Manuals+ — User Manuals Simplified.

qts DM-X18 3 8 4 Channel DMX Controller User Manual

Contents

qts DM-X18 3 8 4 Channel DMX Controller

What are included

1)   DMX-512 Controller

- DC 9-12V 500mA, 90V~240V Power Adapter
- Manual
- LED gooseneck lamp
- 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 the 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.

Safety Instructions

- Please keep this User Guide for future 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 line voltage you are connecting to is not higher than that stated on decal or rear panel of the
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp
- In the event of serious operating problem, stop using the unit 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.
- Don t connect the device to a dimmer
- Make sure power cord is never crimped or
- Never disconnect power cord by pulling or tugging on the
- Do not operate this device under 113 F ambient temperature

INTRODUCTION

## Features

* **DMX512/1990 Standard**

- Controls 24 intelligent lights of up to 16 channels, a totally 384 channels
- 30 banks, each with 8 scenes; 6 chases, each with up to 240 scenes
- Record up to 6 chases with fade time and speeds
- 16 sliders for direct control of channels
- MIDI control over banks, chases and blackout
- Built-in microphone for music mode
- Auto mode program controlled by fade time sliders
- DMX in/out: 3 pin XRL
- LED gooseneck lamp
- Plastic end housing

General Overview

* The Controller is a universal intelligent lighting controller. It allows the control of 24 fixtures composed of 16 channels each and up to 240 programmable scenes. Six chase banks can contain up to 240 steps composed of the saved scenes and in any order. Programs can be triggered by music, midi, automatically or manually. All chases can be executed at the same time.

- On the surface, you will find various programming tools such as 16 universal channel sliders, quick access scanner and scene buttons, and an LED display indicator for easier navigation of controls and menu

Product Overview (front)
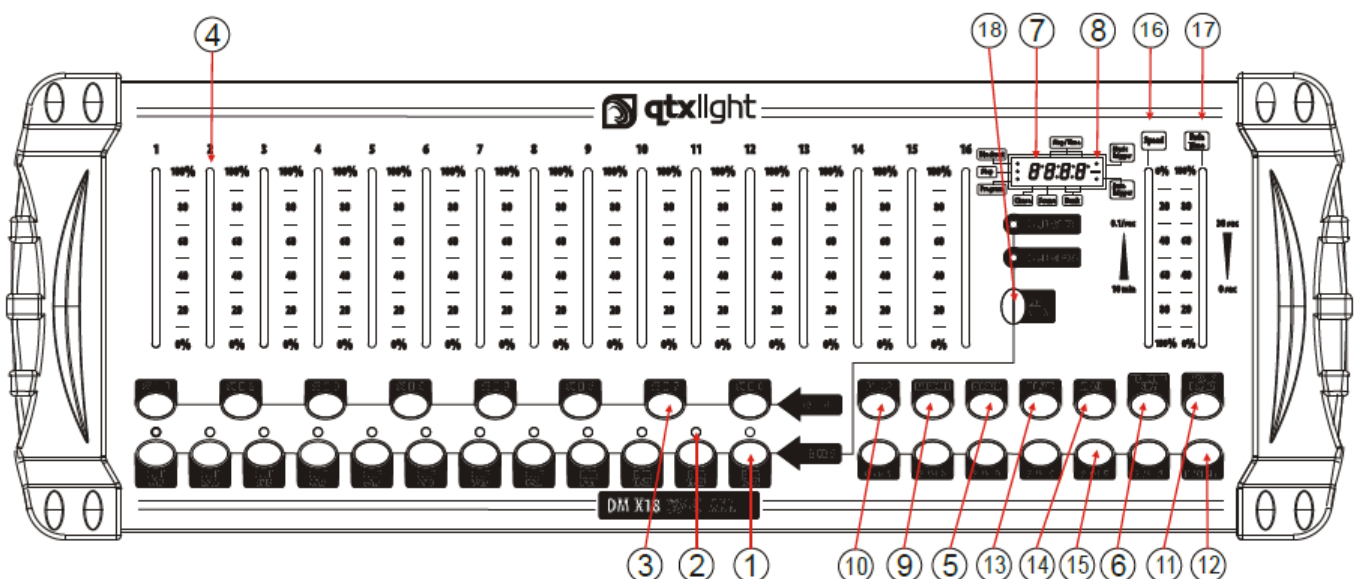
Item	Button or Fader	Function
1	Scanner select buttons	Fixture selection
2	Scanner indicator LEDS	Indicates the fixtures currently selected
3	Scene select buttons	Universal bump buttons representing scene location for storage and selection
4	Channel faders	For adjusting DMX values, Ch 1~16 can be adjusted immediately after pressing the respective scanner select button
5	Program button	Used to enter programming mode
6	Music/Bank Copy button	Used to activate Music mode and as the copy command during programming
7	LED display window	Status window displays pertinent operational data
8	Mode Indicator LEDS (manual, music or auto)	Provides operating mode status,
9	Bank Up button	Function button to traverse Scene/Steps in banks or chases
10	Bank Down button	Function button to traverse Scene/Steps in banks or chases
11	Tap Display button	Sets the chase speed by tapping, and toggles between values and percentages.
12	Blackout button	Sets the shutter or dimmer value of all fixtures to 0 causing all light output to cease
13	Midi/ADD button	Activates MIDI external control and also used to confirm the record/save process
14	Auto/Del button	Used to activate Auto mode and as the delete function key during programming
15	Chaser buttons	Chase memory 1 ~ 6
16	Speed fader	This will adjust the hold time of a scene or a step within a chase
17	Fade-Time fader	Also considered a cross-fade, sets the interval time between two scenes in a chase

