

Preface

The TEKMAND D is a brand-new lighting controller. It is one of the small, light-weight, solid and easy-to-take lighting controllers. The controller is integrated with several technologies, like software and net work. The combination of capacitive touch screen control and button function makes it possible to realize complex real-time control just by simple operation. The programming, input ,play and the simple lighting effects can be viewed by the in-built analog stage module. Off-line programming is also available, saving lots of time and improving working efficiency.

The controller itself can deal with 4096 parameters. By connecting with extended device, it can control every kind of lighting equipment, such as regular fixtures, moving heads, LEDs, videos, digital media lights, etc. With top technology, it is suitable for every kind of events.

★ Declaration

This product has passed the final check for both functionalities and ackage when doelivered from the factory. All users should observe theinstructions and pay attentions to the warnings covered by this manual.Unreasonable damages resulting from unintended operations or not heeding instructions covered dy this manual will void the warranty. Specifications in this manual intend for reference only, the fixture delivered takes the priority. Any future modification pertaining to content of this manual, there will be no particular notifications. FINE ART reserves all copyrights. To obtain the latest information about software update and other files, please visit FINE ART website.

Content

Safety Information	2
Product Introduction	4
Fixture profile dimension	4
Panel introduction	3
Electric wiring diagram	6
Technical feature	7
Function	7
Technical parameter	7
Other function	8
Package & Delivery	9
Power Connection	9
Hardware Connection	10
Brief introduction	11
Parts Ordering	13

Safety Information

The following symbols are used to identify important safety information on the product and in this manual:



DANGER!
Hazardous voltage.
Risk of severe or lethal electric shock.



DANGER!
Safety hazard.
Risk of severe injury or death.



DANGER!
Refer to manual before installing, powering or servicing.



Warning!
Fire hazard.



For indoor use only

$t_a \dots \text{°C}$

Rated maximum ambient temperature

Safety :



1. Read this Manual before mounting and energizing the console.
2. Follow safety guidelines and observe the warnings on this manual and the console.



$t_a = 40\text{°C}$

3. This product is intended for indoor use only, protective rating: IP20.
4. Maximum working ambient temperature shall not exceed 40 °C, if the temperature exceeds the limit, shut down the console immediately.



5. Do not block or barrier the vents in the base housing, otherwise failure may present due to overheat.



6. Keep the device off from water or other liquids.
7. Place the console on a steady table so as to prevent damages arose by falling.



8. Do not insert any objects through the slots in the base housing as the internal circuitry and components may be damaged, causing fire or electric shock hazards.

