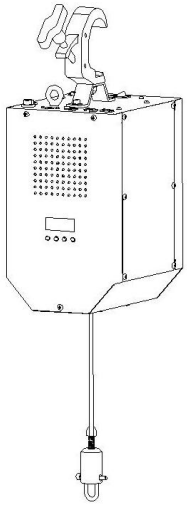
GINYU KINETIC ART WORKSHOP®

User Manual

T15A Model

(Version: 202504)



GINYU KINETIC ART WORKSHOP®
Factory Buliding 401, 4 Building , Langling Industry Zone, No 15 Dongsheng Road,
Xinya Street, Guangzhou, Guangdong, China.
www.dmx-winches.com

Before installing, operating, or maintaining this product, carefully read this manual and comply with all safety precautions listed below, as well as all warnings printed on the motor.

1. **Indoor Use Only**

   --This device is designed for professional indoor use only.

   --Not suitable for household use – may cause injury or equipment damage.

2. **Environmental Restrictions**

   --DO not expose to moisture, corrosive/flammable gases, or ambient temperatures exceeding 50°C (104°F).

   --Risk of fire or equipment failure if operated in prohibited conditions.

3. **Load Capacity Compliance**

   --Strictly adhere to rated load limits and approved lifting materials specified in technical parameters.

   --Overloading may cause structural failure, injury, or equipment damage.

4. **No Unauthorized Modifications**

   --DO NOT alter load-bearing cable connections or modify the device.

   --Tampering may result in mechanical failure or personal injury.

5. **Before Each Use**

   --Before each operation, inspect cables for bends, cracks, or corrosion.

   --Immediately discontinue use if defects are detected.

6. **High-Voltage Hazard**

   --This device contains high-voltage servo drives.

   --Only certified electromechanical technicians may perform repairs.

   --Unauthorized servicing risks electric shock or severe injury.

7. **Genuine Parts Requirement**

   --Use only GINYU OEM components for repairs/replacements.

   --Third-party parts may compromise safety and void warranties.

8. **Legal Compliance**

   --Follow all local laws and regulations governing equipment use.

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

Implies a potential hazard that, if not complied with, could result in serious or fatal injury to a person.

Implies there may be a potential hazard that, if not complied with, could cause moderate injury to personnel, or cause serious damage or malfunction of the product.

Implies actions that are absolutely prohibited and may result in damage to the product, or even malfunction, and may render it unusable.

Implies before powering on, please fix the installation vertically and confirm that the load or counterweight has been connected.

Warning! Do not use the winch if any damage or error is found!

Technical Specifications

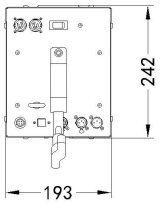
Winch Model	T15A
Loading Weight	5KG
Lifting Height	900CM
Fast Speed	60CM/S
Control Mode	DMX-512
RDM	Standard
Channel	9CH/12CH/4CH+
Internal Control Pixel Points	Max 75 point (Option)
Pass-Though Connector	GX-16-4PIN
Pass-Though External Control	Plug Switching
DMX Connection	3 PIN/5 PIN XLR In/Out
Screen	4 Digital Tube Display
Loading-bearing Wire	Diameter 3.6MM
Synchronization Error	Less 6MM
Slack Rope Alarm	Standard
Voltage	AC90V-240V/50-60HZ
Output Mode	24V_150W/220V_1300W/RJ45
Total Power	200W（Excluding direct output power）
IP Rating	IP20
Environment	-10℃~50℃
Safety Security	Physical braking, Electronic protection
E-Stop	Customized
Load Monitoring(Slack Prevention)	Standard
Teamwork（Tug-Proof）	Standard
Installation	Vertical lifting
Winch Size	242*193*477MM(Including hook size)
Winch Weight	8.6KG
Package	Carton/Flight case
DMX Signal Cable	2*0.5 ㎡*1.5*1 pcs
Power Cable	3*1.25 ㎡*1.5*1 pcs
Safety Cable	3MM*430MM*1 pcs
Hook	30MM*110MM*82MM*1 pcs

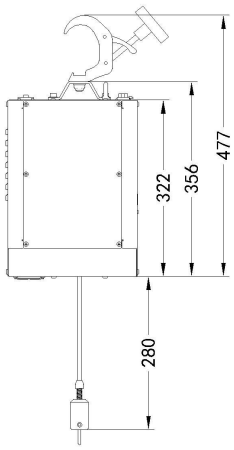
Product Introduction

The stage winch is a critical component in the stage lighting systems, which has the high load capacity, smooth lifting, precise control, safety and reliability. As an essential part of modern stage technology, the unique functionality and design of stage lighting winches provide unprecedented flexibility and creative possibilities for performances and dynamic lighting installations.

DMX winches, with their distinctive lighting effects and dynamic performance, are widely use in theatre, show, concerts, and exhibition. "Where engineering precision meets artistic expression" DMX winches redefine stage dynamic, enabling limitless creative possibilities.

