIVE EE, PLAYBACK, CLIP PLAY, or VUE MARKS modes, if the Mira Clip Library is activated (SK-7), the banner in the Mira Clip Library pane is supposed to display the currently operating BANK #. However, it always displays "BANK #1" even while BANK #2 thru BANK #99 is active. This bug is now fixed.

8. **Mira Replay App: Trimmed Clip LOAD with GANGED PGM Players seeks secondary PGM Player to wrong IN / POI**
While CLIP PLAY mode is active with trimmed clips loaded into the PGM Players and with GANG active on two PGM Players, using any of the yellow GOTO buttons (GOTO IN • GOTO POI • GOTO OUT) will not seek the secondary PGM Player to the correct GOTO timecode. This bug is now fixed.

9. **Mira Replay App: Two Server Clips loaded into 'GANGED' PGM Players, tapping yellow GOTO button during PLAY incorrectly Auto-Plays**
This bug happens only when:

   - Two "**Server Clips**" are saved into two separate Clip Register slots are loaded into both PGM Players

   - **GANG** is active

   - **PLAY**> or **<PLAY** is active

When any of the three yellow **GOTO** buttons are tapped (`GOTO IN` • `GOTO POI` • `GOTO OUT`), both PGM Players will correctly seek to the IN / POI / OUT point; however, the two PGM Players will **incorrectly** 'auto-play' from the IN / POI / OUT point when they should remain stopped. This bug is now fixed.

10. **Mira Replay App: Two Server Clips loaded into 'GANGED' PGM Players, tapping yellow GOTO button incorrectly seeks secondary PGM Player to same timecode as primary PGM Player**
This bug happens only when:

    - Two "**Server Clips**" are saved into two separate Clip Register slots are loaded into both PGM Players, each with different timecode values

    - **GANG** is active

When any of the three yellow **GOTO** buttons are tapped (`GOTO IN` • `GOTO POI` • `GOTO OUT`), **both** PGM Players will incorrectly seek to the **same** IN / POI / OUT timecode point of the primary PGM Player; in other words, the secondary PGM Player goes to the wrong timecode. This bug is now fixed.

11. **Mira Replay App: MARK button incorrectly applies User Setup Parameter "AUTO-MARK IN" Value to MARK timecode**
Whenever the `MARK` button is tapped, it is supposed to store into the VUE MARKS list the current timecode of the LIVE EE video feeds. However, what happens instead: the stored timecode is the current LIVE EE timecode minus the value of the User Setup parameter AUTO-MARK IN value. This bug is now fixed.

12. **Mira Replay App: Mira Explorer/Replay App Crash at Load or Save Replay Event Template file**
Mira Explorer and Mira Replay apps crash in certain situations when loading or saving Replay Event Templates:

    - If the Replay Event in use has **no** "Clip Naming" softkeys defined, then the Mira Replay app doesn't crash...

    - But as soon as the User Setup menu's Clip Naming data are entered, and then later, when SK8 or SK9 buttons are tapped to begin naming a Clip Register clip, the Mira Replay and Mira Explorer apps will crash

    - And if a New Replay Event is being created, a pre-stored Replay Event Template is selected in the Wizard at Step #4 <u>and</u> that template has Clip Naming softkeys defined, then the Mira apps will crash at that point in the Wizard.

    - But if the Replay Event Template has <u>no</u> Clip Naming softkeys defined, then the Wizard will proceed, and the Replay Event will be properly created, and recording will commence, etc.

    These bugs are now fixed.

13. **Mira Explorer App: "Clip Trim" functions broken in "Clip Modify" dialog window**
When using the "Clip Modify" dialog window with the "Trim" tab selected (*shown below*), the "Trim In" and "Trim Out" functions did not operate correctly, while the associated QWERTY keyboard shortcuts did operate correctly.
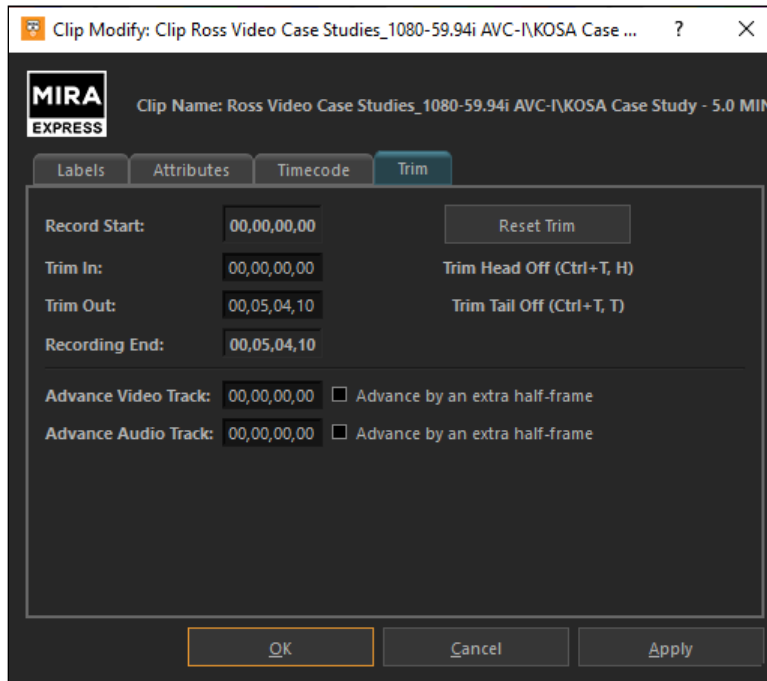
These bugs are now fixed.

14. **Mira Explorer App: LOAD Button "Grayed Out" when Locking/Unlocking a Channel Transport**
When Mira Explorer app is closed/quit *while* a "Channel Transport" is locked (*via the **CTRL+Mouse Click** lock function*), then launch Mira Explorer app again and unlock the Channel Transport, the Clip Load button is grayed out and inaccessible. The only way to regain access to the Clip Load button it to close/quit Mira Explorer again while the Channel Transport is unlocked.

This bug is now fixed.

15. **Mira Explorer App: Using "GoTo/Seek to Timecode" function with imported clips, seeks to wrong timecode**
This bug is now fixed.

In the Mira Explorer app, Users can easily seek to a desired timecode point within the currently loaded clip while a clip is loaded in a given video channel transport:

a) Double-Click the "Count Up" timecode (the "lower" green timecode number); this changes that timecode display into a "Timecode Entry Field".

b) Type value of the desired timecode into numeric keypad on QWERTY.

c) Tap ENTER on QWERTY to "seek" or "goto" the defined timecode within the currently loaded clip.

This works fine if the clip loaded in the channel was recorded via HD-SDI video input.

This procedure does NOT work if the clip loaded in the channel transport was imported via the File Import app. The procedure will "seek" to an incorrect timecode value.

And if the imported clip is parked on the first frame this "seek" operation does NOTHING.

