

DMX FX512

User Manual

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Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

DOCUMENT VERSION



Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check www.adj.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version >	Notes
04/23/24	1	1.00	Initial Release
03/24/25	1.1	N/C	Update instructions
06/26/25	1.2	N/C	Update Operating Temperatures
08/25/25	1.3	N/C	Updated Dimension Drawings & added USB warning

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

This product is intended for use by professionally trained personnel only, and is not suitable for private use.

Unpacking

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS

DC9V Power Supply

CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs. Also visit forums.adj.com with questions, comments or suggestions.

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
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REPLACEMENT PARTS please visit parts.adj.com



IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.

DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO WARRANTY CLAIMS AND/OR REPAIRS.

LIMITED WARRANTY (USA ONLY)

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, you must obtain a Return Authorization number (RA#) before sending back the product-please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product, if the product has been repaired or service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warrant service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

LIMITED WARRANTY PERIODS

- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty)
Note: 2 Year Warranty only applies to purchases within the United States.
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

SAFETY GUIDELINES

This device is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. OBSIDIAN CONTROL SYSTEMS is not responsible for injury and/or damages resulting from the misuse of this device due to the disregard of the information printed in this manual. Only the original included parts and/or accessories for this device should be used. Any modifications to the device, included and/or accessories will void the original manufactures warranty and increase the risk of damage and/or personal injury.



PROTECTION CLASS 1 – DEVICE MUST BE PROPERLY GROUNDED



DO NOT ATTEMPT TO USE THIS DEVICE WITHOUT BEING FULLY TRAINED ON HOW TO USE IT. ANY DAMAGES OR REPAIRS TO THIS DEVICE OR ANY LIGHTING FIXTURES CONTROLLED BY THIS DEVICE RESULTING FROM IMPROPER USE, AND/OR THE DISREGARD OF THE SAFETY AND OPERATION GUIDELINES IN THIS DOCUMENT VOIDS THE OBSIDIAN CONTROL SYSTEMS WARRANTY, AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS, AND MAY ALSO VOID THE WARRANTY FOR ANY NON-OBSIDIAN CONTROL SYSTEMS DEVICES.

KEEP FLAMMABLE MATERIALS AWAY FROM DEVICE.



DRY LOCATIONS USE ONLY!

**DO NOT EXPOSE DEVICE TO RAIN, MOISTURE, AND/OR SEVERE ENVIRONMENTS!
DO NOT SPILL WATER AND/OR LIQUIDS ON OR INTO THE DEVICE!**

AVOID brute force handling when transporting or operating.

DO NOT expose any part of the device to open flame or smoke. Keep device away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

DO NOT use device in extreme and/or severe environments.

DO NOT operate device if power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged, and does not insert into the device securely with ease. **NEVER** force a power cord connector into device. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.

Strictly use a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection. Use only the provided AC power supply and power cords and the correct connector for the country of operation. Use of the factory provided power cable is mandatory for operation in the US and Canada.

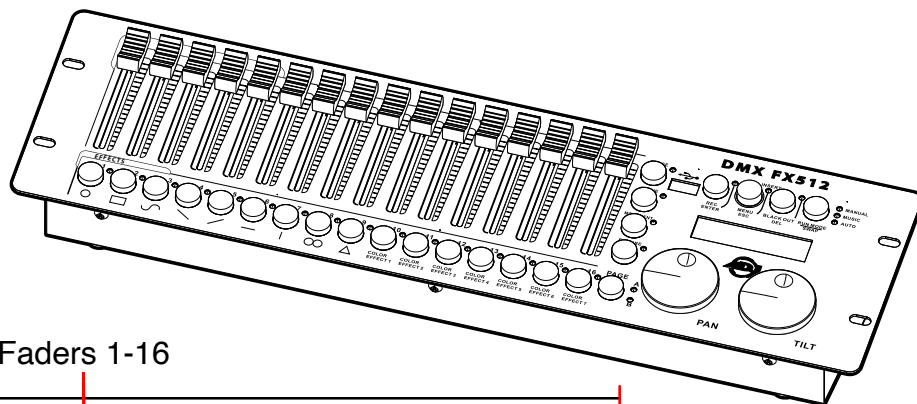
Allow free unobstructed airflow to the bottom and back of the product. Do not block the ventilation slots.

Operate the console only on a stable and solid surface.

