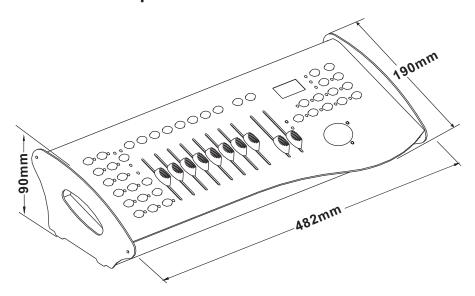
@qtx DMX 512 CONTROLLER SERIES

0	0	0	1	1	24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504
1	0	0	1	1	25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
0	1	0	1	1	26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506
1	1	0	1	1	27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
0	0	1	1	1	28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508
1	0	1	1	1	29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
0	1	1	1	1	30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510
1	1	1	1	1	31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511

Dip Switch Position

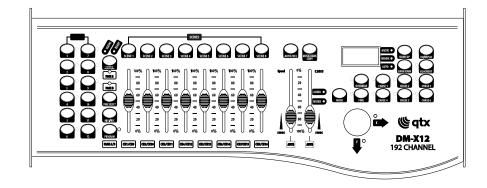
DMX Address

4.4 Technical Specifications



Operating Range	Weight	3.5 Kg
Data input	Operating Range	DC 9V-12V1000mA min
Data output	Maximum ambient temperature	45° C
Data pin configurationpin 1 shield, pin 2 (-), pin 3 (+)	Data input	locking 3-pin XLR male socket
	Data output	locking 3-pin XLR female socket
ProtocolsDMX-512 USITT	Data pin configuration	pin 1 shield, pin 2 (-), pin 3 (+)
	Protocols	DMX-512 USITT





DM-X12

192 Channel DMX Controller

USER MANUAL

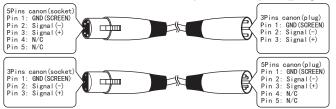
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Version 1.0

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The transform of the controller line of 3 pins and 5 pins (plug and socket)



4.3 DMX Dipswitch Quick Reference Chart

	DMX Address Quick Reference Chart																				
	Dip Switch Position																				
DM	(DIP	C/V/I	TCL	QET.	#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
DIVIZ		=0FI		OLI	#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
		1=01	-		#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
	X=0	FF o	r ON		#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5																	
0	0	0	0	0			32	64	96	128			-			-	352	384	416	448	480
1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	1	0	0	0		2	34	66	98	130	162	-	_	_	_	_	-	_		450	-
1	1	0	0	0		3	35	67	99	131			_					-		451	
0	0	1	0	0		4	36	68	100	132	_		_			_				452	-
1	0	1	0	0		5	37	69	101	133		_	-	_		325			-	1	1.2.2
0	1	1	0	0		6	38	70	102	_					_	-			-	454	
1	1	1	0	0		7	39	71	103	135	_	_	_	_	_	327	_	_	_	455	-
0	0	0	1	0		8	40	72	104				_	_		328			-	456	488
1	0	0	1	0		9	41	73	105	_	_	_	-	_	_	_	_	_	425	_	489
0	1	0	1	0		10	42	74		138	_		_								
1	1	0	1	0		11	43	75	107	139	_			_					-		491
0	0	1	1	0		12	44	76	108	140									428		
1	0	1	1	0		13	45	77	109	_	_		_			333				461	1.2.2
0	1	1	1	0		14	46	78	110	_	_		_	_		_	_	_	_	462	-
1	1	1	1	0		15	47	79	111	143	-		_	_	_	_	_	_	_	463	-
0	0	0	0	1		16	48	80	112	144	_		_	_		336			_	<u> </u>	-
1	0	0	0	1		17	49	81	113		_	209	_	-			369	-		465	1.2.
0	1	0	0	1		18	50	82	114	_	_	_	_	_	_	_	_		 	466	-
1	1	0	0	1		19	51	83	115	147	_	_	_	-		339	-		435	-	499
0	0	1	0	1		20	52	84	116	148		_	_	_		-	-	_	436		500
1	0	1	0	1		21	53	85	117	149	_	213	_	_	309	_	-		437		
0	1	1	0	1		22	54		118		_	_	-	<u> </u>	-	-	-			470	-
1	1	1	0	1		23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503

DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative(S-) and pin 3 is Data positive (S+).

