

# digital address

## CONFIGURATION MANUAL

This manual includes system configuration instructions. Your *Digital Address* system was configured when it was installed. You will only need to reconfigure your system in the event that the system memory is corrupted. Be certain to fill in all the charts immediately and file the manual in a safe place. If you do reconfigure the system, this information will be important.

This manual is intended for service technicians who understand *Digital Address* rooms, stations, presets and channels. If your system is configured incorrectly, the control stations may not control lighting properly. If you are not familiar with the system, please consult ETC or an authorized service center. Refer to the *Digital Address System Maintenance Guide* for system overview and operation.

The following sections are included in this manual:

- Entering system configuration
- Entering dimmer-to-channel patch
- Appendix: Configuration charts

Once you have completed the configuration and patch procedures, refer to the *Digital Address System Maintenance Guide* for system maintenance procedures such as selecting security codes and lock modes for LCD stations, customizing system component names and recording presets.

## Entering system configuration

System configuration instructions appear on the following pages. Before you begin, complete the configuration charts in the *Appendix* or locate the charts that were completed at the time the system was installed. The configuration process is split into four parts:

- Reset channel, preset, station, and room names to their factory defaults
- Enter station information
- Enter room information
- Enter preset information

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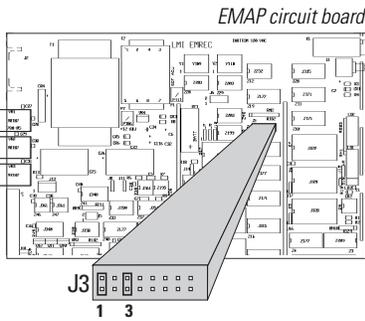
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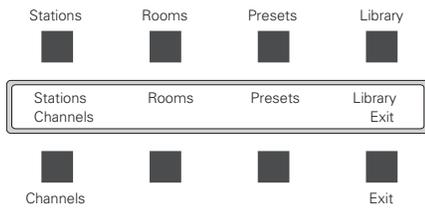
Complete all configuration screens in the order they appear on the following page. Then enter the dimmer-to-channel patch, as described on page 4.

**Note:** Each *Digital Address* system is custom designed. Some systems may include both *Analog Address* and *Digital Address* control stations. *Analog* stations are not included in the 16-station *Digital Address* limit. Consult your system drawings to determine if any *Analog Address* stations are included in your system; do not include *analog* stations in the *Digital Address Station Configuration Chart*.

