

Command Reference

This chapter is organized alphabetically by menu name, and gives details on how to select and program all of the Digital Environ programmable features using the cabinet keypad and display.

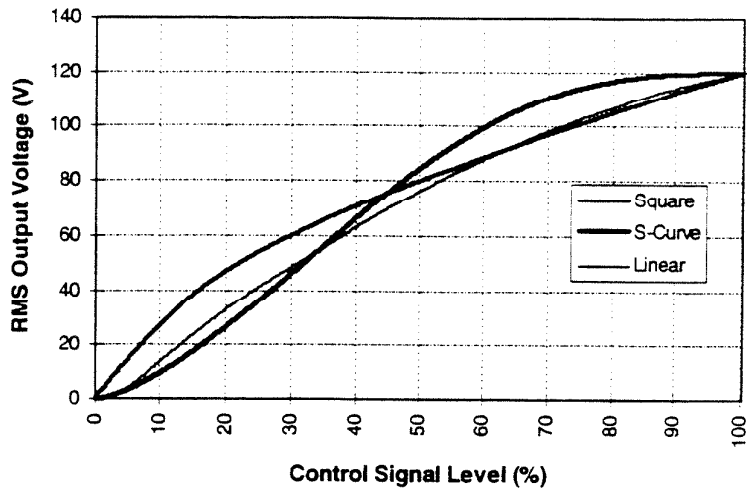
- Curve Menu 54
- Input Menu 57
- Non-Dim Menu..... 58
- Patch Menu..... 59
- Preset Menu (Outlook) 64
- Preset Menu (SWC)..... 73
- Response Menu 79
- Set Level Menu 80
- *Set Menu 82
- *Service Menu 87
- User Messages 87

Curve Menu

There are 3 incandescent and 2 fluorescent dimming curves which you can assign to Digital Environ dimmers for compatibility with other dimmers or specific application requirements. The factory default is SQUARE.

Set Incandescent Dimmer Curves

The following graphs illustrate the relationship between input signal and output voltages for the different incandescent curves. In general, you can use SQUARE for T.V. requirements, LINEAR for theatre use, and S-CURVE for architectural installations or when you need to match older dimmers.



**Figure 20. Incandescent Dimming Curves
(with 120V nominal supply)**

Separate dimming curves are supplied for use with magnetic or incandescent fluorescent fixtures. You should set these correctly for best results from your installed fixtures.

To set all dimmers to "Linear", follow the steps below.

Action	Result
	Rack No.: 01
CURVE	Curve: All
▶	Curve: All = Square
CANCEL	Curve: All = Linear
EXIT	*Please Confirm*
+ CONFIRM	Curve: All
EXIT	Rack No.: 01

To set one dimmer to "S-Curve", follow the steps below.

Action	Result
	Rack No. : 01
CURVE	Curve: All ▶
+ CONFIRM	Curve: <u>D</u> immer ▶
▶	Curve: 01 = <u>L</u> inear
+ CONFIRM 4 times	Curve: 05 = <u>L</u> inear
▶	Curve: 05 = <u>L</u> inear
- CANCEL	Curve: 05 = <u>S</u> -Curve
EXIT EXIT	Rack No. : 01

Set Fluorescent Dimmer Curves

The Digital Environ cabinet supports both magnetic and electronic (phase controlled) fluorescent ballasts. For optimum performance you should set the appropriate fluorescent curve for each of your fluorescent dimmers.

For magnetic ballasts using the standard Digital Environ fluorescent power modules this setting is not necessary if the fluorescent curve was set in the power module when your system was installed. Consult Strand Lighting Field Service if you have questions about how this setting should be used in your system.

Fluorescent lamps operate best when the dimmer response is set to "Slow" (see page 79 for setting dimmer response).

For additional information on Fluorescent Dimming refer to the Strand Lighting fact sheet *A Guide to Fluorescent Dimming*.

To set all dimmers to "Magnetic", follow the steps below.

Action	Result
	Rack No.:01
CURVE	Curve:All ▶
▶	C:All=Linear
- CANCEL	C:All=Fluo Mag ▶
▶	All:M:T120V C80V
▶ 3 times	All:M:T120V C40V
- CANCEL	All:M:T120V C30V
▶	All:M:T120V C30V
+ CONFIRM 5 times	All:M:T120V C35V
EXIT	*Please Confirm*
+ CONFIRM	C:All=Fluo Mag ▶
EXIT	*Please Confirm*
+ CONFIRM	Curve:All
EXIT	Rack No.:01

To set one dimmer to "Electronic" with a maximum output voltage of 120V and a low end cutoff of 40V, follow the steps below. For an explanation of how and why these settings are required, refer to the Strand Lighting Fact Sheet *A Guide to Fluorescent Dimming*.