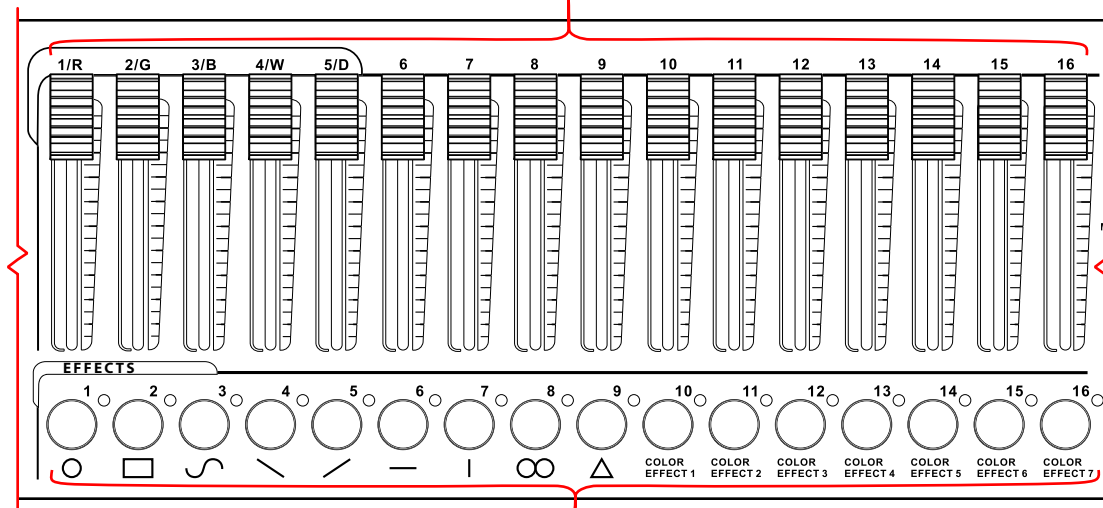
DO NOT use the product if the ambient temperature exceeds 113°F (50°C). Fixture operating range is 40°F to 104°F (4.4°C to 40°C).

ONLY Use the original packaging and materials to transport the fixture for service.

