

# M-Series iVDR Version 2.0.9 Release Notes and Installation Instructions

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## IMPORTANT: VGA Display ‘hot-key’ sequence

**To set the correct display settings on systems without the optional front panel, press the Ctrl+Alt+C hot-key sequence after AppCenter initializes. Refer to “VGA monitor display settings” on page 12.**

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# Grass Valley Product Support

To get technical assistance, check on the status of a question, or to report new issue, contact Grass Valley Product Support via e-mail, the Web, or by phone or fax.

## Web Technical Support

To access support information on the Web, visit the product support Web page on the Grass Valley Web site. You can download software or find solutions to a problem by searching our Frequently Asked Questions (FAQ) database.

**World Wide Web:** <http://www.thomsongrassvalley.com/support/>  
**Technical Support E-mail Address:** [gvgtechsupport@thomson.net](mailto:gvgtechsupport@thomson.net).

## Phone Support

Use the following information to contact product support by phone during business hours. Afterhours phone support is available for warranty and contract customers.

### USA and Americas (includes Latin America and Canada)

Telephone (800) 547-8949 (Toll Free)  
(530) 478-4148 (Direct Dial Toll Call)  
Fax (530) 478-3181

### Europe and UK

UK Regional Service Location	Tel +44 1753 218 777 Fax +44 1753 218 757	Italy	Tel +39 72 901 428 Fax +39 72 905 371
France	Tel +33 145 297 300 Fax +33 145 297 302	Germany	Tel +49 221 1791 234 Fax +49 221 1791 235

### Asia Pacific

Australia	Tel (612) 8877 6800 Fax (612) 8877 6825	India	Tel (91) 11 373 0544 Fax (91) 11 373 0543
China	Tel (86) 10 6235 1185 Fax (86)10 6235 1190	Japan	Tel (813) 5484 6869 Fax (813) 5484 3775
Hong Kong	Tel (852)-2531-3000 Fax (852)-2802-2996	South East Asia	Tel (65) 7328 729 Fax (65)7327 649

## Authorized Support Representative

A local authorized support representative may be available in your country. To locate the support representative for your country, visit the product support Web page on the Grass Valley Web site (<http://www.thomsongrassvalley.com/support>).

## Version 2.0.9 new features and introductions

Version 2.0.9 includes performance improvements and support for all M-Series iVDR models. Features and performance improvements introduced by previous releases are also included in version 2.0.9. To learn about past releases, refer to the following section “[What’s new by version](#)”.

New in this release:

- Adds support for models M-122A and M-222A
- Adds support for the IEEE 1394 Interface option on the M-122A and M222A

Refer to the 2.0 version of the *M-Series User Manual* for information on the features introduced by this and all past software release. You can access all M-Series iVDR documentation at <http://www.thomsongrassvalley.com/support/>.

### What’s new by version

Version 2.0.9 includes all features and performance improvements introduced by previous releases. The following sections describe the introductions included in recent past releases.

#### Version 2.0.4

Version 2.0.4 introduced the following hardware features to extend the capabilities of the M-Series iVDR.

- **M-222D** - Added digital audio I/O— AES/EBU and SDI embedded, 4ch/video.
- **M-322D** - Added 50Mbps video compression— DV50, and MPEG-2 I Frame only, along with the new digital audio I/O— AES/EBU and SDI embedded, 4ch/video.
- **IEEE 1394 Input Option** - Introduced the IEEE 1394 option on the M-222D and M-322D. This option provides one 1394A input for importing and recording media from a digital recording device that uses DV format. After selecting the IEEE 1394 input for one of the Record channels, you can use the iVDR transport controls to control the DV device remotely through the 1394 connection.

**NOTE:** *Version 2.0.4 did not support models M-122A or M-222A.*

#### Version 1.6.9

- **Erase unused media**— After editing a clip by moving the mark-in/mark-out points, the remaining portion of media outside the marks can be erased to free media storage space. If the media outside the clip marks is referenced by a subclip, program, or event in a playlist, that media is not erased. Subclips and playlist events retain an extra 1 second of media before and after their mark points to allow some trimming.
- **Remote control through GPI Inputs**— The iVDR provides 12 GPI inputs through a rear panel 25-pin connector. You can assign the GPI inputs to control one or more channels and the action you want the iVDR channel(s) to take, such as play, record, stop, Fast Forward and Rewind. The iVDR channel can be configured to respond to active high or low GPI signals.
- **Controlling external equipment through GPI Outputs**— The iVDR provides 12

GPI outputs through a rear panel connector that you can use to control external equipment. You can assign the GPI outputs to channels in the iVDR using Configuration Manager. Once GPI outputs are assigned to a channel, you can use them in playlists to trigger external equipment. Further configuration is available in the Playlist application to assign the GPI output to an event or section.