Action	Result
	Rack No. :01
CURVE	Curve:All ▶
+ CONFIRM	Curve:Dimmer ▶
▶	C:01=Fluo Mag ▶
+ CONFIRM 4 times	C:05=Fluo Mag ▶
▶	C:05=Fluo Mag ▶
- CANCEL	C:05=Fluo Elec ▶
▶	D05:E:T120V C35V
▶ 4 times	F05:E:T120V C35V
+ CONFIRM ▶	F05:E:T120V C45V
- CANCEL 5 times	F05:E:T120V C40V
EXIT	C:01=Fluo Mag ▶
EXIT EXIT	Rack No. :01

Input Menu

The Mux input protocol is fixed at DMX512 in Digital Environ systems. This menu only shows you whether or not you have the second multiplex input (Mux B) installed.

Non-Dim Menu

The *Non-Dim* menu lets you assign "Non-Dims." Non-Dims remain at ZERO when the controller is below the set threshold percentage, and at FULL when the controller is above the threshold.

The example below sets dimmer 5 to Non-Dim with a threshold of 50% and dimmer 6 to Non-Dim with a threshold of 90%.

Action	Result
	Rack No. :01
NON-DIM	Non Dim:01=DIM
+ CONFIRM 4 times	Non Dim:05=DIM
▶	Non Dim:05=DIM
+ CONFIRM (hold until 50%)	Non Dim:05=50%
◀	Non Dim:05=50%
+ CONFIRM	Non Dim:06=DIM
▶	Non Dim:06=DIM
+ CONFIRM (hold until 90%)	Non Dim:06=90%
EXIT	Rack No. :01

Patch Menu

The PATCH function lets you allocate dimmer numbering according to your own requirements.

- The **Outlook:Patch** option lets you assign each dimmer to a channel in a room.
- The **Mux: Start** option lets you patch all dimmers in the cabinet sequentially after the specified *Start Number*.
- The **Mux:Dimmer** option lets you assign each dimmer to a specified multiplex number.
- The **Mux:Circuit ID** option allows you to assign your own dimmer numbers or names independently of the *Start Number* or *Dimmer patch*. It is important only for use with the System Wide Controller or with SV90 software. The facility allows you to use your desk's channel numbering scheme, or even a geographic numbering scheme, (e.g. 100, 101, 102... 110, 111, 112 etc. when remotely controlling dimmers in a complete system.

All of the Mux functions are duplicated in MuxB if you have the second Mux input card installed.

Set the Outlook Patch If you are using Outlook (or compatible) controllers you can patch dimmers to specific channels in specific rooms. To set dimmer 2 in rack 1 to channel 1 in room 2, follow the steps below.

		Action	Result
			Rack No.:01
PATCH		Outlook:Patch ▶	
▶		DIM:01=Rm01, Ch01	
+ CONFIRM		DIM:02=Rm01, Ch01	
▶		DIM:02=Rm01, Ch01	
+ CONFIRM		DIM:02=Rm02, Ch02	
▶	- CANCEL	DIM:02=Rm02, Ch01	
EXIT	EXIT	Rack No.:01	

Set Start Mux Number

In order to assure that all controls operate separate dimmers, multiple cabinet installations require that each cabinet is uniquely numbered and dimmers assigned accordingly. Even in single cabinet systems you may wish to have the numbering for your Digital Environ cabinet start at some number other than "1," particularly if the cabinet is being used as houselights and you wish to control them from a stage lighting console.

In most systems, dimmers are numbered consecutively through the dimmer cabinets. The first dimmer in a cabinet is set to one number higher than the last dimmer in the previous cabinet. The following example assumes that the first cabinet has 24 dimmers controlled by 24 consecutive Mux signals, and sets the first Mux signal for the second cabinet to 25.

Action	Result
	Rack No.:02
PATCH	Outlook:Patch ▶
+ CONFIRM	Mux:Start No ▶
▶	MuxA:Start=0001▶
▶ 3 times	MuxA:Start=0001▶
+ CONFIRM	MuxA:Start=0021▶
▶	MuxA:Start=0021▶
+ CONFIRM 4 times	MuxA:Start=0025▶
EXIT	*Please Conf Irn*
+ CONFIRM	Outlook:Patch ▶
EXIT	Rack No.:02

The Mux address will change as the dimmer number is changed showing the address that the dimmer is patched to. Remember that any changes to the patch will be seen on the lighting output immediately.

Patch Multiple Dimmers on a Mux Signal

You can patch more than one dimmer to be controlled by one Mux signal if required. This lets you group various sets of lights if required. the following example patches dimmers 1 and 2 to Mux signal 100. Unless you patch some other dimmer to Mux signals 1 and 2, neither of these signals will control any dimmers.



