

Eos Family Console Programming

Level 2: Enhanced

Workbook

V3.1

www.etcconnect.com/education

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Purpose of the Class

This class will provide a more in-depth look at basic operations and working with multi-parameter devices on an Eos family console.

LEARNING OBJECTIVES:

After completing this class, one should be able to:

- Edit device attributes
- Understand display layouts and workspaces
- Record and recall Snapshots
- Create more elaborate Groups
- Be more effective using Submaster properties
- Record and recall Palettes and Presets
- Set up and use Direct Selects
- Understand and use Update, Auto-Mark, and other cue attributes
- Take advantage of Discrete Timing and Multipart cues
- Create and use Relative and Absolute Effects
- Feel comfortable with configuration and test functions in the Shell
- Create and use a basic Magic Sheet

SYNTAX ANNOTATION

•	Bold	Browser menus
•	[Brackets]	Face panel buttons
•	{Braces}	Softkeys or buttons on touchscreen
•	<angle brackets=""></angle>	Optional keys
•	[Next] & [Last]	Press & hold simultaneously
•	«Direct Selects»	Direct Select button press
•	MS Object	Object on a Magic Sheet



Play Icon Link to video on ETC's YouTube Channel - ETCVideoLibrary

HELP

Press and hold [Help] and press any key to see:

- the name of the key
- a description of what the key enables you to do
- syntax examples for using the key (if applicable)

As with hard keys, the "press and hold [Help]" action can be also used with softkeys and clickable buttons

THE MANUAL

The manual is available on the console, Tab #100.

Click on Add-a-Tab (the {+} sign), select Manual

Hold [Tab] & press [100]

Please note that it is not available on Windows XP devices or on Macs but is available as a download from the web site.



Overview of the Shell

Referred to as the Eos Configuration Utility (ECU) in the manual, this area is used for both system configuration and performing basic level test functions.

[Displays], in Browser, {Exit} {Ok} . Don't forget to save your show first!

to exit to Shell

Note: When you exit to the shell, the console will stop outputting to the rig (No DMX!!).

STARTING SCREEN

PRIMARY OR BACKUP

Primary is a mode for using a single console on a network where the primary output of data is from that single console. **Backup** requires a primary console be online to synchronize.

CLIENT OR OFFLINE

A **Client** console acts as an extension of the primary console, more like a remote controller, remote video station, or an expensive keyboard for a system. Whereas **Offline** mode puts the software in a state where there is no network activity, no control, and no connections to other consoles or any other network devices.

POWER OFF

Power Off will shut down the Eos console after a confirmation.

SHELL SETTINGS

Select (Settings) when buttons are highlighted

 General Device Name, Clock Time/Date, Use Shift Key as Eos Shift, Monitor Arrangement, Software Update, Switch to Fos 2.9.

SWITCH SOFTWARE VERSIONS

Eos can switch between v3.0.0+ and previous versions of software. A restart is required for changes to take effect.

MONITOR ARRANGEMENT

The selected monitor will display in yellow. Monitors can be dragged to any of the surrounding black boxes to mimic actual monitor layout.

- **{Calibrate}** and **{Reset Calibration}** for internal touchscreens
- **{Enabled}** When checked, the monitor is available for use. It will be checked for any monitors the console recognizes.
- {Primary} selects which monitor will display the Eos Configuration Utility and Central Information Area (CIA)
- {Resolution}, {Color Depth}, {Refresh Rate} and
 {Orientation} will help configure the monitors appropriately.
- **{Identify}** displays the video port numbers that your monitors are connected to on the monitors to confirm where placed.
- {Configure Touchscreens} and {ELO Settings} for external touchscreens
- Hit **{Apply}** and **{Keep Changes}** to save your settings.
- Then {Close}
- Network
 Device Network settings IP Address, Subnet Mask.
 Output Protocols, Interface Protocols (Wi-Fi Remote,
 OSC Settings), Network Services (DHCP, SNTP)
- Maintenance Deep Clear, Save Logs, Backup Show Archive, File Manager, Face Panel Test

SAVE LOGS

Logs are useful tools for diagnosing issues. If you experience software problems with your system, sending log files to ETC Technical Services helps us isolate the issue

Log files can be generated by clicking on the **{Save Logs}** button here or from within the show file by going to **Displays > File > Export**.

When complete, email the zip file to eos@etcconnect.com.

Buttons
 RPU/RVI Button Setup, Eos Ti/Gio Face panel Buttons
 RFR
 RFR Base Station Frequency and Network ID

When finished reviewing the Shell:

{Accept} to exit back to the starting screen

{Primary} to go back into the console



to exit back to the starting screen

Device Attributes

Start in same sh	now file as d	lav before or	in Level 1	Complete file
Juli Juli Juli J	10 VV THE US U	idy belole of	III LCVCI I	Compicte me

In Patch	{Attributes} on the left-hand side of the CIA display	0

opens the Attributes module

{PREHEAT}

To specify an intensity value to preheat fixtures. When a preheat flag is applied to a cue, any channels that are fading from zero to an active intensity and have been assigned a preheat value in Patch will preheat in the immediately preceding cue. **A two-step function.**

Step 1 [1] {Preheat} [03] [Enter]

assigns a preheat value of 3% (if enter 30, get 30%)

Step 2 [Live] [Cue] [4] {Attributes} {Preheat} [Enter]

puts the Preheat flag on the cue (P)

See the "P" in the Flags column of the PSD for Cue 4.

{PROPORTION}

Proportion is a mathematical modifier for recorded levels or intensities. This value is set numerically in a range of 0% to 200%.

Back in Patch, Attributes, [2] {Proportion} [77] [Enter]

applies a 77% proportion to channel - for a 750w lamp that should be a 575w

[2] {Proportion} [Enter]

removes the applied proportion

{CURVE} & {FAN CURVE}

[3] {Curve} [Enter]

A curve affects how a fade happens over time.

[Displays] {Curves} or Add-a-Tab (the {+} sign) - #21

to view pre-programmed curves

[Next]...[Next]...[Next]...

to step though the curves

The control input is what the console is telling the fixture to go to. The output is actual value that is being output via DMX.

Back in Patch, [3] [Enter] {Curve} [905] [Enter]

applies curve 905 (Full at 1%) to the intensity parameter of channel 1

Note: Curve 909 (Hot Patch) is a great way to have relays powering moving lights and LEDs always be on when the console is on.

removes the curve

{LD FLAGS} — A TOGGLE PER CHANNEL

By default, Live and Dark flags are enabled. If there is a Live or Dark move, an 'L' or 'D' will be displayed in the move flags (MV) column in the PSD. This can be disabled on a channel-per-channel basis.

{GM EXEMPT} - A TOGGLE PER CHANNEL

A toggle state, if selected, channels are exempt from a Grandmaster fader or Blackout button, **[Rem Dim]**, **[Go To Cue] [Out]/[0]** and Intensity Master operations.

{Invert Pan or Tilt}	
A moving light attribute used to invert the output of pan, tilt, or both.	
[Live], [Group] [7] [Full] [Enter], tilt them up and pan	note how they move – all together
Back in Patch: [Group] [7] {Offset} [2] {Invert Pan} {Invert Tilt}	inverts the output of the pan and tilt parameters
Back to [Live]: [Group] [7] [Enter]. Tilt, then pan	note how they move now
USING INVERT TO SET UP ENCODERS To make sure your encoders work the same way your eyes do. Dial left, lights move left; dial right, move right.	
[Group] [5] [Full] [RemDim] [Enter], tilt them up on stage, turn Pan encoder to right	note how they move opposite of encoder
Back in Patch: [Group] [5] {Attributes} {Invert Pan}	inverts the output of the pan parameter
Back to [Live]: [Select Last] [Enter], and pan	note how they move now
Something to be done before you start cueing your show, otherwise every cue that has	

{SWAP P/T}

A moving light attribute used to exchange pan and tilt levels, such as when a fixture is hung sideways on a boom. Pan becomes Tilt and Tilt becomes Pan.

been written will be affected by these changes.

{COLOR PATH}

A default Color Path can be assigned at the channel level in Patch. That color path will be used for all that channel's color fades unless overridden at the cue level. (More on Color Paths in Level 4)



INDEXED PARAMETERS

CREATING A NEW CUSTOM SCROLL OR WHEEL

When using the editor, function keys are on the lower left side of the CIA, either mouse or touch selected. They change depending on device editing.

- **{Clear}** clears the current wheel selection
- **{New}** to create a new scroll or wheel
- **{Copy}** copy an existing and then modify
- **{Edit}** opens the editor to modify
- **{Delete}** removes the selected device

Scroller Exercise - see Appendix 1

In Patch, [151] [Thru] [158] [Part] [2] [Enter], {Attributes} {Scroller}

Press {New} on lower left side of display	{new wheel#1} appears in list
[Label], [Label] to clear, then type 'Training' [Enter]	labels the new scroll
In Frame List on far left, press the gray box under 'C/G'	available color selections displayed
Press {Open Frame} softkey on lower left side of display	display returns to the new wheel frame list and adds 'Generic open open'
Press next gray box under 'C/G'	available color selections displayed
{Rosco}, then the subcategory {Roscolux}, and then {R010}	returns to the frame list and adds color
In the Name column, Press 'New' in the next box. Type [5] [/] [27] [Enter]	another way to add color to the scroll
Complete the scroll in Appendix 1 of the workbook	
Press {Done}	completes the scroll, applies to fixture
[Live], [Group] [10] [Full] [Rem Dim] [Enter]	use the encoder to flip through frames
Check the frames in the Encoder Display or ML Controls	
[Home] [Enter]	
NOTE: When creating a gobo wheel: after you press the gray box in the C/G list, make	

NOTE: When creating a gobo wheel: after you press the gray box in the C/G list, make sure that the softkey {Gobo} is selected. There is also an {Effect} softkey that will bring up manufacturers of prisms and effect wheels.