- **BVW protocol**– You can use BVW protocol to control iVDR record and play channels. BVW protocol is supported using the BVW Player application running on an iVDR play channel, and BVW Recorder application running on an iVDR record channel. The iVDR applications support the standard set of BVW commands used for VTR machine control. BVW Insert Edit, used by some edit control panels, is not supported. (See also “Recording using BVW protocol” on page 6.)
- **Continuous record mode**– Continuous record mode allows you to specify a fixed length recording that records continuously. When the fixed length you specify is reached, the iVDR begins to erase the oldest media in 3 minute segments to make room for new media. In this way, new media is continuously recorded while the recording is kept to a fixed length.

The continuous recording is stored in the iVDR as a program. The program thumbnail is displayed in the Clips pane immediately after the recording starts. While recording, you can load the continuous record program in Player for playback or to create subclips. The media referenced by the subclips that you create is saved outside the continuous record program and does not subtract from the continuous record length. The subclips can be inserted in Playlist as play events.

- **Cue points**– Player now includes the Cue View. When you select Cue View, a chronological list of cue points is displayed. The list begins with the mark-in point and ends with the mark-out point. You can add additional cue points to mark other frames within the clip. You can add cue points while the clip is playing or in stop mode. When you add a cue point, it is listed by a default name (such as “cue\_1”) and timecode value.

Cue points can be used to manage clip playback– jump to the selected cue or the next cue. You can also use the cue list to create subclips. The selected cue point becomes the mark-in point, while the mark-out point is the same as the source clip. If more than one cue point is selected, a subclip is created using the first and last cue points. The “Create All” feature creates a subclip for every cue in the list. Each subclip duration is from each cue point to the source clip mark-out point.

- **Keyboard shortcuts**– A full set of keyboard shortcuts is now available for AppCenter and the control applications that run in AppCenter— Recorder, Player, Playlist.
- **Variable Speed Play enhancements** - Presets available for Variable Speed Play are now 0.25x, 0.5x, and 0.75x. In addition, a new option allows always using the selected preset when variable speed play starts rather than the last speed set by the Jog/Shuttle knob. Refer to the *M-Series User Manual* for more information.
- **Append record using serial protocol control** - Appending previously recorded clips is supported through serial control protocol using either AMP or VDCP Protocol Recorder applications. Contact Thomson Grass Valley for more information on control devices available.
- **Repositioning the AppCenter window**– When the iVDR display resolution is set to 800x600 or larger, you can reposition the AppCenter window as needed on the

Windows desktop. To reposition the AppCenter window, click the StatusBar or an open space on the Toolbar, and then drag the window to a new position.

- **NewsQ Pro support** - Commands have been added to the AMP protocol to support NewsQ Pro.

### Version 1.5.12

- **Saving a playlist as a program** - A *program* is generated from a playlist using the new **Save As Program** feature in the Playlist application. A program includes all the media in the playlist, but does not include any event that breaks the flow of playout such as a pauses between events. You can insert programs into other playlists, or load and play them using the standard Player application. You can also send a program to a GXF file or a video network stream.
- **Transferring playlists and programs** - You can transfer playlists and programs by file or network stream.
- **Saving clip and event audio levels** - You can save the audio level changes you make to a clip or an event in a list. After changing the audio level, click the **Save** button next to the audio level controls. Event audio levels are saved independent of the source clip. The saved audio level is used every time the clip or list is loaded. Unsaved changes are discarded when the clip or playlist is ejected.
- **Advanced Search** - Advanced search mode provides an extended set of attributes that you can use for locating assets anywhere in the iVDR media storage.
- **Freeze on next event** - Playlist sections and events can be configured to pause on the first frame of the next event. In operation, there is a momentary pause on the last frame of the current event, then a pause on the first frame on the next event.
- **Configuration dialog box enhancements** - The following selections take immediate effect before closing the Configuration dialog: Video Input, VITC Reader. In addition, the VITC present indicator is functional.