## Reset all system defaults

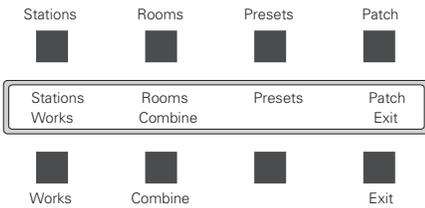


Default Screen

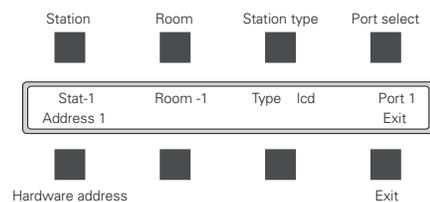


## Enter station configurations

Configuration Menu

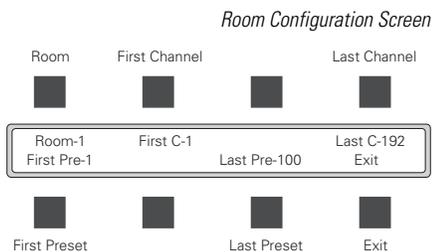


Station Configuration Screen



1. Complete the configuration charts included in the *Appendix* or locate the ones that were completed during system installation.
  2. Position jumpers on pins 1 and 3 at location J3 on the EMAP circuit board. The EMAP circuit board is located in or near the *Sensor* or *L86* dimmer rack. Pin 1 allows you to change configuration information; pin 3 forces all stations to display the Main menu.
  3. Press EMAP's Reset switch. All LCD stations display the Main menu.
  4. On any LCD station, press [Maintenance] to display the Maintenance menu.
  5. Press [Defaults]. LCD displays Default screen (see illustration).
  6. One at a time, press the keys on the Default screen labeled **Stations, Rooms, Presets, Library, Channels**. This resets all system component names to their factory defaults. Each default option requests that you press [Confirm] to verify that you want to change all names to their factory defaults.
  7. Press [Exit] to return to the Maintenance menu; press [Exit] again to return to the Main menu.
  8. Press [Configure] to display the Configuration menu.
  9. Press [Stations] to display Station Configuration screen (see illustration).
  10. Consult the station configuration chart that includes room, type and address information for each station (*Appendix*, page 6).
  11. **Stat-1** should be displayed in the top left station field. If not, press the station key, and use [▲] and [▼] until **Stat-1** appears.
  12. Press [Room]. Use [▲] and [▼] to select the room in which station 1 is located.
  13. Press [Station Type]. Use [▲] and [▼] to select the station type: **lcd** (LCD station), **pre4** (4-channel preset station), **pre8** (8-channel preset station), **pot1** (1-channel slider station), **pot4** (4-channel slider station with master slider), **pot15** (15-channel slider station with master slider), **entry** (entry station) or **work** (work station). Types may change depending on system configuration. See note on page 1 about *Analog Address* stations.
  14. If Port field does not display **Port 1**, press [Port], and use [▲] and [▼] until **Port 1** appears.
  15. Press [Hardware Address]. Use [▲] and [▼] to enter the station's hardware address. Sixteen addresses exist in the system: **0** through **9** and **A** through **F**. If your system does not include all 16 stations, set unused stations' addresses at **Station off**.
- Note: You can find each station's address on the rotary number switch on the small circuit board attached to the back of each station. Larger systems may contain multiple EMAPs, allowing duplicate station addresses. Call ETC Technical Services for help identifying addresses for such systems.*
16. Repeat steps 10 through 15 for all stations, then press [Exit].

## Enter room configurations

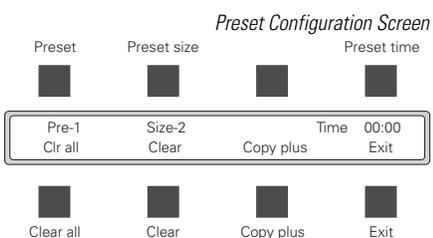


**Note:** The total number of channels and presets is limited by available memory. For example, if you assign 192 channels to a room, you would only be able to assign 84 presets. Or, if you assigned 255 presets to a room, you would only be able to assign 64 channels.

*Note: Channels and presets assigned to each room must be consecutively numbered. Each channel or preset may be assigned to only one room (although if rooms are combined, a channel assigned to an individual room is also assigned to the combined room). If you add a new channel or preset to an existing room, all subsequent channels or presets must be redone. For example, suppose room 1 is assigned presets 1 through 10 and room 2 is assigned presets 11 through 20. If you wish to add an additional preset to room 1, you must add preset 11, and then you must reassign presets 12 through 21 to room 2.*

17. Press [Rooms] to display the Room Configuration Screen (see illustration).
18. Consult Room Configuration Chart (*Appendix*, page 6) for each room's channel and preset information.
19. Press [Room], and use [▲] and [▼] to select room number.
20. Enter range of consecutive channel numbers for each room. A room can have up to 192 channels. Each channel can be assigned to only one room. To maximize system efficiency, do not leave gaps of unused numbers between ranges assigned to rooms.  
  
Press [First Channel], and use [▲] and [▼] to enter first channel assigned to the room. Then press [Last Channel], and use [▲] and [▼] to enter last channel assigned to the room. *Note: Enter **Room off** in First channel field for all unused rooms.*
21. Enter range of consecutive preset numbers for each room. A room can have up to 255 presets. Each preset can be assigned to only one room. To maximize system efficiency, do not leave gaps of unused numbers between ranges assigned to rooms.  
  