OTHER INDEXED PARAMETERS

All indexed parameters have the same editing experience.

Back in Patch, [101] [Enter] {Attributes}		selects channel and opens the Wheel Picker in the CIA for wheel selection
{Color Select} (Default HES Color Wheel 38)		used to change the dichroics loaded in a color wheel for a moving light.
{Gobo Select} and possibly {Gobo Select 2} (HES Color Wheel 37 & 38)		used to change the gobo wheel loaded in a moving light
{Beam FX Select}	(Acme Effect Wheel 3)	
{Animation Select}	(HES Effect Wheel 14)	

{SHUTTER ORDER}

Invert the shutter order or rotate the order using the arrow buttons. Can be set on a per fixture basis, so if hung sideways, can still have the shutters line up and work the way you want them to.

{Shutter Order}	(Default clockwise with A at top)	opens the Shutter Order display
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Display Layouts and Workspaces

DISPLAY TOOLS

[Live], Press the monitor icon in upper left-hand corner of the display

Layout options give the ability to select different ways to split the screen. A screen can have up to four frames in its layout. Frames can have multiple tabs open.

Select the side-by-side layout

On right hand frame, select the large +, then select Color Picker (Tab 27)

Press the Displays Tool icon again

In the Options area, select the first icon to resize the frames

Use the arrows to choose how wide or tall the frame will be

Tap anywhere on the screen to exit frame sizing

FIXED TAB NUMBERING

All Display and Control tabs have fixed tab numbering. Patch will always be 12, Group List, 17. When you press [Tab] repeatedly, focus moves numerically through all open tabs on active workspaces.

Hold [Tab] & press [12] (Patch)

Hold [Tab] & press [4]

Hold [Tab] & press [4.2]

WORKSPACES

A workspace is made up of multiple frames, each with its own tabs. For each monitor, you can have up to three workspaces.

Hold [Tab] & press [Page ▲] or [Page ▼]

Note: This key combination will only switch into workspaces with open tabs.

OPTIONS

The Display Controls Screen also offers options for opening and closing tabs as well as resizing and resetting the monitor(s).

- **Resize Frames in This Workspace** opens resizing tools between frames of the workspace to adjust sizing as needed.
- **Monitor Mapping** ability to configure your external monitor arrangement (internal displays cannot be renumbered)
- **Close All Tabs in This Workspace** close all the tabs in the active workspace on this monitor only.
- **Reset This Workspace** closes all the tabs and frames and resets the layout for the active workspace to a single frame displaying the Home Screen
- **Reset ALL Monitors & Workspaces** closes all the tabs and frames on all monitors, resets all layouts to a single frame, and returns their workspaces to the Home Screen

After playing, use the Reset all Monitors and Workspaces icon





moves focus to a specified tab

opens a specific tab

opens a secondary tab



to change workspaces across all monitors



close all the tabs and frames on all monitors



Snapshots

Snapshots store layouts so that you can recall them quickly. They are stored in the show file, can be recalled on any device on the network.

RECORDING SNAPSHOTS

In [Live], be in Table View, and in Flexi - Patched Channels on one monitor and have the PSD & CIA on the other

[Record] [{Snapshot}] [1] [Enter]	records the snapshot
Press the display controls icon in upper left-hand corner of the left monitor	I C
Select the side-by-side layout	
Highlight the PSD display on the right monitor. Hold [Tab] and press [Page ▶] or [Page ◀]	move the PSD tab onto the same monitor as the Live display
Press the display controls icon in upper left-hand corner of the right monitor	the monitor with the CIA
Select the side-by-side layout	
Select the Direct Selects display on one side and choose Groups for the type	bottom row, first icon – Tab 4
Select the Color Picker on the other side	bottom row, middle – Tab 27
[Record] [{Snapshot}] [2] [Enter]	records the snapshot

RECALLING SNAPSHOTS

[{Snapshot}] [1] [Enter]	recalls the content of snapshot 1.
[{Snapshot}] [2] [Enter]	recalls the content of snapshot 2.
NOTE: When recalling snapshot, the command does not appear on the command line, it appears above the command line (red text)!	\mathcal{P} \mathbf{X}
Use Snapshot Quick Access Tool (pop-up icon) to select Snapshot 1	recalls the content of snapshot 2.
[{Snapshot}] [{Snapshot}]	opens the Snapshot list

[Label] Cyc Mirror In [Enter]

[Clear] [Sneak] [Enter]

[Group] [101] [Full] [Thru] [10] [Enter]

[Live]

Groups



SUB-GROUPS

You can create subsets of channels within a group that are treated as a single channel in group/channel selection and in effects.

он от тото учето от тото от то	
[Group] [Group] [103] [Enter]	creates group 103
[Shift]&[/] [51] [Thru] [53] [Shift]&[/] [Shift]&[/] [54] [Thru] [56] [Shift]&[/] [Shift]&[/] [60] [Thru] [62] [Shift]&[/] [Enter]	puts sidelights in sub-groups
[Shift]& [/] [/] will close one set of parentheses and open the next.	
[Live] [Clear] [Sneak] [Enter]	
[Group] [103] [Full] {ChanCheck} [Enter] [Next]	does a channel check with sub-groups
Each set of three channels is treated as one channel in the channel check, and if we apply an effect to the group.	
[Clear]	
[Shift]&[/] [Group] [5] [Shift]&[/] [Shift]&[/] [Group] [7] [Shift]&[/] [Record] [Group] [23] [Enter] [Label] All Movers [Enter]	creates sub-groups of movers in Live
Create Groups Using Offset	
Using Offset to create groups is a quick way to reorder channels as well as create sub-groups more easily.	
[Clear] [Sneak] [Enter]	
[301] [Thru] [312] {Offset} {Mirror Out} [Record] [Group] [101] [Label] Cyc Mirror Out [Enter]	Offset graphic displayed in CIA area
[Group] [Group]	Back in the Group List
[Group] [101] [Copy To] [Group] [102] [Enter]	
{Reverse} [Enter]	Reverse is a softkey option

Notice cyc is brightest in center



Additional Offset modifiers	
[71] [Thru] [82] {Offset}	
{Chan per Group} [3] [Clear] Then [5] [Clear] Then [4]	Watch graphic in CIA for differences
{Interleave}[Clear]	Reorders the subgroups so they are no sequential
{Jump} [3]	Notice the gap between the subgroups
[Shift]&[Clear]	Clears the command line
[31] [Thru] [50] {Offset} {Mirror Out} {Chan Per Group} [4] {Interleave} [Record] [Group] [104] [Enter]	Watch graphic in CIA as you build
[Group] [104] [Full] {Chan Check} [Enter] [Next] [Next] [Next]	Watch the viz to see sub-groups

GROUP LIST

All Groups should be in the show after the previous exercises.

If not labeled, take a moment and do so.

Group #	Label	Channels
1	Frontlight	1 > 10
2	Downlight	31 > 50
3	High Sides – Left	51 > 62
4	High Sides – Right	71 > 82
5	FOH Movers	101 > 105
7	OS Mover Wash	121 > 128
9	Side Mids	141 > 148
10	Side Scrollers	151 > 158
20	Сус Тор	301 > 312
21	Cyc Bottom	351 > 362
22	All Cyc	301 > 312 351 > 362
23	All Movers	(101 > 105) (121 > 128)
30	Effect 1	34, 31, 33, 35, 32
101	Cyc Mirror Out	(306 > 307) (305 308) (304 309) (303 310) (302 311) (301 312)
102	Cyc Mirror In	(301 312) (302 311) (303 310) (304 309) (305 308) (306 > 307)
103	Left Hi Sides	(51 > 53) (54 > 56) (57 > 59) (60 > 62)
104	Offset Subgroup	(33 38 43 48) (32 37 42 47 34 39 44 49) (31 36 41 46 35 40 45 50)



Submaster Properties

TIMING ON SUBMASTERS

Changes can be done in Live or in Sub List. Bump button is the Go.

		-
	ı	VA
_	ı	vei

[Live]	
[Sub] [1] [Time] [3] [Time] [4] [Time] [3] [Enter]	adds a 3 sec upfade, dwells for 4 sec and 3 sec downfade
Press the bump button of fader 1 just once	fades up, holds, then fades down
HOLD	
[Sub] [1] {Hold} [Enter]	changes the dwell time to 'hold'
Press the bump button to start the upfade	fades up, holds indefinitely
Press the bump button to start the downfade	fades down
RESTORE TO DEFAULT TIME	
[Sub] [1] [Time] [Enter]	resets to default times (0/Man/0)
Submaster List	
[Sub] [Sub] or Add-a-Tab (the {+} sign)	opens the submaster list - use the softkeys

for selection and editing

PERCENT (%)

The list shows the current level in Live of each submaster.

LABEL

[Sub] [1] [Label] Front Light [Enter]	displayed in List as well as Sub displays
{Edit} [10] [Full] [Enter]	add a channel into this sub in Blind
[Sub] [Sub]	back to Submaster List

FADER

The list shows the location of the submaster – page / fader number.

Mode: Additive, Inhibitive, or Effect

Mode has 3 options, **Additive** (contributes to the live output), **Inhibitive** (limits live output) restricts the values as the fader comes down, like a mini grand master for the contents of the sub, and Effect.