This bug is now fixed.

16. **Mira Explorer App: Unable to create Child Clips from previously used Clip Name**
When a clip is created with a given Clip Name, you're able to create Child Clips from that Parent Clip.

However, when these Parent and Child Clips are all deleted, and then a newer Parent Clip is recorded with the *exact same* Clip Name as the old Parent Clip that was deleted earlier, then it is impossible to create Child Clips from this newer Parent Clip.

This bug is now fixed.

17. **Mira Explorer App: Rare Crash**
Fixed app crash that was quite rare but happened most often while playing out Playlists of Stills.

18. **Mira Explorer & Mira Replay Apps: Audio Meter Scaling Changes**
Audio Meters level scaling was adjusted to correct a 12dB offset with respect standard audio reference scaling.

VERSION 9.1.0 – (SKIPPED)

This version number was skipped.

VERSION 9.0.2 – AUGUST 2023

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEMS)

No New Features

BUGS FIXED • (MIRA & MIRA+ REPLAY SYSTEMS)

1. **AMP Protocol: "Get Clip List" Command Broken**
The AMP protocol command "Get Clip List" returned only one clip from the Clip Library, no matter how many clips are stored. This bug is now fixed.

2. **All Remote-Control Protocols**: Improved command latency of video servers running in video standards below 30Hz.

3. **Mira Explorer App: Very Rare App Crash**
When running a Playlist with a series of stills in a loop for several hours non-stop, the Mira Explorer App would eventually crash. This bug is now fixed.

4. **File Import App: Video not Centered upon file import**
When importing media files with a video aspect ratio that's different from the current operating

video standard, the media file's video would not be 'centered' in the raster. This bug is now fixed, and the video is now centered in the raster.

5. **File Import App: Photoshop media files (.psd) do not import**
When a still media file with the .psd file extension was imported, an error message resulted, and the file was not imported. This bug is now fixed.

6. **File Import App: Black frame added to end of clip**
For media files created with certain video codecs, upon import of these media files an extra frame of black was added to the end of the clip. This bug is now fixed.

7. **Piero Broadcast Interface: Clip deleted in Mira Replay App Clip Register remains visible in Piero user interface 'Mira Clip Register'**
Deleting a 'camera clip' from the Clip Register within the Mira Replay app would not update that same clip listing in the Mira Clip Register display within the Piero Broadcast user interface—leaving the ability to load a camera clip that was deleted in the Mira replay system itself. This bug is now fixed; the deleted clip is now immediately removed from the Piero Broadcast user interface.

   NOTE: The Piero Broadcast Operator must manually "refresh" the Mira Clip Register listing in the Piero user interface before seeing the deleted camera clip. This issue will be resolved in a future Piero Broadcast software release (which will "auto-refresh" the listing).

8. **Mira Replay App: Play List Melt (Export) does not include "Server Clips" in Melted (exported) Media File**
If a Mira Replay app's Play List contains "Server Clip" items from the Mira Clip Library, those clips are not included in the exported media file when a Play List Melt operation is performed on that Play List. This bug is now fixed.

9. **Mira Replay App: Export Destination that exports Play Lists into "One" media file does not always include all items from Play List**
If a Play List is exported *before* adding more items to the Play List, and then later the Play List with more items is exported as "One" media file, the previously exported items in the Play List would not be included in the most recent export. This bug is now fixed.

VERSION 9.0.1 – APRIL 2023

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

1. **Software Licensing Feature**
Added new feature that "keys" a new software license for the "Mira Software Suite" to the Mira Express motherboard serial number.

   Learn more about the purpose behind this new software license.

2. **Support clips longer than 24 hours**
Increased maximum duration of SDI input recordings to go beyond 24-Hours and up to currently available media storage open space.

3. **Audio Level Metering Displays in Mira Explorer MultiViewer and Mira Replay PGM Players**
   Features of the new Audio Metering Displays:

   a) **Mira Explorer app**: The new Audio Metering Displays can be superimposed over the active video image within the video panes independently for each video channel, but only within the MultiViewer display (when VIEWER is active).

      - **Position** & **Opacity** of each Audio Meter Display can be set to one of six locations within each video pane through the "**Audio Meters**" tab in the **General Configuration** dialog window:
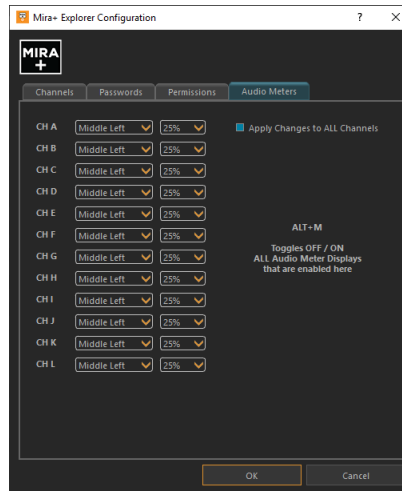
   b) **Mira Replay app**: The new Audio Metering Displays will be superimposed over the video image within the PGM-1 / PGM-2 (and PGM-3 / PGM-4 output channels, if enabled)…

      - **Position** & **Opacity** of each Audio Meter Display can be set to one of six locations within each PGM Player video pane through a new set of USER SETUP menu parameters.

   c) The "**ALT**+**M**" keyboard shortcut can be used at any time to toggle ON or OFF **all** the Audio Meter Displays in both the **Mira Explorer** app and the **Mira Replay** app.

   d) The number of audio tracks displayed in the Audio Metering Displays is dictated by:

      - How many audio tracks exist in the clip currently loaded in the given video channel (during PLAY operations)

      - How many audio tracks exist in the clip currently recording in the given video channel (during LIVE EE and RECORD operations)

4. **Mira Replay app: Save "Server Clips" from Mira Explorer Clip Library into any Mira Replay Clip Register Location**
   In previous Mira software versions, "Server Clips" stored in the Mira Explorer Clip Library could be saved only into "BANK #0" of the Clip Registers within the Mira Replay app.