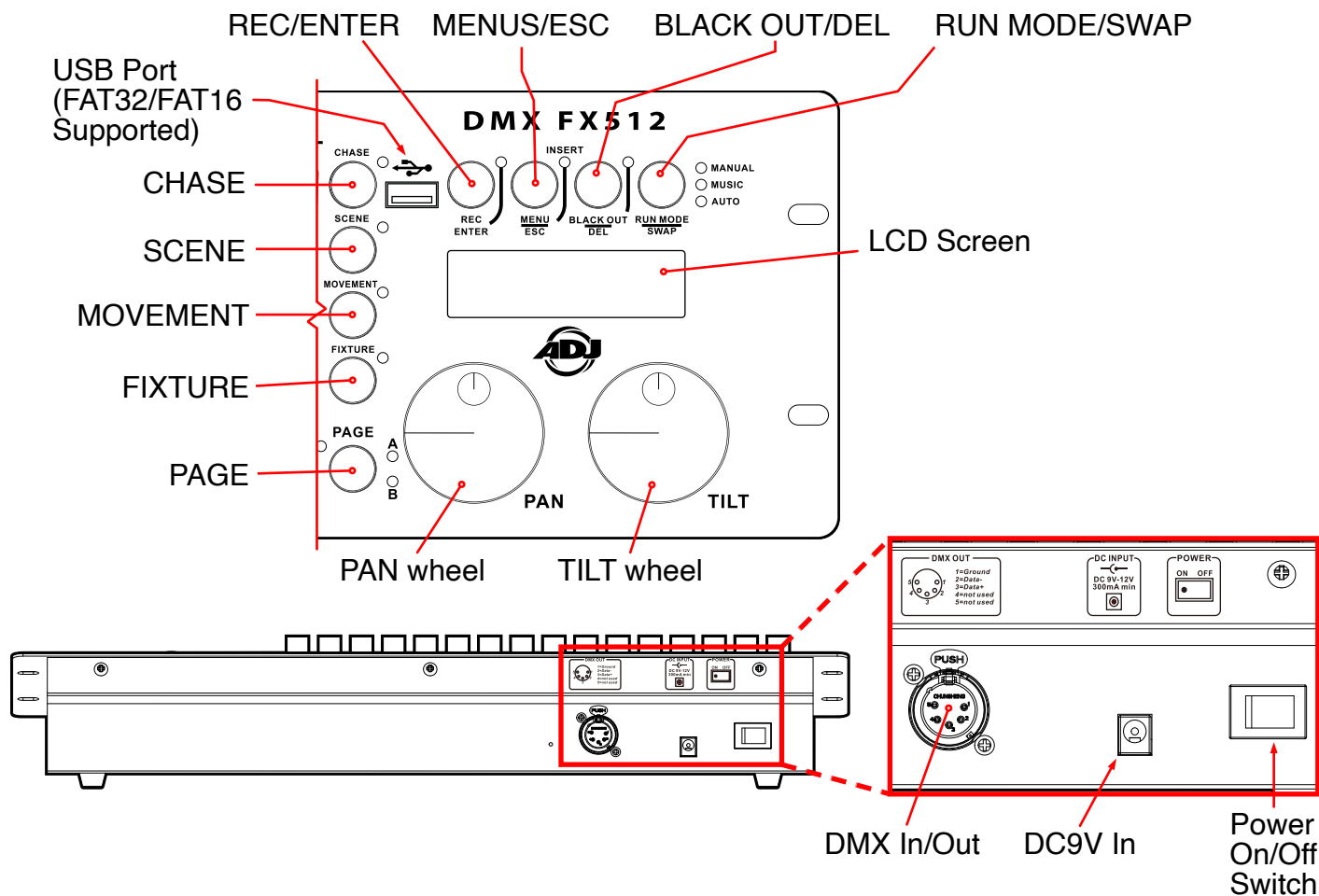
OVERVIEW



Faders 1-16



Number buttons 1-16, with varying functions in different modes



OVERVIEW

FEATURES

- 19" Rack-mount DMX Controller
- DMX 512 & RDM protocol.
- 512 DMX channels.
- Control up to 32 intelligent fixtures, up to 18 channels each
- 32 chases, each up to 100 steps, can run 5 chases simultaneously
- 32 programmable scenes
- Soft-patchable faders & control wheels
- 16 built-in effects generator. 9 for moving light and 7 for RGB LED fixtures
- USB for data backup and firmware update.

The ADJ Lighting DMX FX512 is a cutting-edge 19-inch rack-mount DMX controller designed for professional lighting applications such as churches, nightclubs, stages, or for event production. With a compact 3-rack space design, this tactile, hands-on controller boasts powerful features, for both moving heads and RGB LED fixtures, that elevate the lighting experience for lighting designers and operators on the go or in a fixed installation.

Equipped with DMX-512 and RDM protocols, the DMX FX512 allows precise control of up to 512 DMX channels, managing up to 32 intelligent fixtures with 18 channels each. Create captivating light shows with 32 programmable scenes and 32 chases, each up to 100 steps, running up to 5 chases simultaneously. Soft-patchable faders and control wheels provide flexibility, while 16 built-in effect generators, 9 for moving lights and 7 for RGB LED fixtures, offer dynamic lighting possibilities. Using RDM, you can remotely access and configure DMX addresses and channel modes for your fixtures, eliminating the need for physically reaching each device. This not only saves you valuable time during setup but also ensures a hassle-free and error-free address assignment process.

The control interface is intuitive, featuring a digital display, 16 channel control faders, dedicated Pan/Tilt wheels, and 16 Effects/Fixture select buttons. The built-in Mic with digitally adjustable sound sensitivity enhances the interactive experience. Connect effortlessly with 5-pin XLR DMX Output. A USB port is on the front panel designed for data backup and firmware updates.



WARNING: Do not use a USB drive with important data for DMX FX512 memory backup, as the process will erase all contents on the drive; use a blank or dedicated drive instead.

Compact and lightweight, the DMX FX512 measures 5.28" x 19" x 2.71" and weighs only 4.7lbs. It has rubber feet and can be used freely on a front of house design desk without being rack mounted.

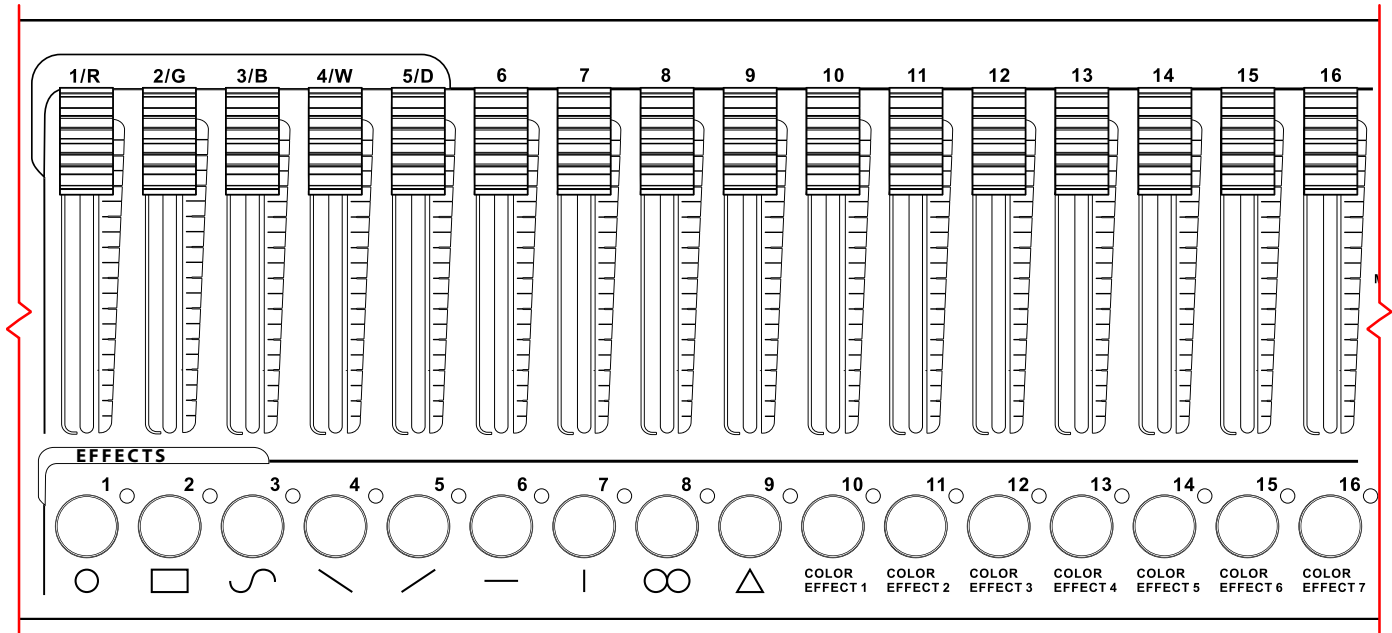
CONTROLS AND OPERATION GUIDE

NUMBER BUTTONS:

In **CHASE** mode, press a number button to activate or deactivate the chase. In **SCENE** mode, press a number button to activate or deactivate the scene. In **MOVEMENT** mode, press a number button to activate or deactivate the movement. In **FIXTURE** mode, press a number button to select or deselect a fixture.