[Sub] [1],	under	wode,	{Innibitive}
------------	-------	-------	--------------

makes sub 1 an inhibitive sub LED turns red

	makes sub i an inibitive sub, LED turns rea
Push Fader 1 up if on non-motorized hardware	
{Edit} to be in Blind	notice the 'INs' as channel values
[Live] [Go To Cue] [1] [Enter]	runs the cue with specials
Slowly bring the fader out	channels go out - notice small 'I' in channel display
Bring the fader back up	leave up for duration
[Go To Cue] [Out] [Enter]	

FOH INHIBITIVE SUB	
A good example of using an Inhibitive Submaster is for FOH lights on main curtain - would never use as an additive – great for multiple curtain calls	
[Group] [1] [+] [Group] [5] [Full] [Enter]	select only intensity for channels
[Select Last] [-] {All NPs} [Record] [Sub] [3] [Label] FOH Inhib [Enter] [Load] to fader 3	record and load the sub
[Sub] [3], {Properties}, under Mode, {Inhibitive}	FOH lights on main curtain - would never use as an additive – curtain calls
Bring fader up	for rest of class
Master: Proportional or Intensity Master	
Proportional submasters control all contents of the submaster (intensity and non-intensity parameters). (DEFAULT)	
[Clear] [Sneak] [Enter]	
[Group] [5] [Full] [Full], tilt up on cyc	
[Record] [Sub] [10] [Enter], Load to fader 10, [Clear] [Sneak] [Enter]	records sub and clears manual values
Then bring fader up, see live changes Bring fader down	shows proportional control of contents
Intensity masters only control intensity. The bump button is used to preset (mark and unmark) non-intensity parameters.	
[Sub] [10], {Properties} under Master, {Int}	toggles the submaster to an I Master
[Sub] [10], (Floperices) under Musici, (int)	toggles the submaster to an I-Master
With fader down, press the bottom bump button, LED flashes	marks the non-intensity parameters
With fader down, press the bottom bump button, LED flashes	marks the non-intensity parameters
With fader down, press the bottom bump button, LED flashes Bring fader up	marks the non-intensity parameters now shows Intensity control only
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button	marks the non-intensity parameters now shows Intensity control only
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button EXAMPLE WITH LED COLOR	marks the non-intensity parameters now shows Intensity control only
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button EXAMPLE WITH LED COLOR [Group] [20] [Full] [Full], make them blue	marks the non-intensity parameters now shows Intensity control only Unmarks (resets) non-intensity parameters
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button EXAMPLE WITH LED COLOR [Group] [20] [Full] [Full], make them blue [Record] [Sub] [11] [Enter], Load to fader 9, [Clear] [Sneak] [Enter]	marks the non-intensity parameters now shows Intensity control only Unmarks (resets) non-intensity parameters records sub and clears manual values
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button EXAMPLE WITH LED COLOR [Group] [20] [Full] [Full], make them blue [Record] [Sub] [11] [Enter], Load to fader 9, [Clear] [Sneak] [Enter] [Sub] [11], {Properties} under Master, {Int}	marks the non-intensity parameters now shows Intensity control only Unmarks (resets) non-intensity parameters records sub and clears manual values toggles the submaster to an I-Master
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button EXAMPLE WITH LED COLOR [Group] [20] [Full] [Full], make them blue [Record] [Sub] [11] [Enter], Load to fader 9, [Clear] [Sneak] [Enter] [Sub] [11], {Properties} under Master, {Int} Press the bump button, bring fader up and down If the bump button is not pressed, as soon as the fader hits 1%, the non-intensity parameters will mark as fast as possible, and the rest of the fader	marks the non-intensity parameters now shows Intensity control only Unmarks (resets) non-intensity parameters records sub and clears manual values toggles the submaster to an I-Master
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button EXAMPLE WITH LED COLOR [Group] [20] [Full] [Full], make them blue [Record] [Sub] [11] [Enter], Load to fader 9, [Clear] [Sneak] [Enter] [Sub] [11], {Properties} under Master, {Int} Press the bump button, bring fader up and down If the bump button is not pressed, as soon as the fader hits 1%, the non-intensity parameters will mark as fast as possible, and the rest of the fader travel will be intensity only. There is an option in Properties called Unmark 0. If selected, the non-intensity	marks the non-intensity parameters now shows Intensity control only Unmarks (resets) non-intensity parameters records sub and clears manual values toggles the submaster to an I-Master
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button EXAMPLE WITH LED COLOR [Group] [20] [Full] [Full], make them blue [Record] [Sub] [11] [Enter], Load to fader 9, [Clear] [Sneak] [Enter] [Sub] [11], {Properties} under Master, {Int} Press the bump button, bring fader up and down If the bump button is not pressed, as soon as the fader hits 1%, the non-intensity parameters will mark as fast as possible, and the rest of the fader travel will be intensity only. There is an option in Properties called Unmark 0. If selected, the non-intensity parameters of the submaster will be released when the fader reaches 0%.	marks the non-intensity parameters now shows Intensity control only Unmarks (resets) non-intensity parameters records sub and clears manual values toggles the submaster to an I-Master only see color as fades up
With fader down, press the bottom bump button, LED flashes Bring fader up Bring fader down and tap bottom bump button EXAMPLE WITH LED COLOR [Group] [20] [Full] [Full], make them blue [Record] [Sub] [11] [Enter], Load to fader 9, [Clear] [Sneak] [Enter] [Sub] [11], {Properties} under Master, {Int} Press the bump button, bring fader up and down If the bump button is not pressed, as soon as the fader hits 1%, the non-intensity parameters will mark as fast as possible, and the rest of the fader travel will be intensity only. There is an option in Properties called Unmark 0. If selected, the non-intensity parameters of the submaster will be released when the fader reaches 0%. Then bring fader 9 up slowly and down	marks the non-intensity parameters now shows Intensity control only Unmarks (resets) non-intensity parameters records sub and clears manual values toggles the submaster to an I-Master only see color as fades up see the live change, watch the RGB values

Think about Houselights on a Sub that is set to Exclude from Record.



Syntax / Command Line Filtering

EXPECTED SYNTAX

The command line expects instructions to be entered in a specific structure, or syntax:

Channel Selection and/or Categories & Parameters →→ Modifiers and/or Action

Channel Selection	Categories & Parameters	Modifiers	Action
Chan 1			At Full
Group 6	Color		Record Preset 4
Group 6	Cyan		At /50
Chan 1	Image	- Gobo Rot	Sneak Enter

You don't have to use something from every column each time, but you must enter it in this order.

USING SNEAK

[Group] [5] [Full] [Enter], tilt up on cyc, in orange, with gobo, zoom out, and make it sharp (edge full)	set levels
[101] [Sneak] [Enter]	sneaks all parameters including intensity back to default
[102] [Shift]&[Focus] &[Color] &[Beam]* [Sneak] [Enter]	everything but intensity sneaks
* To put Beam on the command line, double hit Form, Image or Shutter.	
[103] [-] [Intensity] [Sneak] [Enter]	same as 102 but stating the exception
[104] {Beam} [-] {Gobo Select} [Sneak] [Enter]	everything in Beam category except Gobo Select sneaks
Command Line filtering lets us be as broad or as specific as we need to when we are modifying or storing information.	



[Copy To] takes the information from here and puts it over there.

[101] [Thru] [104] [Sneak] [Enter]	leaves 105 on stage
[105] [Copy To] [101] [Thru] [104] [Enter]	copies all values to other channels
[102] [Thru] [105] [-] [Shift]&[Intensity] [-] [Shift]&[Focus] [Sneak] [Enter]	resets most values to background state

[Recall From] takes the information from over there and brings it here.

[102] [Thru] [105] [Recall From] [101] [Enter]	channels pull info from 101 and pulls into selected channels
[Select Last] [Home] [Enter]	resets the values to default
[101] [Shift]&[Intensity] &[Focus] &[Color] [Copy to] [103] [Enter]	copies intensity, focus & color but not beam

Copy To and Recall From also works between targets. Channel information can be recalled from other cues or palettes that are not currently live.



Palettes

Palettes are building blocks for programming. There are four types of palettes that correspond with our four data categories – Intensity, Focus, Color, and Beam. These types of record targets are used to quickly recall stored data. Palettes can only contain information within their category. For example, color palettes can only store color information – they can't contain any intensity, focus, or beam data.

It is important to remember that Palettes are referenced data. This means that the changes to the palettes are propagated into all the places the palette is stored such as presets, cues, and effects.

We will learn about everything palettes can do later in the workbooks, but for now we will be using them as programming shortcuts. After we create them once, we can use them over and over for fast recall of data.



COLOR PALETTES

[Clear] [Sneak] [Enter]	clears the stage
[Group] [2] [Thru] [9] [+] [Group] [22] [Record] [Group] [99] [Enter]	sets up a group for use with color palettes
[Group] [99] [Full] [Enter] {Color Picker} and select a red	notice not all the same
[Group] [99] [Record] [Color Palette] [1] [Label] Red [Enter]	records Color Palette 1
[Clear] [Sneak] [Enter]	
[Group] [2] [Full] [Full] [Color Palette] [1] [Enter]	the downlights go to red
[Group] [99] [Full] [Enter] {Color Picker} and select an orange	
[Select Last] [Record] [Color Palette] [Next] [Label] Orange [Enter]	records Color Palette 2

Color Palette Exercise

Record five more Color Palettes using Group 99:

CP1	Red
CP2	Orange
CP3	Yellow
CP4	Green
CP5	Lt blue
CP6	Dk blue
CP7	Magenta

To display labels or values:

- **[About]&[Label]** toggles the display between referenced labels and target numbers.
- [About]&[Label] [Label] locks reference labels on. Press [About]&[Label] again to unlock.
- [About]&[Data] displays non-manual levels.