## Operational considerations

Use the following information in your operational planning for the iVDR.

### Minimum record to playback time

To play a clip that is still recording, start record, then *wait at least 5 seconds before starting playback*. Violating the 5 second minimum record to play time results in freeze frames and intermittent audio. This could happen inadvertently while using the transport controls. See [“Video output displays black frames when playing within 5 seconds of the record point” on page 12](#).

### Composite analog video input performance

The iVDR can record signals from most non-timebase corrected signal sources such as color under video playback devices, i.e. VHS or U-Matic VTRs, and low cost cameras. However, for reliable recording performance some devices may require external signal conditioning products, i.e. timebase correction.

## Remote control protocol support

You can use remote control devices and automation software developed for the M-Series iVDR that use industry-standard serial protocols. For each supported protocol, the iVDR provides a protocol-specific application. Be sure to contact your 3rd party automation system or software provider to ensure that the iVDR is supported. Contact your Thomson Grass Valley sales representative for a list of companies that provide certified applications for the M-Series iVDR.

## Recording using BVW protocol

To record using BVW protocol, you must manually load a new clip in BVW Recorder before the record channel can respond to the start record command. The BVW Recorder must be in “Local and Protocol control mode” to allow you to create the new clip locally. If the recording is stopped, you must eject the current clip, and then create a new clip since BVW Recorder does not support append record. Refer to the *M-Series User Manual* for detailed operating instructions.

## Using USB devices

The USB connectors on the rear panel and front panel can be used to connect a USB drive, mouse, keyboard, or other USB device. Do not plug or unplug these devices while the iVDR is being used for critical play to air activity.

## Verifying clip transfer rate before playing

Before playing a clip that is being imported from a file or stream, verify that the clip transfer rate is higher than the clip data rate using the Transfer Monitor. This is required to ensure uninterrupted playback.

## Playing lists containing GPI output triggers

You can assign GPI output triggers to events and sections in a playlist. The GPI outputs can be used to trigger external equipment when the list plays. Before you can use GPI output triggers in a list, you must assign GPI outputs to the play channel using Configuration Manager. If you want to play a list that was created on another play channel, you must ensure that GPI triggers assigned to the play channels use the same names, otherwise the GPI triggers will not occur.

## Virus software support

Thomson Grass Valley does not recommend installing third party software on your iVDR. However, if you must install virus scanning software, configure it for manual virus scan only. Automatic virus scanning could disrupt iVDR operation and should not be used.

## Continuous record program length

A continuous recording is stored in the iVDR as a program. When the program is stored, its duration will be 3 minutes longer than the continuous record length specified. Take this into consideration when operating the iVDR with the media disks nearly full.

## NetCentral SNMP Agent

This software release installs the M-Series NetCentral SNMP Agent, however, the agent must be unlocked for operation with NetCentral Manager software. NetCentral Manager provides centralized monitoring using Simple Network Management Protocol (SNMP). The M-Series SNMP agent allows the M-Series to collect and store management information (such as disk errors, temperature, video and audio status) and make this available to NetCentral Manager. Contact your Thomson Grass Valley representative for more information about obtaining a software key to unlock the M-Series SNMP agent and configuring it for use with NetCentral Manager.

## Installing software version 2.0.9

M-Series iVDR system software version 2.0.9 was installed on your new iVDR at the factory. In normal operation, you do not need to reinstall system software.

Perform the following installation procedure if:

- You are updating the iVDR system software.
- You are instructed by Thomson Grass Valley product support to re-install system software.

This software installation procedure includes:

- [Part 1: “Install “Critical” Windows updates \(recommended\)”](#)
- [Part 2: “Special procedures if updating from 1.5.x or 1.6.x”](#)
- [Part 3: “Install M-Series system software”](#)
- [Part 4: “Create a system disk image file”](#)

### Part 1: Install “Critical” Windows updates (recommended)

“Critical” Windows updates are recommended, but not required for version 2.0.9. The iVDR must be connected to the internet to perform this procedure. If the iVDR does not have internet access, skip this procedure and proceed to [Part 2: on page 9](#).



**CAUTION:** Only “critical” Windows updates should be installed. Do not install other Windows 2000 or driver updates on your iVDR.

From the factory, Automatic Windows Updates are disabled. This prevents updates from being performed in a manner that could harm the operation of networked iVDRs. Do not modify the Automatic Update setting.