Press [First Preset], and use [▲] and [▼] to enter first preset assigned to the room. Then press [Last Preset], and use [▲] and [▼] to enter last preset assigned to the room.
22. Repeat steps 19 through 21 for each room.
23. Press [Exit] to return to Configuration Menu.

## Enter preset configuration



**Hint:** On the Preset Configuration Screen, [Clear] turns the selected preset off and sets its fade time to 00:00. [Copy plus] copies the displayed size and fade time to the next preset.

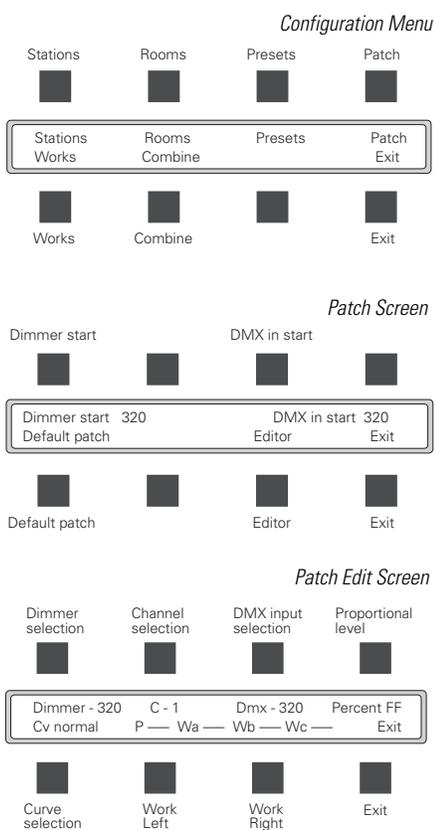
24. Press [Presets] to display Preset Configuration Screen (see illustration).
25. Consult Preset Configuration Chart (*Appendix*, page 7) for preset information.
26. Press [Clear All] to set all presets off and all channel levels to zero. The message **Work in progress, please wait** appears.
27. Press [Preset], and use [▲] and [▼] to select preset number.
28. Press [Preset Size], and use [▲] and [▼] to select preset size. Preset size equals the number of channels in the room to which the preset is assigned.  
*Note: Enter **Preset off** in Size field for all unused presets.*
29. Press [Preset Time]. Use [▲] and [▼] to select preset fade time. Fade time can be changed in preset mode from LCD stations. *Note: This step is optional.*
30. Repeat steps 27 through 29 for each preset.
31. Press [Exit] when done to return to the Configuration Menu. There may be a short delay while the system configuration is updated. During the delay, the message **Work in progress, please wait** appears.

# Entering dimmer-to-channel patch information

The LCD station Patch screen allows you to enter the following dimmer-to-channel patching information for each DMX512 output signal. A Dimmer-to-channel Patch Chart is included in the *Appendix*, (page 12).

- Channel** Assigns DMX512 output to a *Digital Address* channel.
- DMX512 input** Assigns DMX512 output to DMX512 input signal from a console.
- Patch level** Determines selected dimmer's proportional patch level.
- Dimmer curve** Selects an output curve for the selected dimmer.
- Works** Assigns dimmer to one of 127 works, if desired.