18	Page select button of control	In manual mode, press to toggle between pages

Product Overview (rear panel)
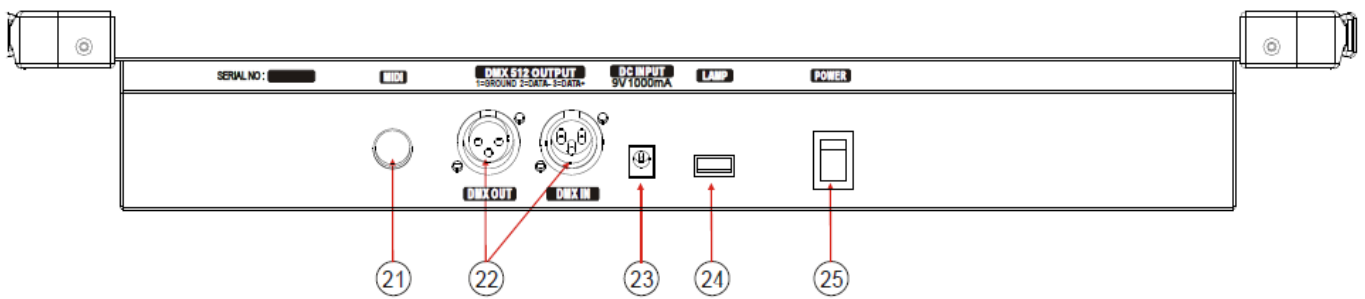
Item	Button or Fader	Function
21	MIDI input port	For external triggering of Banks and Chases using a MIDI device
22	DMX output connector	DMX control signal
23	DC Input jack	Main power feed
24	USB Lamp socket	
25	ON/OFF power switch	Turns **the controller on and off**

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 another 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 path of the light. It is often used to lessen the intensity of the light output and to strobe.

Patching refers to the process of assigning fixtures a DMX channel or.

Playbacks can be either scenes or chases that are directly called to execution by the user. Playback can also be considered a program memory that can be recalled during a show.

OPERATING I INSTRUCTIONS

 Setup
SETTING UP THE SYSTEM

1. Plug the AC to DC power supply to the system back panel and to the main outlet.
2. Plug in your DMX cable(s) to your intelligent lighting as described in the fixture's respective manual. For a quick Primer on DMX see the "DMX Primer" section in the Appendix of this manual.

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

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

FIXTURE OR SCANNER #	DEFAULT DMX STARTING ADDRESS	BINARY DIPSWITCH SETTINGS SWITCH TO THE ON POSITION
13	193	1,7,8
14	209	1,5,7,8
15	225	1,6,7,8
16	241	1,5,6,7,8
17	257	1,9
18	273	1,5,9
19	289	1,6,9
20	305	1,5,6,9
21	321	1,7,9
22	337	1,5,7,9
23	353	1,6,7,9
24	369	1,5,6,7,9

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

PAN AND TILT CHANNELS

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

Action :

Press and hold *PROGRAM* & *TAPSYNC* different DMX channel. Faders are given a channel button together (1) time to access the number and are labeled on the surface of the channel assignment mode.