4.2 FIXTURE LINKING Occupation of the XLR-connection:

DMX-OUTPUT XLR mounting-socket:



- 1- Ground 2 - Signal (-)

DMX-OUTPUT XLR mounting-plug:



- 1- Ground 2 - Signal (-)

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals. The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.





If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

1. Before you begin

1.1 What is included

- 1) DMX-240A controller
- 2) DC 9-12V 500mA, 90V~240V Power Adapter
- 3) Manual

1.2 Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

1.3 Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance.

- * Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- * Always make sure that you are connecting to the proper voltage and that the voltage you are connecting to is not higher than that stated on the fixture.
- * This product is intended for indoor use only!
- * To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- * The unit must be installed in a location with adequate ventilation.
- * Always disconnect from power source before servicing or replacing fuse.
- * In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

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- * Don't connect the device to a dimmer pack.
- * Make sure power cord is never crimped or damaged.
- * Never disconnect power cord by pulling or tugging on the cord.
- * Do not operate this device under 113°F ambient temperature conditions.

2. INTRODUCTION

2.1 Features

- * Universal DMX-512 Controller
- * Controls 12 intelligent lights of up to 16 channels
- * 30 banks of 8 scenes, 240 scenes total
- * 6 sets of chases containing 240 scenes
- * Re-assignable X/Y channels
- * wheel assignable Pan/Tilt and 16bit control
- * Beat-activation, tap sync, auto run
- Polarity selector
- * Midi compatible for Bank, chase and blackout
- * Each scene can store independent time and fade time
- * Each step of Chase can store independent time and fade time
- * Auto save last running data when power off or disconnect electric suddenly. Console will auto run continue while power ON or connect to electric.

2.2 General Overview

- * The Controller is a universal intelligent lighting controller. It allows the control of 12 fixtures composed of 16 channels each and up to 240 programmable scenes. Six chase banks can contain up to 85 steps composed of the saved scenes and in any order. Programs can be triggered by music, midi, automatically or manually.
- * On the surface you will find various programming tools such as 8 universal channel sliders, a wheel and LCD display indicators for easier navigation of controls and menu functions. You can control the pan and tilt of different intelligent lighting fixtures using the same wheel at the same time by means of a programmable wheel. This wheel allows the user to assign individual pan and tilt channels for every fixture.

2.3 Product Overview (front)

MIDI NOTE	FUNCTION (TURN ON/OFF)
00 to 07	Scenes 1~8 in BANK 1
08 to 15	Scenes 1~8 in BANK 2
16 to 23	Scenes 1~8 in BANK 3
24 to 31	Scenes 1~8 in BANK 4
32 to 39	Scenes 1~8 in BANK 5
40 to 47	Scenes 1~8 in BANK 6
48 to 55	Scenes 1~8 in BANK 7
56 to 63	Scenes 1~8 in BANK 8
64 to 71	Scenes 1~8 in BANK 9
72 to 79	Scenes 1~8 in BANK 10
80 to 87	Scenes 1~8 in BANK 11

MIDI NOTE	FUNCTION (TURN ON/OFF)
88 to 95	Scenes 1~8 in BANK 12
96 to 103	Scenes 1~8 in BANK 13
104 to 111	Scenes 1~8 in BANK 14
112 to 119	Scenes 1~8 in BANK 15
120	Chase 1
121	Chase 2
122	Chase 3
123	Chase 4
124	Chase 5
125	Chase 6
126	BLACKOUT

3.8 Data Transfer

It is possible to transfer the programs stored in one DMX-240A controller to another. Connect from the DMX output of the programmed controller to the DMX input of the other.

Action:

- 1)Source unit: Turn unit Off, press and hold **SCANNER** buttons 2, 3 and **SCENE** button 1 then turn unit back On.
- 2)Destination unit:Turn unit Off,press and hold SCANNER buttons 8, 9 and SCENE button 2 then turn unit back On.
- 3) Both units are now ready to transmit and receive. Press SCENE buttons7 & 8 simultaneously on Source unit to begin transmission.