*Note: A DMX512 control console's signal may pass through the EMAP before going to dimmers, allowing both architectural and theatrical dimmers to be controlled by the LCD. The Patch screen's DMX512 Input option (see step 3, below) allows you to patch the console's dimmers to the desired architectural channels. The architectural channel assigned may be different from the console channel.*



Follow these steps to create or modify system's patch information:

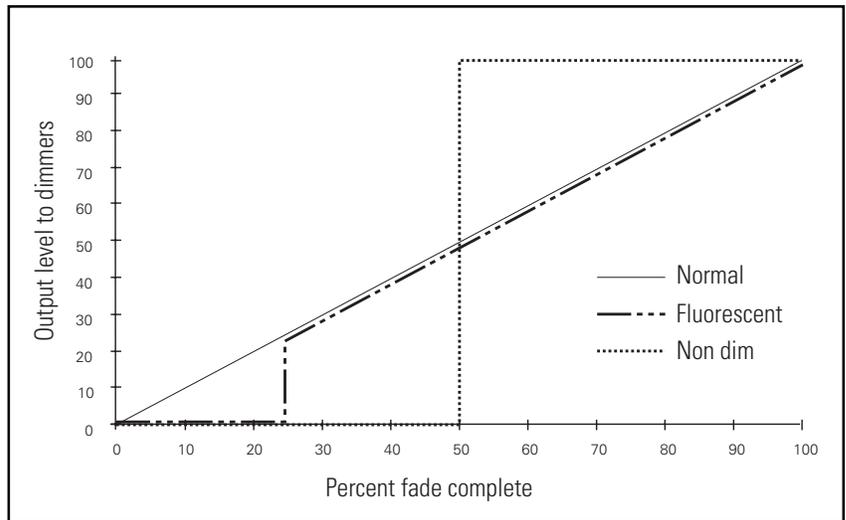
- From the Configuration Menu, Press [Patch], LCD displays Patch Screen. **Note:** To edit an existing patch, press [Editor] from the Patch Screen to display the Patch Edit Screen (see illustration) and skip to step 5.
  - Press [Dimmer start]. Use [▲] and [▼] to enter the dimmer you want to patch to channel 1. The next 191 consecutive dimmers will be patched to channels 2 through 192 once you complete step 4. If necessary, you can edit patch information through **Editor**.
  - Press [Dmx in start]. Use [▲] and [▼] to enter the DMX512 input number to which you want dimmer 1 patched. Dimmers 2 through 192 will be patched to the next 191 consecutive DMX512 inputs once you complete step 4. If necessary, you can edit patch information through **Editor**. If your system does not have a DMX512 input signal, set this field to **off**.
  - Press [Default patch]. At prompt screen, press [Confirm] to create patch as described above. Patch Edit screen is displayed. The 192 chosen dimmers are assigned the normal output curve, are patched at 100 percent and are not included in any panic or work light circuits. Channel and DMX512 inputs are turned off for unused dimmers.
- Note: To edit patch, follow steps 5 through 11 for desired dimmers. If you do not need to edit patch, skip to step 13.*
- Press [Dimmer Selection] (see illustration). Use [▲] and [▼] to scroll through dimmer numbers. You can enter patch information either live (changes are immediately reflected in dimmers) or blind (dimmers react to level and channel assignment changes only after pressing [Record]).

For *live* control of dimmers while making patch changes, verify that the green preset LED on [Preset/Channel] is illuminated; changes are recorded as you make them. To make patch changes *blind* (without affecting live dimmers) press [Preset/Channel], lighting the amber LED. The [Record] LED blinks, reminding you to press [Record] to save your changes.

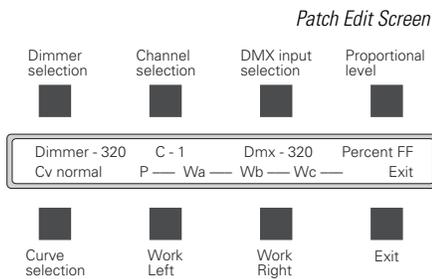
6. Press [Channel Selection] (see illustration). Use [▲] and [▼] to select channel to which to patch dimmer. If you do not want to patch the selected dimmer to any *Address* channels, set field to **Chan off**. If the dimmer is patched to both a channel and a DMX512 input, then the higher of the two settings determines the dimmer level.
7. Press [DMX Input Selection] (see illustration). Use [▲] and [▼] to select DMX512 input number to which to patch the selected dimmer. Or, select **DMX off** if you do not want to patch the dimmer to any DMX512 input.
8. Press [Proportional Level]. Use [▲] and [▼] to select dimmer's proportional patch level. Dimmer output is multiplied by this percentage. Enter **0** for unused dimmers; **ff** equals 100 percent.
9. Press [Curve selection] (see illustration). Use [▲] and [▼] to select a dimmer output curve (see illustration below). The curve you select determines the dimmer's output intensity curve.