FOCUS PALETTES

[Clear] [Sneak] [Enter]	
[Group] [5] [Full] [Enter] and tilt up on stage	brings up FOH lights
[Next][Next] and focus each light on the Guitar Player	
[Select Last] [Record] [Focus Palette] [1] [Label] Guitar [Enter]	records Focus Palette 1
[Clear] [Sneak] [Enter]	
[103] [Full] [Full] [Focus Palette] [1] [Enter]	The test – did the light go to the guitar player?

Remember, to view reference labels, right click or tap on the display tab, select the bottom option, and then check the Show Reference Labels option.

[About]&[Label] - (a maintained press) - toggles between referenced label and target number. Keep **[About]** depressed to page.

[About]&[Label] [Label] - double press to lock reference labels on.

Press [About] again to unlock.

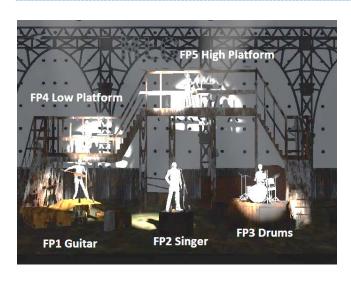
Focus Palette Exercise

Record four more Focus Palettes using Group 5:

FP1	Guitar (SR)
FP2	Singer (CS)
FP3	Drums (SL)
FP4	Low Platform (USR Platform)
FP5	High Platform (USL Platform)

WHEN DONE...

[Group] [5] [Full] [Enter] [Focus Palette] [1] [Thru] [5] [Enter]	fans the lights across all 5 palettes
OR [Group] [5] [Focus Palette] [3] [+] [4] [Enter]	fans lights from palette 3 to 4 in a line



Data Latched at top of screen

reference

brings back absolute data – without



am Palettes	
[Live], [Format] to table view,	make sure you are in Live Table View
[Clear] [Sneak] [Enter] [Group] [5] [Full] [Enter] Tilt on stage	put lights back on stage
{Form}, {Zoom} [26] [Enter], {Image}, {Gobo Select} {Bars 2}	zoom fixtures and in bars gobo
Make it sharp	
[Select Last] [Record] [Beam Palette] [1] [Enter]	records BP info for all beam parameters
Notice that all parameters in the Beam category have been recorded into the Beam Palette BP1). Not just zoom and gobo select.	
Using Command Line Filtering	
[Select Last] [Shift]&[Image] [Record] [Beam Palette] [2] [Enter]	records Zoom, Edge and Gobo
[Page ▶] to see Beam parameters	see that just parameters from Image categorare stored in BP2
[Blind], [Format] to table view,	
[Beam Palette] [1] [Enter], [Group] [5] [Enter], [Page ▶]	see that BP stored data in all parameters
[Shift]&[Next] to see Beam palette 2	only see data for image parameters
When applying BP2, any form or shutter parameter values will not be overridden, since there are no form or shutter values stored in that BP.	
[Live]	
[Group] [5] {Gobo Select} [Record] [Beam Palette] [3] [Label] Bars [Enter]	see that only Gobo Select is recorded in BP "Bars" shows up as label
[Group] [5] {Zoom} [Record] [Beam Palette] [4] [Label] 26 deg [Enter]	see that only Zoom is recorded in BP4, "26 deg" shows up as label
ENGITA DALETTEC	
ENSITY PALETTES	
[Clear] [Sneak] [Enter] [1] [Thru] [Full] [Full] [Enter]	set levels, notice 1 Thru Full selects all channels in your current flexi state
Don't recommend doing this in a real theater!	
[Record] [Intensity Palette] [1] [Label] 100% [Enter]	records active channels at 100% in IP1
[Clear] [Sneak] [Enter]	
[Group] [101] [At] [Full] [Thru] [0] [Enter]	set levels, fans the intensity of the cycs
[Select Last] [Record] [Intensity Palette] [2] [Label] Hot Center [Enter]	records active channels in Intensity Palette
[Clear] [Sneak] [Enter]	
[Group] [101] [Intensity Palette] [1] [Enter]	brings back the levels recorded in Intensity Palette 1 – cyc at 100%
[Intensity Palette] [2] [Enter]	brings back the levels recorded in Intensity Palette 2 – cyc at fanned values
Press & Hold [Data]	to see actual values in Intensity Palette 2

[Data] again to unlatch

If press [Data] [Data] will latch,

[Group] [101] [Recall From] [Intensity Palette] [2] [Enter]

[Clear] [Sneak] [Enter]



Presets – All Palettes

Presets can collect all data for a given channel (intensity, focus, color, and beam palettes as well as absolute data) rather than just one parameter type like with a palette.

[Clear] [Sneak] [Enter]	
[Live] [Group] [5] [IP1] [FP2] [CP1] [BP2] [Enter]	create look with referenced data
[Record] [Preset] [1] [Label] Singer Red [Enter]	records all parameter data for all channels and adds a label to preset 1
Press and hold [Data]	to view referenced palettes
[Clear] [Sneak] [Enter]	
[Group] [5] [Full] [Enter], [Color Palette] [2] [Enter], manually focus, tilt up, zoom out	put the lights back on stage
[Select Last] [-] {Intensity} [Record] [Preset] [2] [Enter]	records cue with referenced data, but selective (without intensity)
Note: Designers tend to record presets without intensity – a common practice	
Press and hold [Data]	see Pan & Tilt have absolute data, color is referenced



Home Preset

Home Presets are a quick way to redefine home values of fixtures.

[Go To	Cue]	[Out]	[Enter]
--------	------	-------	---------

[Group] [5] [Full] [Full], tilt up on stage	move the fixtures to a place where you want them to be at their home position
[Select Last] {Focus} [Record] [Preset] [999] [Label] Home [Enter]	create a preset for the home value
[Sneak] [0] [Enter]	clear the manual values
[Displays] {Setup} {System} {System}	go into setup
{Home Preset} [999] [Enter]	define the home preset that you created
[Live], [Group] [5] [Full] [Full]	bring the channels to full
Still in last location since haven't had a move instruction since defining the home preset.	
Pan & Tilt the units, drop in some color	change the fixtures
[Select Last] [Home] [Enter]	channels go back to the new home.
Pan and Tilt have gone to new home values and are no longer manual data.	
Another Example:	

ANOTHER EXAMPLE:	
[Group] [99] [Full] [Enter]	bring all color changing fixtures to full
Using color picker, {Standard Colors} {3500K}	change them to warm white
[Group] [99] [-] {Intensity} [Update] [Preset] [999] [Enter]	update this as their new home color
[Sneak] [0] [Enter]	clear the manual values
[Group] [2] [Full] [Full]	notice the warmer color

A Home command will use data stored in the home preset. If there is no data stored for a parameter or channel, it will use the console's default home values for that parameter.



Direct Selects

On the right monitor, collapse the CIA

Select Add-a-Tab (the {+} sign), select the DS Direct Select Module (Tab 4)

opens Direct Select display

DIRECT SELECT LAYOUT

When open, there are two banks of targets.

Select (Groups) on top and (Color Palettes) on bottom

To scroll through more direct selects, use the $\{\Delta\}$ $\{\nabla\}$ buttons.

To change the Direct Select type, press the **{Select}** button. Please note that it may have the current target type label instead of the word 'Select'.

(Expand) opens the bank to a full screen of direct selects and displays the century and millennial buttons that allow you to jump to pages in the hundreds and thousands.

TO ACCESS THE CONFIGURATION MENU FOR THE DIRECT SELECT DISPLAY:

Press the Gear tab all the way to the left

Can also right click or double-left click on the tab!

CONFIGURATION MENU OPTIONS

of Banks – enter the number of different target banks desired Current Bank – which bank are you editing

Layout – select banks of 25, 50, 100, or 200

Custom Rows/Columns – can add rows or columns,

Control Buttons – select which buttons are displayed on the screen

- **Position** where do you want to place the control buttons
- **Use Record** displays the {Record} button on the display
- Use Select displays the {Select} button on screen, may have the current target type label instead of the word 'Select'
- Use Flexi {Flexi} button on screen
- Use Expand displays the {Expand} button on screen
- **Use Arrows** displays the page up and down arrows
- Use Jump To displays {Jump To} button use to jump to pages in same list or different list
- **Use Millennial Buttons** displays the 100/1000 target buttons
- **Select** to change the Direct Select target from this window
- Flexi toggles the Flexi state on and off from this window

Other

- **Increment** display targets by whole number, 10ths or 100ths
- **Icon Position** drop down menu location of icon on the tile
- Icon Opacity configures transparency of the image lower levels allow the label to be more visible in front of the image
- Skip Empty Flexi Space shows a visual break instead of a full button space between recorded targets
- Use Color Swatch displays a color tag that previews the color recorded in the Color Palette
- Maximize Button Size similar to Fit to Screen depending on layout, allows buttons to expand to fill the screen





