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6. MACHINE MAINTENANCE

DISCLAIMER

Please read the manual carefully before installing and using this product. Failure to read or comply with this manual may result in injury to products and personnel, and 181 Spark shall not be responsible for this.

This product is a professional machine, we do not assume any responsibility for accidents or losses caused by the use or maintenance of this product by personnel without training and permission.

This product doesn't contain the accessories beyond this manual which is only applicable to trained and certified technician.

If the manual information or the product specification are changed, 181 Spark will not inform you further, and hold no responsibility for any errors or omissions.

Our company reserves the right to modify the user manual at any time.

PREFACE

Concerning the safe operation of equipment, this manual includes warning, caution and notice with the following icons. Please read them carefully!

WARNING: This warning indicates a dangerous situation that may result in death or serious injury if not avoided.

CAUTION: This alert indicates a warn that may result in mild or moderate injury if not avoided.

NOTICE: This icons indicates a admonitory situation that may affect the performance of product if not avoided.

1.1 PRODUCT INTRODUCTION

This product belongs to sparking special effects equipment, only for professional use.

This product belongs to a newest digital console which can work with special effects, audio and video synchronously. Through multiple networking protocol, it affords serious control,

such as controlling spark machines remotely. This new console achieves more perfect sparking effect for wedding, content, sport events and meeting, etc.

1.1 PRODUCT OVERVIEW

1.2 PRODUCT ACCESSORY

Security Key
Battery
Charger
3 Pin DMX Signal Cable

NOTICE Open the package carefully and make sure all the goods are in good condition.

2 TECHNICAL PARAMETER

Identification	Category	181 CONTROLLER
	Model	181
AC Power	Input Voltage& Rate	12.6V DC
	Nominal Total Power Consumption	5W
	Power Input Connector	12.6V 3A Charger
	Power Output Connector(Daisy Chained)	Controllable Heating
Accessory	Power Cord	Charger
Certification	CE	√
	RoHS	√
Weight	Net Weight	1.75Kg
	Gross Weight	2Kg
Dimensions	Machine Dimension - L*W*H	285*240*105mm
	Packing Dimension - L*W*H	290*290*140mm
Special Effect	Special Effects 1	From Left to Right

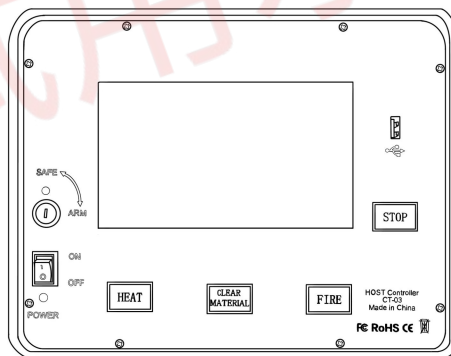
	Special Effects 2	From Right to Left
	Special Effects 3	From Center to Side
	Special Effects 4	From Side to Center
	Special Effects 5	Volley Firing
Control	DMX	√
Technical Parameter	Height	Setting Height Level 1-10
	Continuous Time	0.5 -- 999s
	Sparking Delay	0.5 -- 999s
	Repeat Times	1-99
	Controllable Quantity	1-60units

3 SCREEN OPERATION GUIDE

3.1 PANEL INTRODUCTION

This product has 4 panels according to function:front,left.

3.1.1 FRONT PANEL INTRODUCTION



Explanation for each accessory is as follow:

HEAT: Heat switch

CLEAR MATERIAL: (This function has not been developed.)