*Hint: To assign a number of dimmers to a single channel, enter patch in blind (with [Record] LED blinking). Select the channel to which you want to assign dimmers, select a dimmer number, enter desired information in remaining fields, and press [Record]. Enter next dimmer number and press [Record] again. Repeat until you have entered all the dimmers you want assigned to that channel.*

*Hint: To assign identical patch information to a set of sequentially numbered dimmers (for example, if you want to assign all unused dimmers to a channel, and turn that channel off) press [Preset/channel] to enter blind, and enter desired information in all fields. Then select first dimmer in set. Press and hold [Record]. Dimmer numbers scroll through dimmer selection field. Patch information is recorded to each dimmer as it is displayed.*



*Dimmer output curves*



10. Press [Work left] or [Work right]. Each dimmer can be assigned to up to three of 127 works, or if you do not want the dimmer included in any work or panic light circuits, select ---. Use [▲] and [▼] to select work light circuit. You may assign up to four switches, three works and one panic, to one dimmer. Contact ETC Technical Services for more information about works.

*Note: The **P** (panic) field in the Patch Edit screen shows full output (it ignores the proportional level setting). The **W** (work) **a**, **b** and **c** fields show proportional outputs, based on the proportional patch level set in step 8.*

11. If you are working in blind, press [Record]. When you are patching dimmers live, you do not need to press [Record].
12. Repeat steps 5 through 12 for remaining dimmers.
13. Remove jumper from pin 3 on EMAP circuit board. If you want to disable the Configuration screen, remove jumper from pin 1. Press [Exit] until you return to preset mode. See *Digital Address System Maintenance Guide* for instructions on recording presets.

*Note: Once pin 3 is removed, you must know the correct lock code to return to the Main menu from preset mode. To display stations' lock codes, press [Maintenance] from the Main menu. Then press [Lock]. Lock Screen displays lock codes. See the System Maintenance Guide for more information about lock codes.*

# Appendix:

## Configuration charts

### Station configuration chart

Station	Room	Type	Address	Name
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

#### Room

Enter room number in which station is located (1 through 16).

#### Type

Enter one of the following to identify station type: LCD, 4-channel preset, 8-channel preset, 4-channel slider, 8-channel slider, 15-channel slider, entry, or work light.

#### Address

Enter station address (0 through 9 or A through F). Addresses are determined by rotary switch located on the back of station circuit board. Enter **Off** for all unused stations.

#### Name

Custom names may be entered through the Names option on the Maintenance Menu. See the *System Maintenance Guide* for naming instructions. Custom names may have up to eight letters.

### Room configuration chart

Room	First channel	Last channel	First preset	Last preset	Name
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

#### First and last channel numbers

Enter range of consecutive channel numbers for each room (1 through 192). A total of 192 channels are available; each channel can be assigned to only one room. Any room can have up to 192 channels. To maximize system efficiency, do not leave gaps of unused channel numbers between ranges assigned to rooms. For unused rooms, enter **Off** in first channel field.

#### First and last preset numbers

Enter range of consecutive preset numbers for each room (1 through 255). A total of 255 presets are available; each preset can be assigned to only one room. Any room can have up to 255 presets. To maximize system efficiency, do not leave gaps of unused preset numbers between ranges assigned to rooms.

#### Name

Custom names may be entered through the Names option on the Maintenance Menu. See the *System Maintenance Guide* for naming instructions. Custom names may have up to eight letters.