   With Version 9.0 software and above, these "Server Clips" can now be saved into **any** "BANK #" (BANK #1 — BANK #99) of the Clip Registers. To use this feature:
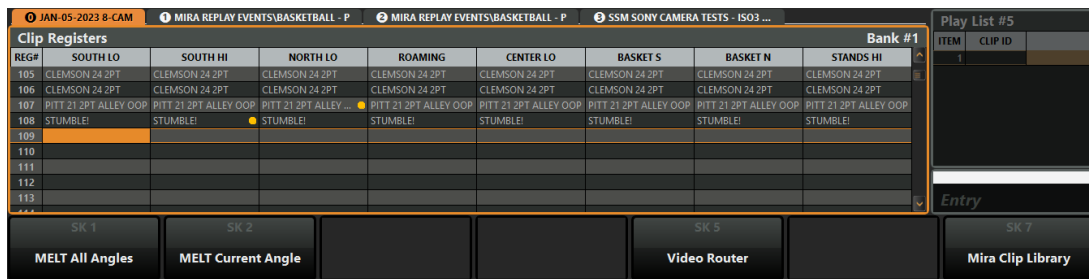
   a) Activate the desired **BANK #** and **CLIP ID Row** in the **Clip Register** into which you want to save the Mira Clip Library Server Clip

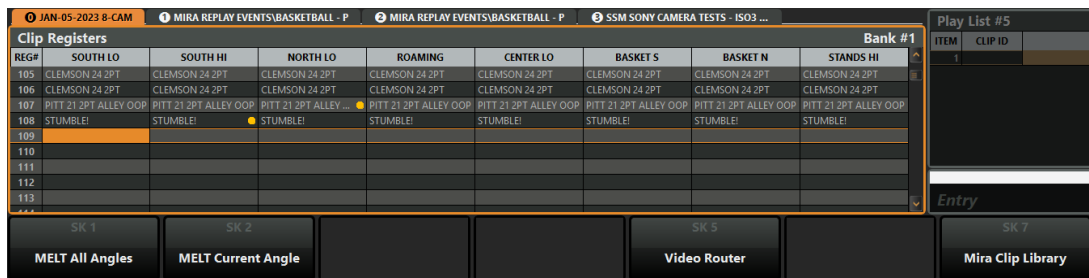*(If there are **six** or fewer Cameras in your Mira Replay Event, **skip** this step)*
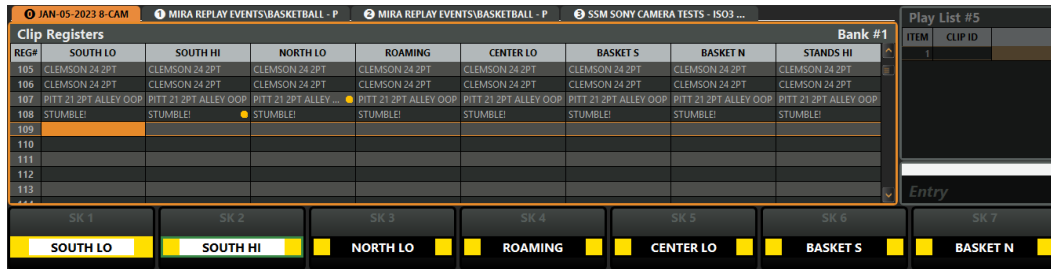
If there are **seven** or more Cameras in your Mira Replay Event:

Double-Tap SHIFT button to display the "Alternate set of Softkeys"...

b) **Tap Softkey** 7 button (**Mira Clip Library**) to activate the **Mira Clip Library** sub-menu:


c) **Tap Softkey** 7 button (**Mira Clip Library**) to activate the **Mira Clip Library** sub-menu; then highlight the desired Mira Server Clip you want to save into the current Clip Register Bank.

d) **Tap Softkey** 2 button (**SAVE in ACTIVE BANK**) to save the highlighted clip into Active BANK #1:
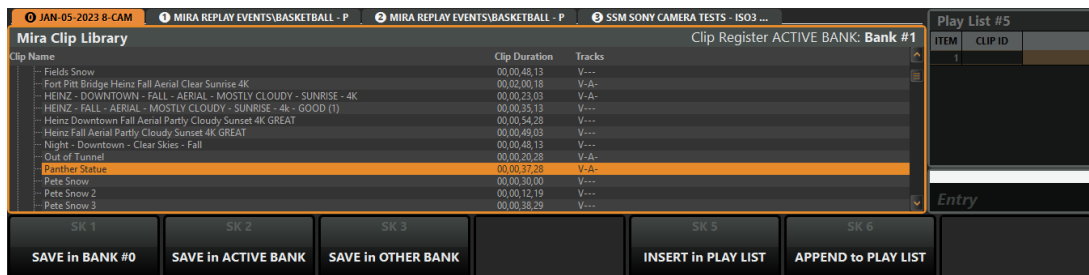
e) Repeat previous step for any additional clips you want to save into BANK #1

f) **Tap** `EXIT` button to finish. The Server Clips you've added to BANK #1 will be displayed with green text:
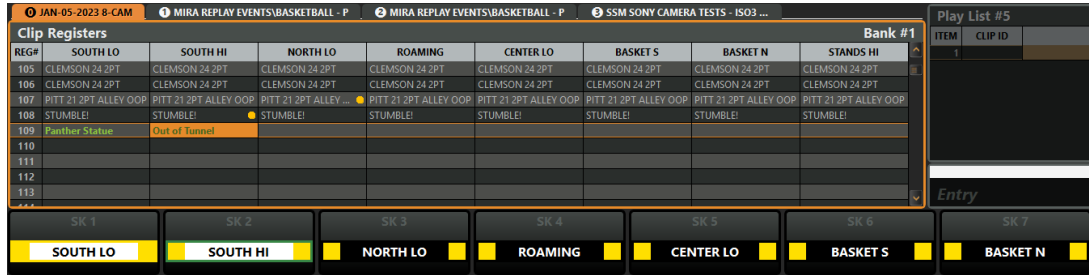

5. **Mira Replay app: Audio Tracks Swap and Mute in saved Clips**
This feature allows the Mira User to swap or mute individual audio tracks within clips stored in the Clip Registers during `CLIP PLAY` mode.

Individual audio tracks can be swapped with other audio tracks within the clip itself, or swapped with audio tracks from an entirely separate clip stored elsewhere within the Clip Registers—including with audio tracks from "Server Clips" stored in the Clip Registers from the Mira Explorer Clip Library. To use this feature:
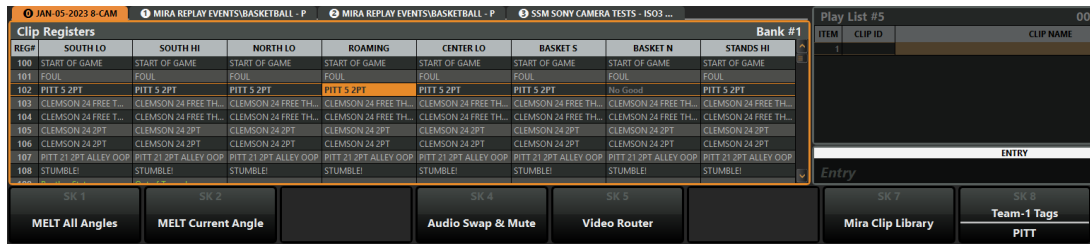
a) **Tap** `LOAD` button to load a clip stored in any Clip Register into any available PGM Player; this activates `CLIP PLAY` mode in the PGM Player (`CLIP PLAY` mode **must** be active to access the Audio Swap & Mute functions!):
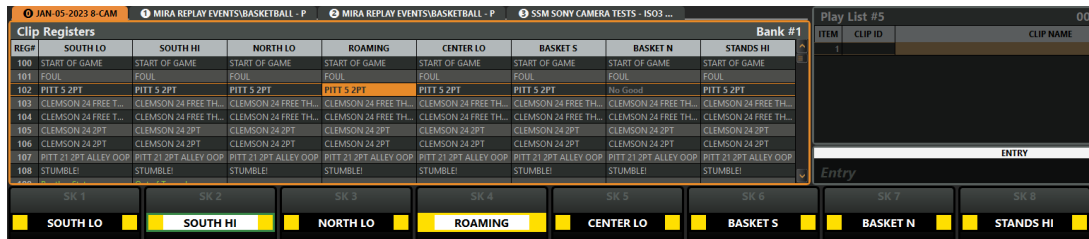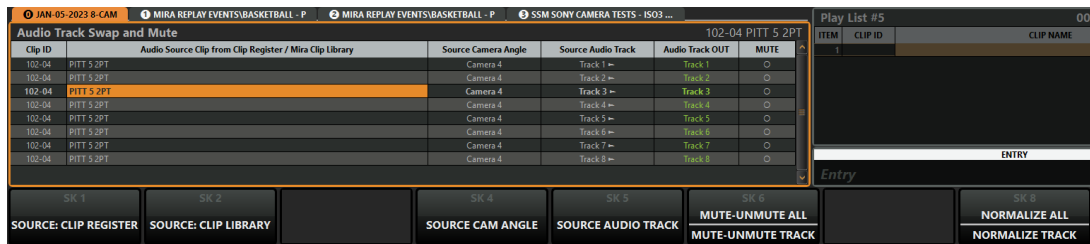