Notes:

The display should show TRANSMIT, this indicates it is ready to transmit data.

The display should show RECEIVE, this indicates it is ready to receive data transmission.

4 APPENDIX 4.1 DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of

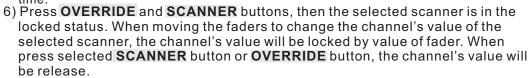
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- 1) Press the AUTO DEL button until the AUTO LED turns on.
- If a CHASE button is not pressed the controller will automatically run a BANK program.
- 3) Change **BANK** programs by using **BANK UP/DOWN** buttons.
- 4) Alternatively you can press a single CHASE button (1~6) or several CHASE buttons in sequence and all selected chases will loop in the order selected.
- 5) Move SPEED and CROSS faders to change the duration time between two scenes and the fade time of scene. If the faders are under AUTO area, then auto run the edited scene and fade time.

Notes:

In the Auto mode, programs will be triggered by controllers fade and speed time as set on the faders.

Multiple chases selected will loop and run in the order originally selected.



3.6.3 RUN MULTIPLE CHASES CYCLE

Action:

- 1) Press and hold AUTO DEL button.
- 2) While holding down AUTO DEL, in success press and release each CHASE you would like to run cycle.

Notes:

IMPORTANT! To avoid conflict between scenes running simultaneously that control the same fixture attributes consider creating individual color and gobo chases.

3.6.4 BLACKOUT

The **Blackout** button brings all lighting output to 0 or off.

3.7 Midi Operation

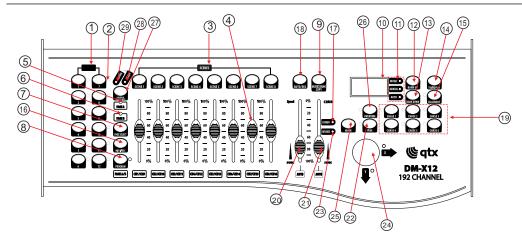
The controller will only respond to **MIDI** commands on the **MIDI** channel which it is set to full stop.

Action:

- 1) Press and hold the **MIDI/REC** button for about 3 seconds.
- Select the MIDI control channel (1~16) via the BANK UP/DOWN buttons to set.
- 3) Press and hold the MIDI/REC button for 3 seconds to save settings.

Notes:

This is the Channel that the controller will receive MIDI note commands.



Item	Button or Fader	Function
1	Scanner select buttons	Fixture selection
2	Scanner indicator LEDS	Indicates the fixtures currently selected
3	Scene select buttons	Universal bump buttons representing scene location for storage and selection
4	Channel faders	For adjusting DMX values, Ch 1~8 can be adjusted immediately after pressing the respective scanner select button, Ch 9~ 16 after pressing the Page select button
5	Page A Indicator LED	Represents Ch 1~8 range selected
6	Page B Indicator LED	Represents Ch 9~16 range selected
7	Page select button	In manual mode,press page button to select page A or page B
8	Program button	Used to enter programming mode
9	Music/Bank Copy button	Used to activate Music mode and as the copy command during programming
10	LCD display window	Status window displays present operational data
11	Mode Indicator LEDS	Provides operating mode status, (manual, music or auto)

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Item	Button or Fader	Function
12	Bank Up button	Choose target bank number
13	Bank Down button	Choose target bank number
14	Tap Display button	This is a Tap-Sync during playback and programming changes the DMX value displayed in the LCD panel to percentages
15	Blackout button	Set all channel be "0"
16	Midi/Rec button	Activates MIDI external control and also used to confirm the record/save process
17	Assign LED	Indicated the controller is in Channel assign mode during the initial setup of the controller
18	Auto/Del button	Used to activate Auto mode and as the delete function key during programming
19	Chase buttons	Chase memory 1 ~ 6
20	Speed fader	This will adjust the running time of a scene or a step within a chase
21	Cross fader	Also considered a cross-fade, sets the interval time between two scenes in a chase
22	Fine button	Activates 16 bit control of the wheel, movement will be in extremely small increments. Note: While FINE is active Bank UP/DOWN buttons will increase and decrease DMX values by one for either the wheel or the slider in focus or currently moved.
23	Reverse LED	Indicate REVESE mode
24	PAN/TILT Wheel (Joystick)	Generally used to control the pan and tilt movement of a fixture
25	Mode button	Use to set assignment and REVERSE setting,ref 3.1.3,3.1.4,3.1.6
26	Override button	Under AUTO mode to select manual control channel