FADERS:

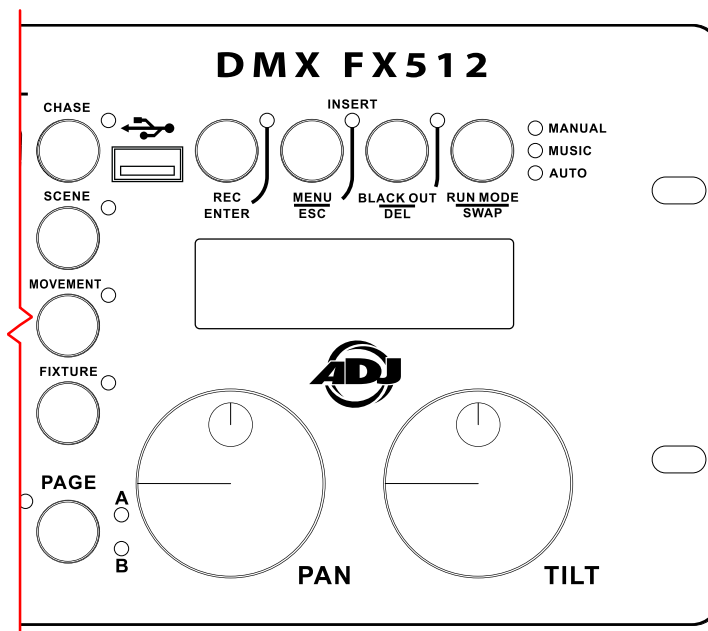
In **FIXTURE** mode, slide a fader to adjust the DMX output value.



PAN/TILT WHEELS:

These controls have alternate functions in different modes:

- In **CHASE** mode, the **PAN/TILT** wheels adjust the chase speed and time respectively.
- In **SCENE** mode, nothing is defined in the **PAN/TILT** wheels.
- In **MOVEMENT** mode, **PAN/TILT** wheels adjust the **MOVEMENT** parameters.
- In **FIXTURE** mode, the **PAN/TILT** wheels adjust the output values of **PAN/TILT**.
- Default setting: Pan Wheel is assigned to Channel 1, and Tilt Wheel is assigned to Channel 2.



CONTROLS AND OPERATION GUIDE

PATCH FIXTURES AND FADERS:

Before using your DMX FX512, you must patch the DMX address code of fixtures and the faders.

Default fixture patch settings

Default fixture patch settings

Page	Fixture	DMX Start Address	Page	Fixture	DMX Start Address
A	1	001	B	17	289
	2	019		18	307
	3	037		19	325
	4	055		20	343
	5	073		21	361
	6	091		22	379
	7	109		23	397
	8	127		24	415
	9	145		25	433
	10	163		26	451
	11	181		27	469
	12	199		28	487
	13	217		29	505
	14	235		30	(Blank)
	15	253		31	(Blank)
	16	271		32	(Blank)

Default fixture patch settings

Fader	DMX Channel	Fader	DMX Channel	Fader	DMX Channel
PAN	1	5/D	7	11	13
TILT	2	6	8	12	14
1/R	3	7	9	13	15
2/G	4	8	10	14	16
3/B	5	9	11	15	17
4/W	6	10	12	16	18

In the above table, R represents Red, G represents Green, B represents Blue, W represents White, and D represents Dimmer. The starting address of a fixture + the fader position - 1 equals the DMX address.

For example, in the default fixture patch setting, the PAN DMX address is 1 for Fixture 1, and the PAN DMX address is 19 for Fixture 2. You can change the address of fixtures and the fader as needed. Before controlling a fixture without RDM function, you must set a DMX address code to the fixture. Then, in the DMX FX512, you need to patch the DMX start address of the fixture accordingly.

Note: The default setting assigns the Pan Wheel to Channel 1, and the Tilt Wheel to Channel 2.

For example, if you are patching a moving head, you must assign the pan/tilt channels of the moving head to the PAN/TILT wheels on the DMX FX512 if you want to change its default setting. If you are patching an LED fixture, you must assign the Red, Green, Blue, White, and Dimmer channels to the corresponding faders. The DMX FX512 will then be able to run the built-in movements and fade in/out effects with the patch setting.