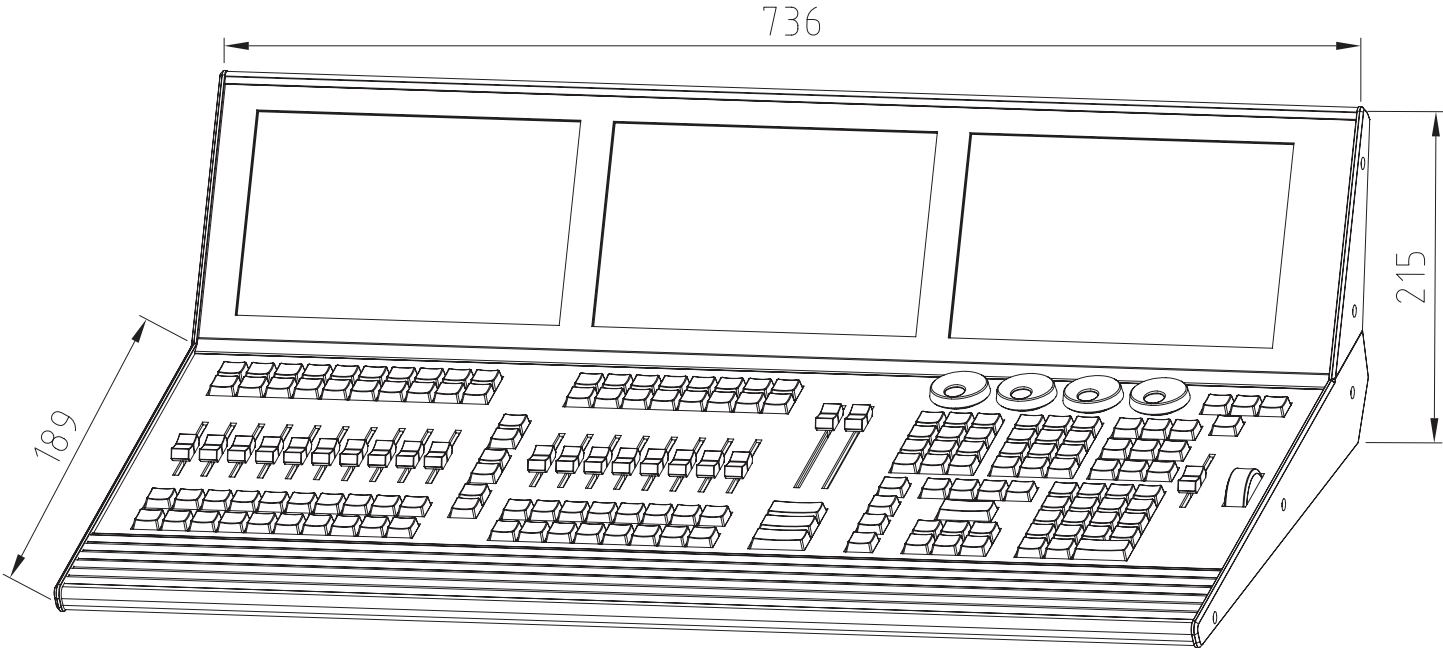


9. Avoid using powerful communication devices in close proximity to the controller.
10. Keep the device dry and avoid usage at the presence of damp, over-heat and heavy smoke environment.
11. Use power cables with safety marks.
12. If any power cable or plug is damaged, replace it by qualified personnel.
13. If an extending cable is added, make sure the nominal output levels of the consoles connected to that cable are within the maximum output level of the cable.
14. Do not place any hard object on the power cable, or it may ruin the cable sheath.
15. The console has been provided with plugs intended to match specific sockets. If the sockets used do not match with all plugs, replace these sockets by electricians. Do not ignore the safety function of the grounding pin of these plugs.

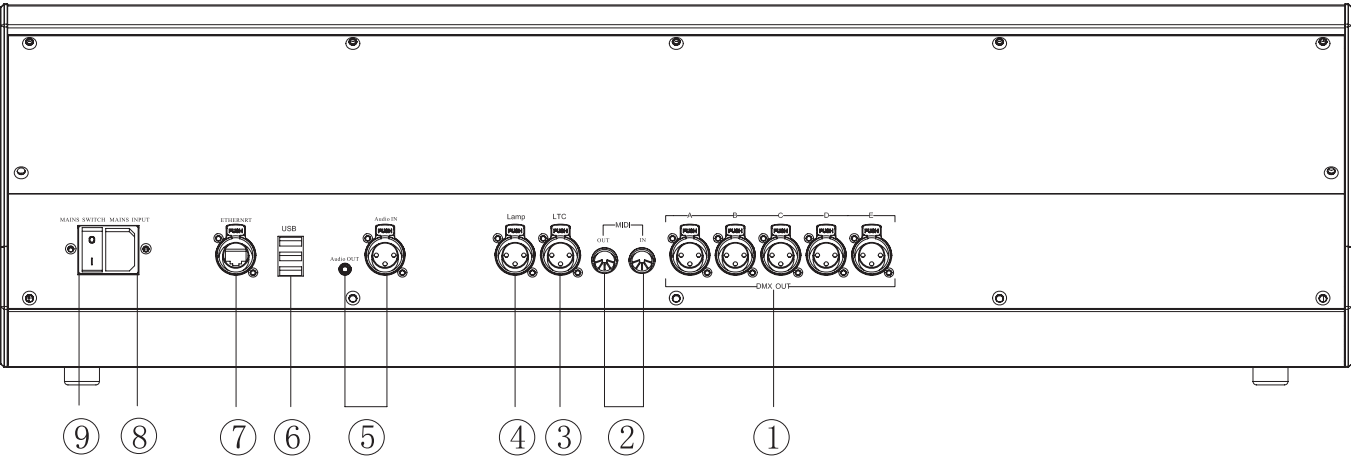
16. Disconnect the power plug before cleaning the console. Liquid cleaning agents or detergents should not be used by spraying but with a cloth.
17. Disconnect the mains supply before transporting the console.
18. Do not replace with any parts not provided by the factory.
19. Pull off the power plugs in case of thundering or not in use for a long time.
20. All servicing should be left to qualified personnel. In cases such as power plug damages, liquids invasion, or drenched in damp air, the console may fall and electric shock may present.
21. Any safety concerns not covered hereby, contact the distributor or service hot-line.
22. For those pluggable equipments: the socket should be installed near them and easily touched.

