

Product Line: Expression 2 Family**Description: System and Remote Unit software version 2.0****Engineering Change Order (ECO): 1920****Effective Date: 5/17/96**

Version 2.0 provides System and Remote Unit software for Concept 2x, Expression 2x, Impression 2, and Insight 2 and 2x consoles and Expression 2 line Lighting Playback Controllers (LPCs). This release supersedes version 1.9.

Contents of release

1. Installation diskette
2. Remote Unit Update diskette (for Remote Interface and Remote Video Interface)

Release notes

Version 2.0 requires the following related software or later (Previously released with version 1.8):

- Boot EPROM version 2.0
- Face Panel EPROM 1.11 for Expression 2x, Concept 2x, or Impression 2
- Face panel EPROM 1.14 for Insight 2 and 2x
- Pseudo Face panel E2PROM 1.14 for Expression 2x, Concept 2x, Impression 2, LPC
- Pseudo Face panel E2PROM 1.14 for Insight 2 and 2x, LPC

Related equipment interactions

Expression 2 line systems running version 1.6 or later require Sensor CEM software version 2.04 or later for full ETCLink support. All console releases are DMX512 compatible with all Sensor CEM and MPE releases.

New features and enhancements in 2.0

The following list describes the changes made since version 1.9.

1. You may use Real Time Programs to run macros at preset times and days.
2. You may disable the [Blackout] key.
3. You may configure the Grandmaster as a Grandmaster, a Sub Grandmaster, or disable it.
4. You may set a macro to run automatically when you turn on the console.
5. You may now create up to ten pages of submasters.
6. You may access the Submaster List display from Stage.

2.0 Upgrade kit part numbers

- 4031S1004 Expression 2x /LPC
- 4041S1003 Impression 2 /LPC
- 4051S1003 Concept 2x /LPC
- 4071S1005 Insight 2 /LPC
- 4071S1006 Insight 2x /LPC

Problems fixed in 2.0

- 1421 Blind Sub List. If you are in page 1 on Stage, the colors in Blind reflect page 1. You can change times and Bump status for the correct page.
- 1423 Deleting the next cue to run does not take it out of the list. Next [Go] press does nothing.
- 1426 About Help message- Change to \ About Channel 1 enter \.
- 1427 Insight Record page 2 as 1 to 1 Channel /sub Does not update Flexichannel display until you cycle power.
- 1430 ETCLink could not select a two digit rack.
- 1431 Park - A dimmers in yellow. B dimmers in white. Both act as if captured in Park.
- 1436 About Enter does not clear with Stage Expand or Blind. It does clear with Fader, Tracksheet, Patch, Park, and Setup.
- 1438 If you try to label 150 cues at one time, it would cause the CEM to give a brief message of "NO DMX". Other long functions had a similar effect. For example, changing channel count up. The problem was worse on Insight 2.
- 1452 Insight - When first recording a submaster, the LED did not light up if you were still in Channel mode.
- 1456 If you set Record Lockout and changed a cue attribute (type/time...) the "Record is locked out Press Clear to continue press Enter" message remains but you do not have to press [Clear] to continue.
- 1459 You could not accurately edit a cue's attributes in Stage mode while a cue loop was running.
- 1481 Page 1 was not on printout of a submaster. Page 2 was on the submasters from page 2.
- 1489 [Tracksheet] (n) [Enter] [Enter]. Cues with blue/green/magenta levels>0 are highlighted. A non existent cue # is displayed in the upper right window.
- 1490 If an Insight 2/2x was configured with less than 108 channels and you set a Default 1 to 1 for submasters, all LEDs would light up.
- 1491 Updated the Help About screen to mention About Show.
- 1492 Submasters could cause channels to record at a level above 00 but not at 01%.
- 1493 LED display on console would show Q46.0 but the monitor would not.
- 1494 Channel # = 180, chan 1 @ 50, [S5], Next Page, then [Expand] .. you get two pages of 126>180. Levels for 1 and 126 are displayed under channel #126 on separate pages.
- 1509 [Disable MIDI] help message did not make a lot of sense. Added an example.
- 1510 Setup- Options SMPTE frames would scroll through invalid numbers with the [+] and [-].
- 1516 Fader Display / DMX In Disabled still shows up on Fader 4 but off by 1.
- 1521 Independent did not add channels to Flexichannel, Flip and Link List do.
- 1523 [Expand], pressed in Flexichannel mode, could get a blank screen.
- 1525 After a Bootup, effect submasters print out in a strange format.
- 1529 In Blind Multipart Cues, if you press [Part], and use [+] or [-] to scroll through parts, [S6] changes back to Delete Cue instead of Delete Part. The LED on [Part] stays lit.
- 1530 Single screen systems - when you have a large multipart cue (five parts or more), the Cue List overwrites the softkeys.
- 1533 Multipart Cues - Change time on parts in Blind Cue List would not take effect. Cycling power wouldn't help. Delete the final part and the times would become active.
- 1582 In a system configured for two pages, be on page 2, press [Expand], Both monitors display page 2.
- 1583 The Help message for DMX512 Mode's last sentence, "to be Patched - To be taken out of Patch" was very confusing.
- 1585 Help message for [M1] - [M5] cannot be used to select a macro for Learn Macro contrary to the Help message.
- 1615 Print Group List is a strange format. There are three column headings but it only printed in one-column format.
- 1677 If you were recording a point cue, pressed [Except], and tried to enter another cue number, the console would only allow cues .1-9,
- 1678 In MIDI - Decimal cues after 100 were truncated to whole number cues.
- 1789 [Except] acted as [Enter] when editing channels in an effect cue or submaster.