When using the D54 protocol, you must set the Mux: Start Number to the lowest Mux address that you want to patch any dimmer to. When using the Mux:Patch facility, the software will not let you set any dimmer to an address more than 52 higher than this number.

Action	Result
	Rack No. :01
PATCH	Outlook:Patch ▶
+ CONFIRM	+ CONFIRM Mux:Dim. Patch ▶
▶	MuxA:Dim 01=0001
▶	MuxA:Dim 01=0001
▶	MuxA:Dim 01=0001
+ CONFIRM	+ CONFIRM MuxA:Dim 01=0101
▶	▶ MuxA:Dim 01=0101
- CANCEL	- CANCEL MuxA:Dim 01=0100
◀ 4 times	MuxA:Dim 01=0100
+ CONFIRM	+ CONFIRM MuxA:Dim 02=0002
▶	▶ MuxA:Dim 02=0002
+ CONFIRM	+ CONFIRM MuxA:Dim 02=0102
▶	▶ MuxA:Dim 02=0102
- CANCEL	- CANCEL MuxA:Dim 02=0100
EXIT	EXIT Rack No. :01

Set Circuit ID The Circuit ID feature on Digital Environ lets you give dimmers 5-character identification names or numbers. Giving dimmers Circuit ID's will prove useful when Digital Environ is used with the optional System Wide Controller or a PC running SV90 software. Both of these optional control methods will let you control large numbers of dimmers easily and remotely.



If you are using the System Wide Controller you are limited to 4 digit numbers for the circuit designation.

Action	Result
	Rack No.:01
PATCH	Outlook:Patch ▶
+ CONFIRM + CONFIRM + CONFIRM	Max:Circuit ID ▶
▶	Dim:01Circ=1
+ CONFIRM 4 times	Dim:05Circ=5
▶ + CONFIRM (hold until "S")	Dim:05Circ=S
▶ + CONFIRM (hold until "P")	Dim:05Circ=SP
▶ + CONFIRM (hold until "O")	Dim:05Circ=SP0
▶ + CONFIRM (hold until "T")	Dim:05Circ=SP0T
▶ + CONFIRM (hold until "1")	Dim:05Circ=SP0T1
EXIT EXIT	Rack No.:01

The Circuit ID feature can often let you control Digital Environ dimmers from multiple sources, even if those sources do not call the dimmers by the same numbers.

In the following example, a 24 dimmer Digital Environ cabinet is being added to an existing installation with 512 dimmers. The total number of dimmers (536) exceeds the capacity of a DMX512 link. The control console's second Mux output must be used, driving dimmers 513-1024. However, there is no implicit number carried in the Mux signal to tell the new dimmer cabinet that it is receiving signals 513-1024. To the Digital Environ cabinet this signal appears as 1-512 again.

If you set the Circuit ID's for dimmers 1-24 to 513-536 and the Mux Start number to 1, the dimmers can be controlled by the main control console as 1-24 and from the SWC Hand Held Controller or the Digital Environ front panel as circuits 513-536.

Action	Result
	Rack No.:01
PATCH	Outlook:Patch ▶
+ CONFIRM + CONFIRM + CONFIRM	Mux:Circuit ID ▶
▶	Dim:01Circ=1
▶	Dim:01Circ=1
+ CONFIRM (hold until "3")	Dim:01Circ=3
▶ + CONFIRM (hold until "8")	Dim:01Circ=38
▶ + CONFIRM (hold until "5")	Dim:01Circ=385
◀ 3 times	Dim:01Circ=385
+ CONFIRM	Dim:02Circ=2

Repeat assigning a new name to each dimmer in the cabinet. Once you are done with all dimmers, press **EXIT** **EXIT** to get back to the default screen.

Preset Menu (Outlook)

There are 8 user programmable Outlook presets per room (1-8). Preset 0 is a non-recordable blackout state, preset 9 is all dimmers full ON, and MAN is the current slider settings being received from an active Outlook control station. When you record a preset, you record the actual dimmer levels as they appear in your room. If you are using the SWC Hand Held Controller, please see under *Preset Menu (SWC)*. Outlook presets and SWC presets are completely separated, and separately controlled, even though they can control the same dimmers.

Any of the Outlook presets may be "viewed" and added to the dimmer output in a 'Highest Takes Precedence' (HTP) manner from the cabinet keypad, or, remotely from an Outlook control station. When you select an Outlook preset, it will crossfade from any previously selected outlook preset (or from a blackout) in the programmed fade time.



Since Preset View operates on a Highest Takes Precedence (HTP) basis with other control inputs (e.g. from a lighting desk), if an SWC preset has been left 'on view' it will not be possible to subsequently fade down the dimmers from the other control locations. To avoid problems, always turn the preset OFF after use.