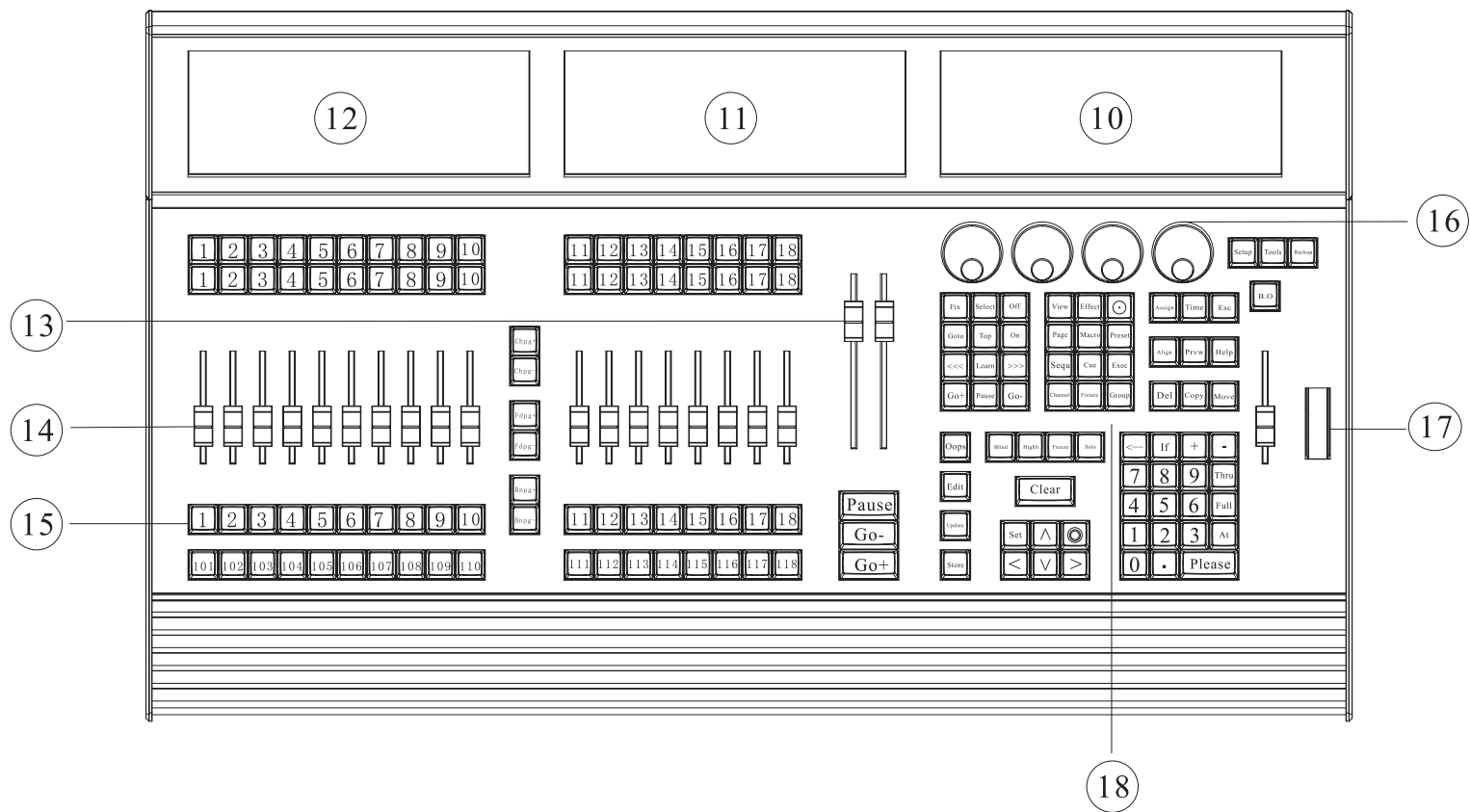
Product Introduction

Dimension



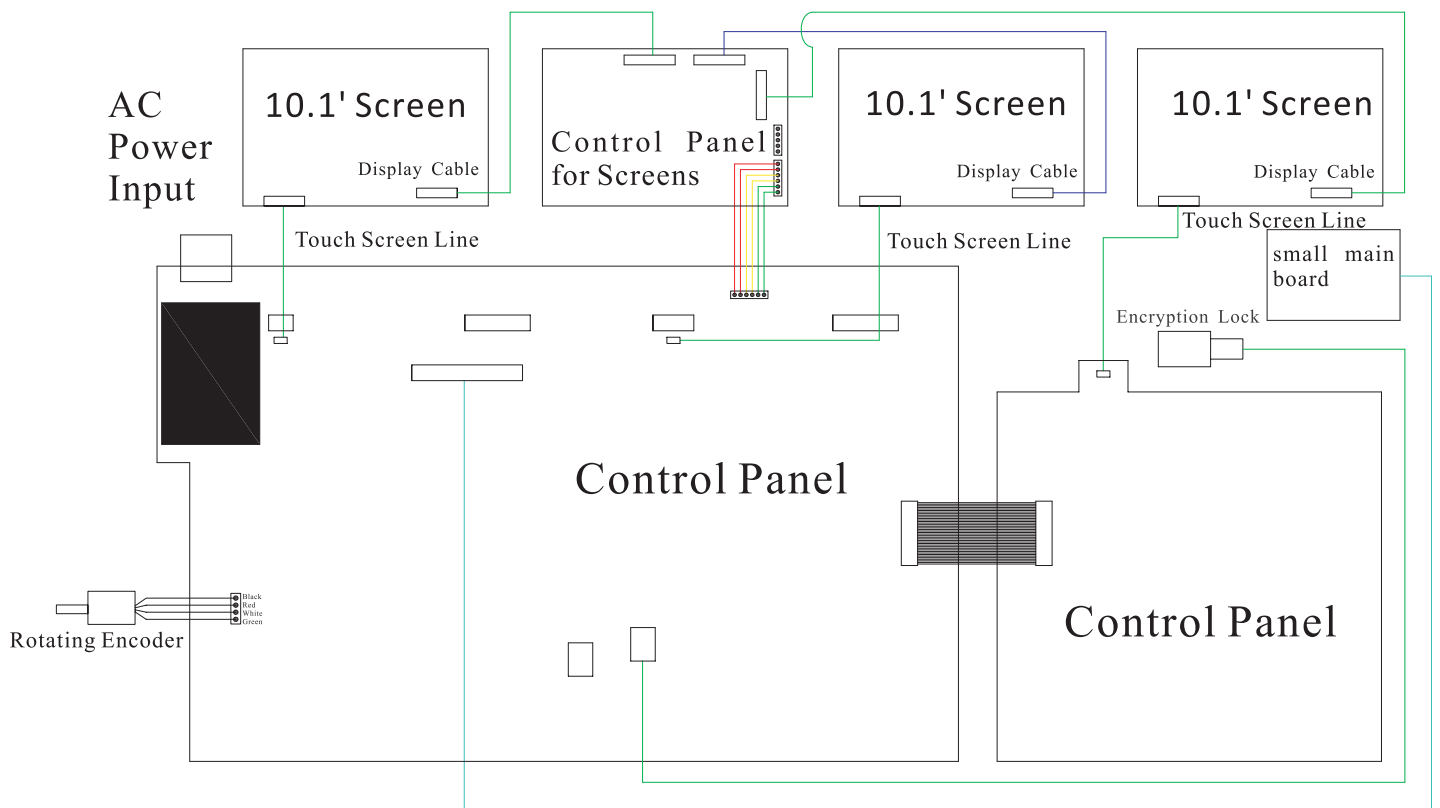
Panel introduction





- ① DMX Outputs (5pcs DMX outputs, for connecting to other devices)
- ② MIDI In/Out (for connecting to proper MIDI devices)
- ③ LTC Input (for connecting to other Medias)
- ④ Lamp Input (for connecting to LED lamp to illuminate the controller)
- ⑤ Audio In/Out (for connecting to audio devices)
- ⑥ USB (for connecting to devices with USB interface)
- ⑦ Ethernet (for the controller's own network, available to connect to other controllers and DPU)
- ⑧ Power Input (for power cable)
- ⑨ Power Switch (press this button to switch on the controller)
- ⑩ Right Screen (LCD touch screen)
- ⑪ Middle Screen (LCD touch screen)
- ⑫ Left Screen (LCD touch screen)
- ⑬ General Executor (for controlling and executing stored content, function can be customerized)
- ⑭ Fader Executor (for controlling and executing stored content, function can be customerized)
- ⑮ Number Executor (for controlling and executing stored content, function can be customerized)
- ⑯ Property Rotating Wheel (for setting fixtures' properties)