Problems in 2.0

- 0516 When entering labels, the keyboard often misses or double-enters a character. This is most obvious with missed characters.
- 0517 If you press keys [7] and [8] on the RFU together, all of the keypad LEDs go out. If you press [7] and [9], most of the LEDs come on.
- 0575 If you have an effect in a submaster, with the submasters in channel mode and Solo bump on, raising the submaster's slider displays the channel in yellow (correct), but pressing the bump button displays the channel in white (incorrect).
- 0800 Insight submaster LEDs do not always properly initialize on power-up. Random LEDs turn on, including both LEDs set at the same time.
- 0844 MIDI devices that constantly transmit running status can overload the console and face panel communications.
- 0846 Recording an effect with no steps causes it to act like a crossfade cue and display random channels levels when executed.
- 0983 Macros are not synchronized between tracking consoles. May terminate in different places.
- 0984 In a tracking system, if the "A" console drops off the network so "B" is running alone, and then "A" returns to the net as a stand-alone console, Remote Video Interfaces and Remote Interfaces behave erratically and no network errors are posted.
- 1009 Selecting ranges of cues in Tracksheet is awkward if the beginning and ending cues of the range don't exist.
- 1010 If you are in the Designer's Worksheet editing mode and re-size the Designer's Worksheet using the F2/F3/F4 keys, the Designer's Worksheet graphic display is not redrawn properly.
- 1029 DMX In levels occasionally flicker between their set levels and some lower value. This occurs for a fraction of a second and appears to happen over a period of 2 to 3 days.
- 1069 ETCLink - Never see the Non-AF Rack message on the console when trying to record loads on a Non-AF rack. CEM 2.1. Message appears on CEM.
- 1073 ETCLink - messages clear with any button press. Easy to miss. Messages use the keystroke to clear the ETCLink message but do not do the action. In a system with a lot of error messages you cannot get anything done. You must unplug ETCLink and then turn it off.
- 1090 ETCLink Problem with recording loads. Dimmer list from console may be strange. Reported in 1.6.
- 1097 Remote Video Interfaces lose a Net Packet during disk operations.
- 1140 MIDI Show Control sending several MSC non-system commands and one lighting command overloads the buffer and causes the console to execute the wrong command. Several pyro commands and Go123 execute a Hold or a Go on 124. Recovers without locking up.
- 1143 LPC - Choosing a new Designer's Worksheet layout sends you to the Stage display. Several functions will send you out on the LPC LCD.
- 1144 LPC with a Designer's Worksheet layout selected without sliders and you enable sliders on Designer's Worksheet from Setup sometimes sets the Grandmaster to 00.
- 1145 LPC disk functions run from Designer's Worksheet do not put up error messages on the LCD.
- 1146 Arrow keys on LCD flip the monitor to Stage display.
- 1147 If you are tracking an LPC to a full console without a Designer's Worksheet, you cannot get to the sliders and submasters.
- 1178 MIDI/MSC - Firing a macro that has Go in it also sends out the Go.
- 1188 If you are missing a tracking console on boot-up, the message Alone... does not show up on LPC LCD.
- 1221 Group [nn] wheel up to any level then press At. Results in the upper window showing a level of 0. Press + level jumps to 0 and upper window shows level 1. At - and level jumps to 0 and shows 0 in upper window.
- 1224 Tracking systems running a series of linked cues get out of sync.
- 1247 If you capture channels using + /- with And or Thru, then press Channel again, it does not release the And or Thru.
- 1331 Setting dimmers to 1,000 with Port 1 multiplexed. Try to patch dimmer 769 - (DMX512 #1,025) you cannot do it.
- 1335 ETCLink Errors System Status sometimes clears errors and updates the screen and sometimes doesn't.
- 1337 No way of knowing the status of Numlock/Caps lock/Scroll lock. Scroll lock and Numlock seem to do very strange things.
- 1339 Out of Memory Message needs to be added. When you record cues after the memory limit it appears to record the cues but they will not run and they disappear when you cycle power.
- 1422 ETCLink time out message appears in System status/Dimmer status but not in Rack status or Load status without ETCLink connected.
- 1425 Insights must be in Sub Mode for DMX in to start the first time.