### Start the iVDR in Windows Safe Mode

Starting the iVDR in safe mode prevents the update program from using the media drives as the target for downloading and installing windows updates.

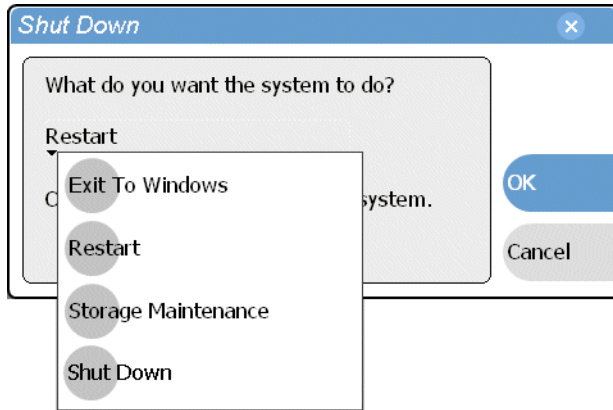
To start Windows in safe mode:

1. Connect a keyboard and mouse to the iVDR rear panel or front panel.

You’ll need these to boot in Safe mode and use Windows Update program.

2. Restart the iVDR (and Windows) as follows:

- a. In the AppCenter toolbar, select **System**, then choose **Shut Down** in the pop-up menu. The Shut Down dialog box appears.
- b. In the Shut Down dialog box, choose **Restart** in the drop-down list, then select **OK**.



AppCenter closes, then Windows will shutdown, and restart.

3. Watch for the “Windows Starting” message in white text and the message “Please select the operating system to start”, then immediately press **F8**.

NUM LOCK must be off before the arrow keys on the numeric keypad will function.

4. Use the arrow keys to highlight the **Safe Mode with Networking** option, and then press **ENTER**.

Windows starts in Safe mode.

5. Click **OK** in the Safe mode warning message.
6. Proceed to [“Scan and install critical Windows updates”](#).

### Scan and install critical Windows updates

The Windows Update program is used in the procedure to scan the iVDR to determine if any critical updates are required. Afterward, you can download and install those updates manually. Your iVDR must have internet access to complete this procedure.

To scan and install critical updates:

1. Start the Windows Update program as follows:

- a. Click **Start | Run**.
- b. Type the following:  
`c:\WINNT\system32\wupdmgr`
- c. Click **OK**.

Internet Explorer opens and connects to the Windows update web site.

2. On the web page, click **Scan for updates**.

Wait for the scan to complete.

3. If there are critical updates required for your iVDR, follow the instructions on the



web page to install them.



**CAUTION: Install only critical Windows updates. Do not install other Windows 2000 updates or driver updates.**

4. After installing critical updates, do one of the following:
  - If updating from version 1.5.x or 1.6.x, proceed to [Part 2: “Special procedures if updating from 1.5.x or 1.6.x”](#).
  - If updating from 2.0.4 or higher, proceed to [Part 3: “Install M-Series system software”](#)

## Part 2: Special procedures if updating from 1.5.x or 1.6.x

If you are updating from 1.5.x or 1.6.x, perform the following procedures, otherwise proceed to [Part 3: “Install M-Series system software”](#).

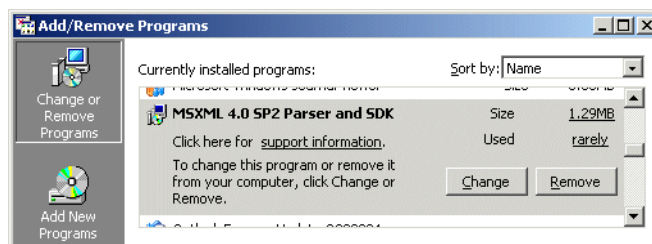
- [“Update XML parser software \(Only if upgrading from 1.5.x\)”](#)
- [“Update the M-Series media file system \(Only if updating from 1.5.x\)”](#)
- [“Uninstall existing version of M-Series software \(If updating from 1.5.x or 1.6.x\)”](#)

### Update XML parser software (Only if upgrading from 1.5.x)

If you are upgrading from iVDR software version 1.5.x, use the following steps to check the XML parser software version, and then update if needed.