Record an Outlook Preset

You can record the composite dimmer output to an Outlook preset or to an SWC preset. You can save completely different information in the two sets of presets if you wish. Outlook control stations are limited to 8 presets per room.

1. Set up the desired lighting state first using any control means.
2. Follow the procedure as shown.
3. Repeat for any other presets that are required.

To record the current dimmer output to Outlook preset 2 in room 2, follow the steps below:

Action	Result
	Rack No. :01
PRESET	Outlook Presets▶
▶	Preset View ▶
+ CONFIRM	Preset Rec. ▶
▶	Rec:Rm01 Pre01
+ CONFIRM	Rec:Rm02 Pre01
▶	Rec:Rm02 Pre01
+ CONFIRM	Rec:Rm02 Pre02
EXIT	*Please Confirm*
+ CONFIRM	Preset View ▶
EXIT	Rack No. :01

View an Outlook Preset You can activate the dimmer levels of any Outlook preset by "viewing" the preset.

Don't forget--Preset View changes the lighting levels by activating the preset. It is not a "blind" viewing facility.

To activate Outlook preset 2 in room 2, follow the steps below:

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
▶	Preset View ▶
▶	Rec:Rm01 Pre01
+ CONFIRM	Rec:Rm02 Pre01
▶	Rec:Rm02 Pre01
+ CONFIRM	Rec:Rm02 Pre02
EXIT EXIT	Rack No.:01

To turn off Outlook presets in room 2, follow the steps below:

Action	Result
	Rack No.:01
PRESET	OutLook Presets▶
▶	Preset View ▶
▶	Rec:Rm02 Pre02
▶	Rec:Rm02 Pre02
- CANCEL CANCEL	Rec:Rm02 Pre00
EXIT 3 times	Rack No.:01

Set Preset Fade Times You can set the fade time (up to 10 minutes) for all Outlook presets in all rooms, for all presets in a specified room, or for one preset at a time.

To set the fade time for all presets in all rooms to 8 seconds, follow the steps below.

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
▶	Preset <u>V</u> iew ▶
+ CONFIRM 3 times	Preset <u>T</u> ime ▶
▶	Time : <u>P</u> reset ▶
- CANCEL	Time : <u>A</u> ll Room▶
▶	Time:All= <u>0</u> 0:05
▶ 3 times	Time:All= <u>0</u> 0:05
+ CONFIRM 3 times	Time:All= <u>0</u> 0:08
EXIT	*Please Confirm*
+ CONFIRM	Time : <u>P</u> reset ▶
EXIT 3 times	Rack No.:01

To set the fade time for all presets in room 1 to 4 seconds, follow the steps below.

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
▶	Preset View ▶
+ CONFIRM 3 times	Preset Time ▶
▶	Time : Preset ▶
+ CONFIRM + CONFIRM	Time : Room ▶
▶	Room:01=00:05
▶ 4 times	Room:01=00:05
- CANCEL	Time:All=00:04
EXIT	*Please Confirm*
+ CONFIRM	Time : Preset
EXIT 3 times	Rack No.:01

To set the fade time for preset 2 in room 1 to 1 second, follow the steps below.

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
▶	Preset <u>V</u> iew ▶
+ CONFIRM 3 times	Preset <u>T</u> ime ▶
▶	Time : <u>P</u> reset ▶
▶	Rm01:Pre01=00:04
▶ 5 times	Rm01:Pre01=00:04
- CANCEL 3 times	Rm01:Pre01=00:0 <u>1</u>
EXIT	Time : <u>P</u> reset
EXIT 3 times	Rack No.:01

Set Manual Fade Times

Manual fade time is set per room. The default for this parameter is ZERO seconds. With a ZERO time set, when you press "Manual" on an Outlook slider station the lighting instantly fades from the current level to the levels set on the sliders. If a manual fade time is programmed, the channels fade from their current levels to the slider levels in the programmed time.

Setting the fade times for all presets in all rooms or all presets in one room will not change the manual fade time. If you move a slider while a manual fade is in progress the lighting levels will instantly conform to the current slider levels.

To set the manual fade time for room 3 to 4 seconds, follow the steps below.

Action	Result
	Rack No. :01
PRESET	Outlook Presets▶
▶	Preset View ▶
+ CONFIRM 3 times	Preset Time ▶
▶	Time : Preset ▶
+ CONFIRM	Time : Manual ▶
▶	Room:01=00:00
+ CONFIRM + CONFIRM	Room:03=00:00
▶ 4 times	Room:03=00:00
+ CONFIRM 3 times	Room:03=00:03
EXIT	Time : Preset ▶
EXIT 3 times	Rack No. :01

Set the Power Up Preset You can select an Outlook preset that will always appear when the system is powered up (e.g., after a power failure). The default preset is ZERO, which sets the entire system to a blackout on power-up.