CONTROLS AND OPERATION GUIDE

MENU OPERATIONS:

Enter/Exit Menu

To enter or exit the Menu mode, hold the **MENUS** button for 2 seconds. The available menu options are as follows:

1. **"01. Patch fixture,"** used to assign starting addresses and channel positions for fixtures.
2. **"02. Reset factory,"** used to restore the factory settings.
3. **"03. Delete all Fixture patch,"** used to delete all patch settings.
4. **"04. Fade mode,"** used to set the fade time mode.
5. **"05. RDM DMX Address setup,"** used to enable RDM functions.
6. **"06. Data back up,"** used to back up data to a USB memory stick.
7. **"07. Data load,"** used to load data from a USB memory stick.
8. **"08. Send fixture Update file,"** used to send the fixture update code.
9. **"09. Black-out mode,"** is used to set all channels—or only the dimmer channels—to zero.

Use the **PAN** wheel to navigate between the menu options.

Menu Option: "01. Patch fixture":

1. Rotate the **PAN** wheel to locate **"01. Patch fixture,"** and press **ENTER** to confirm.
2. Select a fixture; only one fixture can be selected at a time.
3. Press **SWAP** to switch between the four settings: **DMX START ADDRESS**, **FADER CHANL**, **FADER REVERSE**, and **COLOR FADE**.
4. In **"DMX START ADDRESS,"** rotate the **PAN** wheel to adjust the DMX start address. Press **ENTER** to save, or press **DEL** to delete the existing DMX start address.
5. In **"FADER CHANL,"** rotate the **PAN** wheel to select a fader name within **"PAN"** to **"16."** Rotate the **TILT** wheel to adjust the address of the corresponding DMX channel within 1-40. Press **ENTER** to save the patching, or press **DEL** to delete the existing patching.
6. In **"FADER REVERSE,"** rotate the **PAN** wheel to select a fader name within **"PAN"** to **"16."** Rotate the **TILT** wheel to select **YES** or **NO**; **YES** means to set the corresponding channel reverse, and **NO** means inverse. Press **ENTER** to save the setting.
7. In **"COLOR FADE,"** you can enable or disable the fade in/out time of the fixture's color channels. Rotate the **PAN** wheel, select **YES** or **NO**; **YES** means to enable, and **NO** means to disable. Press **ENTER** to save the settings.
8. To copy a patched fixture to a new fixture, press and hold the number button of the patched fixture, then press the number button of the new fixture. Press **ESC** to exit patch setting. The settings of **"DMX START ADDRESS" + "FADER CHANL" - 1 = FADER DMX ADDRESS**.

For example: **FIXTURE 1** is set to 11 as its DMX start address and its 1/R fader channel is set to 1. Move the 1st fader (1/R of **FIXTURE 1**), the output of the 11th DMX channel will be changed. If **FIXTURE 1** is set to 11 as its DMX start address, and its 1/R fader channel is set to 10, move the 1st fader (1/R of **FIXTURE 1**), the output of the 20th DMX channel will be changed. While in patching mode, if a **"I"** mark appears on the LCD display, it indicates an overlap in the patching of DMX channels. This should be corrected to avoid errors in the DMX output.

CONTROLS AND OPERATION GUIDE

MENU OPERATIONS:

Menu Option: “02. Reset Factory” (to restore factory settings):

1. Rotate the **PAN** wheel to locate “02. Reset Factory”.
2. Press **ENTER** to confirm.
3. Rotate the **PAN** wheel to select **YES** or **NO**.
4. Press **ENTER** to confirm or press **ESC** to return to the main menu.

Menu Option: “03. Delete All Fixture Patch”:

1. Rotate the **PAN** wheel to locate “03. Delete All Fixture Patch”.
2. Press **ENTER** to confirm.
3. Rotate the **PAN** wheel to select **YES** or **NO**.
4. Press **ENTER** to confirm or press **ESC** to return to the main menu.

Menu Option: “04. Fade Mode”:

1. Rotate the **PAN** wheel to locate “04. Fade Mode”.
2. Press **ENTER** to confirm.
3. Rotate the **PAN** wheel to select **ALL CHANNEL** or **ONLY PAN/TILT**.
4. Press **ENTER** to confirm or press **ESC** to return to the main menu.

Menu Option: “05. RDM DMX Address Setup” (Add the ability to change fixture channel mode via RDM):

1. Rotate the **PAN** wheel to locate “05. RDM DMX Address Setup”.
2. Press **ENTER** to confirm.
3. Rotate the **PAN** wheel to select **YES** or **NO**. If **YES** and you press **ENTER**, you will enter **RDM** operation.
4. DMX FX512 will start searching RDM devices and will show the number of RDM devices.
5. Rotate the **PAN** wheel to select an RDM device. Rotate the **TILT** wheel to adjust the DMX address and channel mode of the RDM device. Press **ENTER** to confirm.
6. Press **SWAP** to switch the information of the selected device. Press **DEL** to verify the selected device.
7. Press **ESC** to return to the main menu.