b) **Double-Tap** `SHIFT` button to display the "Alternate set of Softkeys":
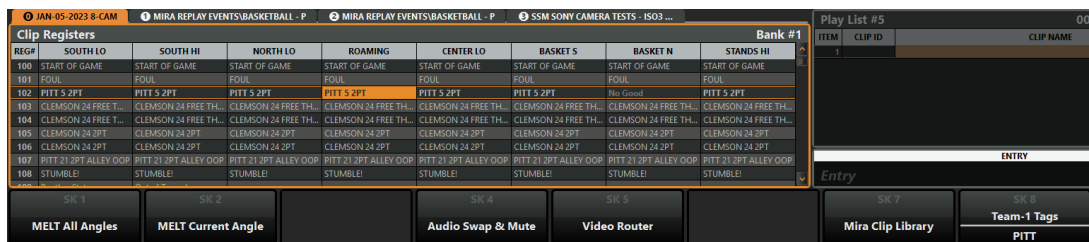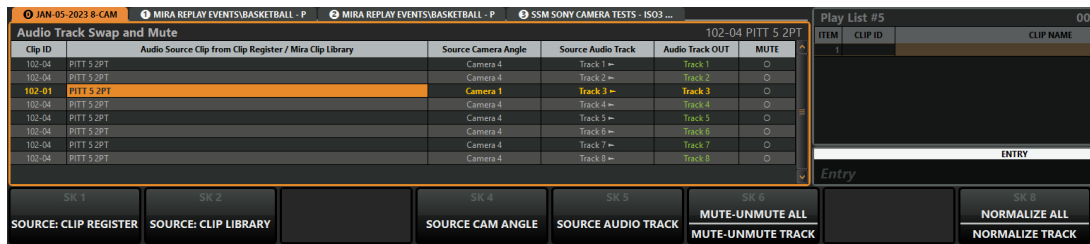

c) **Tap Softkey** `4` button (**AUDIO SWAP & MUTE**) to activate the Audio Swap & Mute sub-menu:

d) **Move** highlighting cursor to desired audio track you want to swap or mute; in this example, **Track 3** is highlighted:

e) To swap to an audio track from another **Camera Angle** of the **same Clip**, type the desire **Camera #** into the numeric keypad (i.e. "**1**"), then **Tap Softkey** [**4**] button (**SOURCE CAM ANGLE**):

This swapped Audio Track #3 from Camera #1 into Track #3 of the loaded clip.

f) To swap to an audio track from another **Clip** from the **Clip Register**, first highlight the target audio track with the highlighting cursor; then **Tap Softkey** [**1**] button (**SOURCE: CLIP REGISTER**):
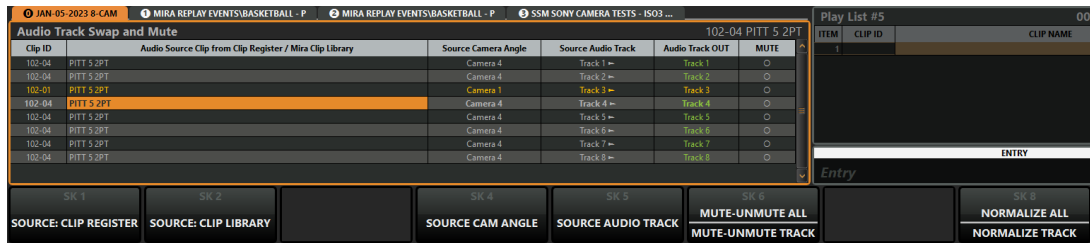
This displays the list of clips in the Clip Register; position the highlighting cursor over the clip you want to select for the audio track swap, then **Tap Softkey** **1** button (**SELECT CLIP**):

The selected Clip Register clip is swapped into Track #4:

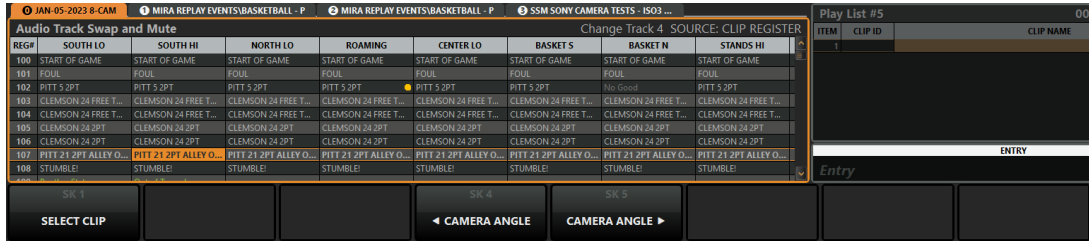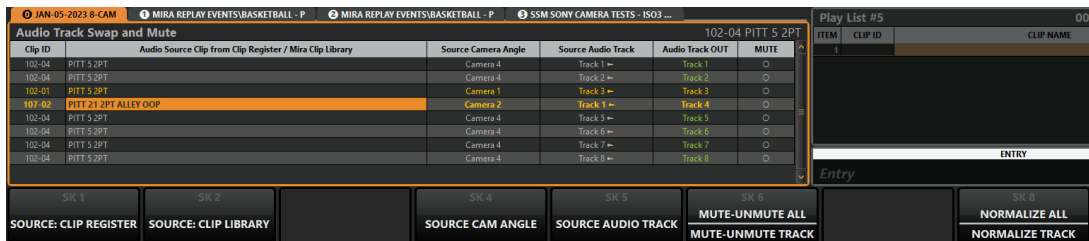You can then optionally change the SOURCE CAM ANGLE (using SK4) and/or the SOURCE AUDIO TRACK (using SK5) from this other Clip.