Press the desired SCENE button to complete copy. All LEDs will blink.

Notes:

3.5.3 DELETE A SCENE

Action:

- **1)** Press and hold the **PROGRAM** button to enter programming mode.
- 2) Select the BANK that contains the scene to be deleted by using the BANK UP/DOWN buttons.
- 3) Press and hold the AUTO DEL button.
- 4) Press the **SCENE** button that orresponds to the scene you want to delete. All LEDs will blink.

Notes:

When deleting a scene the physical location is not removed, however, all 192 DMX channels available to the scene will be set to value 0.

3.5.4 DELETE ALL SCENES

Action:

- 1) Turn OFF console.
- Press and hold the PROGRAM button and the BANK DOWN button while turning ON power to the controller.

Notes:

CAUTION!

This process is irreversible. All scen es with data will be set to 0.

3.6 Playback 3.6.1 RUNNING IN SOUND-MODE

Action:

- 1) Press the MUSIC BANK COPY button until the MUSIC LED turns on.
- Select the program BANK to run in soundactive mode using the BANK UP/DOWN buttons.
- 3) Alternatively you can press a single **CHASE** button (1~6) or several **CHASE** buttons in sequence and all selected chases will loop in the order selected.
- 4) You can adjust the duration time using the **CROSS** fader.

Notes:

In the Sound mode, programs will be triggered by the sound using its built-in microphone.

Multiple chases selected will loop and run in the order originally selected.

3.6.2 RUNNING IN AUTO-MODE

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- 1) Turn OFF controller.
- Press and hold the BANK DOWN button and the AUTO DEL button while turning ON the controller.
- 3) All LEDs will blink.

Notes:

3.5 Scene Programming (Steps)

3.5.1 INSERT A SCENE

Action:

- 1) Press and hold the **PROGRAM** button to enter programming mode.
- 2) Press the desired CHASE button.
- 3) Press the **TAP DISPLAY** to switch the LCD display to steps view.
- 4) Use the BANK UP/DOWN buttons to navigate steps and locate the insert point of the new scene. The display will read the step number.
- 5) Press MIDI/REC button to prepare the insert and LCD display step 06.
- 6) Use the BANK UP/DOWN button to locate the SCENE.
- Press the SCENE button that corresponds to the scene to be inserted.
- 8) Press MIDI/REC button to insert the scene. All LEDs will blink.

Notes:

I.e. To insert a scene between Steps 05 and 06 navigate using BANK buttons until the display reads STEP05.

3.5.2 COPY A SCENE

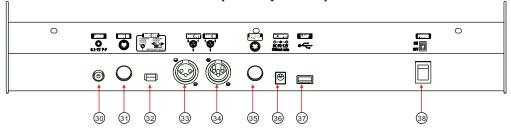
Action:

- 1) Press and hold the **PROGRAM** button to enter programming mode.
- Select the BANK that contains the scene to be copied using the BANK UP/DOWN buttons.
- 3) Press the **SCENE** button that corresponds to the scene to be copied.
- Press MIDI/REC button to copy the scene.
- 5) Select the destination BANK that contains the scene memory to record onto using the BANK UP/DOWN buttons.