Menu Option: “06. Data Backup”:

1. Rotate the **PAN** wheel to locate “06. Data Backup”.
2. Press **ENTER** to confirm.
3. Rotate the **PAN** wheel to select **YES** or **NO**. Press **ENTER** to confirm.
4. Press a number button to store the backup file. DMX FX512 can store up to 16 backup files, each assigned to a number button (1-16). If the LED indicator of a number button is on, it indicates a backup file is present in that position.
5. Press **ESC** to return to the main menu.

WARNING: Do not use a USB drive with important data for DMX FX512 memory backup, as the process will erase all contents on the drive; use a blank or dedicated drive instead.

Menu Option: “07. Data Load”:

1. Rotate the **PAN** wheel to locate “07. Data Load”.
2. Press **ENTER** to confirm.
3. Rotate the **PAN** wheel to select **YES** or **NO**. Press **ENTER** to confirm.
4. Press a number button to load the backup file. DMX FX512 can store up to 16 backup files, each assigned to a number button (1-16). If the LED indicator of a number button is on, it indicates a backup file is present in that position.

Menu Option: “08. Send Fixture Update File”:

1. Insert a USB memory stick into the USB port.
2. Rotate the **PAN** wheel to locate “08. Send Fixture Update File”.
3. Press **ENTER** to confirm.
4. Rotate the **PAN** wheel to locate the file to send.
5. Press **ENTER** to start sending the file.
6. Repeat Step 5 to send another file.
7. Press **ESC** to exit.

Menu Option “09. Blackout Mode”:

1. Rotate the **PAN** wheel to select “09. Blackout Mode.”
2. Press **ENTER** to confirm.
3. Rotate the **PAN** wheel to choose “All Channels” or “Only Dimmer.”
4. Press **ENTER** to confirm, or press **ESC** to return to the main menu.

CONTROLS AND OPERATION GUIDE

MANUALLY CONTROL FIXTURES:

1. Press **FIXTURE** to activate the fixture mode (indicator on).
2. Select the desired fixtures with the number buttons (1-16) and the **PAGE** button (PAGE A: 1-16, PAGE B: 17-32).
3. Adjust the DMX output values by moving the faders and/or wheels. In Step 2, the user can select fixtures individually or in groups. For example, to select fixtures 1-8, press and hold the number button 1 and then press the number button 8. The same method applies to deselecting fixtures.

NOTE: When you press the **BLACKOUT/DEL** button for 2 seconds, the controller will clear the **FADER** value to zero.

MOVEMENT

There are 16 built-in movements, including 9 for moving heads and 7 for LED fixtures. Before running a movement, ensure all fixtures are correctly patched. (Refer to “01. Patch fixture.”)

1. Press **FIXTURE** to activate the fixture mode (indicator on).
2. Select the desired fixtures with the number buttons (1-16) and the **PAGE** button (PAGE A: 1-16, PAGE B: 17-32).
3. Press **MOVEMENT** to activate the movement mode.
4. Select a desired movement using the number buttons (1-16). Movements 1-9 control the pan/tilt movement of moving heads. “**MOVEMENT RANGE**” is adjustable from 0-100%; “**MOVEMENT OFFSET**” is adjustable from 0-255; “**MOVEMENT SPEED**” adjusts the movement speed, and “**DELAY LEVEL**” adjusts the delay level between fixtures. Press **SWAP** to switch between the adjustable parameters. Movements 10-16, which are non-adjustable, are for R/G/B effects of LED fixtures. You can simultaneously play at least one pan/tilt movement and one color movement for the same fixture.

EDITING

To activate or deactivate Editing mode, press and hold **REC** for 2 seconds.

1. Scene Editing: You can edit channels and movements in a scene using the following steps:
 - Activate Editing mode.
 - Press **FIXTURE** (indicator on).
 - Select the desired fixtures with the number buttons (1-16) and the **PAGE** button (PAGE A: 1-16, PAGE B: 17-32).
 - Adjust the DMX output values by moving the faders and/or wheels. You can also include movements.
 - Press **REC** to prepare for saving.
 - Press **SCENE**, then press a number button to save the scene. There are two pages (Page A and B) to save scenes. Once a scene is saved successfully, all the LED indicators will blink three times.
 - Repeat steps 3-6 to edit another scene.
2. Chase Editing: You can edit channels, scenes, and movements in a chase with these steps:
 - Activate Editing mode.
 - Press **CHASE** (indicator on).
 - Select a number button for the chase.
 - Adjust the DMX output values by moving the faders and/or wheels. You can also include scenes and/or movements.
 - Press **REC** to save the current step.
 - Repeat steps 4-5 to edit a new step. You can rotate the **PAN** wheel to browse all the steps. You can also press **INSERT** to insert a step.
 - After editing all the steps, press **CHASE**, then press the number button to save and exit.

RUN SCENES

1. Press **SCENE** (indicator on).
2. Press the number button(s) to activate the desired scene(s).

CONTROLS AND OPERATION GUIDE

RUN CHASES

1. Press **CHASE** (indicator on).
2. Press the number button(s) to activate the desired chase(s). A maximum of 5 chases can be output simultaneously.
3. Press **RUN MODE** to select a run mode:

- **AUTO**: Chases run in the sequences of the numbers.