- 1428 Fader display 4 - DMX In Disabled still shows incoming DMX512 in Magenta. If submasters are up on the main console, the magenta channels change to yellow when the incoming effect hits them.
- 1429 DMX In/Flexichannel you don't always see what's really going on.
- 1432 Learn Macro with submaster bump button - You can get submasters 50 and 51 stuck on. 51 is not even in the macro.
- 1433 ETCLink - Sometimes the console holds in waiting for data does not time out or lock up but the ETCLink information does not come back until you cycle power on the console. Usually after a CEM reset.
- 1435 ETCLink Changing a CEM address does not update dimmer information stored in the console.
- 1437 Cannot get Out Of Memory error messages.
- 1440 Flexichannel mode 1 and 2 and 3 except 2 and 4 and... reselects channel 2.
- 1450 Booting up an Expression 2x with ETCLink sends back a No DMX message sometimes. Some sites are worse than others.
- 1451 Cannot see the last line of Patch when in Show Labels.
- 1453 Record cue 4, run in AB fader, press Enter four times and all channels change to the level that the highest channel is at.
- 1455 Roll a channel up on the wheel, Prompt = 59%, Chan =60%
- 1458 Run a cue in the AB fader, press S2-Update, Rel, Record. LED does not flash. Press Cue. Record LED starts flashing.
- 1482 Printout - Top two border lines are missing from page 2 on Sub List.
- 1484 ETCLink - No message back to the console when a load is OK again. (CEM 2.04)
- 1486 ETCLink reported a load change error from 0W to -10W. (CEM 2.04)
- 1495 LPC /ETCLink - If Rack 1 is offline it is impossible to get rack information with the face panel.
- 1500 LPC Submaster bump button - if you change rate with the arrow keys, it does not appear on monitor upper right window, but does appear on the LPC's LCD screen and on monitor bottom bar.
- 1511 ETCLink/Tracking - Sometimes get out of sync. Master - No Errors, Slave - Errors.
- 1513 ETCLink set/unset dimmer with link off, no error message.
- 1514 ETCLink Load Check in progress on Master but not Slave.
- 1517 An ETCLink record loads message does not show up on another console at a different address, even though that console can't do anything until the record loads is finished.
- 1518 ETCLink/Tracking can get two Record Backup Look Complete messages on the console it was done on.
- 1524 Parked dimmers put channels in Flexichannel mode. Parked channels (at time Flexichannel is initialized) do not.
- 1526 ETCLink console reports Look Complete before the five second fade is complete.
- 1528 Effects with update rate of 2,000, Play again, adjust the rate wheel again, starts at 100 but does not make the Effect go faster.
- 1534 MIDI - Nonprogrammed submaster sends out a Note-On message but not a Note-Off message. A timed submaster running sends no Note-Off.
- 1575 Release after Link doesn't release both channels. It captures the second or linked channel.
- 1576 Single monitor systems display Park Enable in all screens. Two monitor systems only in Stage/Fader.
- 1580 Help Dimmer, Dimmer Check message should refer to having to press the Enter button also.
- 1581 An LPC unable to connect to the network hangs in logo screens. No message on LCD.
- 1584 Help message for On-bump/Off-bump for programming Macros says to use the bump buttons, the command line also. Could confuse LPC owners since we also allow keypad entry.
- 1611 Help message for Record Loads \ Requires Dimmers be set at level.\ We also allow a list which is much easier to use.
- 1613 LPC hitting Enter, Enter on the LCD display captures channels, to Release you have to go into the Edit screen (usually at least three screens away.)
- 1676 Cycle power on MIDI sending gear may send out a signal that causes the Expression 2x to ignore MIDI until the you cycle power on the console.
- 1782 Run a loop of Cues, hit [Hold], make some changes and Re-record. The record operation cancels the Hold. You cannot continue the loop. (May require a specification change)
- 1783 [Clear] Help message does not make a lot of sense.
- 1785 There is no "Out of Memory" message for groups. There is for SMPTE events. The console just stops recording groups.
- 1786 Dimmer Check box says "Press Clear to Cancel" but it will clear with most key presses.
- 1787 Using [Except] when selecting cues in Tracksheet causes the previously selected cues to be released. [And] and [Thru] do not get you out of [Except].
- 1788 Press [Dim] [N] [S6] [Park]. Result: Upper right window disappears, also prompt line doesn't ask for a level, whereas if you press [S6] [Dim] [N] it does.
- 1792 When recording a cue, if the decimal point is accidentally pressed, you cannot clear it without starting the record process over.