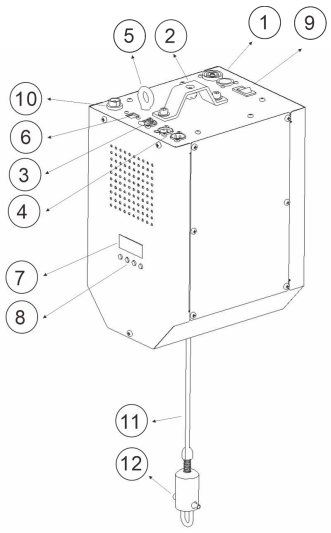
- **Winch Size Drawing**





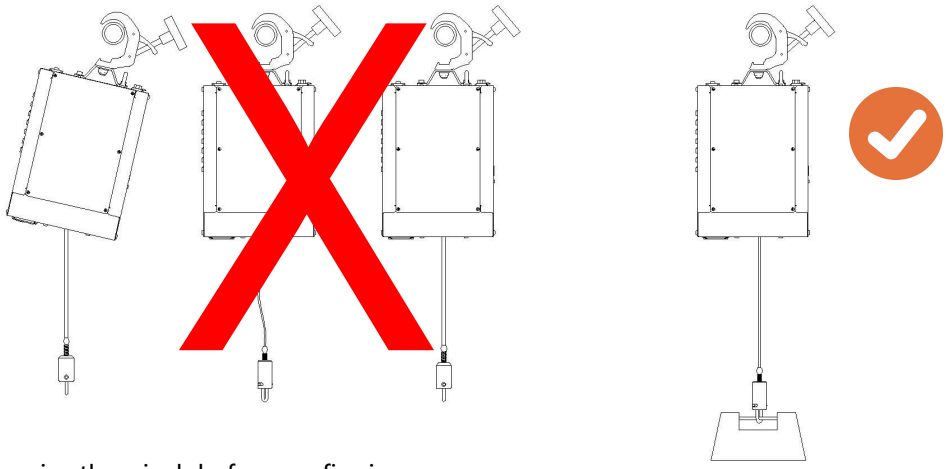
- **Winch Interface**

1. Main Power Connector
2. Lamp Hook
3. RJ45 Pass-through Input
4. 3 PIN XLR Connector
5. Safety hook
6. Teamwork
7. Display Screen
8. Menu
9. Power Switch
10. GX16 4 Pin Pass-through Input
11. Load-bearing Wire
12. Counterweight hanging drum

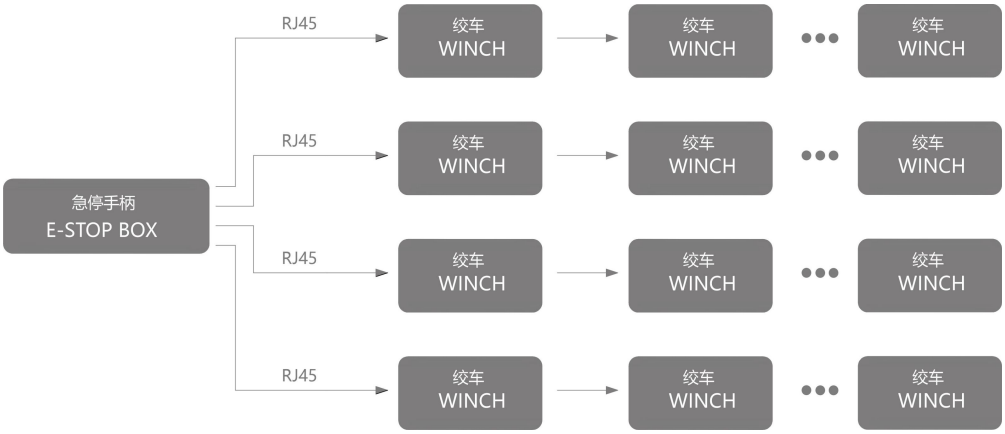


Safety Precautions

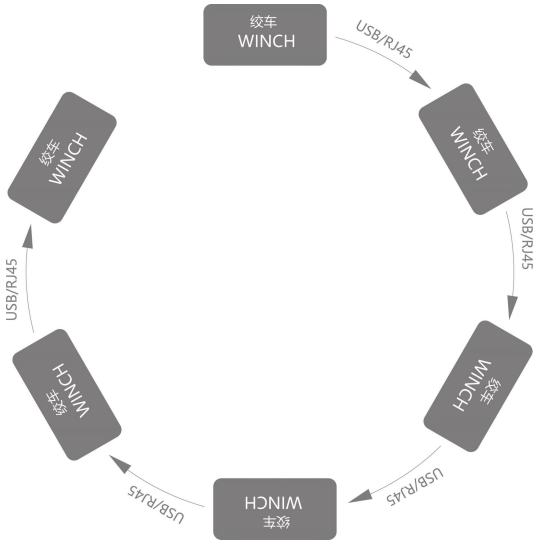
1. Check that the rigging clamp is undamaged and that the rigging structure can support at least 10 times the combined weight of all winches and equipment to be installed on it.
2. The motor is equipment is equipped with clack rope detection device. During installation, ensure the cable end is properly weighted(min 1KG), otherwise the winch will not working. Fix the motor on the TRUSS with special stage lamp hook or use bolt-mount to square tubing with the wire exit port vertically downward, as shown in the figure below:



3. When we energize the winch before confirming:
   --All bolts are torque-tightened.
   --Safety locks are engaged.
   --Hanging the Lights or weight already.
   --Locked the lights with motor.
4. Please leave enough space under the winch, and do not use the winch above the head of the personnel, so as not to cause danger to the personnel below.
5. Don’ t use winch to hanging persons or animals, approved use static loads only.
6. When the processor detects a winch malfunction (e.g., over speed or overload), the system will automatically engage the brake.
7. After a power outage, the machine must detect the load and automatically reset to the initial position before it can operate again.
8. The default speed setting is 0, keeping the winch in brake mode. A value higher than 0 must be set for the winch to operate, meaning Channel 3 has a braking function.
9. In an emergency, all equipment can be stopped using the emergency stop handle.