To assign preset 5 as the Power Up preset, follow the steps below.

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
▶	Preset View▶▶
- CANCEL	Power Up Preset▶
▶	Power up to 00
+ CONFIRM 5 times	Power up to 05
EXIT 3 times	Rack No.:01

Set Channel Levels This function lets you test individual dimmers and loads directly from the keypad by selecting their room & channel number, regardless of the signals being received from inputs.



Since this overrides the control inputs, including the Presets, it is possible to completely disable any or all of the dimmers. This is not a safety switch off mechanism however. It is easy to forget to set the dimmers back to INPUT, giving rise to unexpected lack of control.

Normally this control is set to All=Input, which lets the Mux input, analog inputs, and presets control the dimmer levels. Minimum Dimmer Level and Maximum Voltage set in the *SET menu take overall precedence over settings made in this menu. This control is reset to All=Input whenever the cabinet is powered up.

This control may also be used to control dimmers recording into SWC and Outlook presets in architectural situations where there is no conventional lighting control system available.

To set room 2 channel 4 to 50%, follow the steps below.

Action	Result
	Rack No. :01
PRESET	Outlook Presets▶
▶	Preset View ▶
+ CONFIRM	Channel Levels ▶
▶	Rm02Chan01=Input
▶	Rm02Chan01=Input
+ CONFIRM 3 times	Rm02Chan04=Input
+ CONFIRM	Rm02Chan04=Input
+ CONFIRM (hold until "50%")	Rm02Chan04=50%
EXT 3 times	Rack No. :01

Preset Menu (SWC)

There are 99 user programmable SWC presets per system. Preset 0 is a non-recordable blackout state. When you record a preset, you record the actual dimmer levels as they appear on stage or in your rooms. If you are using Outlook controllers, please see under *Preset Menu (Outlook)*. Outlook presets and SWC presets are completely separated, and separately controlled, even though they can control the same dimmers.

Any SWC preset can be "viewed" and added to the dimmer output in a Highest Takes Precedence (HTP) manner from the cabinet keypad, or, remotely from the SWC Hand Held Controller or from a PC running SV90 software. When you select an SWC preset, the system crossfades from any previously selected SWC preset (or from a blackout).



Since Preset View operates on a Highest Takes Precedence (HTP) basis with other control inputs (e.g. from a lighting desk), if an SWC preset has been left 'on view' it will not be possible to subsequently fade down the dimmers from the other control locations. To avoid problems, always turn the preset OFF after use.

Record an SWC Preset To record the composite dimmer output to SWC Preset 3, follow the steps below.

1. Set up the desired lighting state first using any control means.
2. Follow the procedure as shown.
3. Repeat for any other presets that are required.

To record the current dimmer output to SWC preset 3, follow the steps below:

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
+ CONFIRM	SWC Presets ▶
▶	Preset <u>V</u> iew ▶
+ CONFIRM	Preset <u>R</u> ec. ▶
▶	Preset Rec.: 01
+ CONFIRM	Preset Rec.: 03
EXIT	*Please Confirm*
+ CONFIRM	Preset <u>V</u> iew ▶
EXIT	Rack No.:01

View an SWC Preset You can activate the dimmer levels of any SWC preset by "viewing" the preset.

Don't forget--Preset View changes the lighting levels by activating the preset. It is not a "blind" viewing facility.

To activate SWC preset 3, follow the steps below:

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
+ CONFIRM	SWC Presets ▶
▶	Preset View ▶
▶	Preset View: Off
+ CONFIRM 3 times	Preset View: 03
EXIT 3 times	Rack No.:01

To turn off SWC presets, follow the steps below:

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
+ CONFIRM	SWC Presets▶
▶	Preset View ▶
▶	Preset View: 03
- CANCEL 3 times	Preset View: Off
EXIT 3 times	Rack No.:01

Set the NoMux Preset The NoMux preset is the preset the system will fade to if you lose the Mux signal. What happens to the dimmers if the Mux signal is lost depends on the NoMux setting.

- 0** System fades to black on loss of Mux signal.
- 1-99** System fades to selected preset on loss of Mux signal.
- Hld** System holds current levels on loss of Mux signal.

The default setting is NoMux=0. NoMux=Hld is a useful safety feature in live performance situations.



Setting NoMux to HOLD may cause problems if the dimmers are left on after the control desk is turned off. Many desks produce unwanted signals as the power fails, and once the desk is turned off, the dimmers are susceptible to noise pickup on the Mux Input. This can leave the dimmers unexpectedly ON. If you set NoMux to HOLD, make sure unattended dimmers are turned off.