- 1793 ETCLink- Change the rack address on the CEM, ask for ETCLink information on the console, Console tends to hold in "Waiting for Data". Rebooting the console clears it up.
- 1796 Port 1 set to Multiplex, Dimmer # in System Setup is set to 144. (no B Dimmers) you cannot +/- through a dimmer check.
- 1800 When editing or creating a Real Time program, you must exit the Real Time Programs display before shutting off the power to the console. Events are only saved when you exit the screen.
- 1801 If you accidentally press the wrong macro number when recording a macro you must either repress the macro or hit 0 several times. Clear does not work.
- 1804 Tracking consoles can get out of sync but remain tracking. Examples: Linked cues running a loop, macros, ETCLink.
- 1805 Creating a global subroutine by selecting ranges of steps and ranges of Cues only puts whole number Cues in the Subroutine. You can enter point cues manually.
- 1806 Remote Macros only work on Master console in tracking systems.
- 1807 ETCLink- Recording a Backup Look sometimes produces two messages back that it has recorded the look. (Tracking System)
- 1816 Q1 is channel 1-10 @ 40. Group 1 is channel 4 & 5 @ FF Q1 Go AB, Channel 2-10, Group 1, Results: Channel 2 is highlighted in addition to channels 4 & 5
- 1818 If the first cue recorded in the show is an effect, you cannot record a multipart cue.
- 1819 Labeling several submasters is very slow. Labeling cues, groups and SMPTE events is much quicker.
- 1856 If a sub bump is pressed while changing all bumps to Disable in System Setup, that bump gets stuck on and will not release.
- 1872 If you are in Blind, Sub List : [Sub] [1] [Thru] [7] [Label] [Clear], the [Clear] hit adds sub 8 to the list, each subsequent [Clear] hit adds the next higher Sub number to the List. Using +/- does not do that.

You have received software upgrade disks for version 2.0. You do not need to install version 1.8 or 1.9 software prior to installing version 2.0.

You may upgrade directly from 1.6 to 2.0.

All hardware upgrades associated with 1.8 **must** be completed before installing 2.0.

SOFTWARE RELEASE

Product Line: Expression 2 Family

Description: System and Remote Unit software version 1.9

Engineering Change Order (ECO): 1810

Effective Date: 8/3/95

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Contents of release

1. Installation diskette
2. Remote Unit Update diskette (for Remote Interface and Remote Video Interface)

Release notes

Version 1.9 requires the following related software (Previously released with version 1.8):

- Boot EPROM version 2.0
- Face Panel EPROM 1.11 for Expression 2x, Concept 2x, or Impression 2
- Face panel EPROM 1.14 for Insight 2 and 2x
- Pseudo Face panel E2PROM 1.14 for Expression 2x, Concept 2x, Impression 2, LPC
- Pseudo Face panel E2PROM 1.14 for Insight 2 and 2x, LPC

Related equipment interactions

Expression 2 line systems running version 1.6 or later require Sensor CEM software version 2.04 or later for full ETCLink support. All console releases are DMX512 compatible with all Sensor CEM and MPE releases.

New features and enhancements in 1.9

The following list describes the changes made since version 1.8.

1. Full Tracking Backup systems support Dimmer Feedback (ETCLink).
2. Full Tracking Backup systems support DMX In.
3. Channel counts have been increased on three of the consoles:

Console	Old	New
Concept 2x	1000	1200
Expression 2x	500	600
Impression 2	250	300

4. Last Page softkey is renamed to Previous Page.
5. ETCLink addressing is available.
6. Random chases never play the same step twice in a row.