- ⑰ Dimming Rotating Wheel (for adjusting fixtures' brightness quickly)
- ⑱ Order Zone (for executing orders and programming)

Electric wiring diagram



Technical Feature

■ Function Feature

1. real-time control of 4096 parameters (up to 65536 parameters after connecting to Tekmand system)
2. 5 DMX in/out
3. Midi in/out
4. LTC/Smpte input
5. Lamp
6. Audio in/out
7. 3 USB interfaces
8. 1 Ethernet, 1G
9. Built-in 3 * 10.1 inch capacitive touch screen
10. 18 pcs executing faders, 18pcs executor buttons
11. 2pcs A/B faders
12. 1pc dimmer wheel
13. 4 encoders
14. Available to be connected with a working lamp
15. Adjustable backlit button

■ Technical parameter

- 1.Power: AC85-250V, 0.45A,50/60 Hz
- 2.Max power: 27W
- 3.IP: IP20
- 4.Working Temperature: -10~40°
- 5.Dimension: 773x456x218
- 6.Package: carton, 1pc/ctn
- 7.Net weight: 9.3KG

■ Other Functions

- 1.Support several languages (simplified Chinese, Traditional Chinese, English, Japanese, Korea, French)
- 2.Support several input languages (Chinese, English, Korean)
- 3.Brand-new design, easy to understand
- 4.Support several PC backup
- 5.Support LTP&HTP, available to offer ways for switching between LTP & HTP
- 6.Support CITP, available to preview the media sever video
- 7.Support MIDI/LTC (SMPTE) music time code, for the convenience of synchronizing recording and triggering
- 8.Support IOS/ANDROID system
- 9.Powerful and vivid 3D stage animating effect, easy for off-line programming
- 10.Powerful layout, several operation modes are available
- 11.Support several network protocol: Artnet, ACN, etc
- 12.Support several users to operate, each user's permission can be set.
- 13.Support RDM remote control on the fixture
- 14.Built-in media player, clear and smooth play

Note: The remark of “Only adapted in the area that is below the altitude height of 2000m” or similar warning remarks should be pasted in the obvious place on the equipment which can only be used under the altitude height of 2000m, such as the following:




Package & Delivery

1pc/ctn, with pearl cotton, which includes items shown as below:

Name	QTY	Unit
Controller	1	pc
LED lamp	1	pc
Data Cord	1	pc
Power Cord	1	pc
User Manual	1	pc
Warranty Card	1	pc