10： Teamwork safety: When multiple winch are used in combination, they can be connected via USB or RJ45 cable daisy-chain. If one winch faults, all connected units stop to prevent cable strain.



Power Supply Requirements

1. **Input Voltage & Protection**
   --Voltage Range: 90V-240V AC
   --Connection: Use only connectors compliant with local electrical codes.
   Safety Requirements:
   --Must include fault-protected fuses or circuit breakers.
   --Must have overload & ground-fault protection to prevent electric shock or winch damage due to overcurrent.
2. **Input Cable Specifications**
   --Conductor Size: at least 1.5 mm^2 (AWG16) per Chinese National Standard (GB).
   --Cable Diameter: 7-15mm.
   --Heat Resistance: ≥90°C (194°F).
3. **Series Connection Rules**
   --Connector Type: Locking POWERCON connector for daisy-chaining.
   --Max units per circuit: Refer to Table (1) (DO NOT EXCEED LIMITS)
4. **Risk of overload series connection of per circuit**
   Excessive chaining will causes:
   --Cable overheating
   --Insulation degradation
   --Potential fire hazard
5. **Multi-functional Model Winch (Special Wiring)**
   Separation of Power Supplies:
   --Lighting power(LED Lighting/Stage Lighting) and winch power is fully isolated.
   --Winch only powers travel-length current paths.
   --Max Current: 7A (Exceeding this damages winch & Risk fire).

6. Wiring & Installation

--Certified Electricians only can working wiring.

--Proper cable routing (use Tray, conduit or raceway, choose which way suitable environment).

--Secure terminations with insulation tape or heat-shrink tubing.

7. Safety Disconnection

Always power off when:

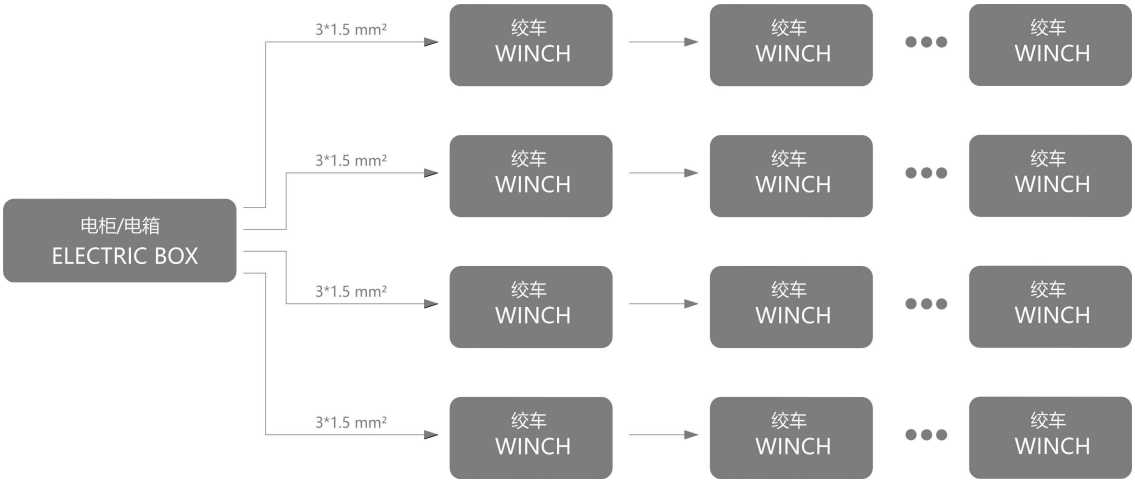
--Under maintenance

--Being cleaned

--Idle

8. External Control Equipment

Follow the same series connection way as above when hanging LED screen/Stage Lighting.



Maximum Chain Length (Table 1)

Model	Fuse	Peak Power	Power Chain Capacity(PCS)	DMX Chain Capacity(PCS)
QL_815F	F2A/250V	75W	15	15
QL_336M	F2A/250V	36W	15	15
T15A	F5A/250V	200W	15	15
T15T	F8A/250V	300W	10	15
T15T pro	F8A/250V	400W	10	15
T20A	F5A/250V	400W	10	15
T20T	F10A/250V	700W	5	15

Model	Fuse	Peak Power	Power Chain Capacity(PCS)	DMX Chain Capacity(PCS)
T20TC	F2A/250V	1200W	4	15
T20T pro	F2A/250V	1200W	4	15
T30A	F8A/250V	700W	5	15
T30T	F8A/250V	1200W	4	15

DMX Connection

1. Control Protocol: DMX 512

--Addressing: Each winch requires 1 unique address, set via digital display (See Table 2 as below).

2. XLR Connector Standards

Item	Description
Types	XLR 3PIN or XLR 5PIN
PIN Definition	1PIN: Ground; 2PIN: DMX-; 3PIN: DMX+; 4PIN/5PIN: Spare
Connector Type	Male Plug: Pins; Female Plug: Jacks
Signal Flow	Input: Female Plug/Socket; Output: Male Plug/Socket

3. Installation Best Practices

--Avoid parallel routing with power cable or other strong power cable, to minimize EMI(Electomagnetic interference).

--Prevent cable damage: No Sharp bends, stretching or crushing.

--Ensure proper XLR alignment, make correct pin-to-socket mating, signal flow direction.