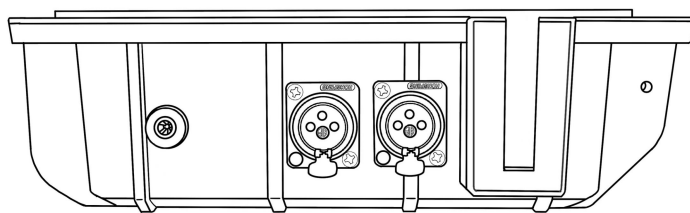
FIRE: Fire switch

SAFE: Machines stop to work

ARM: Machines work normally

ON/OFF: Power switch

3.1.2 LEFT PANEL INTRODUCTION



Explanation for each accessory is as follow:

3 PIN DMX OUT: 3 PIN DMX control signals output

3 PIN DMX OUT: 3 PIN DMX control signals output

Power plug

Explanation for each accessory is as follow:

DC 12V: Charger interface

CAUTION: DC 12V: The required voltage for this interface is 12.6V.

Explanation for each accessory is as follow:

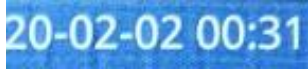
Battery installation location

NOTICE : Unscrew the 4 Allen screws in the small square where can install 6 batteries(18650).

3.2 STATUS ICONS



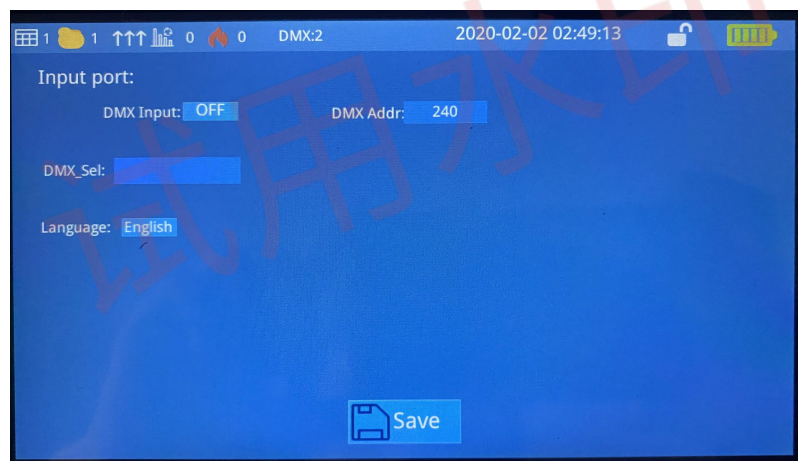
	Current File List
	Current File
	Current File Effect

	Current Sparking Quantity
	DMX Model
	Heating
	Time
	Electric Quantity

3.3 DMX PARAMETER

NOTICE This product has channel 2 and channel 3.

NOTICE Please set the quantity of spark machines before set DMX parameter, each unit can be set 1-60.



* DMX Channel 2 model:

First Channel DMX Value	Function
0	Stop
25	Fountain Height 1
50	Fountain Height 2
75	Fountain Height 3
100	Fountain Height 4
125	Fountain Height 5

150	Fountain Height 6
175	Fountain Height 7
200	Fountain Height 8
225	Fountain Height 9
255	Fountain Height 10
Second Channel DMX Value	Function
0	Preheat Off
15	Emergency Stop (Preheat Off)
255	Preheat On

4. OPERATION NOTES

4.1 WORKING CONDITION REQUIRED

NOTICE Please do not use this console in steamy environment to avoid screen fogging on the surface,

NOTICE Please prevent long-term use of this console in dusty, overheated, wet or chemical environment, otherwise the inside of console will be damaged.

NOTICE Please place it out of strong light environment to extend its life.

NOTICE Please do not use it in enclosed spaces, and keep it in a well-ventilated place.

4.2 SAFETY TIPS

WARNING Please do not knock or scratch the display screen with sharp/pointed hard object to avoid damaging the screen.

WARNING Please do not spill liquid (such as drinks/soups) into the display screen surface to avoid damage to the console.

WARNING Please do not expose the console to rain and moisture to avoid fire or electric shock.

WARNING Please make sure the power cord is not curled or damaged.

WARNING In order to avoid unnecessary wastage and extend the life of the machine, please unplug power during the period of not using.