Power Connection

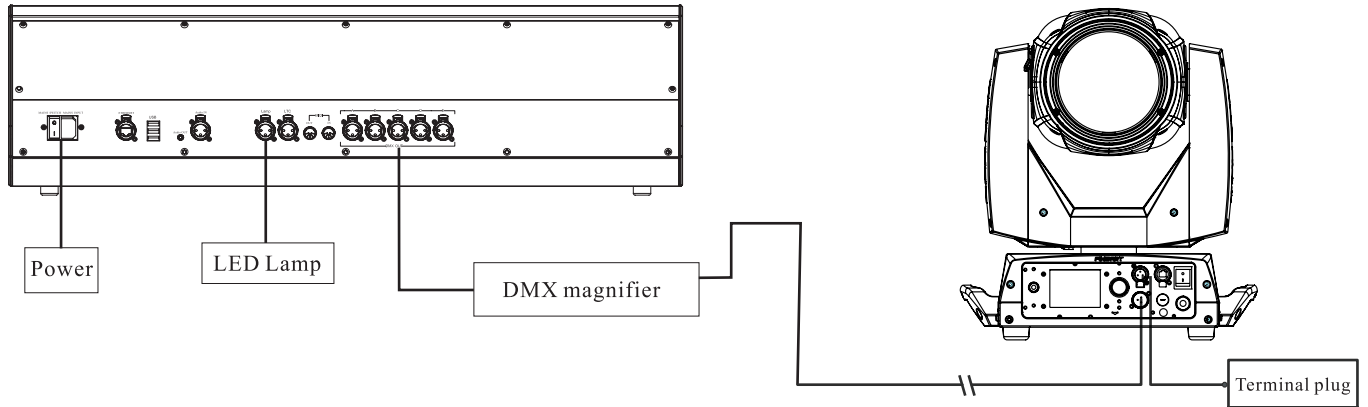
Directly connect the device to the mains supply rather than the silicon box system, otherwise, it will destroy the device. The device has been provided with standard 3-pin XLR connector, refer to the table below for correct wiring. Wherein the yellow/green wire must be adequately grounded. Any confusion about installation, consult electrical technicians. Throw the mains switch on the rear panel to "I" to power up.

Color	Wire	Mark
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

Notice::

1. Power connection should be left for the qualified personnel.;
2. Make sure the supply voltage used matches the rating marked on the device. And overload or leakage protection is necessity.
3. Check the stability conditions of local mains supply, employ a voltage stabilizer if necessary.

Hard Ware Connection



Step:

1. Connect one end of the power cord (3 pin) to the power interface on the panel.
2. Connect the other end of the power cord to the power plug (AC 85-250V, 0.45A, 50/60Hz).
3. Connect the LED Lamp to the LED interface to illuminate the controller.
4. There are 5 DMX interfaces on the panel. Connect one end of the data cords to one of the DMX interfaces while the other end to the DMX magnifier's one end. Connect the other end of DMX magnifier to the fixture.
5. Press the red button to control the command wing after the connection of all cables are finished.

Note: The DMX magnifier can protect the equipment due to high power of some fixture.