4. XLR Signal Cable Standard

Item	Description
Diameter of per PIN	≥0.5 mm² (also can use CAT 5 alternative)
Standard XLR	2 PIN (DMX+、DMX-)、Shield: Ground
CAT 5 alternative	Blue: DMX+; Blue White: DMX-; Brown+Brown White: Ground
Connection Way	Daisy-Chain: Controller Output→Winch 1 Input→Winch 1 Output→Winch 2 Output → ...
Bypass Characteristics	When winch turn off power, signal bypass remains active

Termination Resistor	A 120Ω (1/4W) resistor must be connected between 2 PIN (DMX-) and Pin 3 (DMX+) at the last device' s output.
Length Limit	Single cable length < 100 meters, total length suggest≤300 meters;
Standard Configuration	1.5m (With XLR Female/Male)

5. Winch Limits Per Chain

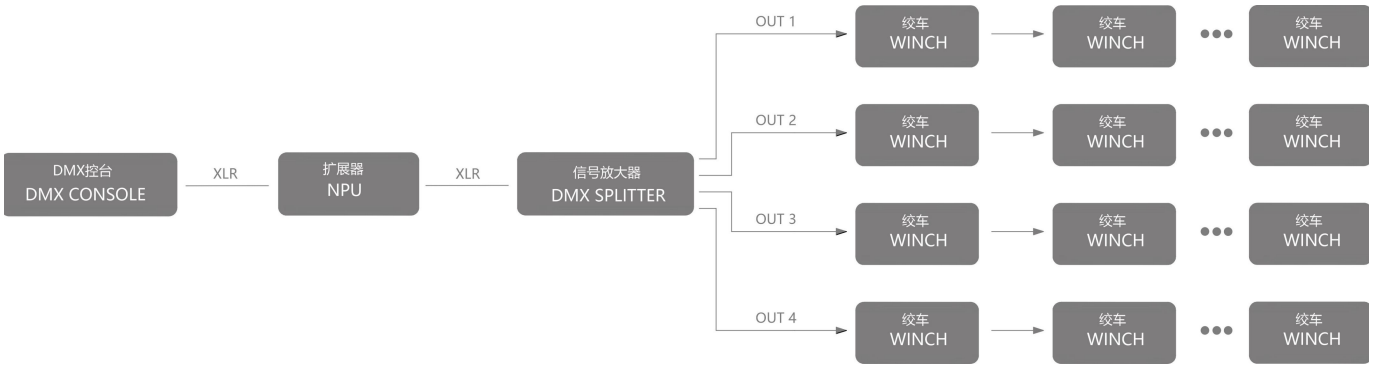
--Recommended max: 15 devices per DMX chain (to avoid signal degradation).

--For larger setups: Use opto-isolated DMX splitters/amplifiers.

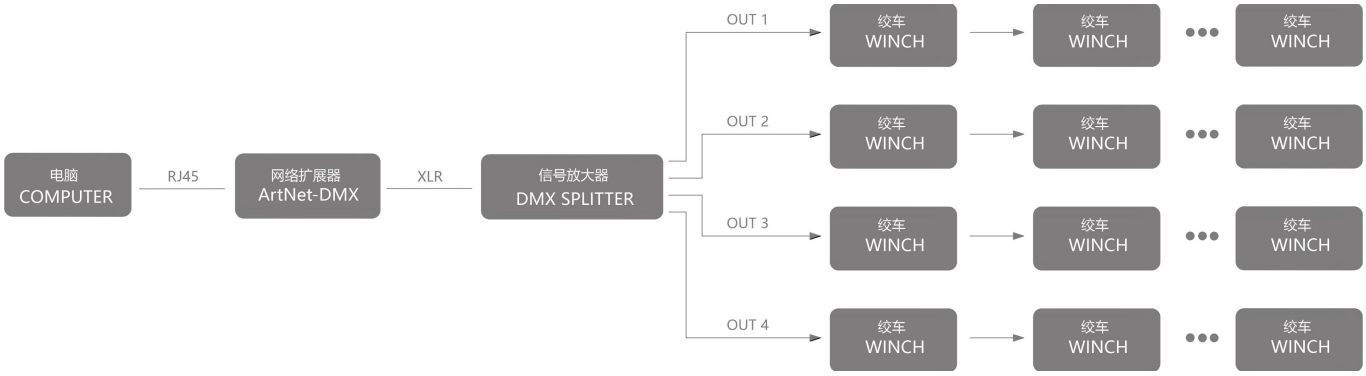
6. External Stage Lights

--Follow the same DMX wiring rules as above.

Performance Mode: Dedicated Lighting Console（MA、Pearl2010、Tiger Touch）



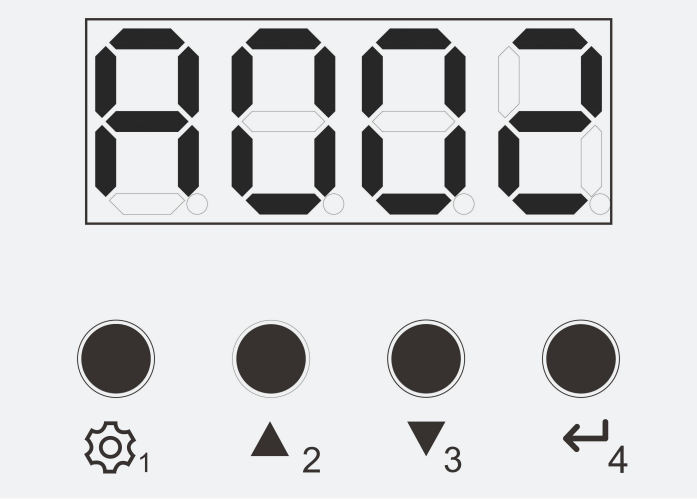
Project Mode: Windows PC+Special Control Software, easy to access the central control