WARNING The console is a precision electronic equipment, please clean the machine regularly, do not use any chemical cleaner.

WARNING If there is something wrong with shell or wire, please do not operate the product and immediately send the damaged parts to the authorized technician for replacement.

WARNING Do not open the shell to repair, or it may cause serious accident.

WARNING If there is a serious operation problem, please stop using this product immediately.

5.MACHINE OPERATION

5.1 PREPARATION

- * Before using the console, please confirm that the required accessories are all ready.
- * Please prepare the required audio and special effects files in advance.

5.2 MENU SETTING



5.2.1 MONITOR

* Heating.

Press the "HEAT" key, spark machines will enter the heating state, and the heating indicator lights corresponding to spark machines on the screen will appear red.

* Density and height

Density and height can be adjusted through the "DENSITY" and "HEIGHT" push rods under the state of "ON" .

* Lock

Lock the current page by clicking the "Lock" at the bottom of the screen to avoid unnecessary errors.

: Current Tab

: Current file

: Current effect

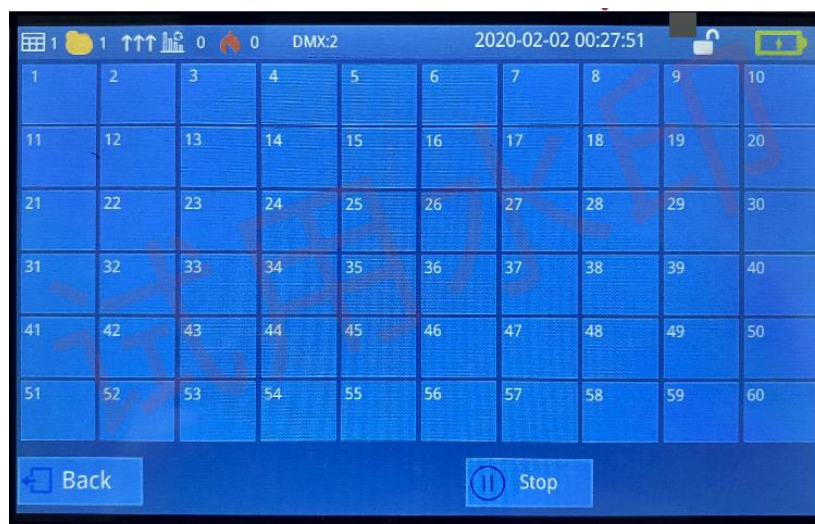
: Numbers of machines connected

: Numbers of machines heating

: DMX model

: Current hour

: Battery status



* Stop all

Click "Stop All" to stop all spark machines to spark.

5.2.3 FILE

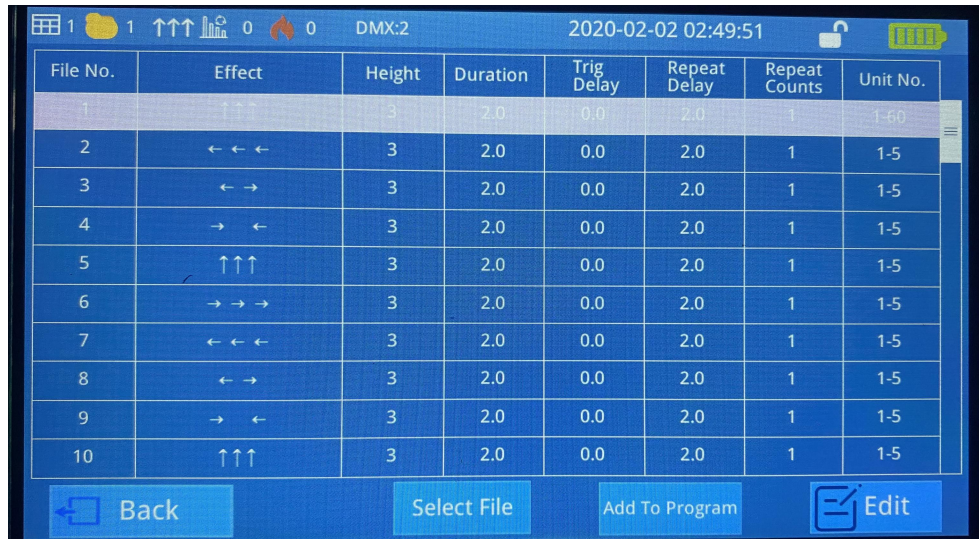
This page can be used to edit or select sparking effects file.(There are 80 effects files in this page for selecting)