[Group] [Group]	To open the Group List
Select Group 3, press the {Icon} softkey	
Click the import icon in the CIA	
Double click "stock icons"	
Double click "directional arrows" folder	
Double click on Arrow Right	It now appears in the list.
Choose it from the list	
Select Group 4, press the {Icon} softkey	
Click the import icon	
Double click the Arrow Left.	It now appears in the list.
Choose it from the list	
[Live] and go back to the Direct Select tab	Notice that these images are now displayed with those groups.
In the Direct Select gear settings – try Icon Position as top center, bottom left, then center	Note that center fills the whole square
Change Opacity to 100, change it to 50	
Note that you can add these icons to any Target type – they will populate in Direct Selects and can also populate in Magic Sheets	
 Defaults You can save your settings as a default state. Set Current as Default – uses the current settings to create a default state. Reset to Default – restores the settings to the default state. Reset to Eos Default – restores settings to Eos factory defaults. 	
Note that specifically for Group Direct Selects, any Direct Select containing channels within the current command line channel selection will highlight. [31] [Enter]	Groups 2 + 30 are highlighted as each
	contains the selection of channel 31
[31] [+] [51] [Enter]	Groups 2, 3, + 30 are partially highlighted as each contains part of the selection
On the right monitor, open the CIA	
Create two frames, side by side	
Change the existing Direct Select tab on left from 2 banks to 1 bank	
Select Groups	
On new frame on right , open another Direct Select tab	
Select Color Palettes	
[Record] [{Snapshot}] [3] [Label] Programming [Enter]	

command line shows Color Palette 1 + 6

removes beam parameters



Write Cues with Palettes

USING THE COMMAND LINE

[Go To Cue] [27] [Enter]	
[Group] [3] [Full] [Enter] [Color Palette] [7] [Enter]	
[102] [+] [105] [Full] [Enter] [Focus Palette] [1] [Enter]	Lights on Guitar player
[101] [+] [104] [Full] [Enter] [Focus Palette] [3] [Enter]	Lights on Drummer
[Group] [5] [Select Active] [–] {Intensity} [–] {Focus} [Home] [Enter]	removes Color and Beam parameters
[Record] [Next] {Color} [Time] [1] [Enter]	(28)

USING DIRECT SELECTS AND THE COMMAND LINE

[{Snapshot}]	[3] [Enter]
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Touch «Side Mids», [Full] [Full], «Lt Blue» (G9) (CP5)	
Touch «High Sides – Left» and «Orange» (G3) (CP2)	
Touch «Cyc Top» and «Dk Blue» (G22) (CP6)	
[Record] [29] [Time] [3] [Enter]	(29)

Holding [Shift] and pressing a Direct Select will leave the command line unterminated so another command can be added.

[Group] [102], hold [Shift] & touch «Red», release [Shift], touch «Dk Blue»

[103] [Full] [Enter] [Focus Palette] [2] [Enter] (Singer)

[Select Last] [-] {Intensity} [-] {Focus} [Home] [Enter]

Touch «FOH Movers» [-] [103] [Out] (G5)	takes out group with an exception
Touch «High Sides – Right» [Full] [Full] (G4)	
{Color} [Recall From] «High Sides – Left» (G3)	brings color in from the other group
[Record] [30] [Time] [2] [/] [7] {Color} [Time] [2] [Enter]	(30)



Update is a 'save changes' tool. It only pertains to values that are red or modified – values that have been changed. Update saves manual changes back to targets such as cues, palettes, presets and submasters.

UPDATE - MAKE ABSOLUTE

Sometimes we want to make a change to a palette in one cue and not change the palette itself. This is the default way that update works – it's called Make Absolute, and stores changes directly to the cue rather than to the palette. This is useful if you need to make a one-time change to your palette data – for example, if a chair moves from one location to another for one moment in the show, you can simply update the cue for that singular moment.

[Go To Cue] [28] [Enter] and be in Live Table View

[102] [+] [105] [Enter]	the guitar player is doing this part from the floor
Tilt them downstage a bit	makes a manual change to the channels – note the red R's in the table view
[Update] Notice default Make Absolute style [Enter]	absolute data is now stored in cue

Notice that 102 and 105 now have absolute data, no longer references a focus palette

UPDATE A PAI FTTE

Other times, we want to update the palette itself. Be aware that when you update a palette, every place in your show that uses that palette will also be changed. This is useful if the idea behind the palette has changed – for example, if the chair is now two feet away from its original location for the entire show. You can update the chair focus palette and now every place in your show that references that palette will also be changed.

[104] [Enter], tilt down a bit and pan a little

make a change - note the red R's

[Update] [Focus Palette] [3] [Enter]	changes stored in FP3, but still manual (red) in 'old' cue 28 on stage	
[Go To Cue] [Enter]	refreshes the cue	

The console defaults to make absolute meaning that any changes you make to palettes will be stored only in the cue and not affect the palette as a whole. If you want to update the palette, you need specifically call it out on the command line.

Auto-Mark

MARKS IN GENERAL

A Mark automates the process of presetting non-intensity parameters to their required state in a cue, prior to fading intensity up. All move info about marked fixtures is stored in the reference or source cue.

AUTO-MARK

A system default setting that is turned on or off at a global level.

When AutoMark is enabled, non-intensity parameter transitions will occur in the cue *immediately preceding* the cue in which the changes are stored, if intensity in that preceding cue is zero or moving to zero. Marked cues are indicated by an "M" in the Flags column of the playback status display.

In [Live], Look at the PSD/Cue List	Live moves displayed with 'L' flag	
[Go To Cue] [30] [Enter]		
[121] [Full] [Enter], pan/tilt the fixture onto the singer, [At] [5/385] [Enter]		
[Record] [31] [Enter]	(31)	
Press [Back] and then press [▶] (Go)	notice live move	
[Displays] {Setup} {System} {Cue Settings}		
Click on {Auto-Mark} <enabled> and watch the cue list</enabled>	now see 'M' flags, and a few 'D' flags, but notice all the 'L' flags are gone	
[Live], [Go To Cue] [28] [Enter]		
[▶] (Go) on Cue 29	notice Q30 in green on Ch. 103	
[▶] (Go) on Cue 30 – watch Ch. 121 marking	intensity of Ch. 121 says Mk and non- intensity parameter show Q31 in green	
[▶] (Go) on Cue 31	no live move this time	

NOTE If you begin programming with Auto-Mark enabled, and then disable the feature, all of the Auto-Marks in the show are converted to referenced marks.

ALLOW A LIVE MOVE

When you want to see a live move on stage, but the AutoMark is enabled, you can disable AutoMark for an individual cue.

[Cue] [31] {AutoMark Off} [Enter]	notice the 'D' in the Flags column and L for Live move is back
[Go To Cue] [29] [Enter]	
[▶] (Go) on Cue 30	notice no marking
[▶] (Go) on Cue 31	watch the live move

Cue Attributes

CUE SOFTKEYS

When **[Cue]** is pressed, a softkey called **{Attributes}** is displayed. When **{Attributes}** is pressed, several new softkeys appear.

Let's look at **{Scene}** and **{Note}**.

SCENE

Scenes are a cue organization tool that provide a visual identifier for breaks in the show. Scenes allow for quick cue list navigation without needing to remember a cue.

CREATING A SCENE BREAK

Using Snapsho	t pop-up, recal	I Snapshot 1
Coming officepoint	r pop ap, iccai	i bilapsilot i

[Cue] [1] {Attributes} {Scene}

The virtual alphanumeric keyboard opens:	Act 1 [Enter]	adds a Scene marker to cue 1
THE VILLUAL AIDHAILAILE IL KEVDOALA ODELIS.	ACC I [LIICEI]	adds a scelle marker to cue i

SCENE END

[Cue] [10] {Attributes} {Scene End} [Enter]

adds an End of Scene marker to cue 10

CUE RANGE SCENE

[Cue] [11] [Thru] [14] {Attributes} {Scene} Act 2 [Enter]

adds a Scene marker above cue 11 and an End of scene marker after cue 14

Notice the line above Cue 11 and below Cue 14

[Cue] [15] [Thru] [17] {Attributes} {Scene} Act 3 [Enter]

adds a Scene marker above cue 15 and an End of scene marker after cue 17

goes to cue at the top of that scene

Notice as you page up and down on the cue list (PSD), the scene break stays locked as long the cue list is in that scene. Brackets around the label indicate that the cue at the top of the screen is not the first cue in that scene.

NAVIGATION TO SCENE

[Go To Cue] {Scenes}* {Act 2} [Enter]

UPDATING A SCENE

The **{Scene End}** softkey can also be used when updating the cues in a scene. For example, **[Update] <Cue> [5] [Thru] {Scene End}** will put the last cue of that scene on the command line.

Don't forget to add [Q Only/Track] to stop tracking if needed!

REMOVE A SCENE BREAK

[Cue] [11]	{Attributes}	· {Scene}	[Label]	[Enter]
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to remove a scene

[Cue] [14] {Attributes} {Scene End} [Enter]

to remove a scene end

SCENES IN DIRECT SELECTS

Add-a-Tab (the {+} sign), select Direct Selects (Tab 4), choose Scenes

open a Direct Select Tab

[Go To Cue] «Act 1» - self-terminating

use DS to navigate to scenes

As with all Direct Selects, if don't want it to terminate, can press [Shift] & «DS»

^{*} The CIA opens and shows all the different scene breaks created.

NOTES

Cues can have notes attached to them. This is more of a long form phrase instead of a label which is generally a short reminder of what a cue is doing.

[Cue] [11] {Attribute} {Notes} Band improvs while waiting for quick change [Enter]

to add a note

Notice in the label field of the PSD, a little plus (+) mark has appeared. Hover over that label field to see the note as a floating dialog box.