g) To **MUTE** an audio track, first highlight the target audio track with the highlighting cursor:
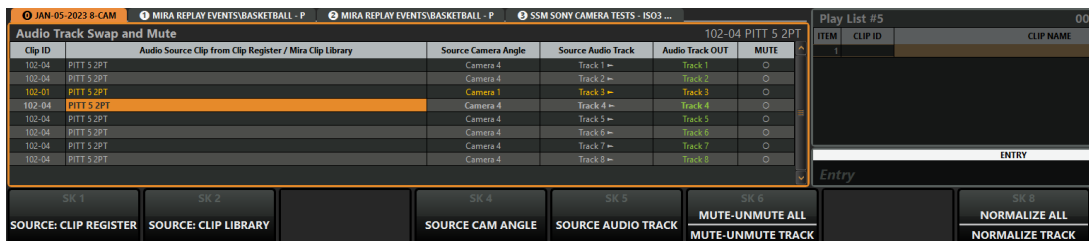
Then **Tap Softkey** **6** button (**MUTE-UNMUTE TRACK**):
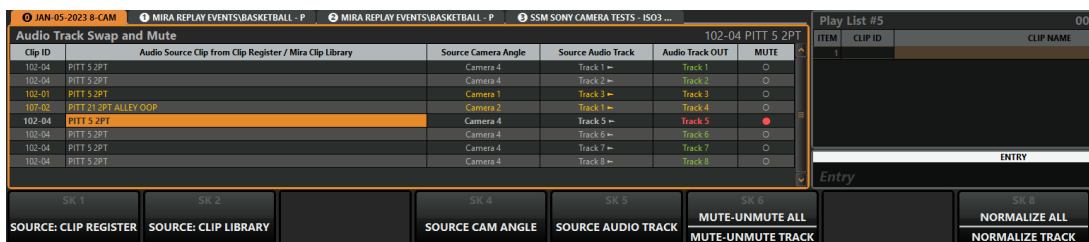
The highlighted audio track is muted, as indicted with red "Track" text and red "dot" in the MUTE column.

h) **Tap** **EXIT** button to finish.

6. **Mira Replay app: Loading & Playing Play Lists from Foreign Replay Event**
   Added new feature to allow Play Lists from Foreign Replay Events to be opened and played through the active Local Replay Event.

   To use this feature:

   a) **Tap** `SHIFT` + `SEARCH` to access the "Select Foreign Replay Event" menu

   b) Highlight desired Foreign Replay Event, then **Tap** `3` button (**SET Favorite**), followed by a Tap of a softkey (SK-1 through SK-9) to set the Favorite #.

   c) **Tap** `EXIT` button to finish.

   d) **Tap** `PLAY LIST` button to activate `PL` `EDIT` mode in the selected PGM Player.

   e) **Hold Down** `Ctrl` then **Tap** `1` — `9` on QWERTY (the "Favorite **#**"); this will load the desired "Favorited Foreign Replay Event" in the Play List pane.

7. **Mira Replay App: "Replay Event Name" displayed in Clip Register**

   The name of the currently active Replay Event is now displayed above the Clip Register pane in the Mira Replay app.

8. **Mira Replay App: Copy & Paste Play List items from Foreign Replay Event**

   While a Foreign Replay Event is active in `PL` `EDIT` mode, it's now possible to copy an item from a Play List in the Foreign Replay Event by using the **SK-8 COPY** softkey, switching back to the Local Replay Event (`Ctrl` + `0`) and then using **SK-9 PASTE** to paste that Play List item into the Local Replay Event.

9. **Mira Replay App: Play List Library – New Softkey functions for Play List 'Copy', 'Paste', 'Insert', & 'Append' to 'Current Play List'**

   While the Play List Library is active (shortcut = **SHIFT** + **PLAY LIST**), a set of new softkeys are now present to make it simpler to copy one or more Play Lists into the currently active Play List.
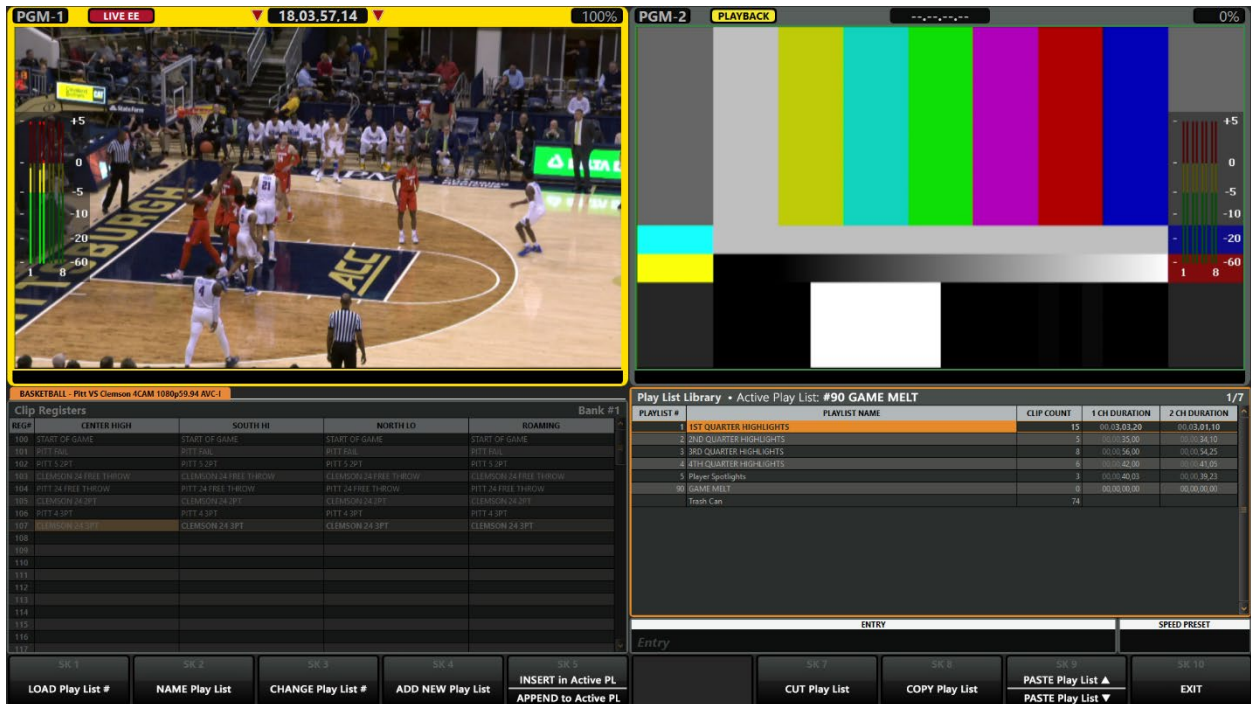
These new softkeys make it much easier to create a final "Game Melt" Play List, for example.

a) Create a Game Melt Play List, keeping it as the currently active Play List.

b) Enter the Play List Library by tapping **SHIFT** then **PLAY LIST** buttons (shown below).

c) Highlight the Play List you'd like to add to the Game Melt

d) Tap **SK-5** "**APPEND to Active PL**"; this adds all items from the currently highlighted Play List into the Game Melt Play List.

e) Repeat steps (c) and (d) for additional Play Lists you'd like to add to the Game Melt.

f) When finished, tap **PLAY LIST** button to exit Play List Library and to exit back to the Play List Edit mode.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

1. **Mira Replay App: Paste/Restore in CLIP PLAY mode didn't load Pasted/Restored Clip**

Fixed issue in which clip was not loaded after Paste/Restore operation.