Notes:

Item	Button or Fader	Function
27	Fog machine button	To activate the fog machine
28	Fog machine ready indicator	
29	Fog machine heating indicator	

2.4 Product Overview (rear panel)



Item	Button or Fader	Function
30	Audio input jack	Direct audio input for use in sound-active mode
31	MIDI input port	For external triggering of Banks and Chases using a MIDI device
32	DMX polarity switch	May be used to set signal polarity
33	DMX output connector	DMX control signal
34	DMX input connector	Used to transfer programmed data between 2 controllers
35	Fog machine socket	Connect fog machine
36	DC Input jack	Main power input
37	USB lamp socket	
38	ON/OFF power switch	Turn ON/OFF console

2.5 Common Terms

The following are common terms used in intelligent light programming. **Blackout** is a state by where all lighting fixtures light output are set to 0 or off, usually on a temporary basis.

DMX-512 is an industry standard digital communication protocol used in entertainment lighting equipment. For more information read Sections "DMX Primer" and "DMX Control Mode" in the Appendix.

Fixture refers to your lighting instrument or other device such as a fogger or dimmer of which you can control.

Programs are a bunch of scenes stacked one after another. It can be programmed as either a single scene or multiple scenes in sequence.

Scenes are static lighting states.

Sliders also known as faders.

Chases can also be called programs. A chase consists of a bunch of scenes stacked one after another.

Scanner refers to a lighting instrument with a pan and tilt mirror; however, in the ILS-CON controller it can be used to control any DMX-512 compatible device as a generic fixture.

MIDI is a standard for representing musical information in a digital format. A MIDI input would provide external triggering of scenes using midi device such as a midi keyboard.

Stand Alone refers to a fixture's ability to function independently of an external controller and usually in sync to music, due to a built in microphone.

Fade slider is used to adjust the time between scenes within a chase.

Speed slider affects the amount of time a scene will hold its state. It is also considered a wait time.

Shutter is a mechanical device in the lighting fixture that allows you to block the lights path. It is often used to lessen the intensity of the light output and to strobe.

3.OPERATING INSTRUCTIONS 3.1 Setup

3.1.1 SETTING UP THE SYSTEM

- 1) Connect this fixture to electric power via DC adaptor.
- 2) Plug in your DMX cable(s) to your intelligent lighting as described in the fixtures respective manual. For a quick Primer on DMX see the DMX Primer" section in the Appendix of this manual.

Action:

- 3) Press the **TAP DISPLAY** to switch the LCD display to steps view.
- 4) Use the BANK UP/DOWN buttons to navigate steps and locate the insert point of the new scene. The display will read the step number.
- Press MIDI/REC button to prepare the insert and LCD display STEP 06.
- 6) Use the **BANK UP/DOWN** button to locate the **SCENE**.
- Press the SCENE button that corresponds to the scene to be inserted.
- 8) Press MIDI/REC button to insert the scene. All LEDs will blink.

Notes:

I.e. To insert a scene between Steps 05 and 06 navigate using BANK buttons until the display reads STEP 05.

3.4.7 DELETE A SCENE IN A CHASE

Action:

- Press and hold the PROGRAM button to enter programming mode.
- Press the desired CHASE button that contains the scene to be deleted.
- 3) Press the **TAP DISPLAY** button to switch the LCD display to steps.
- 4) Select the scene/step to be deleted using the BANK UP/DOWN buttons.
- 5) Press **AUTO DEL** button to delete the step/scene. All LEDs will blink.

Notes:

LCD will show selected chase number.

3.4.8 DELETE A CHASE

Action:

- 1) Press and hold the **PROGRAM** button to enter programming mode.
- 2) Press the **CHASE** button |(1-6)to be deleted.
- Press and hold AUTO DEL button and the target CHASE button to delete the chase. All LEDs will blink.

Notes:

3.4.9 DELETE ALL CHASE PROGRAMS

CAUTION! This procedure will result in irrevocable loss of chase step memory. The individual scenes and program banks will be preserved.

3.4.3 CHECKING A CHASE

Action:

- 1) Press **Auto/Del** to manual mode. The manual LED will on, then move all sliders to button.
- 2) Select the desired CHASE button.
- 3) Press the **TAP DISPLAY** button to switch the LCD display to steps.
- Review each scene/step individually by using the BANK UP/DOWN buttons.