PLAYBACK STATUS DISPLAY (PSD) CONFIGURATION MENU

The following options are available in the PSD Configuration Menu:

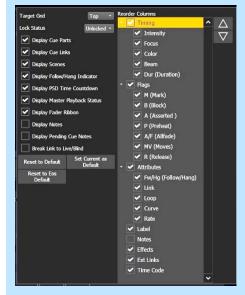
- Target Grid selects top or bottom when the PSD is split
- Lock Status allows you to lock the PSD to a certain cue list.
- **Display Cue Parts** displays the individual parts of a part cue. When not enabled, the number of parts for that cue will display as a superscript number beside the cue's number.
- **Display Cue Links** displays the Link/Loop information.
- **Display Scenes** displays cue scene information.
- Display Follow/Hang Indicator displays the Follow/ Hang arrow indicator before the cue number of any cue that will be triggered by a follow or hang.
- **Display PSD Time Countdown** displays the cue category times countdown in the PSD as a cue is fading.
- **Display Master Playback Status** displays the current cue's status information. Current and pending cue status
- **Display Fader Ribbon** displays the fader ribbon, which shows the current fader page under the Master Playback Status.
- **Display Notes** displays the Cue Notes in a horizontal bar at the bottom of the PSD.
- **Display Pending Cue Notes** displays the Cue Notes for the pending cue in a horizontal bar at the bottom of the PSD.
- Break Link to Live/Blind When selecting the Live/ Blind display, the PSD will also come into view if it is currently hidden. This option allows you to break the link between the PSD and the Live/ Blind displays so that the PSD will no longer come into view when selecting Live/ Blind.

In the **Reorder column** section, you can choose what data displays in the PSD and what order it displays in. By default, all columns except notes will be displayed. Click or tap the name and use the arrow keys on the right to move columns around. The check boxes suppress or enable.

- Set Current as Default uses the current settings to create a
 default state for all other instances of the PSD.
- **Reset to Default** returns the settings to the default state that you created.
- **Reset to Eos Default** returns all settings to the Eos defaults.

Feel free to set up the PSD the way that you prefer.

[Record] [{Snapshot}] [1] [Enter] [Enter]



to re-record Snapshot 1



Discrete Timing

Timing can be applied directly at a channel or parameter level.

DISCRETE CHANNEL TIMING

[Select Active] [Out]	fastest way to a blackout	
[Record] [Next] [Time] [3] [Block] [Assert] [Label] Fade to Black [Enter]	records fade to black with block, assert, and label (32)	
[103] [Time] [10] [Enter]* [Update] [Enter]	records time for channel 103 only in cue 32	

* Notice the small red "t" displayed on the channel. Reminder – manual data! When updated, the "t" becomes blue. A '+' is also displayed on the cue in the PSD. Hold the Timing Displays button, [Time], (right hand side of the board) or hold [About]&[Time] to see the time displayed on the channel. It is displayed as 'D/T' where D is the Delay time and T is the Channel Time.

[■] (Stop/Back) to cue 31 [▶] (Go) and watch the timing	watch channel 103 take 10 secs. to fade out
Hold [Flexi] and press {Time} in the CIA	Only channels with discrete timing are displayed
[{Snapshot}] [1] [Enter]	

DISCRETE TIMING BY RANGE

[Group] [20] [Full] [Enter], [Color Palette] [4] [Enter]	set level of cyc full in green
[Record] [Next] [Enter]	records next cue (33)
[Group] [20] [Time] [1] [Thru] [15] [Enter] [Update] [Enter]	adds a distributed timing of 1 to 15 secs across the channel list, blue "t" and '+'
[■] (Stop/Back) and hit [▶] (Go)	watch the fade

Fan Time of 0 thru 15 – the fades start all at the same time but take times to complete.

DISCRETE TIMINO	3 WITH DELAY	1
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[Group] [101] [At] [50] [Enter], [Color Palette] [6] [Enter]	set level of cyc full in blue
[Record] [Next] [Time] [2] [Enter]	records next cue (34)
[Select Last] [Delay] [0] [Thru] [3] [Enter] [Update] [Enter]	adds a delay timing of 0 to 3 secs, blue "t" and '+' in Time column
[■] (Stop/Back) and hit [▶] (Go)	watch the fade

DISCRETE TIMING BY PARAMETER

[Group] [5] [Full] [Enter] [Record] [35] [Enter]	set levels and records cue (35)
[Select Last] [Focus Palette] [5] [Enter]	
[Select Last] {Tilt} [Delay] [5] [Enter]	adds a delay of 5 sec to tilt

[Record] [36] [Enter]	records next cue (36)

[■] (Stop/Back) and hit [▶] (Go) watch the fade

CLEAR DISCRETE TIMING

[Group] [5] [Delay] [Enter]	[Update] [Enter]	removes the discrete timing and the '+'
[foliamed formed	

^{*} Notice the + on Focus time has gone away and the duration is reset.











Multipart Cues

Multipart cues can be used to organize channels and affect their playback attributes and timing as a group. A cue can have up to 20 parts.

MAKE A MULTIPART CUE FROM AN EXISTING CUE IN BLIND

[Live] [Go To Cue] [36] [Enter]	
[Group] [3] [Full] [Full] {Color} [Home] [Enter]	put channels at full, sets color to warm white
[Record] [37] [Enter]	creates cue 37
[Blind], [Format] to Spreadsheet view Hold [Shift]&[Format] to hide non-intensity parameters	switch to Spreadsheet View
[51] [Thru] [53] [Part] [2] [Enter] [Enter]	moves channels into Part 2 – 2 nd Enter to confirm the break into parts
[54] [Thru] [56] [Part] [3] [Enter]	moves channels into new part of cue
[57] [Thru] [59] [Part] [4] [Enter]	moves channels into another part
Make a Multipart Cue from an existing cue In Live	
[Live] [Go To Cue] [2] [Enter]	
[Group] [2] [Color Palette] [7] [Enter] [At] [Full] [Enter]	
[Update] [Enter] [▶] (Go) on Cue 3	
[102] [Full] [Enter] [Focus Palette] [3] [Color Palette] [5] [Enter]	
[Select Last] [Record] [Part] [2] [Time] [1] [Enter] [Enter]	moves selected channels to part 2, all data that has not moved is in part 1
[Group] [2] [Color Palette] [2]	takes only the color parameters of the channels and moves them into part 3
[Select Last] {Color} [Record] [Part] [3] [Delay] [5] [Enter] [Enter]	moves selected channels to part 3
[Clear], press [Last] to see parts in PSD	
Change Attributes of a Multipart Cue	
[Cue] [3] [Time] [6] [Enter]	not specifying a part assumes part 1
[Part] [2] [Time] [3] [Enter] [Label] Drummer [Enter]	changes the fade time for the channels in part 2 to a time of 3 and labels part
[Go To Cue] [2] [Enter] [▶] (Go) on cue 3	run cue, watch the fade times.

[Delete] <Cue> [3] [Part] [3] [Enter] [Enter] deletes part 3 of cue 3. When you delete parts of a multipart cue, any move instructions in the deleted part are moved to the first available part.

MULTIPART CUES BEST PRACTICES

- Unlike discrete timing, Multipart cues show all of their timing information on the surface and can have labels. This makes complex timing changes easier to identify and track.
- Use parts to group like-types of data together all channels that are marking, for example.
- Display Cue Parts can be toggled on or off in the PSD Configuration menu.



Effects

WORKING WITH A PRE-PROGRAMMED FEECT

Effects 901 – 918 are preprogrammed effects

[Live], [Go To Cue] [Out] [Enter], [Group] [5] [Full] [Enter], [FP2] [Enter]

[Group] [5] [Effect] [901] [Enter]

EFFECT PROPERTIES

[Effect] [Effect]

to open the Effects Editor

Effect properties include: {Type}, {Scale}, {Cycle Time}, {Duration/Cycle}, {Parameters}, {Attributes} as well as {Entry} & {Exit} methods, {Time}, {Grouping} and {Trail}.

ENCODERS

{Scale} - Size (default 25)

{Horizontal} – (Default), press and hold [Shift] for vertical or tap the encoder **{Axis}** – Rotates the shape (Watch the graph as well)

{Cycle Time} – Speed of the effect

ATTRIBUTES

(Grouping) determines how channels currently running the effect will be distributed throughout the pattern. Grouping defaults to {Spread}. Every light runs individually, based on the channel order, cycle time, and trail times. A grouping of 2 means every other light will move together. Grouping of three means every third light, and so on.

TRAIL

{Trail} determines how fixtures are to follow each other through the effect; it is a percentage of the cycle time. Trail can be any value from 0-200%, even, or solo. The default is even.

- **{Even}** the fixtures will be distributed evenly throughout the path. This is calculated by dividing the cycle time of the effect by the number of channels.
- {Solo} the first fixture will execute the entire path. When done, the second fixture will execute the entire path.
- **{10%} {90%}** when the first fixture is 10% through the effect, the second fixture will start the effect, and so on through the remaining fixtures. Therefore, the fixtures will trail n% behind each other, as a percentage of the cycle time.

STOPPING AN EFFECT

[Live] [Group] [5] [Out]	takes out intensity, but effect still running
[Group] [5] [Effect] [Enter]	stops the effect on selected channels
OR [Effect] [901] [At] [Enter]	stops selected effect
OR [Stop Effect] [Enter]	stops all effects



COPY AN EFFECT

You can copy effects to another effect location and modify them from there. This will leave the original effect untouched.

[Effect] [Effect]

[Effect] [901] [Copy To] [2] [Enter]	copies the effect to a new number
[Label] [Label] Modified Circle [Enter]	can also label the new effect

DELETE AN EFFECT

[Delete] [Effect] [2] [Enter] [Enter]

If you delete one of the default effects (901 through 918), that effect will return to its default values.

[Delete] [Effect] [901] [Enter] [Enter]

deletes the effect - in this case, returning it to its default values

deletes the effect



CREATE A RELATIVE EFFECT

Relative effects are mathematical based effects that can run on any fixtures that have similar parameters. A focus effect can be run on any fixtures that have pan and tilt parameters.

FOCUS EFFECT

[Effect] [Effect]

[Effect] [2] [Enter]	{Focus}	creates a new focus effect

Graph: X is Pan; Y is Tilt; center is where the light is focused.