- Press a *SCANNER* button or *PAGE SELECT* button that represents the fixture whose faders you would like to reassign

Notes :

All pan/tilt can be reassigned to output on a different DMX channel. Press AUTO/DEL buttons to delete the channel assignment mode

1. Move one fader of 16 channel to select the pan channel.
2. Press the TAPSYNC DISPLAY button to select pan / tilt
3. Move one fader of 16 channel to select the tilt channel.
4. press and hold PROGRAM & TAPSYNC DISPLY buttons to exit and save setting.All LEDs will blink.

Notes :

All pan/tilt can be reassigned to output on a different DMX channel

RESETTING THE SYSTEM

Warning: this will reset the controller to its factory defaults. This will erase all programs and settings.

Action :

- Turn off the
- Press and hold BANK UP and AUTO/DEL.
- Turn on power to the unit (while still holding BANK UP and AUTO/DEL).

COPY SCANNER

Example: Copying Scanner 1 into Scanner 2

Action :

- Press and hold **SCANNER** button #
- While holding button # 1 press **SCANNER** button # 2

- Release **SCANNER** button # 1 first before releasing
- All **SCANNER** LED indicators will flash to confirm successful copy

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 :

- Turn OFF the
- Hold the **BLACKOUT** and **TAPSYNC DISPLAY** buttons simultaneously.

- Turn ON the
- Press the **TAPSYNC DISPLAY** button to toggle between the two Either all channels (A) or select channel Pan & Tilt only (P)
- Press **BLACKOUT** and **TAPSYNC DISPLAY** to save All LEDs will blink to confirm.

Operation

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.

Action :

- Press the **AUTO DEL** button repeatedly until the MANUAL LED is
- Select a **SCANNER**
- Move faders to change fixture

TAPSYNC DISPLAY button:

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

REVIEW SCENE OR CHASE

Notes :

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

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)

- **Action :** (CHASE Review)Select any one of the 30 banks by pressing the

- Select a **SCENE** button (1~8) to
- Move wheel and faders to change fixture

- Press any one of the 6 **CHASE**
- Press the **TAP DISPLAY** button to view the step number on the
- Press the **BANK UP/DOWN** buttons review all scenes in the

Programming

Notes : Make sure you are still in MANUAL Mode.

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

ENTERING PROGRAM MODE

  - Press the **Program** button until the LED

CREATE 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 controller can save 240 scenes total.

Action :

- Press the **PROGRAM** button until the LED
- Position **SPEED** and **FADE TIME** sliders all the way
- Select the **SCANNERS** you wish to include in your
- Compose a look by moving the *sliders* and
- Tap **MIDI/REC**
- Choose a **BANK** (01~30) to change if
- Select a **SCENES** button to
- Repeat steps 3 through 7 as 8 scenes can be recorded in a Program.
- To exit program mode, hold the **PROGRAM**

RUNNING A PROGRAM

Action :

- 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 **FADE TIME**
- Alternatively, you can tap the **TAPSYNC DISPLAY** button The time between two taps sets the time between SCENES (up to 10 minutes).

Notes :

Deselect Blackout if LED is lit.

Also called a Tap-Sync.

CHECK PROGRAM Action :

- Press and hold the **PROGRAM** button until the

LED blinks.

- Use the **BANK UP**/**DOWN** buttons to select the **PROGRAM** bank to
- Press the **SCENES** buttons to review each scene

EDITING A PROGRAM

Scenes will need to be modified manually.

Notes :

- Press and hold the LED blinks. button until the Deselect Blackout if LED is lit.

- Use **BANK UP**/**DOWN** buttons to change *Program* banks if necessary.

- Select the desired fixture via the **SCANNERS** button or **PAGE SELECT**
- Adjust and change fixture attributes using the channel faders and
- Press the **MIDI/ADD** button to prepare the
- Select the desired **SCENES** button to

COPY A PROGRAM Action :

- Press and hold the **PROGRAM** button until the LED
- Use **BANK UP**/**DOWN** buttons to select the

PROGRAM bank you will copy.

- Press the **MIDI/ADD** button to prepare the
- Use **BANK UP**/**DOWN** buttons to select the destination **PROGRAM**

- Press the **MUSIC BANK COPY** button to execute the All LEDs on the controller will blink.

Chase ProgrammingChase 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.

CREATE A CHASE

A Chase can contain 240 scenes 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/ADD 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.

RUNNING3.4.2 RUNNING A A CHASE CHASE

Action :

1. Press a CHASE button then press the AUTO DEL button.
2. Adjust the Chase speed by tapping the TAPSYNC DI- SPLAY button twice at a rate of your choosing.