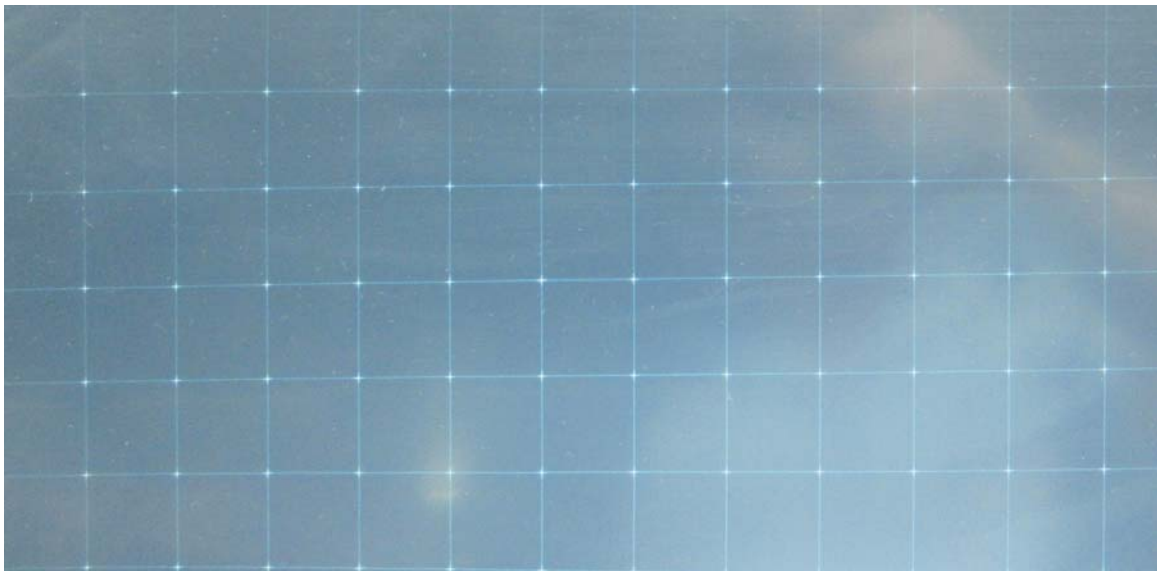
Brief introduction

1. Connect the lighting console to the power and switch on the power. Press SETUP button on the operation panel after 3 screens are on normal display, then the user can operate the console, such as setup, detecting the hardware, correcting the screen, etc.



2. Concept: User interface

The tekmand D's touch screens offer powerful operation interface for the user. The little screens displayed on the controller can show more info. The user can click these little screens to realize different functions. The user defined zone allows the user to manage the windows by themselves.

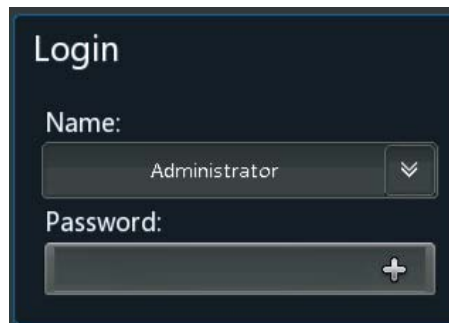


3. Concept: executor

The executor is used to control and executed stored contents. On most cases, most executors are used to connect to sequences and work as a replay tool. The executor can be also used to allocate others, like micro, cue, etc.



1. Press the TOOLS button and a login window will pop up. Then enter user name and password.



Note:

1. The user should read the user manual before operation.
2. The ambient temperature should not exceed 40 ° when using the console. Avoid to use it under the humid or dusty environment.
3. Store it in the clean and dry environment. Keep the power cable in good condition and do not let the power cable crack.
4. Pay attention to heat dissipation after operation for a long time.
5. This manual just offers the basic info. For any other questions, please refer to www.fineart-light.com.

Parts Ordering

NO.	Name	Specification	Parts Code
1	TEKMAND D 2016 display panel	Version A, expansion dimension:765×176mm	110521000978
2	TEKMAND D 2017 display panel	Version A, expansion dimension:765×177mm	110521100978
3	TEKMAND D 2016 operation panel	Version A, expansion dimension:765×253mm	110521100980
4	TEKMAND D 2016 controller base	Version A, expansion dimension:764×352mm	110521100982
5	TEKMAND D 2016 controller rear panel	Version A, expansion dimension:764×171mm	110521000983
6	TEKMAND D 2016 controller right side panel	Version A, expansion dimension:430×210mm	110521100984
7	TEKMAND D 2016 controller left side panel	Version A, expansion dimension:430×210mm	110521101020
8	TEKMAND D 2016 controller lower right panel	Version A, Weight: 0.182KG	110521100223
9	5052-H32 hard aluminum panel 4.0mm (film in single face)	2440×1220×4.0	160301000026
10	TEKMAND D 2016 controller upper right panel	Version A, Weight: 0.063KG	170521000234
11	TEKMAND D 2016 controller lower left panel	Version A, Weight: 0.182KG	170521100235
12	TEKMAND D 2016 controller upper left panel	Version A, Weight: 0.063KG	170521000236
13	0.5w lamp, white light, A-12SLX	12V,0.042A, canon, 4 pin,680*19mm	280203000004
14	Keyboard cover 2 (big)	Version D	380521010080
15	Keyboard cover 1 (small)	Version D	380521010081
16	Encapsulated and electric conducted fader cover	Version C (ABS+ Encapsulated)-94V0	380521010123