{Edit}, then {Clear All}, on the grid, left click & drag to create a closed path draw something – a heart, clover

The following tools are also available to edit the curve:

- **Draw** draw lines for linear effects or append points to focus effects
- **Select** select points of the curve (if none selected, all are changed)
- Move move selected points, can also phase-shift the curve of linear effects in steps of 30 degree
- Form scale linear effects on y-axis and focus effect separately on xand y-axis
- **Scale** increase or decrease overall size of the effect on both axis
- Rotate rotate focus effects around center of the selected points

The following actions are available when editing the curve:

- Clear Selection removes selected points and defaults to all points
- **Smooth** smooths the selected points
- Mirror Hor. /Vert. mirrors the curve
- **Subdivide** adds one point on each selected segment (useful to move that point or change the behavior of smooth)
- **Remove** removes the selected points
- Undo undoes the last operation
- **Redo** redoes the last operation

Don't forget to hit {Apply}! {Grouping} {1} [Enter]	easier to see them all move as one
[Live] [Group] [5] [Full] [Enter] [FP2] [Enter] [Effect] [2] [Enter]	if not already there



CREATE A LINEAR EFFECT

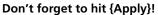
A linear effect does not have to be parameter specific. Rather it can simply be a reference to a linear diagram which can be applied to any parameter.

[Effect] [Effect]

[Effect] [12] [Enter]	{Linear},	{Edit},	{Patterns}	creates a new linear effect
Select the NTX Flicke	r Pattern			in patterns, 2 nd row, middle

The tools are slightly different for a linear effect:

- **Draw** draw a new line for linear effects or append points to focus effects
- **Select** select points of the curve (if no points are selected, all are changed)
- Move move selected points, can also phase-shift the curve of linear effects in steps of 30 degree (only if no partial selection was made)
- **Form** scale linear effects on y-axis and focus effect separately on x-and y-axis
- **Gamma** apply a log function to the curve (linear effects only)



[Live], [Group] [5] [Home] [Enter] [At] [50] [Enter], [Effect] [12] [Enter]

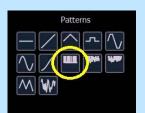
[Effect] [Enter] to stop effect

Don't lorget to filt (Apply):

[Live], [Group] [3] [nome] [Enter] [At] [30] [Enter], [Enect] [12] [Ente

COLOR EFFECT

Color effects impact only color parameters. Similar to Focus Effects, they default to a circle pattern, with hue and saturation offsets. The **{Parameters}** key within the Effects Editor displays the various color mechanisms used in any patched channels.





CREATE AN ABSOLUTE EFFECT

Absolute effects are like step-based effects in that they contain a series of sequential actions. However, unlike step-based effects, absolute effects can be applied to any fixture that contains the parameter(s) specified in the effect. For example, an absolute effect that affects intensity can be applied to virtually any fixture; an absolute effect with color palettes as actions can be applied to any fixtures that have data stored in those color palettes.

WITH COLOR

[Effect] [Effect] [3] [Enter]	creates a new effect
<type> {Absolute}</type>	selects Absolute and changes display
{Action} [1] [Thru] [7] [Enter] [Enter]	creates 7 actions
[Page▶] to {Level} column,	
[Color Palette] [1] [Thru] [7] [Enter]	enters CP1 – 7 into the 7 actions
[Live] [Group] [2] [Full] [Rem Dim] [Enter] [Effect] [3] [Enter]	plays effect across downlights
[Group] [9] [Full] [Enter] [Effect] [3] [Enter]	effect runs on sidelights
[Group] [101] [Full] [Rem Dim] [Enter]	brings up the cyc
[Select Last] [Effect] [3] [Enter]	plays effect running out from center
[Group] [102] [Effect] [3] [Enter]	plays effect running in toward center
Watch the effect on the color picker display too! Play with grouping on this effect – note that a grouping of 1 will do a solid color change of the whole cyc.	
[Clear] [Sneak] [Enter]	



WITH INTENSITY

[Effect] [Effect]	
[Effect] [4] [Enter]	creates a new effect
<type> {Absolute}</type>	selects Absolute
Check out the default Absolute effect - intensity based Action 1 = 0 and Action 2 = Background (Bkgrd) (=At Enter)	
[Live] [Go To Cue] [7] [Enter]	bring up a cue onstage
[Select Active] [Effect] [4] [Enter]	replays the effect on the cue levels
[Effect] [Effect]	
Change Action 1 = Full and leave Action 2 = Background (Bkgrd)	see how the effect has changed
[Live] [Go to Cue] [Out] [Enter]	clears effect and cue



WRITING EFFECTS INTO CUES

[Go To Cue] [37] [Enter]	
[Group] [3] [Effect] [3] [Enter] [Record] [37.1] [Enter]	effect number shown in FX on PSD (37.1)
[Group] [5] [Effect] [901] [Enter] [Record] [Next] [Enter]	see how the effect has changed (37.2)
[Group] [5] [Focus Palette] [1] [Enter]	
[Group] [3] [Stop Effect] [Enter] [Record] [37.3] [Enter]	clears effect and records cue (37.3)
[Go To Cue] [37] [Enter] and run the cues	
[Go To Cue] [Out] [Enter]	



About "About"

"About" displays detailed information for nearly every target type.

[Shift]&[Clear] [About] on a clear command line, About shows you information about the console

In the CIA, [About] displays the following information:

- System address count
- Software version
- Fixture library version
- Copyright & Licensing notifications
- Device name
- Assigned as (Primary/Backup/Client/Offline)
- User ID
- Priority (ACN and Net2)
- IP Address(es) may be multiple IPs listed
- **Defined Parameters**

- Number of patched addresses
- Number of unpatched defined parameters
- Number of patched channels
- Number of cues
- Allowed output addresses

On right hand side, {Console Status}	shows Network Devices, status, and address
This display shows any informational, advisory, or warning messages about your console and suggested actions to solve the issues	
{What's New}	opens the Manual, Tab #100
Contents on the side bar and a Search function in upper left of the tab	
Hold [Tab] & press [100]	opens the Manual Tab
Please note that the manual is not available on Windows XP devices or on MAC computers but is available as a download from the web site.	
{About System}	shows Network Devices, status, and address
[About] again or [Displays]	to bring back CIA/Browser



Magic Sheets

Magic Sheets is a tool that allows you to create a custom layout to display and to interact with your console functions in different ways.

OPEN A NEW OR BLANK MAGIC SHEET

Use Add-a-Tab (the {+} sign) and select the magic wand (Tab 3)

OR

[Displays] {Magic Sheet} [Enter]

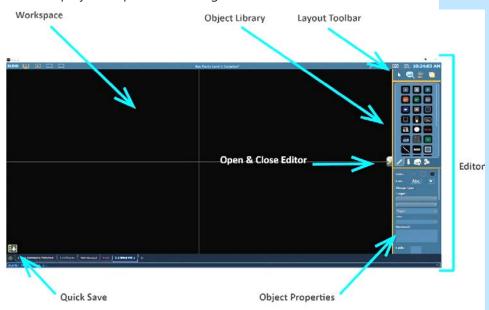
Click or touch "create a new Magic Sheet..."

OR

[Displays] {Magic Sheet} [1] [Enter]

GETTING STARTED

Clicking on the Edit button (>) on the right-hand side of the magic sheet display will open the editing tools.



Mouse Navigation Tools

Use your mouse wheel

to zoom in and out

to pan or drag the display

Right click and hold

QUICK SAVE — CREATING RESTORE POINTS

Clicking on the **{Quick Save}** button allows you to save a restore point for the magic sheet you are working on. Once saved, a green check mark will temporarily appear next to the **{Quick Save}** button. This creates a restore point allowing you to undo back to that point.

NOTE: If no restore points are saved, [Undo] [Enter] deletes the magic sheet.

Closing and re-opening your Editor will also create an undo restore point.

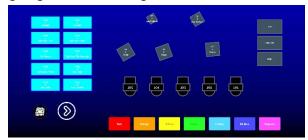






PLACE AN OBJECT

We are going to make a Magic Sheet that looks something like this:



SIMPLE TOOLS

Click in the Object Library on the rectangle 7th down on the right

Drop it on the worksheet

- Green Handle for proportional stretch
- Blue handles for edge stretch
- White dot handle for rotate
- Pink handles for individual point move

Leave as a rectangle, stretch it to be double the width as the height

COLOR PROPERTIES

- Outline line weight
- Outline color
- Object fill color
 - Brightness (saturation) bar on right side
 - X is the no fill or clear.

Select a line weight and a fill color

that object's group.

will be selected.

(Change Type) allows you to quickly change the object type without having to drag a new object in or redo all the properties.

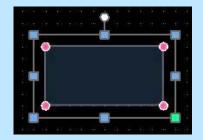
TARGET ASSIGNMENT

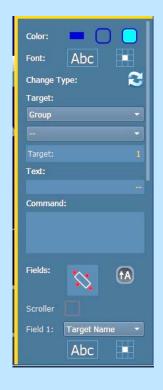
 Address 	Beam Palette	Channel (default)	
 Channel (By Address) 	 Color Palette 	• Cue	
 Cue Active 	 Cue Pending 	Effect	
• Fader	 Focus Palette 	Group	
 Intensity Palette 	 Macro 	 Magic Sheet 	
 Pixel Map 	 Preset 	 Response IO Relay 	
• Scene	 Snapshot 	 Submaster 	
• User	•	•	
Console Button – second field, drop down of all console buttons			
 Softkey – second field, drop down of softkeys 1 - 6, including More Softkeys 			
 Command – write command in command field, label in text field 			

Zoom - when clicked, the view will zoom in to show all objects within

Selection - when clicked, all other objects within that object's group

Make the target as 'Group' and the target number as 1





FIELD SELECTION

Up to six different fields of custom information can be displayed. Field options are context sensitive based on the object.