Notes:

3.4.4 EDIT CHASE (COPY BANK INTO CHASE)

Action:

- 1) Press and hold the **PROGRAM** button to enter programming mode.
- 2) Press the desired CHASE button.
- 3) Select the BANK to be copied using the BANK UP/DOWN buttons.
- Press MUSIC/BANK COPY button to prepare copy.
- 5) Press MIDI/REC button to copy the bank. All LEDs will blink.

Notes:

Notes:

3.4.5 EDIT CHASE (COPY SCENE INTO CHASE)

Action:

- 1) Press and hold the **PROGRAM** button to enter programming mode.
- 2) Press the desired CHASE button.
- Select the BANK that contains the scene to be copied using the BANK UP/DOWN buttons.
- Press the SCENE button that corresponds to the scene to be copied.
- 5) Press MIDI/REC button to copy the scene. All LEDs will blink.

3.4.6 EDIT CHASE (INSERT SCENE INTO A CHASE)

Action:

- Press and hold the **PROGRAM** button to enter programming mode.
- 2) Press the desired CHASE button.

N⊑ IN I Notes :

3.1.2 FIXTURE ADDRESSING

The Controller is programmed to control 16 channels of DMX per fixture, therefore the fixtures you wish to control with the corresponding "**SCANNER**" buttons on the unit, must be spaced 16 channels apart.

hast be spaced to charmers apart.								
FIXTURE OR SCANNER #	DEFAULT DMX STARTING ADDRESS	BINARY DIPSWITCH SETTINGS SWITCH TO THE "ON POSITION"						
1	1	1						
2	17	1,5						
3	33	1,6						
4	49	1 ,5 ,6						
5	65	1,7						
6	81	1,5,7						
7	97	1,6,7						
8	113	1,5,6,7						
9	129	1,8						
10	145	1,5,8						
11	161	1,6,8						
12	177	1 ,5 ,6 , 8						

Please refer to your individual fixture's manual for DMX addressing instructions. The table above refers to a standard 9 dipswitch binary configurable device.

3.1.3 WHEEL ASSIGNMENT

Because not all intelligent lighting fixtures are alike or share the same control attributes, the Controller allows the user to assign the wheel the correct pan and tilt channel for every individual fixture including 16 bit channel assignments. It also allows the user to re-assign physical faders to fixture DMX channels so that the user can combine or unify control of similar or the same attributes across different types of fixtures.

Action:

- 1) press and hold the **PROGRAM** button until the led blinks
- 2) Press and hold **FINE** & **MODE** buttons together (2) times to access the channel assignment mode. the assign led will light.the wheel can be reassigned to output on a different dmx channel.

Notes:

All wheels can be reassigned to output on a different DMX channel.

You can re-assign X/Y channel to all controller fader channels.

Delete a Scanner of DMX Channels Notes :

- press a SCANNER button that represents the fixture you would like to set the pan&tilt
- 4) Use the **BANKUP/DOWN** buttons to select you want to set
- 5) Press the **TAP/DISPLAY** button to switch pages to choose channels
- 6) press and hold MODE button, then press the SCENES buttons to select the DMXchannel. All LEDs will blink and LCD display will show Pan/Tilt setted channel
- 7) Press and hold FINE & MODE buttons together to exit

- 1) press and hold the **PROGRAM** button until the led blinks.
- 2) Press and hold **FINE** & **MODE** buttons together (2) times to access the channel assignment mode, the assign led will light.the wheel can be reassigned to output on a different dmx channel.
- press a SCANNER button that represents the fixture you would like to set the pan&tilt
- **4)** Press **AUTO/DEL** & **MODE** buttons together to delete the channel assignment mode.

3.1.4 REVIEW WHEEL ASSIGNMENT OR REVERSE

Action: (Reverse Review)

- 1) Press and hold **FINE** & **MODE** buttons together one time to access the wheel assignment mode
- 2) press a **SCANNER** button to select a scanner
- 3) Press and hold **FINE** & **MODE** buttons together (2) times to exit

Action: (wheel assignment Review)

- 1) Press and hold **FINE** & **mode** buttons together (2) times to access the channel reverse mode
- 2) press a **SCANNER** button to select a scanner
- 3) Press and hold **FINE** & **MODE** buttons one time to exit

Notes:

3.1.5 COPY SCANNER

Example: Copying Scanner 1 into Scanner 2

Action:

- 1) Press and hold **SCANNER** button #1.
- 2) While holding button # 1 press SCANNER button # 2.
- 3) Release **SCANNER** button # 1 first before releasing **SCANNER** button # 2 and LED indicat light of SCANNER# 2 will ON.