2. **Mira Replay App: Play List Library's Play List Names Reset to 'Untitled'**

In the Play List Library when an entire Play List is copied and pasted, the title of that Play List was reset to "Untitled". The Play List name is now preserved when pasted.

3. **Mira Replay App: Contrast of "No Good" Clip Name in Clip Register / Play List**

Adjusted the contrast of the "No Good" text for better visibility.

4. **Mira Replay App: "Tags Editor" on SK-10 re-labeled as "BOTH Teams Tags"**

The SHIFTED label for SK-10 in the Alternate set of softkeys was incorrectly labeled as "Tags Editor". This has been changed to the correct label "BOTH Teams Tags".

5. **Mira Replay App: Tags Incorrectly Applied to new Clip Register Clips**

In certain situations, SAVE a new clip into the Clip Register would incorrectly and automatically apply pre-defined metadata tags.

6. **Mira Replay App: Tags Editor Crash**

Fixed issue in Tags Editor in which tapping [HOME] or [END] on QWERTY keyboard would sometimes cause a Mira Replay app crash.

7. **Mira Replay App: Tags Editor Unexpected Behavior**

Fixed issue in Tags Editor in which tapping [PLAY LIST] button or tapping [SHIFT] + [MARK] would sometimes cause unexpected behavior in the Mira Replay app.

8. **Mira Replay App: Play List Edit sub-menu incorrectly Exited**

Fixed issue in Play List Edit submenu (Edit Item Flags), in which the sub-menu would incorrectly exit upon selecting SK-3 through SK-9.

9. **Mira Replay App: Play List Names lost when using Replay Event Template**

Fixed an issue when creating a new Replay Event from an Event Template would not apply the Playlist Names from the Template into the Play Lists in the new Replay Event.

10. **Mira Replay App: Deleting Play Lists contents created duplicate Trash Bin**

Fixed an issue when deleting Play Lists that added the contents to Trash Bin but also created a duplicate Trash Bin with zero items in it.

11. **Mira Replay App: Last item in BANK 0 incorrectly added to Play List**

Fixed issue in which the last item in BANK 0 is incorrectly appended/inserted into the current Play List instead of the currently highlighted item in BANK 0

12. **Mira Replay App: Two different Play Lists cannot be loaded into PGM-1 & PGM-2**

Fixed issue in which two different Play Lists cannot be loaded into PGM-1 and PGM-2; the same Play List would sometimes incorrectly get loaded into both PGM Players.

13. **Mira Explorer App: Added Window Title of Undocked MultiViewer**

Now displays "Mira MultiViewer" in Windows title bar.

14. **Mira Explorer App: Keywords Column in Clip Library**

Fixed issue in which "Keywords" column could not be made visible in Library view.

Keywords are now also searched with a Clip Library search operation.

15. **Mira File Import App: 720p DVCPRO-HD Media Files imported only half the File**

Fixed issue when importing 720p DVCPRO-HD MXF media files in which only half the duration of the media file is imported.

16. **Security Fix: Ethernet Port 8080 no longer has Remote Access**

    Fixed issue to restrict remote access to Ethernet port 8080.

VERSION 9.0.0 (SKIPPED)

This version number was skipped.

VERSION 8.3.2 – JANUARY 2023

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

1. **AMP Protocol: Clip Library Listing caused system crash in "certain cases"**
   Fixed an issue in which clips that are named in certain ways would result in a Mira Express system crash when the "Get Clip List" command was issued from AMP remote controllers.

2. **Mira Replay App: "Page Up" / "Page Down" buttons not working**
   Fixed an issue with the "Page Up" / "Page Down" buttons not working in the Mira Replay app, to move the "highlighting cursor" within the Clip Register, Play List, and User Setup menu panes.

3. **Mira Replay App: "Numeric Clip Load" in Clip Register not working**
   Fixed a broken function in the Mira Replay app: typing a number into the QWERTY keypad and then tapping the LOAD button on Mira Control Surface must LOAD that defined Clip ID # into the active PGM Player.

VERSION 8.3.1 – AUGUST 2022

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

1. **Mira Replay app: PL-EDIT Mode CUT operation that deletes all Playlist items causes Mira Replay & Mira Explorer app crash**

   Fixed Bug: When a CUT operation is performed on a Playlist during PL-EDIT mode, and <u>all</u> items in the Playlist are deleted, the Mira Replay and Mira Explorer apps both close / crash.

2. **Mira Replay app: PL-EDIT Mode CUT operation on 1st Playlist item causes last Playlist item to be replaced with duplicate of penultimate Playlist item**

   Fixed Bug: When a CUT operation is performed on the 1st item in a Playlist during PL-EDIT mode, the last item in the Playlist is replaced with a duplicate of the penultimate playlist item.

3. **Mira Replay app: PL-EDIT Mode "SHIFT+SK-9" (PASTE ▲) operation broken**

   Fixed Bug: The **PASTE ▲** function did not function at all.

4. **Mira Replay app: Applying a Replay Event Template to a New Replay Event will not apply stored "Playlists with Server Clips"**

   Fixed Bug: Applying a Replay Event Template with stored Playlists containing Server Clips would not apply the Playlists to the New Replay Event.

5. **Mira Replay App: Broken Playlist AUX Audio**

   Fixed Bug: When a Playlist is aired with AUX audio enabled, the main audio from SDI Output would be a mix of AUX Audio and the Audio from the video portion of the Playlist (when it should be only AUX Audio). Also, when monitored from Mira Control Surface headphone output, only the Audio from the video portion of the Playlist is heard (when it should be only AUX Audio).

6. **Mira Replay App: Distorted Headphone Audio from Mira Control Surface panel**

   Fixed Bug: Intermittent issue caused severe distortion in Headphone audio from Mira Control Surface panel.