CHECKING A CHASE

Action :

1. Press and hold the PROGRAM button until the LED is light.
2. Select the desired CHASE button.
3. Press the TAPSYNC DISPLAY button to switch the LED display to steps.
4. Review each scene/step individually by using the BANK UP/DOWN buttons.

EDIT CHASE (COPY BANK INTO CHASE)

Action :

- Press and hold the **PROGRAM** button to enter programming
- Press the desired **CHASE**
- Select the **BANK** to be copied using the

BANK UP/DOWN buttons.

- Press the **MUSIC/BANK COPY** button to prepare
- Press the **MIDI/ADD** button to copy the All LEDs will blink.

EDIT CHASE (COPY SCENE INTO CHASE

Action :

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

EDIT CHASE (INSERT SCENE INTO A CHASE)

Action :

- Press and hold the **PROGRAM** button to enter programming
- Press the desired **CHASE**
- Press the **TAPSYNC DISPLAY** to switch the LED display to steps
- Use the **BANK UP/DOWN** buttons to navigate steps and locate the insert point of the new

The display will read the step number.

- Press the **MIDI/ADD** button to prepare the
- Use the **BANK UP/DOWN** button to locate the **SCENE**.
- Press the **SCENE** button that corresponds to the scene to be
- Press the **MIDI/ADD** button to insert the All LEDs will blink.

DELETE A SCENE IN A CHASE

Action :

- Press and hold the **PROGRAM** button to enter programming
- Press the desired **CHASE** button that contains the scene to be
- Press the **TAPSYNC DISPLAY** button to switch the LED display to
- Select the scene/step to be deleted using the **BANK UP/DOWN** buttons.

  - Press the **AUTO DEL** button to delete the step/scene. All LEDs will blink

DELETE A CHASE

Action :

- Press and hold the **PROGRAM** button to enter programming
- Press the **CHASE** button (1~6) to be
- Press and hold the **AUTO DEL** button and the respective **CHASE** button to delete the chase. All LEDs will blink.

- Select the BANK that contains the scene to be copied using the BANK UP 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.

Action :

- Turn OFF
- Press and hold the **BANK DOWN** button and the

 AUTO DEL button while turning ON the controller

Scene Programming (Steps)

INSERT A SCENE

Action :

- Press and hold the **PROGRAM** button to enter programming
- Press the desired **CHASE**
- Press the **TAPSYNC DISPLAY** to switch the LED display to steps
- Use the **BANK UP**/**DOWN** buttons to navigate steps and locate the insert point of the new

The display will read the step number.

- Press the **MIDI**/**ADD** button to prepare the
- Use the **BANK UP**/**DOWN** button to locate the **SCENE**.
- Press the **SCENE** button that corresponds to the scene to be
- Press **MIDI**/**ADD** button to insert the All LEDs will blink

Notes :

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

COPY A SCENE

Action :

- Press and hold the **PROGRAM** button to enter programming
- /**DOWN**
- Press the **SCENE** button that corresponds to the scene to be

- Press **MIDI/ADD** button to copy the
- Select the destination **BANK** that contains the scene memory to record onto using the **BANK UP/DOWN**
- Press the desired **SCENE** button to complete All LEDs will blink.

DELETE A SCENE

Action :

- Press and hold the **PROGRAM** button to enter programming
- Select the **BANK** that contains the scene to be deleted by using the **BANK UP/DOWN**
- Press and hold the **AUTO DEL**
- Press the **SCENE** button that corresponds to the scene you want to All LEDs will blink.

DELETE ALL SCENES

Action :

- Press and hold the **PROGRAM** button and the **BANK DOWN** button while turning off power to the
- Turn the controller back **Playback**

RUNNING IN SOUND-MODE

Action :

- Press the **MUSIC BANK COPY** button until the **MUSIC LED** turns on.

- Select the program **BANK** to run in sound active mode using the **BANK UP/DOWN**
- 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
- You can adjust the duration time using the **FADE TIME** fade

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

Midi Operation

The controller will only respond to **MIDI** commands on the **MIDI** channel which it is set to full stop. All **MIDI** control is performed using Note on commands. All other **MIDI** instructions are ignored. To stop a chase, send the blackout on note.

Action :

- Press and hold the **MIDI/ADD** button for about 3
- Select the MIDI control channel (1~16) via the bank **UP/DOWN** buttons to set.