**Preset configuration chart (presets 1 - 48)**

Preset no.	Size	Time	Name
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

**Size**

Preset size equals the number of channels assigned to the room in which the preset is located. For unused presets, enter **Preset off** for size.

**Time**

Time is the preset's upfade and downfade time when you select the preset from an LCD or preset station. Preset fade time can be changed on the Preset Configuration Screen and on the last page of channels in Channel mode.

**Name**

Custom names may be entered through the Names option on the Maintenance Menu. See the *System Maintenance Guide* for naming instructions. Custom names may have up to eight letters.

Preset no.	Size	Time	Name
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			

*Preset configuration chart (presets 49 - 112)*

Preset no.	Size	Time	Name
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			

Preset no.	Size	Time	Name
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			
101			
102			
103			
104			
105			
106			
107			
108			
109			
110			
111			
112			

*Preset configuration chart (presets 113 - 176)*

Preset no.	Size	Time	Name
113			
114			
115			
116			
117			
118			
119			
120			
121			
122			
123			
124			
125			
126			
127			
128			
129			
130			
131			
132			
133			
134			
135			
136			
137			
138			
139			
140			
141			
142			
143			
144			

Preset no.	Size	Time	Name
145			
146			
147			
148			
149			
150			
151			
152			
153			
154			
155			
156			
157			
158			
159			
160			
161			
162			
163			
164			
165			
166			
167			
168			
169			
170			
171			
172			
173			
174			
175			
176			

*Preset configuration chart (presets 177 - 240)*

Preset no.	Size	Time	Name
177			
178			
179			
180			
181			
182			
183			
184			
185			
186			
187			
188			
189			
190			
191			
192			
193			
194			
195			
196			
197			
198			
199			
200			
201			
202			
203			
204			
205			
206			
207			
208			

Preset no.	Size	Time	Name
209			
210			
211			
212			
213			
214			
215			
216			
217			
218			
219			
220			
221			
222			
223			
224			
225			
226			
227			
228			
229			
230			
231			
232			
233			
234			
235			
236			
237			
238			
239			
240			

**Preset configuration chart (presets 241 - 255)**

Preset no.	Size	Time	Name
241			
242			
243			
244			
245			
246			
247			
248			
249			
250			
251			
252			
253			
254			
255			

**Notes:**

## Dimmer-to-channel patch chart (dimmers 1 - 48)

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

### Channel number

Digital Address channel number patched to DMX512 dimmer output. Enter a number from **1** to **192**, or **Chn off**.

### DMX input

DMX512 input number patched to DMX512 dimmer output. Enter a number from **1** to **512** or **DMX off**. Each DMX512 input can be patched to only one channel.

### Panic

Enter work light number for dimmers you want to use as panics. Enter number (**1-127**) to include dimmer in system works or --- to exclude dimmer from system works.

### Curve

Enter **normal**, **flrcnt**, or **nondim** to select dimmer output curve. See page 5 for curve graphs.

### Percent

Enter a percent from **0** to **ff** to indicate dimmer output patch level. Enter **0** for unused dimmers.

### Work

Enter work light number in which dimmer is included. Enter number (**1** to **127**), or --- if dimmer is not included in any work light circuits. Each dimmer can be assigned to up to three work light circuits.

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						

*Dimmer-to-channel patch chart (dimmers 49 - 112)*

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
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68						
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71						
72						
73						
74						
75						
76						
77						
78						
79						
80						

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
81						
82						
83						
84						
85						
86						
87						
88						
89						
90						
91						
92						
93						
94						
95						
96						
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100						
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102						
103						
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105						
106						
107						
108						
109						
110						
111						
112						

*Dimmer-to-channel patch chart (dimmers 113 - 176)*

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
113						
114						
115						
116						
117						
118						
119						
120						
121						
122						
123						
124						
125						
126						
127						
128						
129						
130						
131						
132						
133						
134						
135						
136						
137						
138						
139						
140						
141						
142						
143						
144						