* One special effects file

After selecting a special effects file, click "Select file" and press "FIRE"to perform this effects file, or click "Edit" to edit this file in the editing page.

* Multiple special effects files

After selecting multiple special effects files, add these special effects files to the cue stack by clicking "ADD TO PROGRAM" , and perform them with other effects files.



File No.	Effect	Height	Duration	Trig Delay	Repeat Delay	Repeat Counts	Unit No.
1	↑↑↑	3	2.0	0.0	2.0	1	1-60
2	← ← ←	3	2.0	0.0	2.0	1	1-5
3	← →	3	2.0	0.0	2.0	1	1-5
4	→ ←	3	2.0	0.0	2.0	1	1-5
5	↑↑↑	3	2.0	0.0	2.0	1	1-5
6	→ → →	3	2.0	0.0	2.0	1	1-5
7	← ← ←	3	2.0	0.0	2.0	1	1-5
8	← →	3	2.0	0.0	2.0	1	1-5
9	→ ←	3	2.0	0.0	2.0	1	1-5
10	↑↑↑	3	2.0	0.0	2.0	1	1-5

5.2.4 CUE STACK

* Add file.

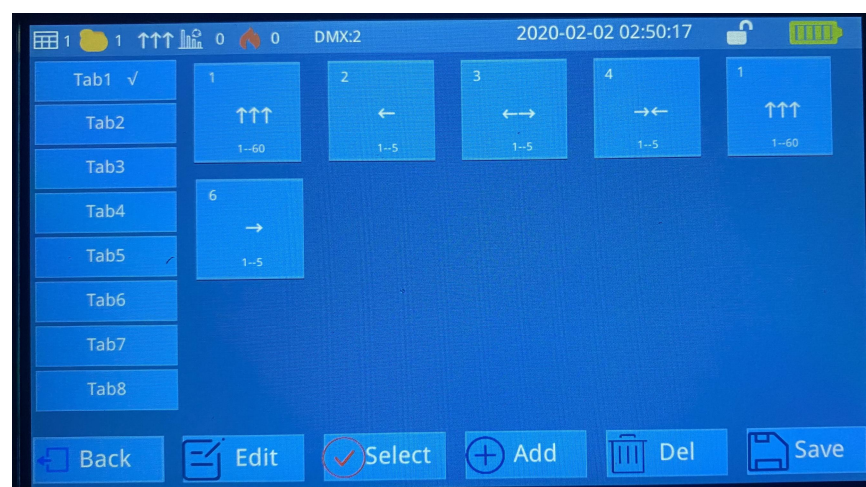
Click "Add" to select one or multiple special effects files in the file page and add them to cue stack. Spark machines will spark from left to right, top to bottom according to effects files' order by pressing "FIRE" button.

* Edit file

After selecting a special effects file, click "Edit" to edit this file in the editing page.