Notes:

To save time, you can copy the settings of one Scanner button to another.

Action:

- Use BANK UP/DOWN buttons to select the destination PROGRAM bank.
- 5) Press the MUSIC BANK COPY button to execute the copy. All LEDs on the controller will blink.

Notes:

3.4Chase Programming

A chase is created by using previously created scenes. Scenes become steps in a chase and can be arranged in any order you choose. It is highly recommended that prior to programming chases for the first time; you delete all chases from memory. See "Delete All Chases" for instructions.

3.4.1CREATE A CHASE

A chase can contain 240 scens as steps. The term steps and scenes are used interchangeably.

Action:

- 1) Press the **PROGRAM** button until the LED blinks.
- 2) Press the CHASE (1~6) button you wish to program.
- 3) Change **BANK** if necessary to locate a scene.
- 4) Select the SCENE to insert.
- 5) Tap the MIDI/REC button to store.
- **6)** Repeat steps 3 ~ 5 to add additional steps in the chase. Up to 240 steps can be recorded.
- 7) Press and hold the **PROGRAM** button to save the chase.

Notes:

3.4.2 RUNNING A CHASE

Action:

- 1) Press a **CHASE** button then press the **AUTO DEL** button.
- 2) Adjust the Chase speed by tapping the **TAP DISPLAY** button twice at a rate of your choosing.

Notes:

The time between 2 taps will set the chase speed (up to 10 minutes)

4) Alternatively you can tap the TAP DISPLAY button twice. The time between two taps sets the time between SCENES(up to 10 minutes).

Notes:

Also called a Tap-Sync.

3.3.4 CHECK A BANK

Action:

- 1) Press Auto / Del enter manual mode.
- Use the BANK UP/DOWN buttons to select the PROGRAM bank to review.
- 3) Press the **SCENES** buttons to review each scene individually.

Notes:

3.3.5 EDITING A PROGRAM

Scenes will need to be modified manually.

Action:

- 1) Press and hold the **PROGRAM** button until the LED blinks.
- 2)Use BANK UP/DOWN buttons to change Program banks if necessary.
- 3) Select the desired fixture via the **SCANNERS** button.
- 4) Adjust and change fixture attributes using the channel faders and wheel.
- 5) Press the MIDI/REC button to prepare the save.
- **6)**Select the desired **SCENES** button to save.

Notes:

Deselect Blackout if LED is lit.

3.3.6 COPY A BANK

Action:

- 1) Press and hold the **PROGRAM** button until the LED blinks.
- Use BANK UP/DOWN buttons to select the PROGRAM bank you will copy.
- Press the MIDI/REC button to prepare the copy.

Notes:

All 8 scenes in a Program bank will be copied.

Action:

 The target SCANNER LED indicators will flash to confirm successful copy.

Notes:

3.1.6 REVERSE CHANNEL OUTPUT

Action:

- 1) press and hold the **PROGRAM** button until the led blinks
- 2) Press and hold **FINE & MODE** buttons together to access **REVERSE** mode and **REVERSE** LED ON,then press the **SCANNER** button
- 3) Use the **Bank up/Down** buttons to select pan/tilt
- 4) Press the **TAP/DISPLAY** button to switch between pages
- press and hold MODE button, then press the **SCENES** buttons to select the DMXchannel. All LEDs will blink.
- 6) Press and hold FINE & MODE buttons
 (2)times to exit

Notes

You can permanently reverse the output of any given channel on the controller. Press **AUTO/DEL**& **MODE** buttons together to delete the reverse channel.