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
145						
146						
147						
148						
149						
150						
151						
152						
153						
154						
155						
156						
157						
158						
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163						
164						
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167						
168						
169						
170						
171						
172						
173						
174						
175						
176						

*Dimmer-to-channel patch chart (dimmers 177 - 240)*

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
177						
178						
179						
180						
181						
182						
183						
184						
185						
186						
187						
188						
189						
190						
191						
192						
193						
194						
195						
196						
197						
198						
199						
200						
201						
202						
203						
204						
205						
206						
207						
208						

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
209						
210						
211						
212						
213						
214						
215						
216						
217						
218						
219						
220						
221						
222						
223						
224						
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227						
228						
229						
230						
231						
232						
233						
234						
235						
236						
237						
238						
239						
240						

*Dimmer-to-channel patch chart (dimmers 241 - 304)*

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
241						
242						
243						
244						
245						
246						
247						
248						
249						
250						
251						
252						
253						
254						
255						
256						
257						
258						
259						
260						
261						
262						
263						
264						
265						
266						
267						
268						
269						
270						
271						
272						

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
273						
274						
275						
276						
277						
278						
279						
280						
281						
282						
283						
284						
285						
286						
287						
288						
289						
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291						
292						
293						
294						
295						
296						
297						
298						
299						
300						
301						
302						
303						
304						

*Dimmer-to-channel patch chart (dimmers 305 - 369)*

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
305						
306						
307						
308						
309						
310						
311						
312						
313						
314						
315						
316						
317						
318						
319						
320						
321						
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323						
324						
325						
326						
327						
328						
329						
330						
331						
332						
333						
334						
335						
336						

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
337						
338						
339						
340						
341						
342						
343						
344						
345						
346						
347						
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349						
350						
351						
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361						
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363						
364						
365						
366						
367						
368						

*Dimmer-to-channel patch chart (dimmers 369 - 432)*

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
369						
370						
371						
372						
373						
374						
375						
376						
377						
378						
379						
380						
381						
382						
383						
384						
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391						
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396						
397						
398						
399						
400						

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
401						
402						
403						
404						
405						
406						
407						
408						
409						
410						
411						
412						
413						
414						
415						
416						
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421						
422						
423						
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425						
426						
427						
428						
429						
430						
431						
432						

*Dimmer-to-channel patch chart (dimmers 433 - 496)*

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
433						
434						
435						
436						
437						
438						
439						
440						
441						
442						
443						
444						
445						
446						
447						
448						
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460						
461						
462						
463						
464						

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
465						
466						
467						
468						
469						
470						
471						
472						
473						
474						
475						
476						
477						
478						
479						
480						
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484						
485						
486						
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488						
489						
490						
491						
492						
493						
494						
495						
496						

*Dimmer-to-channel patch chart (dimmers 497 - 512)*

Dimmer no.	Channel no.	DMX input	Panic	Curve	Percent	Work
497						
498						
499						
500						
501						
502						
503						
504						
505						
506						
507						
508						
509						
510						
511						
512						

*Notes:*

*Channel names chart (channels 1 - 96)*

Channel no.	Room	Name
1		
2		
3		
4		
5		
6		
7		
8		
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10		
11		
12		
13		
14		
15		
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32		

Channel no.	Room	Name
33		
34		
35		
36		
37		
38		
39		
40		
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43		
44		
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48		
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64		

Channel no.	Room	Name
65		
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95		
96		

**Channel names chart (channels 97 - 192)**

Channel no.	Room	Name
97		
98		
99		
100		
101		
102		
103		
104		
105		
106		
107		
108		
109		
110		
111		
112		
113		
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115		
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121		
122		
123		
124		
125		
126		
127		
128		

Channel no.	Room	Name
129		
130		
131		
132		
133		
134		
135		
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Channel no.	Room	Name
161		
162		
163		
164		
165		
166		
167		
168		
169		
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171		
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192		

*Notes:*



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