Indicator Light Description

Action	Digital screen	Bottom indicator	
		●	●
Power On	Show “Rest” or firmware version	Steady on	Steady on
No Signal	Show DMX address(slow flash)	Steady on	Steady on
Signal On	Screen off	Steady on	Fast flash
Teamwork	\	Steady on	Alternate fast and slow flash
Error	Error code displayed	Steady on	Off

Control Panel (Table 2)



key①: Main Menu Setting **key ②: Turn Page Up** **key③: Scroll Down** **key④: Confirm**

Basic Setting

NO.	Function	Display Code	Operation Instructions
1	Channel Mode Selection	H001,C001,N001	■ Press 『1』to select channel mode(H is 9 Channel mode, C is 12 Channel mode, N is 125 Channel mode), press 『4』to save.
2	DMX Address Setting	DMX address：1-504	■ Press the 『2』 or 『3』to adjust value, then press 『4』to save.
3	Lifting Height Setting	L020,L030,L040,L050,L060,L070,L080，L090	■ Long-press 『1』+『2』to enter lifting height menu. ■ Select target code(e.g., L050 for 5m lifting),then press 『4』to confirm. ■ Press 『1』to exit, or wait 3s for auto-return.
4	Anti-Slack Rope Protection	P-ON: ON， P-OFF: OFF	■ Press 『2』+『3』to toggle: ■ P-ON: Protection on ■ OFF: Protection off ■ Press 『1』to exit.
5	Operation Cycle Count	Numeric value	■ View: Press 『1』+『4』simultaneously; ■ Reset: Long-press 『1』+『4』while powering on.
6	Manual Maintenance Mode	Error code	■ Long-press『1』for 3s, the lifting cable will rise up 3cm; ■ Long-press『4』for 3s, the lifting cable down 3cm;

Channel List

H Mode

Channel	Function	Description
1CH	Lifting	0～255(0-100%): Down; 255(100%)～0: Up.
2CH	Fine-tune	0～255(100%):16-bit fine-tuning.
3CH	Brake & speed	0: Brake (Default); 1~255(1-100%): speed from slow to fast.
4CH	Speed & Restart	0~77(0-30%): Slowly speed mode (speed 25 cm/s); 78 (31%) ~ 153 (60%): Medium mode(speed 40 cm/s); 154 (61%) ~ 231 (90%): High speed mode(speed 70 cm/s); 232(91%)~252(99%): Hold for 8 seconds, auto reset (reset)
5CH	Total dimming	0~255(0-100%): Global brightness, from dark to bright.
6CH	Red (R) dimming	0(255(0-100%): Red brightness, from dark to bright
7CH	Green (G) Dimming	0(255(0-100%): Green brightness, from dark to bright
8CH	Blue (B) Dimming	0(255(0-100%): Blue brightness, from dark to bright
9CH	White (W) Dimming	0(255(0-100%): White brightness, from dark to bright

C Mode

Channel	Function	Description
1CH	Lifting	0～255(0-100%): Down; 255(100%)～0: Up.
2CH	Fine-tune	0～255(100%):16-bit fine-tuning.
3CH	Brake & speed	0: Brake (Default); 1~255(1-100%): speed from slow to fast.
4CH	Speed & Restart	0~77(0-30%): Slowly speed mode (speed 25 cm/s); 78 (31%) ~ 153 (60%): Medium mode(speed 40 cm/s); 154 (61%) ~ 231 (90%): High speed mode(speed 70 cm/s); 232(91%)~252(99%): Hold for 8 seconds, auto reset (reset);
5CH	Total dimming	0~255(0-100%): Global brightness, from dark to bright..
6CH	Red (R) dimming	0(255(0-100%):Red brightness, from dark to bright.
7CH	Green (G) Dimming	0(255(0-100%): Green brightness, from dark to bright.
8CH	Blue (B) Dimming	0(255(0-100%):Blue brightness, from dark to bright.
9CH	White (W) Dimming	0(255(0-100%): White brightness, from dark to bright.

10CH	Built-in Effects	See attachment.
11CH	Effect Speed	0⁓255(0-100%), Adjusts effect speed from slow to fast.
12CH	Strobe & Trailing Effects	0(255(0-100%): Trailing effect (LED increases by 1 number); Work with Channel 10 effects value 119-126;

N Mode

Channel	Function	Description
1CH	Lifting	0～255(0-100%): Down; 255(100%)～0: Up.
2CH	Fine-tune	0～255(100%-0):16-bit fine-tuning.
3CH	Brake & speed	0: Brake (Default); 1~255(1-100%): speed from slow to fast.
4CH	Speed & Restart	0~77(0-30%): Slowly speed mode (speed 25 cm/s); 78 (31%) ~ 153 (60%): Medium mode(speed 40 cm/s); 154 (61%) ~ 231 (90%): High speed mode(speed 70 cm/s); 232(91%)~252(99%): Hold for 8 seconds, auto reset (reset);
5CH	Total dimming	0~255(0-100%): Global brightness, from dark to bright..
6CH	LED 1: R(red)	0~255(100%): Red brightness, from dark to bright.
7CH	LED 1: G(green)	0~255(100%): Green brightness, from dark to bright.
8CH	LED 1: B(blue)	0~255(100%): Blue brightness, from dark to bright.
9CH	LED 1: W(white)	0~255(100%): White brightness, from dark to bright.
10CH	LED 2: R(red)	0~255(100%): Red brightness, from dark to bright.
11CH	LED 2: G(Green)	0~255(100%): Green brightness, from dark to bright.
12CH	LED 2: B(Blue)	0~255(100%): Blue brightness, from dark to bright.
13CH	LED 2: W(White)	0~255(100%): White brightness, from dark to bright.
.....	.....	.....(Repeats for LED 3-29)
112CH	LED 30 : R(red)	0~255(100%):,Red brightness, from dark to bright.
113CH	LED 30 : G(Green)	0~255(100%): Green brightness, from dark to bright.
124CH	LED 30 : B(Blue)	0~255(100%): Blue brightness, from dark to bright.
125CH	LED 30 : W(White)	0~255(100%): White brightness, from dark to bright.