To assign preset 5 as the 'backup 'state, follow the steps below.

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
+ CONFIRM	SWC Presets ▶
▶	Preset View ▶
+ CONFIRM	+ CONFIRM
	Preset NoMux ▶
▶	Preset NoMux:00
+ CONFIRM	4 times
	Preset NoMux=05
EXIT	3 times
	Rack No.:01

To set the system to hold levels on loss of Mux signal, follow the steps below.

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
+ CONFIRM	SWC Presets ▶
▶	Preset View ▶
+ CONFIRM + CONFIRM	Preset NoMux ▶
▶	Preset NoMux:05
- CANCEL 6 times	Preset NoMux-HLD
EXIT 3 times	Rack No.:01

Set Fade Time

You can set the fade time for all SWC presets in the cabinet or for one preset at a time. To set the fade time for all presets to 1 second, follow the steps below.

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
+ CONFIRM	SWC Presets ▶
▶	Preset View ▶
+ CONFIRM 3 times	Preset Time ▶
▶	Time : All ▶
▶	Time : All 00:05
▶ 3 times	Time : All 00:05
- CANCEL 4 times	Time : All 00:01
EXIT	*Please Confirm*
+ CONFIRM	Time : All
EXIT	Preset View ▶
EXIT	Outlook Presets▶
EXIT	Rack No.:01

To set the fade time for preset 4 back to 5 seconds, follow the steps below.

Action	Result
	Rack No.:01
PRESET	Outlook Presets▶
+ CONFIRM	SWC Presets ▶
▶	Preset View ▶
+ CONFIRM 3 times	Preset Time ▶
▶	Time : All ▶
+ CONFIRM	Time : Preset ▶
▶	Time : 00-00:01
+ CONFIRM 4 times	Time : 04-00:01
▶ 4 times	Time : 04-00:01
+ CONFIRM 4 times	Time : 04-00:05
EXIT	Time : All
EXIT 3 times	Rack No.:01

Response Menu

The response speed of a dimmer is the rate at which it responds to an increase or decrease in its control level. Digital Environ provides "Medium" (100mS), "Fast" (30mS) and "Slow" (300mS) response times which you can assign to all dimmers or to any single dimmer. "Slow" is generally used for large lamp loads (e.g. 5kW fittings such as QuartzColor Pollux), while "Fast" is used for the small lamp loads that you might use in a chase effect.

Set Response for All Dimmers

The following example sets the response of all dimmers to "Fast."

Action	Result
	Rack No. :01
RESPONSE	Response:All ▶
▶	Res:All=Medium
+ CONFIRM	Res:All=Fast
EXIT	*Please Confirm*
+ CONFIRM	Response:All ▶
EXIT	Rack No. :01

Caution



The "Fast" setting together with the accuracy of digital dimmers can cause very high inrush currents to flow. These may damage large lamp filaments and cause circuit breakers to trip. Only set dimmers to FAST if necessary for a particular effect.

Set Response for One Dimmer

The following example sets the response of dimmer 8 to "Slow."

Action	Result
	Rack No. :01
RESPONSE	Response:All ▶
+ CONFIRM	Response:Dimmer▶
▶	Res:01=Fast
+ CONFIRM 7 times	Res:08=Fast
▶	Res:08=Fast
+ CONFIRM	Res:08=Slow
EXIT EXIT	Rack No. :01

Set Level Menu

This function lets you test individual dimmers and loads directly from the keypad by selecting their room & channel number, regardless of the signals being received from inputs.



Since this overrides the control inputs, including the Presets, it is possible to completely disable any or all of the dimmers. This is not a safety switch off mechanism however. It is easy to forget to set the dimmers back to INPUT, giving rise to unexpected lack of control.

Normally this control is set to All=Input, which lets the Mux input, analog inputs, and presets control the dimmer levels. Minimum Dimmer Level and Maximum Voltage set in the *SET menu take overall precedence over settings made in this menu. This control is reset to All=Input whenever the cabinet is powered up.

This control may also be used to control dimmers recording into SWC and Outlook presets in architectural situations where there is no conventional lighting control system available.

To set all dimmers to 50% follow the steps below.

Action	Result
	Rack No. :01
LEVEL	Set Level:All ▶
▶	Set:All=Input
+ CONFIRM	Set:All=Off
+ CONFIRM (hold until 50%)	Set:All=50%
- CANCEL (hold until "Input")	Set:All=Input
EXIT EXIT	Rack No. :01

To set dimmers 5 and 8 to 90% follow the steps below.