7. **Mira Replay App: During 2-PGM Playlist AIR (PVW>PGM), Headphone Audio from Mira Control Surface panel is not heard on *every other* Playlist Item**

   Fixed Bug: Headphone audio from Mira Control Surface panel was present only on every other Playlist item.

8. **Mira Explorer app: Unable to re-arrange items in Playlist while Playlist Editor is active**

   Fixed Bug: Applies to the Playlist Editor in the Mira Explorer application only; items could not be rearranged with drag-and-drop operation.

VERSION 8.3.0 – JUNE 2022

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

1. **System: Windows Security Patch**
   Added work-around security patch for [Microsoft Windows CVE-2022-30190](#).

2. **Mira Explorer app: Search now 'Auto-Expands' Folder(s) with matching clips/playlists/sub-folders**

   When searching for text in Mira Explorer, the Clip Library now automatically expands any folder containing matching clips, playlists, and sub-folders.

3. **Mira Explorer app: New Timecode Chase Feature**

   Added new timecode chase functionality, where a "Chase List" of clips can be created (similar to a Playlist), with each item/clip is assigned a timecode at which the clip is loaded into a video channel and played. This timecode chase list follows the incoming timecode signal fed from an

external "master" device and into the "LINE IN" 3.5mm audio jack on the motherboard audio I/O at the rear of the Mira Express chassis.

4. **Mira Explorer app: New "Viewer" Feature**

   A new button is added near the top of the Mira Explorer app that activates a MultiViewer to display all video channels of Mira Express on the computer display. This Viewer can also be "Undocked" (via the "View" menu) with the undocked Viewer window placed onto a secondary computer display.

5. **Mira Explorer & Mira Replay apps: New "Clip Networking" Feature**

   Enables two or more Mira Express video servers to be interconnected via 1G Ethernet, with .clip files played across the network from one Mira Express server and into another Mira Express server. This feature applies to both the Mira Explorer app and the Mira Replay app.

   To enable this feature: In Mira Config app on the Video tab, enable the "Net Video" checkbox on <u>all</u> Mira Express servers interconnected via 1G Ethernet network.

6. **Mira Explorer apps: New "Transport Controls" Feature**

   Adds a new menu item in Mira Explorer "Transport Controls" that provides a series of QWERTY keyboard short-cuts to the Mira Explorer app. These shortcuts can also be used by external third-party control panels via any USB port on Mira Express (such as P.I. Enterprise "X-Keys" control panels).

7. **Mira Import app: New "Watch Folders" Feature**

   Adds the Watch Folder functionality to the Mira Import app running on Mira Express.

8. **Mira Replay app: Short-Cut to change Play List # from Play List Library**

   In the Mira Replay app, while PL EDIT mode is active in **PGM Player**, press and hold down the PLAY LIST button, then tap the ▲ / ▼ buttons on Mira Control Surface to change to a new Play List # from the Play List Library.

9. **Mira Replay app: Replay Event Name now displayed in Window Title Bar**

   The Replay Event Name is now displayed in the Mira Replay app window within the Title Bar at the very top of the window.

10. **Mira Replay app: Tagged Team Name displayed on Tag Softkey label**

    Within the Mira Replay app, when a "team name" is assigned to the Tag function, that "team name" is now displayed on the Tag Softkey label on SK-8 and SK-9.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

1. **System: Functional hang-up after deleting .clip files via Mira Explorer app and via remote control interfaces.**

   In rare cases under very particular conditions, deleting a .clip file via the Mira Explorer app or from remote control interfaces would then cause the controlling app to "functionally hang"; the only remedy was to quit and re-start the controlling app. This bug is now fixed.

MIRA EXPRESS

2. **Mira Explorer / Mira Replay apps: Export of .clip Files stored on Drive Volumes other than "H:\Video"**

   Fixed issue where the Mira Explorer and Mira Replay applications would not export content from ".clip" files stored on drive volumes other than "H:\".

   For Mira Express, that means Mira Replay app would not export content from ".clip" files stored on the "K:\" or "M:\" drive volumes (a.k.a. "CLIPS SSD").

3. **Mira Explorer app: Playlists containing "missing items" now skips those items**

   When a Playlist contains "missing items" (items in which the underlying clip files were either re-named, deleted, or moved to another folder), the Playlist playout would halt on the missing item(s). This bug is now fixed.

4. **Mira Import app: Failure to 'close' MXF media file after import during "native" codec import**

   This bug would leave the source MXF media files "open" from the file system point of view, preventing other applications from moving, deleting, re-naming, or otherwise altering the source media files after they were imported. This bug is now fixed.

5. **Mira Replay app: Entry Field text when navigating to/from Play List Library**

   Any text in the Entry Field within the Mira Replay app window is now cleared when using the softkeys to navigate to or from the Play List Library.

VERSION 8.2.4 – 8.2.1 (SKIPPED)

These version numbers were skipped.

VERSION 8.2.0 – FEBRUARY 2022

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

1. **System: Timecode Chase Input**
   Changed Timecode Chase feature to use 'stereo audio input' on computer motherboard instead of 'mono audio input' to allow Timecode Chase to work on legacy motherboards.

2. **Mira Replay app: New Tags Feature**
   Added new functionality to Mira Replay app to allow metadata tags to be applied and saved with Clip Register clipped content, and exported as a 'sidecar' XML file when clip content is exported from a Clip Register.

3. **System: New "As Run Log" Report Generator app**
   Added this new feature to filter, display, and generate a PDF or CSV file of media clips that have been played in any video channel for up to the previous 90 days.

ROSS

4. **System: RossTalk RECEIVE Commands**
   Added new feature to support RossTalk protocol "receive" commands via Ethernet to control video channels in the Mira replay system.

5. **System: Updated MXF Media File Libraries to latest version**
   These updated MXF libraries improves handling of MXF media files during Import and Export operations when the MXF contains native video codec essence.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

1. **Mira Replay App: Rare Crash**
   Fixed an issue where the Mira Replay application would sometimes crash on very rare occasions.

2. **System: Missing Video Panes in DashBoard**
   Fixed an issue where the video panes would not appear in a DashBoard panel running on the Mira replay server itself.

3. **Mira Explorer app: "Create Child Clip" from non-existent angles in a multi-angle .clip file**
   Angles that were not present in the .clip file would be offered for creating a Child clip. These angles are now dimmed and un-selectable in the pop-up menu that appears when you right-click on this .clip file and select > "Create child clip from angle".

4. **System: Erroneous Error Messages about assigning RS422 to a Video Channel**
   Fixed an issue in which erroneous error messages would appear asking the User to assign an RS422 port to a video channel.

5. **Mira Import app: Media Files Imported with "Frame of Black" at Start or End of .clip file**
   Fixed an issue with the Media File Import app (using FFmpeg libraries) when importing certain content that caused a frame of Black to be included at either the start or end of the imported .clip file.

6. **Mira Import app: Media Files Imported with "Audio Glitches" in .clip file**
   Fixed an issue that caused "audio glitches" when importing media files containing audio with a 44.1kHz sample rate.