Fixture Library Download: www.dmx-winches.com

C Mode Channel 10 details:

DMX Values	Effect Description
0	Control 30 LEDs simultaneously, and each can be independently controlled in color (RGBW).
1	Control the 1st LED, independent color (RGBW) control
2	Control the 2nd LED, independent color (RGBW) control
3	Control the 3rd LED, independent color (RGBW) control
4	Control the 4th LED, independent color (RGBW) control
5	Control the 5th LED, independent color (RGBW) control
6	Control the 6th LED, independent color (RGBW) control
7	Control the 7th LED, independent color (RGBW) control
8	Control the 8th LED, independent color (RGBW) control
9	Control the 9th LED, independent color (RGBW) control
10	Control the 10th LED, independent color (RGBW) control
11	Control the 11th LED, independent color (RGBW) control
12	Control the 12th LED, independent color (RGBW) control
13	Control the 13th LED, independent color (RGBW) control
14	Control the 14th LED, independent color (RGBW) control
15	Control the 15th LED, independent color (RGBW) control
16	Control the 16th LED, independent color (RGBW) control
17	Control the 17th LED, independent color (RGBW) control
18	Control the 18th LED, independent color (RGBW) control
19	Control the 19th LED, independent color (RGBW) control
20	Control the 20th LED, independent color (RGBW) control
21	Control the 21st LED, independent color (RGBW) control
22	Control the 22nd LED, independent color (RGBW) control
23	Control the 23rd LED, independent color (RGBW) control
24	Control the 24th LED, independent color (RGBW) control
25	Control the 25th LED, independent color (RGBW) control
26	Control the 26th LED, independent color (RGBW) control
27	Control the 27th LED, independent color (RGBW) control
28	Control the 28th LED, independent color (RGBW) control
29	Control the 29th LED, independent color (RGBW) control
30	Control the 30th LED, independent color (RGBW) control
31	Control the 1st, 2nd and 3rd LED , independent color (RGBW) control
32	Control the 2nd, 3rd and 4th LED , independent color (RGBW) control
33	Control the 3rd, 4th and 5th LED , independent color (RGBW) control
34	Control the 4th, 5th and 6th LED , independent color (RGBW) control
35	Control the 5th, 6th, and 7th LED , independent color (RGBW) control
36	Control the 6th, 7th and 8th LED , independent color (RGBW) control
37	Control the 7th, 8th and 9th LED , independent color (RGBW) control
38	Control the 8th, 9th and 10th LED , independent color (RGBW) control
39	Control the 9th, 10th, and 11th LED , independent color (RGBW) control
40	Control the 10th, 11th, and 12th LED , independent color (RGBW) control

41	Control the 11th, 12th, and 13th LED , independent color (RGBW) control
42	Control the 12th, 13th, and 14th LED , independent color (RGBW) control
43	Control the 13th, 14th, and 15th LED , independent color (RGBW) control
44	Control the 14th, 15th and 16th LED , independent color (RGBW) control
45	Control the 15th, 16th and 17th LED , independent color (RGBW) control
46	Control the 16th, 17th, and 18th LED , independent color (RGBW) control
47	Control the 17th, 18th, and 19th LED , independent color (RGBW) control
48	Control the 18th, 19th and 20th LED , independent color (RGBW) control
49	Control the 19th, 20th, and 21st LED , independent color (RGBW) control
50	Control the 20th, 21st and 22nd LED , independent color (RGBW) control
51	Control the 21st, 22nd and 23rd LED , independent color (RGBW) control
52	Control the 22nd, 23rd and 24th LED , independent color (RGBW) control
53	Control the 23rd, 24th and 25th LED , independent color (RGBW) control
54	Control the 24th, 25th, and 26th LED , independent color (RGBW) control
55	Control the 24th, 25th, and 26th LED , independent color (RGBW) control
56	Control the 26th, 27th, and 28th LED , independent color (RGBW) control
57	Control the 27th, 28th and 29th LED , independent color (RGBW) control
58	Control the 28th, 29th and 30th LED , independent color (RGBW) control
59	Control the 1st, 2nd, 3rd, 4th and 5th LED , independent color (RGBW) control
60	Control the 2nd, 3rd, 4th, 5th and 6th LED , independent color (RGBW) control
61	Control the 3rd, 4th, 5th, 6th and 7th LED , independent color (RGBW) control
62	Control the 4th, 5th, 6th, 7th and 8th LED , independent color (RGBW) control
63	Control the 5th, 6th, 7th, 8th and 9th LED , independent color (RGBW) control
64	Control the 6th, 7th, 8th, 9th and 10th LED , independent color (RGBW) control
65	Control the 7th, 8th, 9th, 10th and 11th LED , independent color (RGBW) control
66	Control the 8th, 9th, 10th, 11th, 12th LED , independent color (RGBW) control
67	Control the 9th, 10th, 11th, 12th, and 13th LED , independent color (RGBW) control
68	Control the 10th, 11th, 12th, 13th, and 14th LED , independent color (RGBW) control
69	Control the 11th, 12th, 13th, 14th, and 15th LED , independent color (RGBW) control
70	Control the 12th, 13th, 14th, 15th, and 16th LED , independent color (RGBW) control
71	Control the 13th, 14th, 15th, 16th, and 17th LED , independent color (RGBW) control
72	Control the 14th, 15th, 16th, 17th, and 18th LED , independent color (RGBW) control
73	Control the 15th, 16th, 17th, 18th, and 19th LED , independent color (RGBW) control
74	Control the 16th, 17th, 18th, 19th and 20th LED , independent color (RGBW) control
75	Control the 17th, 18th, 19th, 20th, and 21st LED , independent color (RGBW) control
76	Control the 18th, 19th, 20th, 21st, and 22nd LED , independent color (RGBW) control
77	Control the 19th, 20th, 21st, 22nd, and 23rd LED , independent color (RGBW) control
78	Control the 20th, 21st, 22nd, 23rd and 24th LED , independent color (RGBW) control
79	Control the 21st, 22nd, 23rd, 24th and 25th LED , independent color (RGBW) control
80	Control the 22nd, 23rd, 24th, 25th and 26th LED , independent color (RGBW) control
81	Control the 23rd, 24th, 25th, 26th and 27th LED , independent color (RGBW) control
82	Control the 24th, 25th, 26th, 27th and 28th LED , independent color (RGBW) control
83	Control the 25th, 26th, 27th, 28th and 29th LED , independent color (RGBW) control
84	Control the 26th, 27th, 28th, 29th and 30th LED , independent color (RGBW) control