1.9 Upgrade kit part numbers

- 4031S1003 Expression 2x
- 4041S1002 Impression 2
- 4051S1002 Concept 2x
- 4071S1003 Insight 2
- 4071S1004 Insight 2x

Problems fixed in 1.9

- 1499 Load Sub. Using Load Sub can cause serious problems and show corruption. Results are not always the same. Console locks up - corrupting an effect.
- 1007 The Flash function cancels channel selection. [Chan][n][Flash][Thru][nn][Full] syntax normally selects n through nn at full. Instead, Flash cancels the chan n selection and sets nn to full.
- 1070 ETCLink. System Status Screen - Multiplex Fire Mode Never changes to Enable even if it is being used.
- 1071 ETCLink. Dim Errors Shown in Rack status screen. No Dimmers with Errors in Dimmer Screen. No Dimmer Error always appears in Dimmer screen even when there really are Dim Errors.
- 1081 Blind Sub List keyboard F1 only gets you to the first submaster, F10 only gets you to the last submaster. On two-screen systems the F10 prompt tries to overwrite the Sub Page.
- 1093 Disk formatting without a disk in drive Error Message says Press Any Key when it means Press Clear. Dim/Load Sub add messages to box but nothing will happen.
- 1095 Label LED does not work in Patch for labeling dimmers.
- 1098 Tracking Systems - both consoles output DMX512 during disk operations, Track Record, Copy Macro, redrawing Designer's Worksheet screen, and other long processes.
- 1099 Multiplex B Dimmers do not Park. A Dimmers OK.
- 1141 Blind select a sub page not on Stage. Go to stage and Delete a sub. Sub is deleted on the Blind page instead of the Live page.
- 1176 LPC ETCLink messages would not clear with Designer's Worksheet clear.
- 1177 Delete a sub leaves a big D next to the submaster as if the bump button was disabled.
- 1223 Labeling a cue while running a Link Cue series puts parts of the label scattered throughout the list. Also corrupts the link. Links all cues to cue 2 or clears all links altogether.
- 1008 After deleting steps at the end of a subroutine list, the up arrow adds the step last deleted.
- 1072 Single Screen Systems About Channel - Attributes appear 1 line up. Labels do NOT appear.
- 1074 Downsizing a show with effects on a submaster does not initialize properly. Submasters delete all empty steps except the one past the last step with channels still in it. Cues leave all the empty steps.
- 1075 Subroutine - Blank step will be seen as a [Fader Clear] press and stop the subroutine. Also recording a step without a cue number does the same thing. Interesting, since it only takes one [Clear] press to clear a running subroutine.
- 1077 Blind Cue List sometimes doesn't scroll through part cues if they are at the end of the Cue List.
- 1078 Designer's Worksheet Macro numbers do not work with Help
- 1079 Blind Sub List - DMX In submaster should say DMX In.
- 1082 Effects recorded with groups - Edit the group, cues update the next time they run, submasters do not update until you cycle power on the console.
- 1084 SMPTE on an LPC - changing from Cue List to SMPTE List causes the LCD time display to update only on events. Some trouble getting added events to run, but not always.
- 1086 Inhibited submaster adding a channel to one that is already recorded requires that you give the new channel a level. Recording a new inhibited submaster does not require a channel to be at a level.
- 1087 Blind Cue List cannot label a subroutine.
- 1096 Link List - Entering long lists of channels causes the link to move to another column but the link stays listed in the first column also. You get two link numbers listed.
- 1100 RFU - Park screen does not read on RFU LCD. Other display screens do.
- 1102 SET UP -Set Clock - Dimmer Check/Load Sub messages overwrite clock setting instructions
- 1149 MIDI Show Control should ignore the Obsession Go to Cue 0.
- 1172 Rerecording an inhibited submaster - Record - re-enter submaster number changes it to a pile-on submaster
- 1238 In Blind you cannot delete a link or a follow except from Cue List.
- 1338 Expand Mode in Fader display - Levels disappear on page 2.
- 1497 DMX512 Port address does not reset properly when ports are changed to and from multiplex.
- 1500 LPC Sub Bump button - change rate with arrow keys, does not appear on monitor upper right window. does appear on LPC's LCD and on monitor bottom bar.
- 1501 DMX In color is overridden by a submaster effect even if the effect's level is lower.
- 1503 Need Help messages on Designer's Worksheet for M1-M7.
- 1507 Release a list of parked dimmers. DMX Port A Failure, then OK.
- 1539 Other fader pair would clear running a subroutine or effect if an all fade had been run in the faders earlier.
- 1540 Pressing Sub Solo Mode on an Insight while running a time submaster would lock up the console.