Target ID	Fixture Type
 Target Name 	• Label
 Text 1-10, Text Gel 	• Icon
 Intensity/ Intensity Bar 	 Color Swatch
 Summary 	 Focus
 Color 	• Beam
 Status 	 Prev Move / Next Move
• Cell	 Address
Port Offset	

- **Abc or Font icon** adjust the font type, size, color, style (bold, italic)
- Alignment icon position of the field

Make Field 1 the Target Name, Field 2 the Target ID, and Field 3 Label

The object might look something like the image to the right.

With the Group object selected, CTRL+C and CTRL+V

Select the new Group object, CTRL+X or [Delete]

Below the Fields is a check box for Interactivity as well as displays of Position, Size and Rotation

• **Interactive** – toggles on or off. Objects set to not-interactive cannot be selected and will only display information.

CREATE AN ARRAY

You can create multiple of the same type of object quickly, using the Array tool.

Select the original Group object

Click on the Alignment tool, and then Create Array.

Leave as a Rectangle, drop down shows circle option as well

Change the number of columns to 2, rows to 5 and spacing to 15 on both

Click OK.

AUTO-NUMBER

On the Layout Toolbar, click on the Pointer

Click on the Quick Number Tool (paper with hand)

Target should be Group and Start = 2, Increment = 1

The first object should still be 1, so click on each of the other objects across the first row, and then the second row, to renumber the groups

Note that the pointer will display the target that will be assigned on the next click.

Don't forget to hit Done!

Back on Layout Toolbar, change back to Normal pointer (simple arrow)



to copy and paste

to remove





INSERTING CHANNEL OBJECTS

Click on the Fixtures Library tab

Select the Moving Wash – 4th down on left side, drop it on the workspace

Rotate it to face upstage

Make the target as 'Channel' and the target number as 101

On Field 1, Target ID, select Georgia as the Font and make the Font Size 25

You can also choose a color for the font. Be aware that some fields use system colors like Channel Intensity levels so those will override any colors that selected. There are also options for Bold, Italic or Underline.

On Field 2, Intensity, set the Justification (Checkerboard icon) to behind the fixture

Change font size to 25

Remove Field 3 data

Click on the Object Fill Color icon

Click on both 'Link to Target Color' and 'Link to Target Intensity'

With the fixture selected, copy and paste it 4 more times

Click on the Quick Number Tool (paper with hand)

Target should be Channel and Start = 102, Increment = 1

Renumber the 4 new fixtures and don't forget to hit Done!

Move an end fixture farther away from the rest

Select all 5 fixtures

Click on the Align tool

Align Middle and then Distribute Horizontally

{Quick Save}!!

FLIP

Add a Channel object, copy and paste it 3 more times

Move them into a horizontal line

Select all 4

In the array Menu, Flip is at the bottom

Flip the objects horizontally

Flip the objects vertically

Check "Always keep text upright"

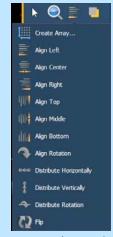
Flip the objects horizontally again

Delete the objects





to copy and paste (CTRL+C & CTRL+V)



to copy and paste (CTRL+C & CTRL+V)



INSERTING PALETTE OBJECTS

Click in the Images Library, then click on Import Image icon

Images can be imported into magic sheets for two different purposes: background images or as objects.

- **Gobo** a direct link to the console gobo library, populates based on the fixtures patched in the show
- Accepted image formats: .bmp, .gif, .ico, .jpg, .pbm, .pgm, .png, .ppm, .svg, .svgz, .tga, .tiff, .xbm, and .xpm.
- The maximum image size allowed is 1920 x 1920

Select the [Gobos] folder, double click the HES Gobo Wheel 37 fracture

to add the gobo to the Image Library

Click on it and drop it in the Magic Sheet in the bottom left corner

Make the target 'Beam Palette' and target number is 5

BACKGROUND SETTINGS

• **Interactive** - toggles interactivity on or off for the entire magic sheet. If toggled on, all objects respect their per-object settings. If off, no objects will be interactive, regardless of their settings.

You can select Live and Blind backgrounds for magic sheets. To select the background to be used when editing, check the **{Use While Editing}** box.

- **Solid** use Red, Green and Blue to select a color or click on the small square next to 'Red' to open a color picker,
- **Gradient** select top and bottom colors and display will scale between the two colors
- **Image** click on the image icon to select a background image, set width, height and opacity, options for inverted or normal
 - Currently accepts image files: jpg, tif, bmp, png

Select Gradient in the pull-down menu

Choose a top color and a bottom color

LET'S ADD SOME OTHER OBJECTS

Select the Color Palette Object – 2nd down on the right – and add it to the Magic Sheet below the fixtures

Stretch it out a bit longer

Make Field 1 the Label and set font size to 20, and leave other fields empty

Under Color Fill, Link to Target Color

uses color of highest channel in Palette

Create a rectangle array of 7 columns, 1 row with 25px spacing

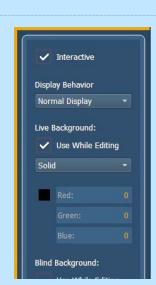
Select all 7 Color Palettes, then make the Field 1 text 20pt and black

Select a Square object, stretch it a bit, maybe rotate it

Target should be Focus Palette and Target number is 1

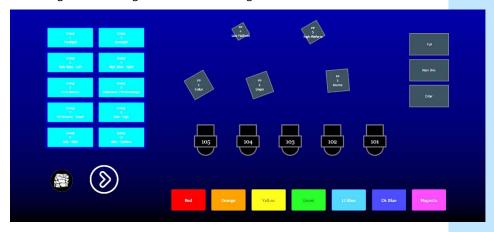
Fields should be Target Name, then Target ID and third the Label

Copy and paste 4 more times and arrange similar to stage focus areas



Remember the Direct Select icons we added to a couple of our Groups? We can display those in our Magic Sheets as well.	
Select all 10 Group rectangles.	
In Field 4, change it to Icon. Leave it centered. Close the Editor	to see the icons on Groups 3 and 4.
Reopen the editor. Font size on Field 4 adjusts the size of the Icon.	
Note that all the rectangles show the Icon symbol, but when we closed the Editor, we only see 2 icons – only two groups have icons assigned to them.	
Click in the Images Library , then click on Import Image icon	
Select the USB Thumb Drive, select arrow.png	puts gobo in the Image Library
Click and add it to the Magic Sheet next to the beam palettes	now will be saved in the show file
{Quick Save}!!	
Console Buttons	
Add a Square Object, make it a bit bigger	
In the Target drop down, towards the bottom, select 'Console Button'	
Drop down menu below Target says None. Find 'Full'	
Change Field 1 to Target Name	
Add 2 more console buttons: 'Rem Dim' and 'Enter'	use Ctrl-C and Crtl-V again
How it works in Live	
Close the Editor	now in Live
Notice all the labels are visible and the FOH lights are dark because they have no level. Also, the Color palettes automatically take the color that is stored in them	
Use the Magic Sheet now to do the following:	
Click on Group 5 (FOH Movers) Full Enter	to bring FOH Movers up
Click on the Color Palette objects - \[\text{Red} \] \[\text{Orange} \] \[\text{Lt. Blue} \]	changes color of fixtures – also notice channe objects are changing color
Click on Singer (FP2)	,
Roll down intensity wheel	channel objects slowly fade to black.
The magic sheet might look something like this:	

The magic sheet might look something like this:





MAGIC SHEET NAVIGATION

Multi-Touch Gestures

The following multi-touch gestures can be used with an external multi-touch touchscreen or the onboard monitors on other Eos family consoles.

- **Scroll** touch with two fingers to move around the page.
- **Zoom Out** touch with two fingers and then move your fingers toward each other.
- **Zoom In** touch with two fingers and then move your fingers away from each other.
- **Zoom to All** double tap with two fingers.
- Open Magic Sheet Browser tap with three fingers.

DISPLAY TOOLS

Right click or tap on the Magic Sheet tab

to see configuration settings

You can also click on the Gear tab for the same options.

- < Add View > for each magic sheet, multiple views may be created, then < and > allow for scrolling through the views.
- **Save Screenshot** saves a png image of magic sheet to a USB
- **Magic Sheet Browser** opens a filmstrip view of magic strips to scroll through.
- **Lock / Unlock** locks the magic sheet so it cannot be zoomed or panned. also hides the edit chevron (to edit must unlock)
- **Zoom to All** zooms to show all objects on magic sheet
- **Zoom to Selection** zooms to show all selected objects
- **Center to Selection** centers the display on the selected objects without changing the zoom
- Show Reference Labels labels displayed rather than target number
- **Limited Expand Mode -** also known as Full Screen Mode hides the edit chevron, but also suppresses the rest of the user interface.
 - Upper right corner 3 dots flashing console is operational
 - [Shift]&[Displays] take you back
 - Also, can {Disable Keyboard Input} and {Lock Fader Page}

Appendix 1 – Scroll Setup

Generic Scrolls (Channels 151 – 158)

1	Open Frame	
2	R10 – Medium Yellow	
3	R27 – Medium Red	
4	R339 – Broadway Pink	
5	R351 – Lavender Mist	
6	R359 – Medium Violet	
7	R370 – Italian Blue	
8	R38 – Light Rose	
9	R65 – Daylight Blue	
10	R85 – Deep Blue	
11	R90 – Dark Yellow Green	



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