- Press and hold the **MIDI/ADD** button for 3 seconds to save

To release **MIDI** control, press any other button except the **BANK** buttons during step 2

BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT
BLACKOUT	BLACKOUT

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 11 9	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

APPENDIX

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 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 slave 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+).

FIXTURE LINKING

Occupation of the XLR-connection

DMX-OUTPUT
XLR mounting-socket:

1- Ground
2 - Signal (-)
3 - Signal (+)

DMX-OUTPUT
XLR mounting-plug:

1- Ground
2 - Signal (-)
3 - Signal (+)

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 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 120W (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.

120 ohm

PIN2   PIN3
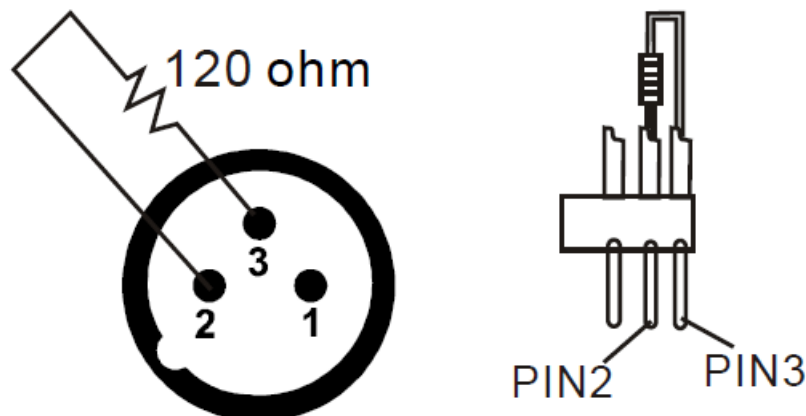
If you wish to connect DMX controllers with other XLR-outputs, you need to use adapter cables.

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

5Pins canon(socket)
Pin 1: GND (SCREEN)
Pin 2: Signal (–)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

3Pins canon(plug)
Pin 1: GND (SCREEN)
Pin 2: Signal (–)
Pin 3: Signal (+)

3Pins canon(socket)
Pin 1: GND (SCREEN)
Pin 2: Signal (–)
Pin 3: Signal (+)

5Pins canon(plug)
Pin 1: GND (SCREEN)
Pin 2: Signal (–)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C
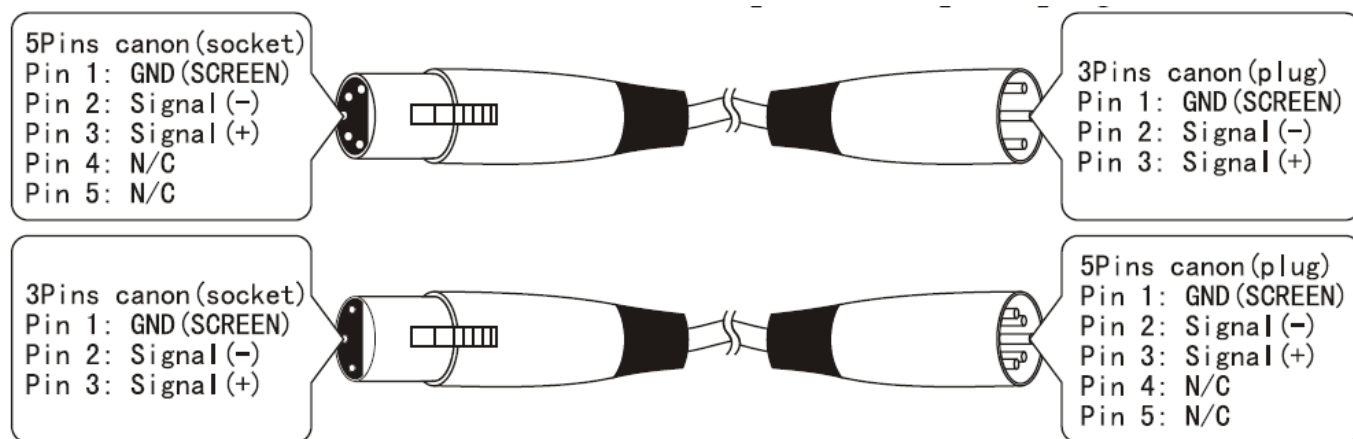
DMX Dipswitch Quick Reference Chart

DMX Address Quick Reference Chart

Dip Switch Position

DMX DIP SWITCH SET 0=OFF

1=ON X=OFF or ON

|				#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
				#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
				#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
				#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	160	192	224	256	288	320	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	194	226	258	290	322	354	386	418	450	482
1	1	0	0	0	3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	0	1	0	0	4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1	0	1	0	0	5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
0	1	1	0	0	6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	0	0	7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	0	1	0	8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	0	0	1	0	9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489