NOTE: When you press **MENU/ESC** twice, the controller will use the time interval between the two presses as the speed of the **CHASE**.

- **MANUAL**: Rotate the PAN wheel to run step by step, forward or backward.
- **MUSIC**: The chases will be activated by sound. To adjust the sensitivity of sound activation in **MUSIC** mode, press and hold, then rotate the **TILT** wheel. When two or more chases are running simultaneously, the chase that is adjustable will show a blinking LED indicator. To adjust another chase, press the corresponding number button for 2 seconds until its LED indicator blinks. Then, it is ready for adjustment. The last activated chase will always be the one that is adjustable. Rotate the PAN wheel to adjust the wait time; Rotate the **TILT** wheel to adjust the fade time.

COLOR CHANNELS FADE IN/OUT TIME:

Press the **FIXTURE** button to turn on the indicator. Then, press and hold the **FIXTURE** button while rotating the **PAN** wheel to adjust the fade in/out time of the color channels. Each fixture can be set individually with fade in/out times. The fade in/out time can be enabled or disabled (refer to “**01. Patch fixture**”).

FIRMWARE UPDATE

1. Create a folder named ‘**DMX FX512**’ in the root directory of your USB memory stick.
2. Copy the update file ‘**DMX FX512.upd**’ to the folder.
3. Insert the USB memory stick into the USB port on the DMX FX512.
4. Power off the DMX FX512.
5. Press and hold **REC**, **BLACK OUT**, and **RUN MODE** simultaneously.
6. Power on the DMX FX512 and wait for about 3 seconds until the LCD display shows ‘**PRESS ANY BUTTON TO UPDATE.**’
7. Release **REC**, **BLACK OUT**, and **RUN MODE**.
8. Press any button to start the update.
9. Once the update is complete, power off the DMX FX512 and power it on again. The updated firmware is now in service.

DMX SETUP

DMX-512:

Digital Multiplex, or DMX, serves as a universal protocol utilized by most lighting and controller manufacturers for communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is transmitted as serial data, traveling from fixture to fixture through the DATA 'IN' and DATA 'OUT' XLR terminals found on all DMX fixtures. Most controllers only have a DATA 'OUT' terminal.

DMX LINKING:

As a language, DMX enables all makes and models from different manufacturers to be connected and operated from a single controller, provided that all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission when using multiple DMX fixtures, use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not affect the DMX addressing. For example, a fixture assigned a DMX address of 1 can be placed anywhere in a DMX line—at the beginning, at the end, or anywhere in the middle. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. When a fixture is assigned a DMX address of 1, the DMX controller knows to send data assigned to address 1 to that unit, regardless of its position in the DMX chain.

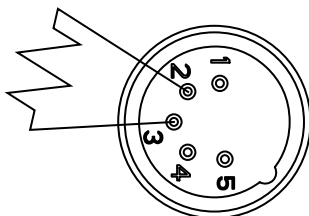
DATA CABLE (DMX CABLE) REQUIREMENTS:

The DMX FX512 can be controlled via the DMX-512 protocol. The DMX address is electronically set using the controls on the front panel of the unit. Both the unit and the DMX controller require an approved DMX-512 110 Ohm Data cable for data input and output. Accu-Cable DMX cables are recommended. If you are making your own cables, ensure that you use standard 110-120 Ohm shielded cable (which can be purchased at most professional sound and lighting stores). Cables should be made with a male and female XLR connector on either end of the cable. Additionally, keep in mind that DMX cable must be daisy-chained and cannot be split.



LINE TERMINATION:

When using longer runs of cable, one may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4-watt resistor, which connects between pins 2 and 3 of a male XLR connector (DATA + and DATA -). Insert this unit into the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface periodically with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life.

There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

Please refer to the following points during routine inspections:

- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing as deformations in the housing could allow for dust or liquids to enter into the device.
- Electric power supply cables must not show any damage, material fatigue, or sediments.
- **NEVER** remove the ground prong from the power cable.

SPECIFICATIONS

Features:

- 19" Rack-mount DMX Controller
- DMX 512 & RDM protocol.
- 512 DMX channels.
- Control up to 32 intelligent fixtures, up to 18 channels each
- 32 chases, each up to 100 steps, can run 5 chases simultaneously
- 32 programmable scenes
- Soft-patchable faders & control wheels
- 16 built-in effects generator. 9 for moving light and 7 for RGB LED fixtures
- USB for data backup and firmware update.

Control:

- DMX512 and RDM
- RDM to set the DMX addresses and DMX channel mode of the fixtures from controller
- 16 channel control faders
- Dedicated Pan/Tilt wheels (User Assignable)
- 16 Effects / Fixture select buttons
- Sound sensitivity digitally adjustable (0%-100%), built-in Mic.
- With Wired Digital Communication Network

Connections:

- 5pin XLR DMX Output
- Power Supply Input
- USB A Port

Operational Conditions:

- Use in dry location only
- Min. ambient temperature: 32°F (0°C)
- Max ambient temperature: 104°F (40°C)
- Humidity: <75%
- Allow 6" minimum between this controller and surrounding devices or wall

Storage Conditions:

- Store in a dry location
- Ambient storage temperature: 77°F (25°C)

Power:

- Power Supply: DC9V`12V 300mA min. (DC9V 1A PSU Included)
- Power Consumption: DC9V 165mA 1.5W, DC12V 16mA 2W

Dimensions & Weight:

- Length: 19" (482mm)
- Width: 5.2" (131mm)
- Height: 3.4" (87mm)
- Weight: 4.7lbs.(2.13kg.)