85	Every 5 beads flow upwards, with independent color (RGBW) control and adjustable speed (Channel 11)
86	Every 5 beads flow downwards, with independent color (RGBW) control and adjustable speed (Channel 11)
87	Every 5 up, down, back and forth, independent color (RGBW) control, speed adjustable (channel 11)
88	Every 10 pieces flow up, down, back and forth, independent color (RGBW) control, speed adjustable (channel 11)
89	25 upwards flowing, independent color (RGBW) control, speed adjustable (channel 11)
90	25 drop-flow chips, independent color (RGBW) control, speed adjustable (channel 11)
91	25 drop-flow chips, independent color (RGBW) control, speed adjustable (channel 11)
92	Single upstream, independent color (RGBW) control, speed adjustable (channel 11)
93	Single down-flow, independent color (RGBW) control, speed adjustable (channel 11)
94	Discord is changed from less to more flash, independent background color (RGBW) control, speed adjustable (channel 11)
95	1 white light flowing upwards, independent background color (RGBW) control, speed adjustable (channel 11)
96	1 white light flowing downwards, independent background color (RGBW) control, speed adjustable (channel 11)
97	Single white light disorder by less to more flash, independent background color (RGBW) control, speed adjustable (channel11)
98	Blue-white light flows upwards at adjustable speed (channel 11)
99	Blue and white light flows downwards at adjustable speed (channel 11)
100	Orange-white light flows upwards at adjustable speed (channel 11)
101	Orange-white light flows downwards at adjustable speed (channel 11)
102	Colorful light flows upwards at adjustable speed (channel 11)
103	Colorful light flows downwards at adjustable speed (channel 11)
104	10 blue rays flowing upwards, background color white control, speed adjustable (channel 11)
105	10 blue rays flowing downward, background color white control, speed adjustable (channel 11)
106	10 orange rays flowing upwards, background color white control, speed adjustable (channel 11)
107	10 orange rays flowing downward, background color white control, speed adjustable (channel 11))
108	10 rainbow lights flowing upwards, no background color, adjustable speed (channel 11)
109	10 rainbow lights flowing downward, no background color, adjustable speed (channel 11)
110	5 blue rays flowing upwards, background color white control, speed adjustable (channel 11)
111	5 blue rays flowing downward, background color white control, speed adjustable (channel 11)
112	5 orange rays flowing upwards, background color white control, speed adjustable (channel 11)
113	5 orange rays flowing downward, background color white control, speed adjustable (channel 11)
114	5 rainbow lights flowing upwards, no background color, adjustable speed (channel 11)
115	5 rainbow lights flowing downward, no background color, adjustable speed (channel 11)
116	6 blue rays flow up, down, back and forth, background color white control, speed adjustable (channel 11)
117	6 orange rays flow up, down, back and forth, background color white control, speed adjustable (channel 11)
118	6 colorful lights flow up, down, back and forth, no background color, adjustable speed (channel 11)
119	Flows up every 4 pcs, independent color (RGBW) control, speed adjustable (channel 11)
120	Descending increments of 4 pcs, independent color (RGBW) control, adjustable speed (channel 11)
121	Flows upwards in increments of 4, 16 at intervals, independent color (RGBW) control, adjustable speed (channel 11)
122	Flows down in increments of 4 at 16 intervals, independent color (RGBW) control, adjustable speed (channel 11)
123	Ascending every 4 pcs, 11 at intervals, independent color (RGBW) control, adjustable speed (channel 11)
124	Descending in increments of 4 in 11 intervals, independent color (RGBW) control, adjustable speed (channel 11)
125	Flows up every 4 in increments of 5 at intervals, independent color (RGBW) control, adjustable speed (channel 11)
126	Flows down in increments of 4 at 5 intervals, independent color (RGBW) control, adjustable speed (channel 11)