To check and update the XML parser software:

1. Exit AppCenter as follows:
  - a. In the AppCenter toolbar, select **System**, then choose **Shut Down** in the pop-up menu.
  - b. In the Shut Down dialog box, choose **Exit to Windows** in the drop-down list, then select **OK**.
2. In the Windows taskbar, click **Start | Settings | Control Panel**, then select **Add/Remove Programs**.



3. Does **MSXML 4.0 SP2 Parser and SDK** appear in the programs list?
  - If “No”, proceed to step 4 to install the XML parser software.
  - If “Yes”, skip the rest of this procedure and go to [“Update the M-Series media file system \(Only if updating from 1.5.x\)”](#) on page 10.
4. Insert the *M-Series iVDR System Software* CD-ROM in the CD-ROM reader or

connect to a network drive containing the downloaded software.

You can also download the XML parser installation program from <http://www.thomsongrassvalley.com/downloads>.

5. Use Windows Explorer to locate and run the *msxml.msi* installation file located in the **XML** folder on the CD-ROM, or in your download directory.

The installation wizard Welcome page is displayed.

6. On the Welcome page, click **Next**, then follow the onscreen instructions to install the software. Use the **Install Now** option when asked.

**NOTE: Do not modify the Customer Information text page when it is displayed.**

7. Click **Finish** to close the installation wizard.
8. Click **Yes** to restart the iVDR.
9. Proceed to “[Update the M-Series media file system \(Only if updating from 1.5.x\)](#)”.

### **Update the M-Series media file system (Only if updating from 1.5.x)**

If you are upgrading from iVDR software version 1.5.x, use this procedure to update the media file system. You can access the installation program on the *M-Series iVDR Software* CD-ROM or download it from <http://www.thomsongrassvalley.com/downloads/>. Updating the file system does not harm existing media stored on the iVDR.

To update the M-Series media file system:

1. Exit AppCenter as follows:
  - a. In the AppCenter toolbar, select **System**, then choose **Shut Down** in the pop-up menu.
  - b. In the Shut Down dialog box, choose **Exit to Windows** in the drop-down list, then select **OK**.
2. Insert the *M-Series iVDR System Software* CD-ROM in the CD-ROM reader or connect to a network drive containing the downloaded software.
3. Use Windows Explorer to locate and run the *cvfs\_win2k\_2.1.2b85Simple.exe* installation file located in the CVFS folder on the CD-ROM, or in your download directory.

The installation wizard Welcome page is displayed.
4. Accept the license agreement to start installation.
5. Click **Finish** when installation is complete.
6. Click **Yes** to restart.
7. Proceed to “[Uninstall existing version of M-Series software \(If updating from 1.5.x or 1.6.x\)](#)”.

### Uninstall existing version of M-Series software (If updating from 1.5.x or 1.6.x)

If you are upgrading from iVDR software version 1.5.x or 1.6.x, use this procedure to uninstall the existing version of M-Series software. This does not remove your media files from the iVDR. They will remain on the iVDR during the upgrade process.

To uninstall M-Series software:

1. Shutdown AppCenter as follows:
  - a. In the AppCenter toolbar, select **System | Shutdown**.
  - b. In the Shutdown dialog, select **Exit to Windows**, then **OK**.

AppCenter closes, and the desktop appears.
2. Click **Start | Settings | Control Panel**.
3. Open **Add/Remove Programs**.
4. Select **M-Series**, then click **Remove**.
5. Click **Yes** to confirm file deletion.
6. When uninstall is complete, click **Yes** to restart the iVDR.
7. Proceed to [Part 3: “Install M-Series system software”](#).

### Part 3: Install M-Series system software

To install system software:

1. Insert the *M-Series iVDR System Software* CD-ROM in the CD-ROM reader or connect to a network drive containing the downloaded software.
  2. Run *setup.exe*

You can click **Start | Run** in the Windows taskbar, and then use **Browse** to locate and select the *setup.exe* file in the **M** directory on the CD-ROM or the download directory, then click **OK** to start installation.
  3. In the Welcome dialog box, click **Next**, then follow onscreen instructions to install software.
- NOTE: Be sure to install the software in the default c:\profile directory. Do not change it. Specifying another location will result in incorrect operation of the software.**
4. After clicking **Finish** to close the install wizard, click **Yes**, to restart the iVDR.
 

After Windows initializes, AppCenter automatically starts.
  5. Proceed to [Part 4: “Create a system disk image file”](#).