Certifications & Rating:

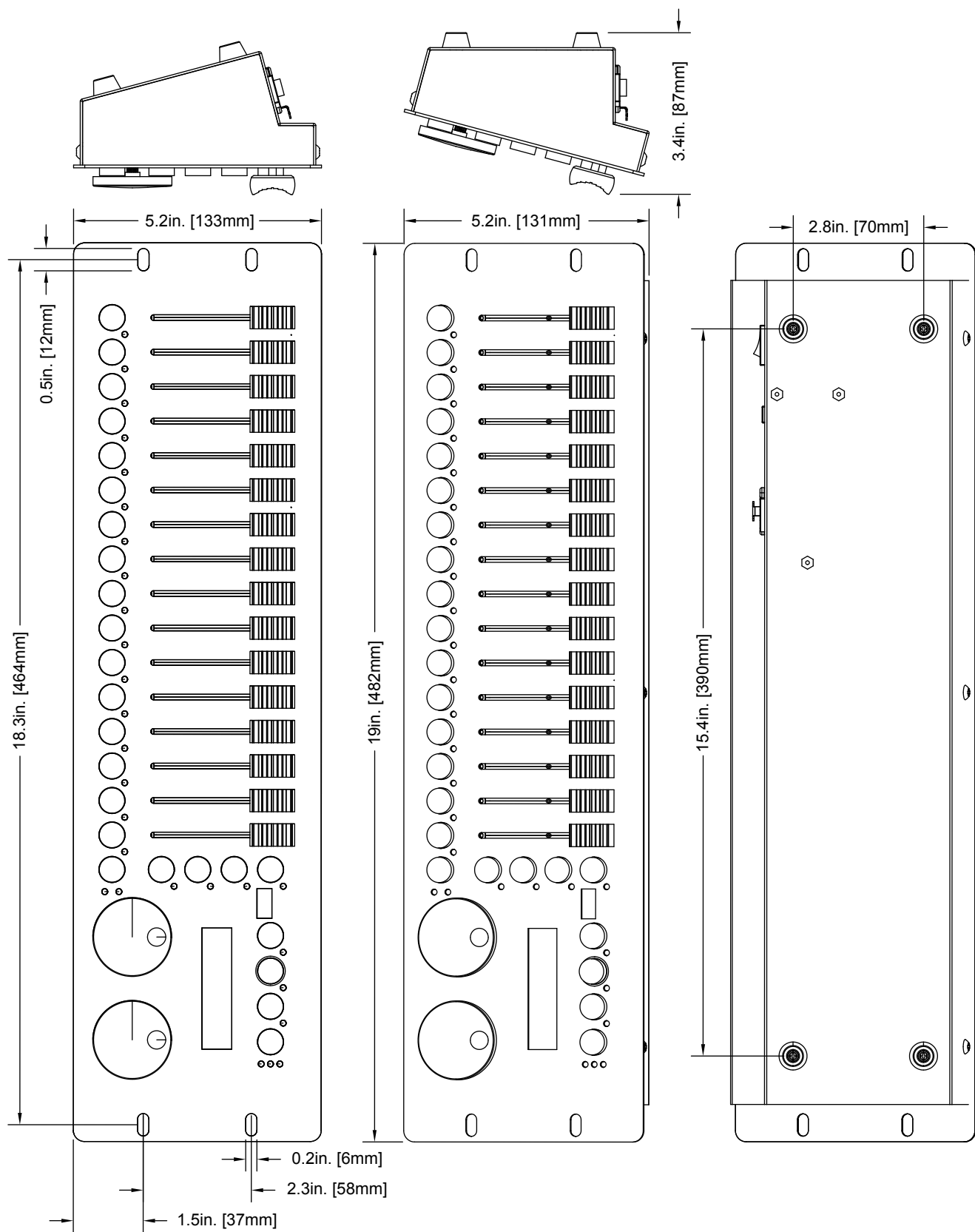
- CE, cETLus (Pending), IP20



Specifications are subject to change without notice.

DIMENSION DRAWINGS

Drawings not to scale



OPTIONAL ACCESSORIES

ORDER CODE		ITEM
US	EU	
DMX512	1322000064	DMX FX512
TOU027	N/A	5 ft. (1.5m) 5pin PRO DMX Cable
		Additional Cable Lengths Available



FCC STATEMENT

Changes or modifications not expressly approved by the manufacturer may void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the user manual, it may cause harmful interference, and the user must correct the interference at their own expense. This equipment is intended for use in commercial environments, not residential settings.

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