The following values are empty

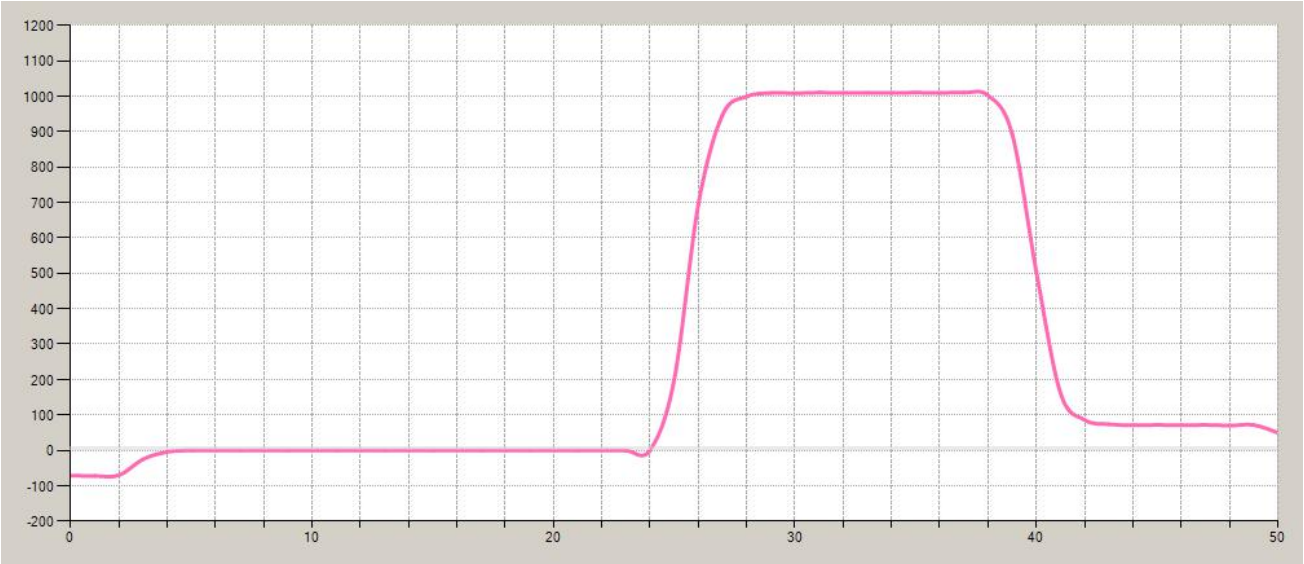
Load-adapted Speed

Speed	Safety Loading
Slowly speed with 25 cm/s	Maximum 5KG
Medium speed with 40 cm/s	Maximum 5KG
High-speed with 70 cm/s	Maximum 4KG

DMX Lane 1 distance percentage (9 meters as an example)

Channel Value	Distance from the original position
0	0m
25（10%）	0.9m
51（20%）	1.8m
76（30%）	2.7m
102（40%）	3.6m
127（50%）	4.5m
153（60%）	5.4m
178（70%）	6.3m
204（80%）	7.2m
230（90%）	8.1m
255（100%）	9m

Motor Acceleration/Deceleration Curve Diagram



Note: X-Speed(RPM), Y-Time(S);

Error Code Protocol

Error Code	Description	Solution
Err1	Fall Protection	■ Power off and check if the load(project or fixture) exceeds maximum weight limit at winch cable end.
Err2	Overload Alarm	■ Power off immediately and verify the total suspended load complies with rated capacity specifications.
Err3	Top Strike Warning (on reset)	■ Inspect homing position and limit switches for mechanical obstruction or misalignment.
Err4	Count Alarms	■ Power off and check for cable jamming. ■ Inspect motor assembly. ■ Verify optical encoder signal.
Err5	Teamwork Failure	■ Check all winches in the same DMX chain for individual faults(test winch one by one).
Err6	Top Strike Warning (Runtime)	■ Verify vertical installation. ■ Correct cable exit angle.
Err9	Manual Service Mode	■ /
No Display	Blank Screen	■ Check all the power cable connections. ■ Test fuse continuity. ■ Verify switching PSU output voltage.

Dairy Maintenance Guide

Cycle of detection	Items of Detection
Daily Inspection	■ Visual & Operational Check: Inspect for physical damage and verify no error ■ codes(e.g.,Err1-Err9). ■ Electrical Quick Test: Check power/DMX cables; Monitor voltage stability under load.
Monthly Inspection	■ Electrical System: Test insulation resistance with a megohmmeter. ■ Mechanical Components: Inspect winch lifting cable, motor, roller alignment and reset switches. ■ Tighten winch bolts with torque wrench. ■ Abnormal Noise Detection: During winch working if have noises.
Annual Inspection	■ Motor & Gearbox Maintenance: Motor, and replace key parts. ■ Lifting Cable Full Inspection: Check for internal breaks with magnetic particle tester;

Package Content

Item	Specification	Quantity
Power cable	3*1.25 ㎡*1.5m	1PCS
DMX Signal cable	2*0.5 ㎡*1.5m	1PCS
Hook	Thickness 30MM*Height 110MM*Width 82MM	2PCS
Safety Cable	3MM*430MM	1PCS
Teamwork Cable	1.5M	1PCS
Balance Bar	4*4*50CM	0PCS
Adapter Cable	RJ45 to DMX 3 PIN	0PCS
User Manual	/	1PCS