Action	Result
	Rack No.:01
LEVEL	Set Level:All ▶
+ CONFIRM	Set Level:Dimmer▶
▶	Set:01=Input
+ CONFIRM 4 times	Set:05=Input
▶	Set:05=Input
+ CONFIRM (hold until "90%")	Set:05=90%
◀	Set:05=90%
+ CONFIRM (hold until "8")	Set:08=Input
▶	Set:08=Input
+ CONFIRM (hold until "90%")	Set:08=90%
EXIT EXIT	Rack No.:01

*Set Menu

The *Set menu lets you access system functions for initial setup. To access the *SET menu you must press **MUX INPUT** **PRESET** **LEVEL** and hold it for about 4 seconds.

*If the lockout symbol (↓) appears on the LCD display, press **MUX INPUT** **RESPONSE** and hold about two seconds to unlock the processor module.*

Set Module Map

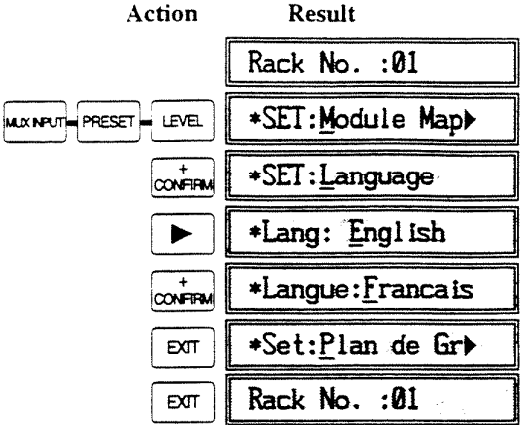
Before you can properly control dimmers, you need to tell the processor module what types of power modules are installed in the cabinet. The factory set defaults are:

- Small cabinet = all power modules are "Quad"
- Large cabinet = all power modules are "Dual"

The following example sets the first two slots of a large cabinet to single dimmer/non-dim modules.

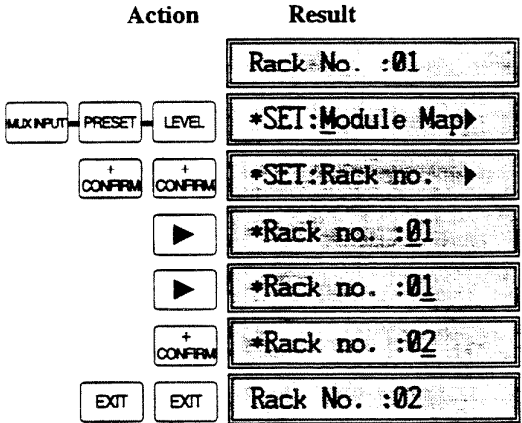
Action	Result
	Rack No. :01
MUX INPUT PRESET LEVEL (hold)	*SET:Module Map▶
▶	*Slot:01=Dual
▶	*Slot:01=Dual
+ CONFIRM + CONFIRM	*Slot:01=Single
◀	*Slot:01=Single
+ CONFIRM	*Slot:02=Dual
▶	*Slot:02=Dual
+ CONFIRM + CONFIRM	*Slot:02=Single
EXIT EXIT	Rack No. :01

Set Language The language used for messages can be set to English, French and German. Once changed, all subsequent messages will be displayed in the selected language. The factory default setting is English.



This has set the display language to French. The rest of this manual assumes that you set the language back to English at this time.

Set Cabinet Number For multiple cabinet installations you must set a unique cabinet number for each cabinet.



Set Maximum Output Voltage

You can set a maximum voltage for any or all dimmers. For instance, you can set the maximum voltage lower than the rated voltage of your lamps for improved lamp life. To set the maximum voltage for all dimmers to 120VAC, follow the steps below.

Action	Result
	Rack No. :02
MUX INPUT PRESET LEVEL	*SET:Module Map▶
+ CONFIRM 3 times	*SET:MaxVoltage▶
▶	*Max Volts:All ▶
▶	*MaxV:All=120v
▶	*MaxV:All=120v
- CANCEL	*MaxV:All=110v
EXIT	*Please Confirm*
+ CONFIRM	*MaxVolts:All ▶
EXIT EXIT	Rack No. :02

To set the maximum voltage for one dimmer one dimmer to 110VAC after having set all dimmers to 120VAC, follow the steps below.

Action	Result
	Rack No. :02
MUX INPUT PRESET LEVEL	*SET:Module Map▶
+ CONFIRM 3 times	*SET:MaxVoltage▶
▶	*MaxVolts:All ▶
+ CONFIRM	*Max Volts:Dim▶
▶	*MaxV:01=110v
+ CONFIRM	*MaxV:02=110v
▶ ▶	*MaxV:02=110v
- CANCEL	*MaxV:02=100v
EXIT 3 times	Rack No. :02

Set Minimum Dimmer Levels

You can set a minimum level for any or all dimmers. This can be used for security/safety lighting or as a preheat for your lamps. To set the minimum level for all dimmers, follow the steps below.