0	1	0	1	0
1	1	0	1	0
0	0	1	1	0
1	0	1	1	0
0	1	1	1	0
1	1	1	1	0
0	0	0	0	1
1	0	0	0	1
0	1	0	0	1
1	1	0	0	1
0	0	1	0	1
1	0	1	0	1
0	1	1	0	1
1	1	1	0	1
0	0	0	1	1
1	0	0	1	1
0	1	0	1	1
1	1	0	1	1
0	0	1	1	1
1	0	1	1	1
0	1	1	1	1

10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494
15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496
17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498
19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500
21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501
22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502
23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503
24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504
25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506
27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508
29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
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

Technical Specifications
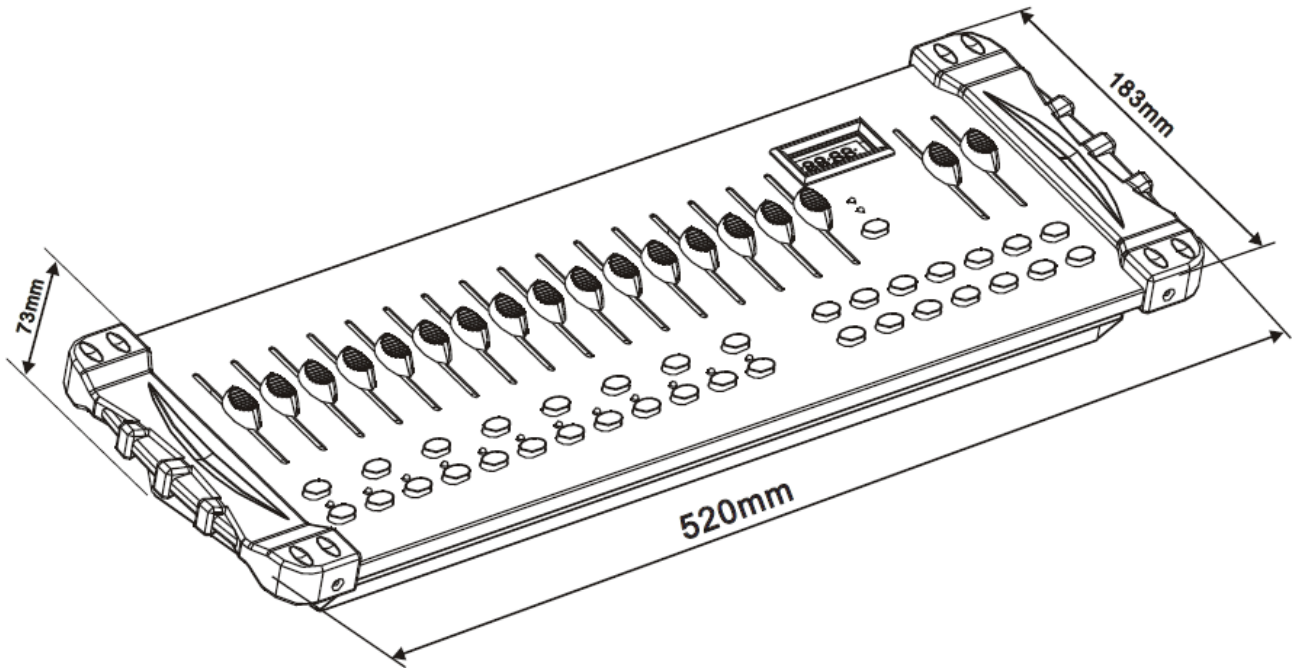
Dimensions……………………………………………………………………………….. 520 X183 X73 mm
Weight…………………………………………………………………………………………… 3.0 Kg
Operating Range……………………………………………………………DC 9V-12V 500mA min
Maximum ambient temperature……………………………………………………………………45 C
Data input ………………………………………………………………. locking 3-pin XLR male socket
Data output …………………………………………………………. locking 3-pin XLR female socket
Data pin configuration …………………………………………………pin 1 shield, pin 2 (-), pin 3 (+)
Protocols………………………………………………………………………..DMX-512 USITT

Documents / Resources

⟪ qtx	**qts DM-X18 3 8 4 Channel DMX Controller** [pdf] User Manual DM-X18, 3 8 4 Channel DMX Controller