Problems in 1.9

- 0516 When entering labels, the keyboard often misses or double-enters a character. This is most obvious with missed characters.
- 0517 If you press keys 7 and 8 on the RFU together, all of the keypad LEDs go out. If you press 7 and 9, most of the LEDs come on.
- 0575 If you have an effect in a submaster, with the submasters in channel mode and Solo bump on, raising the submaster's slider displays the channel in yellow (correct), but pressing the bump button displays the channel in white (incorrect).
- 0800 Insight submaster LEDs do not always properly initialize on power-up. Random LEDs turn on, including both LEDs set at the same time.
- 0843 Tracking channel color problem. Colors are set by channel value which, depending on how the level was set, may be a hex digit higher or lower than the previous level. This causes channels that appear to be tracking at the same level to be displayed with a different color.
- 0844 MIDI devices that constantly transmit running status overload the console, face panel communications.
- 0846 Recording an effect with no steps causes it to act like a crossfade cue and display random channels levels when executed.
- 0983 Macros are not synchronized between tracking consoles. May terminate in different places.
- 0984 In a tracking system, if the "A" console drops off the network so "B" is running alone, and then "A" returns to the net as a stand-alone console (for whatever reason), Remote Video Interfaces and Remote Interfaces behave erratically and no network errors are posted.
- 0989 When an effect is running in a fader pair, the level control fader LEDs don't follow the fader position.
- 1009 Selecting ranges of cues in Tracksheet is awkward if the beginning and ending cues of the range don't exist.
- 1010 If you are in the Designer's Worksheet editing mode and re-size the Designer's Worksheet using the F2/F3/F4 keys, the Designer's Worksheet graphic display is not redrawn properly.
- 1029 DMX In levels occasionally flicker between their set levels and some lower value. This occurs for a fraction of a second and appears to happen over a period of 2 to 3 days.
- 1062 About Show and stepping through Tracksheet cause the DMX Break to Break time to lengthen to the point of being out of spec. This is most noticeable on Insight 2 consoles.
- 1069 ETCLink - Never see the Non-AF Rack message on the console when trying to record loads on a Non-AF rack. CEM 2.1. Message appears on CEM.
- 1073 ETCLink - messages clear with any button press. Easy to miss. Messages use the keystroke to clear the ETCLink message but do not do the action. In a system with a lot of error messages you cannot get anything done. You must unplug ETCLink and then turn it off.
- 1089 ETCLink with CEM 2.04 reports all racks with Advanced Features. Problem is in CEM code.
- 1090 ETCLink Problem with recording loads. Dimmer list from console may be strange. Reported in 1.6.
- | Steps | Results |
|--------------------|----------------------------------|
| Record loads 1-10 | OK |
| Record loads 11-20 | Dimmer 1 also recorded. |
| Record loads 46-96 | Dimmers recorded in random order |
| Clear loads 1-20 | OK |
- Record load 11 Dimmers 1, 11, 21, and 46 all recorded
Dimmer 21 did not come up during the last step but 1 and 46 did.
Record 46-96 did not come up in order, skipped some dimmers then record them at the end.
- 1097 Remote Video Interfaces lose a Net Packet during disk operations. They keep half the disk screen after the operation is complete for about 10 seconds. In a tracking system the video interfaces drop the peripherals plugged into them - sometimes. They also do not always catch the name of the show but they may update the Disk Access information.
- 1140 MIDI Show Control sending several MSC non-system commands and one lighting command overloads the buffer and causes the console to execute the wrong command. Several pyro commands and Go123 execute a Hold or a Go on 124. Recovers without locking up.
- 1142 DMX512 death gasp when you turn the console off (like the Acclaim). Happens every 10 to 20 times you turn the console off. Could be very dangerous in theaters that have dimmers that hold last look. No good fix without soft power.
- 1143 LPC - Choosing a new Designer's Worksheet layout dumps you out to Stage display. Several functions will send you out on the LPC LCD.
- 1144 LPC with a Designer's Worksheet layout selected without sliders and you enable sliders on Designer's Worksheet from Setup sometimes sets the Grandmaster to 00.