Action	Result
	Rack No. :02
MUX INPUT PRESET LEVEL	*SET:Module Map▶
+ CONFIRM 4 times	*SET:Min Level ▶
▶	*MinLevel:All ▶
▶	*Min:All=Off
+ CONFIRM (until 10%)	*Min:All=10%
EXIT	*Please Confirm*
+ CONFIRM	*MinLevel:All ▶
EXIT EXIT	Rack No. :02

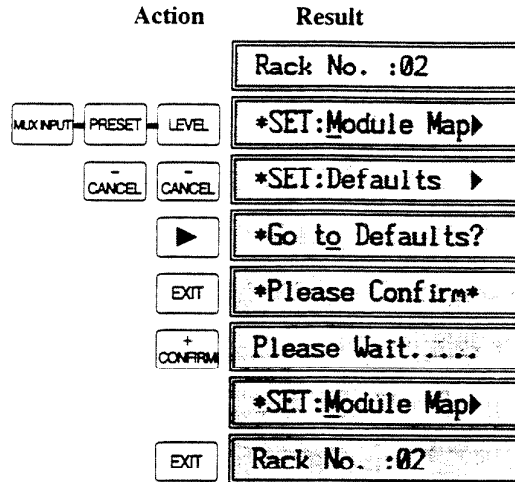
To set the minimum level for one dimmer after having set all dimmers to 10%, follow the steps below.

Action	Result
	Rack No. :02
MUX INPUT PRESET LEVEL	*SET:Module Map▶
+ CONFIRM 4 times	*SET:Min Level ▶
▶	*MinLevel:All ▶
+ CONFIRM	*MinLevel:Dimmer▶
▶	*MinLevel:01=10%
+ CONFIRM	*MinLevel:02=10%
▶	*MinLevel:02=10%
- CANCEL to required level	*MinLevel:02=05%
EXIT 3 times	Rack No. :02

Return the Cabinet to Default Values

You can return the entire system to its defaults if required.

Be careful. This setting returns all programmed settings to their factory defaults.



Since some of the defaults may not be appropriate for your system, you should always check all default settings after you use this function. When first switched on from new, or when set to defaults, the system will default to the following states:

Parameter	Factory default
MUX INPUTS	DMX512
NON-DIM	All dimmers =Dim (no Non-dims)
CURVE	All dimmers = Square
PATCH	Start address of dimmer 01=0001
RESPONSE	All dimmers = Medium
OUTLOOK	Preset 0 = On power-up, no Outlook preset will be activated.
PRESET	
SWC PRESET	Preset 0 = Should a Mux failure occur, all dimmers will fade to blackout after a period of 10 seconds.
LEVEL	Dimmers take levels from control inputs (Mux, analog etc). Every time the dimmer system is switched on, even if a LEVEL was set previously, it will always respond to the control inputs.
LOCK	OFF
MAXIMUM VOLTAGE	120V
MINIMUM LEVEL	OFF
RACK #	01
MODULE MAP	All power modules are dual for large cabinets and Quad for small cabinets.

Set Key Lock Status

To avoid tampering by unauthorized personnel, Digital Environ includes a security mechanism indicated by a key (\updownarrow) on the right side of the display. If this key is present, you must press $\overline{\text{MAX INPUT}}$ $\overline{\text{RESPONSE}}$ simultaneously and hold them for about 2 seconds to unlock the system before any of the keys will respond. The factory default setting for the security lockout is OFF.

The following procedure shows how to turn the security lockout ON.

Action	Result
$\overline{\text{MAX INPUT}}$ $\overline{\text{PRESET}}$ $\overline{\text{LEVEL}}$	*SET:Module Map▶
$\overline{\text{CANCEL}}$	*SET:Key Lock ▶
$\overline{\text{▶}}$	*Key Lock=No
$\overline{\text{+ CONFIRM}}$	*Key Lock=Yes
$\overline{\text{EXIT}}$ $\overline{\text{EXIT}}$	Rack No.:02

The lock becomes active if no buttons are pressed for 10 minutes or if you turn power to the rack OFF and then back ON.

*Service Menu

The service menu provides a way to calibrate some functions in the system and for Field Service to get information from the system. You may be asked to go into this menu if you are having problems with the system. To enter the menu, press $\overline{\text{MAX INPUT}}$ $\overline{\text{PUSH}}$ $\overline{\text{CLERVE}}$ and hold for several seconds.

User Messages

Sometimes, the software may produce an unexpected message, due to external or internal reasons. Each "Error" has a unique number and is logged internally in non-volatile memory. If a message should appear, write down the number that appears and call your Strand Lighting service agent or dealer. Press EXIT to clear the message.