### Part 4: Create a system disk image file

Create a system disk image as described in the *M-Series Service Manual*. This backup image can be used to restore the system disk. The procedure requires the *Recovery Program* CD-ROM that you received with your iVDR.

This concludes the software installation procedure.

## Known issues

The following limitations are present in this M-Series iVDR Software 2.0.9 release. If you wish to obtain more information about these limitations, please mention the reference numbers that follow the description of each limitation. These known issues will be resolved in future releases.

### VGA monitor display settings

- Description** The Windows desktop is oversized and scrolls as you move the mouse. The display adapter card in the iVDR always starts in 640x480 mode even though the Windows screen size is set to 800x600.
- Workaround** Press the **CTRL+ALT+C** hot-key sequence when AppCenter is fully initialized after power-up to switch the display adapter card to 800x600 display settings. If you inadvertently select this key sequence on an iVDR with a front panel, press the **CTRL+ALT+L** hot-key sequence to return to 640x480 display settings which is required for front panel operation. All display hot-key sequences are described in the *M-Series User Manual*.

### “Unsafe Removal of a Device...” message may appear during startup

- Description** Occasionally, during startup, the following Windows message may appear: “Unsafe Removal of a Device: PCI standard PCI-to-PCI bridge.” (CR47600)
- Workaround** Press **OK**, then restart the M-Series iVDR and complete startup without encountering the “Unsafe Removal” message.

### Video output displays black frames when playing within 5 seconds of the record point

- Description** The Player application does not enforce the 5 second minimum record to play time when playing a clip that is still being recorded. If the play point is positioned too close to the record point there can be momentary interruptions in audio output and video freeze frames. This can occur when using the transport controls (FF or Jog/Shuttle) to play a clip, or by pressing play less than 5 seconds after starting the recording. (CR39247)
- Workaround** Start record, then wait at least five seconds before pressing play. When positioning the play point using Fast Forward or the Jog/Shuttle knob, avoid positioning the play point within 5 seconds of the record point.

### Configuration files saved from previous versions are incompatible with 2.0.9

- Description** Configuration files created using previous versions of M-Series software will not work with version 2.0.9.
- Workaround** You must recreate configuration files after updating to 2.0.9.

### **Restore Defaults command does not restore factory settings**

- Description If you uninstall M-Series software (required if updating from 1.5.x or 1.6.x) and then install version 2.0.9, using the restore defaults command makes no changes to the configuration settings. (CR49883)
- Workaround None.

### **Audio clipping indicator in Configuration Manager**

- Description The audio clipping indicator in the Configuration dialog box does not function. The indicator is always gray.
- Workaround None.

### **Audio monitor in IEEE1394 record mode**

- Description The rear panel audio monitor and the front panel headphone jack outputs the record channel audio input signal when the record channel is in IEEE 1394 record mode.
- Workaround None.

### **AVI output file format is always non-interleaved**

- Description When exporting media to an AVI file, the user interface allows you to choose interleaved (type1) or non-interleaved (type2) AVI file format, however, the AVI file format is always non-interleaved (type2). (CR46219)
- Workaround None.

### **Channel information displayed only in full-screen mode**

- Description The operation of the channel information setting in Configuration Manager is unclear. As designed, this setting only affects the channel Monitor in full-screen mode, not split-screen mode. (CR47436)
- Workaround NA.

### **Player: Signal status indicators do not operate**

- Description The (V)(A1)(A2) signal status indicators in Player are not functional in this release. The indicators are always on.
- Workaround None.

**Recorder: Audio status indicator problem when embedded audio selected**

- Description In models M-222D and M-322D, when embedded audio is selected, all four audio status indicators in Recorder remain on even though the selected audio group contains less than four audio channels. (CR47333)
- Workaround None.

**“VITC not present” message is always displayed in Configuration Manager**

- Description In models M-122A and M-222A, the “VITC not present” message is always displayed in Configuration Manager even though VITC is detected and recorded as expected. (CR47411)
- Workaround None.

**“Video is not present” message is always displayed in Configuration Manager**

- Description In models M-122A and M-222A, the “video is not present” message is always displayed in Configuration Manager even though the SDI and Composite video signals are input and recorded as expected. (CR47412)
- Workaround None.

**Cannot use Event view while a list is playing**

- Description There is an error located on page 205 of the user manual— “About editing events while playing a list”. You cannot use the Event view while playlist is playing. You must stop play back, then open Event view to edit an event.
- Workaround NA.