3.1.7 FADE TIME ASSIGN

You can choose whether the board's fade time during scene execution is implemented broadly to all output channels or only to the Pan & Tilt movement channels. This is relevant because often you will want gobos and colors to change quickly while not affecting the movement of the light.

Action:

- 1) Turn OFF the controller.
- 2) Hold the **MODE** and **TAP DISPLAY** buttons simultaneously.
- 3) Turn on the controller.
- 4) Press the TAP DISPLAY button to toggle between the two modes. Either ALL CH (all channels) or ONLY X/Y (Pan & Tilt only)
- Press MODE and TAP DISPLAY to save settings. All LEDS will blink to confirm setting.

Notes:

ALL CH: All channels ONLY X/Y: Only Pan & Tilt

3.2 Operation

3.2.1 MANUAL MODE

The manual mode allows direct control of all scanners. You are able to move them and change attributes by using the channel faders and wheel.

Action:

- 1) Press the **AUTO DEL** button repeatedly until the MANUAL LED is lit.
- 2) Select a **SCANNER** button.
- 3) Move wheel and faders to change fixture attributes.

PAGE/SELECT A/B button:

Use to switch between fader control of (A: Ch1~8), (B: Ch 9~16)

TAP DISPLAY button:

Press to toggle the output indicator on the LCD display between DMX values (0-255) or percentage (0-100)

Notes:

All changes made while in Manual Mode are temporary and will not be recorded.

3.2.2 REVIEW SCENE OR CHASE

This instruction assumes that you have already recorded scenes and chases on the controller. Other wise skip section and go to programming.

Action: (SCENE Review)

- 1) In manual mode select any one of the 30 banks by pressing the **BANK UP/ DOWN** buttons.
- 2)Select a **SCENE** button (1~8) to review.
- 3) Move wheel and faders to change fixture attributes.

Action: (CHASE Review)

- 1) In manual mode press any one of the 6 **CHASE** buttons.
- 2) Press the **TAP DISPLAY** button to view the step number on the display.
- 3) Press the **BANK UP/DOWN** buttons review all scenes in the chase.

Notes:

Press Auto / DEL to MANUAL Mode.

3.3 Programming

A program (bank) is a sequence of different scenes (or steps) that will be called up one after another. In the DMX-240A 30 programs can be created of 8 scenes in each.

3.3.1ENTERING PROGRAM MODE

1) Press the **Program** button around 2 seconds until the LED blinks.

3.3.2CREATE A SCENE:

A scene is a static lighting state. Scenes are stored in banks. There are 30 bank memories on the controller and each bank can hold 8 scene memories. The DMX-240A can save 240 scenes total.

Action:

- 1) Press the **PROGRAM** button until the LED blinks.
- 2) Position SPEED and CROSS sliders all the way down.
- 3) Select the **SCANNERS** you wish to include in your scene.
- **4)** Compose a look by moving the sliders and wheel.
- 5) Move **SPEED** and **CROSS** fader to adjust the stay time and fade time of scene.
- 6) Tap MIDI/REC button to prepare save.
- 7) Choose a **BANK** (01~30) to change if necessary.
- 8) Select a SCENES button to store.
- 9) Repeat steps 3 through 7 as necessary. 8 scenes can be recorded in a Program.
- 10) To exit program mode, hold the **PROGRAM** button.

Notes:

Deselect Blackout if LED is lit.

You can select more than one fixture.

You can access channels 9~16 by pressing the Page Select button. This is necessary for fixtures that use more than 8 channels of control.

There are 8 scenes available in every bank.

All LEDs will flash to confirm. The LCD display will now indicate the Scene number and Bank number used.

Shortcut: Press [PROGRAM] > [SCANNERS] Adjust [Faders & Wheel] > [BANK] | SCENE] > Press [PROGRAM] to store.

3.3.3 RUNNING A BANK

Action:

- 1) Use **BANK UP/DOWN** buttons to change Program banks if necessary.
- Press the AUTO DEL button repeatedly until the AUTO LED turns on.
- Adjust the PROGRAM speed via the SPEED fader and the loop rate via the CROSS fader.

Notes:

Deselect Blackout if LED is lit.