- 1145 LPC disk functions run from Designer's Worksheet do not put up error messages on the LCD.
- 1146 Arrow keys on LCD flip the monitor to Stage display.
- 1147 Tracking an LPC to a full console without a Designer's Worksheet you cannot get to the Blackout button. Sliders and submasters also cause many problems.
- 1178 MIDI/MS - Firing a macro that has Go in it also sends out the Go.
- 1179 In a tracking system with an LPC, if the LPC takes over when the Grandmaster is below 100% you cannot get the Grandmaster to recover.
- 1188 If you are missing a tracking console on boot-up, the message Alone... does not show up on LPC LCD.
- 1221 Group [nn] wheel up to any level then press At. Results in the upper window showing a level of 0. Press + level jumps to 0 and upper window shows level 1. At - and level jumps to 0 and shows 0 in upper window.
- 1224 Tracking systems running a series of linked cues get out of sync.
- 1247 If you capture channels using + /- with And or Thru, then press Channel again, it does not release the And or Thru.
- 1331 Setting dimmers to 1,000 with Port 1 multiplexed. Try to patch dimmer 769 - (DMX512 #1,025) you cannot do it.
- 1332 The Multiplex key in Patch (S1) should give an error message back if you try to use it without setting the port to Multiplex in I/OConfig.
- 1335 ETCLink Errors System Status sometimes clears errors and updates the screen and sometimes doesn't.
- 1337 No way of knowing the status of Numlock/Pause/Scroll lock. Pause and Numlock seem to do very strange things.
- 1339 Out of Memory Message needs to be added. When you record cues after the memory limit it appears to record the cues but they will not run and they disappear when you cycle power.
- 1421 Blind Sub list - If you are in page 1 on Stage the colors in Blind reflect Page 1. You can change times and bump status for the correct page.
- 1422 ETCLink time out message appears in System status/Dimmer status but not in Rack status or Load status without ETCLink connected.
- 1423 Deleting the next cue to run does not take it out of the list. Next Go press does nothing.
- 1424 Creating a show on a console with DIP switch 4 off, then loading into a console with SMPTE creates 3,000 empty SMPTE events.
- 1425 Insights must be in Sub Mode for DMX in to start the first time.
- 1426 About Help message - Change to About Channel 1 enter.
- 1427 Insight - Record page 2 as 1-to-1 channel submaster does not update the Flexichannel display until you cycle power.
- 1428 Fader display 4 - DMX In Disabled still shows incoming DMX512 in Magenta. Submasters are up on the main console, the magenta channels change to yellow when the incoming effect hits them.
- 1429 DMX In Flexichannel you don't always see what's really going on.
- 1430 ETCLink cannot select a two digit rack.
- 1431 Park - A dimmers in yellow. B dimmers in white. Both act as if captured in Park.
- 1432 Learn Macro with submaster bump button - You can get submasters 50 and 51 stuck on. 51 is not even in the macro.
- 1433 ETCLink - Sometimes the console holds in waiting for data does not time out or lock up but the ETCLink information does not come back until you cycle power on the console. Usually after a CEM reset.
- 1435 ETCLink Changing a CEM address does not update dimmer information stored in the console.
- 1436 About Enter does not clear with Stage Expand or Blind. It does clear with Fader, Tracksheet, Patch, Park, and Setup.
- 1437 Cannot get Out Of Memory error messages.
- 1438 Labeling 150 cues at a time causes the CEM to display a brief message of No DMX DMXter is OK. Other long functions also. ex. changing channel count up. Worse on Insight 2.
- 1440 Flexichannel mode 1 and 2 and 3 except 2 and 4 and...reselects channel 2.
- 1450 Booting up an Expression 2x with ETCLink sends back a No DMX message sometimes. Some sites are worse than others.
- 1451 Cannot see the last line of Patch when in Show Labels.
- 1452 Insight - When first recording a submaster, the LED does not light up if you are still in channel mode.
- 1453 Record cue 4, run in AB fader, press Enter four times and all channels change to the level that the highest channel is at.
- 1454 Program an effect with a group that's not recorded - No warning that group does not exist.
- 1455 Roll a channel up on the wheel, Prompt =59%, Chan =60%
- 1456 Record Lockout, change a cue, attribute (type/time...) is locked out. Press Clear to continue, press Enter. Message remains but you do not have to press Clear to continue.
- 1457 If you put a subroutine in a subroutine, it stops the cue when it reaches that step. Put in a warning.