7. **Mira Import app: Media Files Imported with Incorrect Aspect Ratio**
   Fixed an issue with the Media File Import app (using FFmpeg libraries) when importing media files with an aspect ratio different from the currently active video standard. The File Import app now anchors video into upper-left corner, instead of resizing it.

8. **System: AMP Protocol – Root folder now called "Default" in command replies**
   Some external third-party applications require this exact name for the 'root folder' (a.k.a. "H:\Video" folder) in order to function properly.

9. **System: AMP Protocol – Received Command "No Reply"**
   Fixed an issue where received AMP protocol commands sometimes resulted in 'no reply' to the external controlling device.

10. **System: AMP Protocol – Record Cue Command when used with 'long' clip name**
    Fixed an issue where the AMP protocol RECORD_CUE command would fail when a 'long' clip name was specified with the command.

11. **System: Timecode Output Error**
    (Mira Express only)
    Corrected an issue with error in the embedded ATC and LTC timecode output on the two PGM Players in Mira Express.

VERSION 7.1.18 – JULY 2021

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUG FIXES • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

VERSION 7.1.17 – JULY 2021

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUG FIXES • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

VERSION 7.1.16 – JUNE 2021

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUG FIXES • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

VERSION 7.1.15 – MAY 2021

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUG FIXES • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

VERSION 7.1.14 – APRIL 2021

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUG FIXES • (MIRA EXPRESS REPLAY SYSTEM)

1. **Quad Viewer SDI OUT Display**
   Fixed an issue where data overlaid onto the Quad Viewer SDI Output (i.e. Clip Name and Timecode) would not appear.

   This bug was introduced in V7.1.13 software.

VERSION 7.1.13 – NOVEMBER 2020

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

1. **Piero Broadcast Integration with Mira Replay systems**
   Added integration of Ross PIERO sports graphics analysis system (Broadcast edition) with all Mira replay systems.

2. **Default Softkey Label Toggle in Mira Replay App**
   Changed default softkey menu for Mira Control Surface when entering Playlist Edit mode—so camera angles are now presented first.

   o Double-tap **SHIFT** button (on either Mira Control Surface or QWERTY Keyboard) to switch to Playlist editing softkeys. Tap again to return to Camera-select softkeys.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

VERSION 7.1.12 – SEPTEMBER 2020

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUGS FIXED – MIRA FILE IMPORT APP

1. **Media File Import App Compatibility Fixes**
   Improved compatibility of certain media files codecs and wrappers during media file import transcoding while using the FFmpeg codec libraries.

VERSION 7.1.11 – AUGUST 2020

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

1. **Unresponsive Mira Control Surface panel**
   Corrected an issue which could cause Mira Control Surface control panel to become unresponsive after 2 to 3 hours (*or more*) of continuous operation.
2. **Mira Control Surface Jog Control Playback Error**
   Corrected very rare JOG playback issue: When Rotary Dial stops spinning, the PGM playout channel sometimes would not stop playing.

VERSION 7.1.10 – MARCH 2020

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

1. **New Motherboard Support**
   The motherboard for the 2RU chassis video server/replay systems (Mira Express) migrated to a new model. This software version adds support for this new motherboard.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

VERSION 7.1.7 THROUGH VERSION 7.1.9

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features. These release version numbers were only for **Tria News** video servers.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes. These release version numbers were only for **Tria News** video servers.

VERSION 7.1.6 – AUGUST 2020

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

VERSION 7.1.5 – NOVEMBER 2019

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

VERSION 7.1.4 – NOVEMBER 2019

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

1. **File Import on Mira Express while operating in 720p Video Standards**
   Corrected an issue where Media file import while operating in 720p standards would not function at all.

VERSION 7.1.3 – OCTOBER 2019

NEW FEATURES • (MIRA EXPRESS REPLAY SYSTEM)

No New Features.

BUGS FIXED • (MIRA EXPRESS REPLAY SYSTEM)

No Bug Fixes.

KNOWN ISSUES

VERSION 9.0.1 – APRIL 2023

1. **Audio Swap & Mute with "Foreign Replay Events"**

   While using a "Foreign Replay Event" (which is a Mira Replay Event that's **not** actively recording), the Audio Swap & Mute functionality will experience these known issues:

   a) Audio Swap & Mute (AS&M) attributes **will not** operate with Clips from a "Foreign Replay Event" when that Foreign Replay Event is hosted on a **remote** Mira machine. When such a clip is played across the Ethernet network from the remote Mira server and through the PGM Players of the local Mira server, the AS&M attributes will be ignored, and the "regular" audio tracks will be played from those remote Foreign Event Clips.

   This issue will be fixed in a future software release.

   Please also note: Audio Swap & Mute attributes **will** operate properly with Clips from a "Foreign Replay Event" when that Foreign Replay Event is hosted on the **local** Mira machine. The AS&M attributes will be obeyed in those Clips as they are played in the PGM Players of the **local** Mira machine.

   b) When a Clip with AS&M attributes from a Foreign Replay Event that's hosted on **either** the **local** or a **remote** Mira server is added to a Play List on the local Mira server, if/when that Play List is later exported from the local Mira server, the AS&M attributes will be ignored by the file export operation—and only the 'regular' audio track mapping will be present in the exported media file.

   This issue will be fixed in a future software release.

VERSION 9.0.0 (SKIPPED)

This version number was skipped.

VERSION 8.3.2 – JANUARY 2023

No known issues.

VERSION 8.3.1 – AUGUST 2022

No known issues.

VERSION 8.3.0 – JUNE 2022

No known issues.

VERSION 8.2.4 – JUNE 2022

No known issues.

VERSION 8.2.0 – FEBRUARY 2022

1. **Missing Video Panes in DashBoard V9.5 and above**
   Video panes will not appear in a DashBoard panel running on the Mira replay video server itself. If the DashBoard app software version is V9.4 or below, the video panes operate properly.

VERSION 7.1.14 – APRIL 2021

(MIRA EXPRESS REPLAY SYSTEM)

1. Embedded timecode of a clip may not appear within the SDI video output stream.
   (Issue resolved in V7.1.15 software release)

GETTING HELP

- Ross Online Mira Express Help on the Web: [Mira Express Online Help](#)

- Ross Support on the Web: https://support.rossvideo.com/hc/en-us

- Our 24-hour hotline service provides access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel...

  - **During business hours (Eastern Standard Time):**

    Ross Technical Support personnel are available by telephone:

    - **Technical Support: (+1) 613-652-4886**

    - **After Hours Emergency: (+1) 613-349-0006**

  - **After hours and on weekends:**

    Emergency technical support is available. A telephone-answering device will provide the names and phone numbers of technical support and field service personnel who are on call. Ross staff are available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

  - **Serious issues needing urgent attention and tracking:**

    Please ensure you are given a ticket number and refer to this number in follow-up communications.