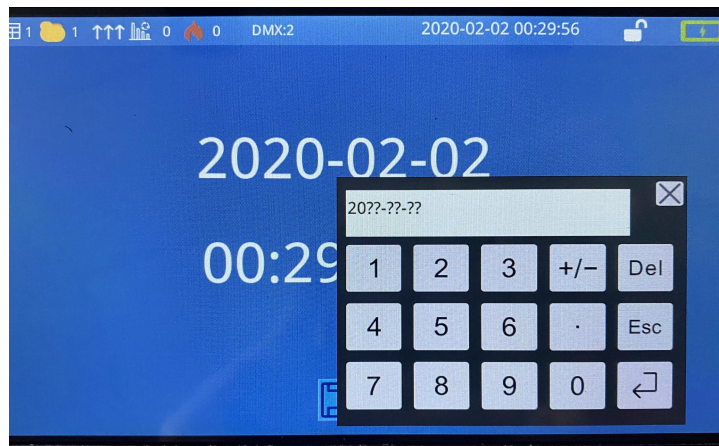
* Delete file

Select one or multiple effects files and click "Lock & select" first, then delete the selected files by clicking "delete".



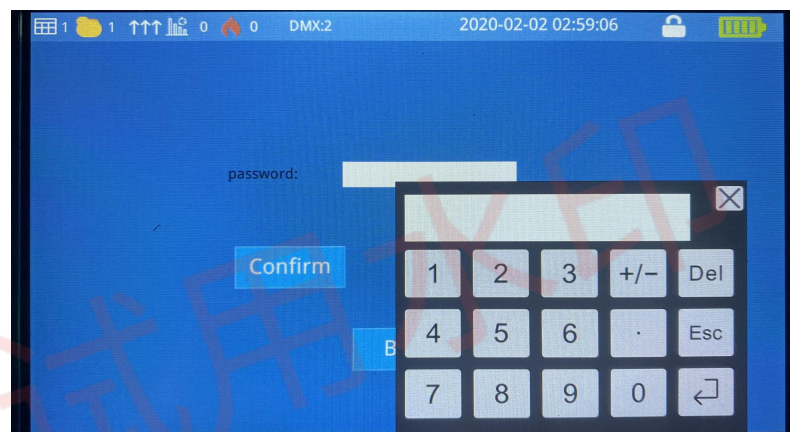
5.2.5 Calendar

The default is the current time, which can be changed by sliding up or down.



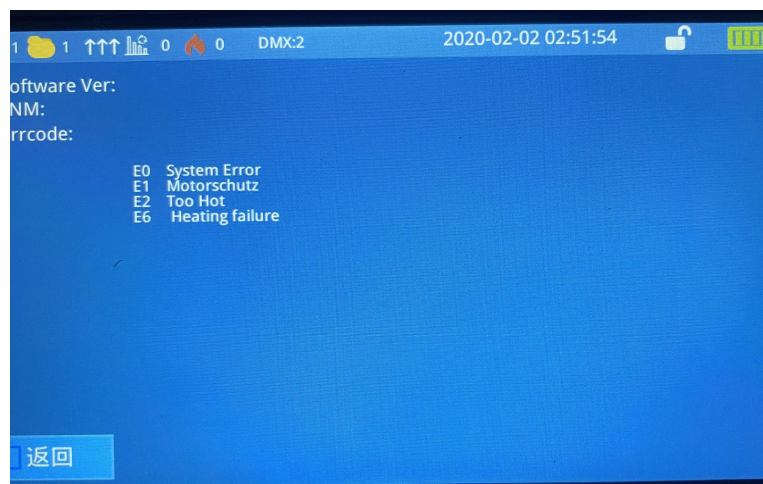
5.2.12 LOCK UP

In case of emergency, the machine can be locked up to stop working.



5.2.13 ABOUT

This product has the function of monitoring the error message of spark machines.



CAUTION If the above error message appears, please contact a professional to solve the problem.

6.MACHINE MAINTENANCE

NOTICE Please disconnect power and remove the battery in the device during storage.

NOTICE Please use dry soft cloth to clean the equipment, and do not wipe the console screen with thinner, spray cleaner or other solvents to avoid damage to the screen or machine.

NOTICE Please put the equipment in a cool, dry, ventilated place to avoid damp, and keep the product away from high temperature environment.

试用水印