- 1458 Run a cue in the ABfader, press S2-Update, Rel, Record. LED does not flash. Press Cue. Record LED starts flashing.
- 1459 Cannot accurately edit a cue's attributes in Stage mode while a cue loop is running.
- 1481 Page 1 not on submaster printout. Page 2 appears on printouts for page 2 submasters.
- 1482 Printout - Top two border lines are missing from page 2 on Group List, Sub List, Cue List, Channel Attributes, and SMPTE Events. One border line is missing from 2+ pages of Patch.
- 1483 ETCLink Multiplex B dimmers will not set.
- 1484 ETCLink - No message back to the console when a load is OK again. (CEM 2.04)
- 1485 Load Check does something but does not seem to find dimmer load errors. (CEM 2.04)
- 1486 ETCLink reported a load change error from 0W to -10W. (CEM 2.04)
- 1487 ETCLink - Clear loads from the console. Dimmers still highlighted as if they had a load error in the Dimmer Status screen. CEM still displayed the load error. The loads were erased from the Dimmer Status screen. Load errors were erased from the Load Management screen. (CEM 2.04).
- 1489 Tracksheet (n) Enter Enter. Cues with blue/green/magenta levels>0 are highlighted. A nonexistent cue number is displayed in the upper right window.
- 1490 Insight 2/2X configure less than 108 channels. Default 1 to 1 submasters, all LEDs light up.
- 1491 Update the help About screen to mention About Show.
- 1492 Submasters can cause channels to record at a level above 00 but not at 01%.
- 1493 LED display on console shows cue 46.0 but the monitor doesn't.
- 1494 Channel # = 180, chan 1 At 50, S5 (next page) then Expand. You get two pages of 126>180. Levels for 1 and 126 are displayed under channel #126 on separate pages.
- 1495 LPC /ETCLink - If Rack 1 is offline it is impossible to get rack information with the face panel.
- 1509 Disable MIDI help message does not make a lot of sense. Add an example.
- 1510 Setup Options - SMPTE frames will scroll through nonvalid numbers with the + and -.
- 1511 ETCLink/Tracking - Sometimes get out of sync. Master - No Errors, Slave - Errors.
- 1513 ETCLink set/unset dimmer with link off, no error message.
- 1514 ETCLink Load Check in progress on Master but not Slave. On both.
- 1515 ETCLink/Tracking - If A goes down, ETCLink DMX512 failure blocks the Slave Stand Alone message.
- 1516 Fader Display /DMX in Disabled still shows up on fader 4 but off by 1.
- 1517 ETCLink record loads does not show up on another console on the line at a different address, even though they are stuck until the record loads is finished.
- 1518 ETCLink/Tracking can get two Record Backup Look Complete messages on the console it was done on.
- 1520 Configure channels to 180, Expand, displays numbers for page 2 but levels from page 1.
- 1521 Independent does not add channels to Flexichannel, Flip and Link List do.
- 1523 Expand, in Flexichannel mode, can get a blank screen.
- 1524 Parked dimmers put channels in Flexichannel mode. Parked channels (at time Flexi is initialized) do not.
- 1525 After a power up, submasters with effects print out in a strange format.
- 1526 ETCLink console reports Look Complete before the five second fade is complete.
- 1527 Dimmer- 56-Park-56-Park leaves the dimmer LED on but prompt changes to channel and the console interprets as channel. Can be created with level also.
- 1528 Effects with update rate of 2,000, Play again, adjust the rate wheel again, starts at 100 but does not make the Effect go faster.
- 1529 Blind part cues, press Part, use +/- to scroll through parts. S6 changes back to Delete Cue instead of Delete Part. LED on Part stays lit.
- 1530 Single monitor systems - when you have a large part cue (five or more), the Cue List overwrites the softkeys.
- 1532 SMPTE Learn mode. Firing M1 then trying to stop it by hitting M1 again doesn't work.
- 1533 Part cues - Change time on parts in Blind Cue List doesn't take effect. Cycle power no help. Delete the final part and the times become active.
- 1534 MIDI - Nonprogrammed submaster sends out a Note-On message but not a Note-Off message. A timed submaster running sends no Note-Off.
- 1575 Release after Link doesn't release both channels. It captures the second or linked channel.
- 1576 Single monitor systems display Enable in all screens. Two monitor systems only in Stage Fader.
- 1579 Running a Macro Go AB M* (link to itself) creating 3,000 SMPTE events using Learn SMPTE, two Expression 2xs dropped out of tracking but both Master and Slave stayed on the network and fought for control of the remote interfaces. There was a four minute SMPTE loop also running.
- 1580 Help Dimmer, Dimmer Check message should refer to having to press the Enter button also.
- 1581 An LPC unable to connect to the network hangs in logo screens. No message on LCD.
- 1582 In a system configured for two pages, be on page 2, press Expand. Both monitors display Page 2.
- 1583 Help message for DMX512 Mode - Last sentence, to be Patched - To be taken out of Patch, very confusing.

- 1584 Help message for On-bump/Off-bump for programming Macros says to use the bump buttons, the command line also. Could confuse LPC owners since we also allow keypad entry.
- 1585 Help message for M1-M5 - Cannot be used to select a Macro for Learn Macro contrary to the Help message.

You have received software upgrade disks for both versions 1.8 and 1.9. You do not need to install version 1.8 software prior to installing version 1.9.

You may upgrade directly from 1.6 to 1.9.

All hardware upgrades associated with 1.8 must be completed before installing either 1.8 or 1.9.