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Xine Robotics

WX2512 Xine Robotics DMX Winch
User manual

Version 1.4	Interleuvenlaan 27A, 3001 Heverlee, Belgium
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Explorentis	info@explorentis.com

Table of Contents

Safety information

Read this manual before installing, powering or servicing the winch or follow the safety precautions listed below and observe all warnings in this manual and printed on the winch. If you have questions about how to operate the winch safely, please contact Explorentis.

The following symbols are used to identify important safety information in this manual:

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

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

WARNING! Fire hazard.

WARNING! Burn hazard. Hot Surface. Do not touch.

WARNING! Refer to user manual.

GENERAL PRECAUTIONS

- This product is intended for professional use and may pose a risk of severe injury or death.
- Always allow electronic equipment to reach room temperature before applying power.
- If the product is defective or shows signs of overload, immediately disconnect it from the power source and do not reconnect it until proper repairs have been completed.
- Do not modify the product in any way not specified in this manual.
- For any servicing not described herein, refer to a qualified technician.

PROTECTION FROM INJURY

- Fasten the winch securely to a fixed surface, rig, or structure when in use. The winch is not portable when installed.
- Ensure that any supporting structure and/or hardware can hold at least 10 times the weight of all the devices.
- Block access below the work area whenever installing or servicing the product.
- Do not use the winch to lift people or animals. Only use the winch to lift static loads.
- When the product is installed and may not be used for some time, inspections and maintenance according to this manual shall always be followed.

PROTECTION FROM ELECTRIC SHOCK

- Always ground (earth) the winch electrically.
- Disconnect the winch from AC power before removing or installing any cover or part and not when in use.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the winch, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Do not expose the product to rain or moisture.

PROTECTION FROM BURNS AND FIRE

- Do not operate the winch if the ambient temperature (Ta) exceeds 40°C (104°F).
- The exterior of the winch becomes warm during use. Avoid contact by persons and materials.
- Allow the winch to cool for at least 10 minutes before handling.
- Do not modify the winch in any way not described in this manual.

Technical Specifications

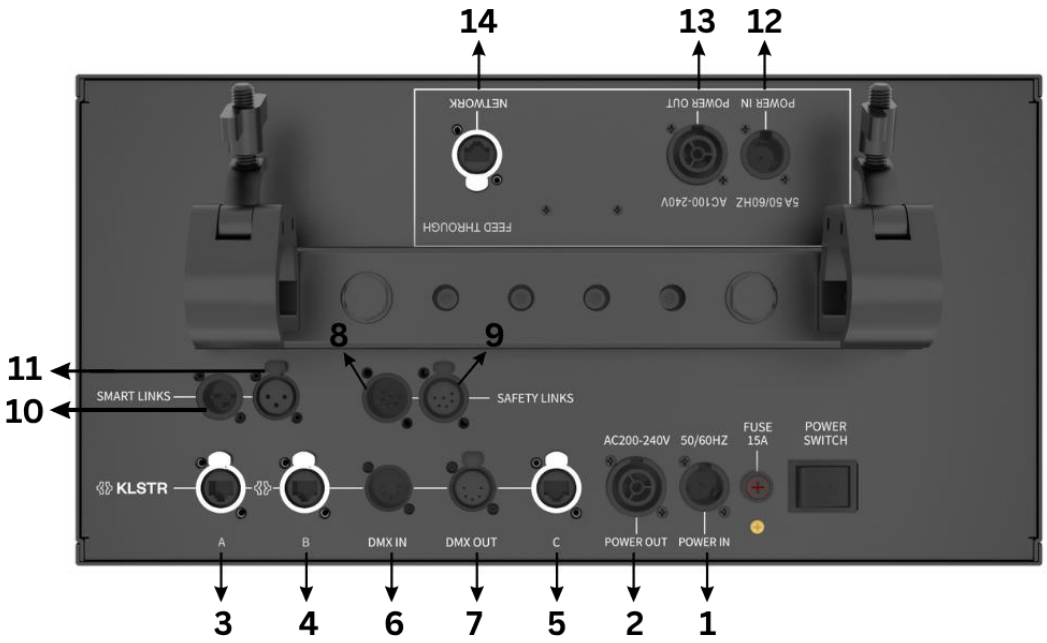
GENERAL	
Model	Xine Robotics DMX Winch
Item no.	WX2512
Power supply	200-240 VAC, 50-60 Hz (110V need customized)
Power consumption	750 W
DMX control signal	DMX
DMX connection	5 Pole XLR (F/M)
Lifting capacity	25 kg (55.1 lb)
Lifting height	12 m (40 ft)
Lifting speed	120 cm/s (47.2 in/s)
Minimum load	2 kg (4.4 lb)
Noise emission	≈40 dB at 1m (3.3 ft)
Ambient temperature	5-40 °C (41-104F)
Weight	36 kg
Mounting clamp	2 x Slim eye coupler 42-52 mm (2 in)
Motor	230 VAC, 750 W Servo Motor
Duty cycle	The servo motor used can run 24 hours at full load
MECHANICAL	
Lifting capacity	25 kg (55.1 lb)
Lifting height	12 m (40 ft)
Lifting speed	120 cm/s (47.2 in/s)
Dimensions	235,20 mm x 461,40 mm x 552,40 mm (LxWxH)
Minimum load	2 kg (4.4 lb)
Lifting wire	3 mm (1/8 in) 19x7 galv. steel wire (EN 12385-4)
LIFTING WIRE SPECIFICATIONS	
Lifting wire	3 mm (1/8 in) 19x7 galv. steel wire (EN 12385-4)
Minimum breaking load	588 kg (5766 N / 1296 lb)
Wire safety factor	>10
Fleet angle	None
Fleet travel	83 mm (3.3 in)

Winch Connections

	Power	
1	IN	Neutrik PowerCON TRUE1 NACPX (M)
2	OUT	Neutrik PowerCON TRUE1 NACPX (F)
	Gigabit Managed Ethernet	
3	KLSTR A	Neutrik EtherCON (F)
4	KLSTR B	Neutrik EtherCON (F)
5	KLSTR C	Neutrik EtherCON (F)
	DMX Control	
6	DMX IN	Neutrik XLR5 (M)
7	DMX OUT	Neutrik XLR5 (F)
	Safety links	
8	INPUT	Neutrik XLR6 (M)
9	OUTPUT	Neutrik XLR6 (F)
	Smart Links	
10	INPUT	Neutrik XLR3 (M)
11	OUTPUT	Neutrik XLR3 (F)

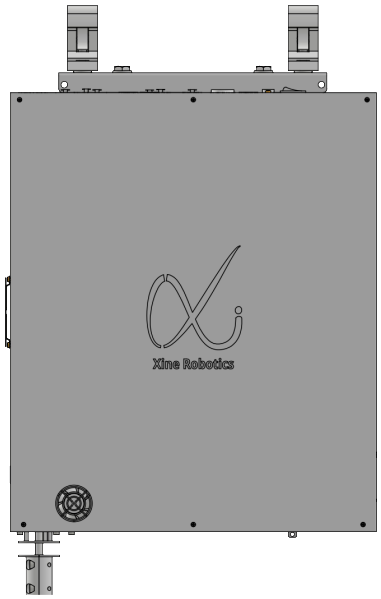
Feed through Connections

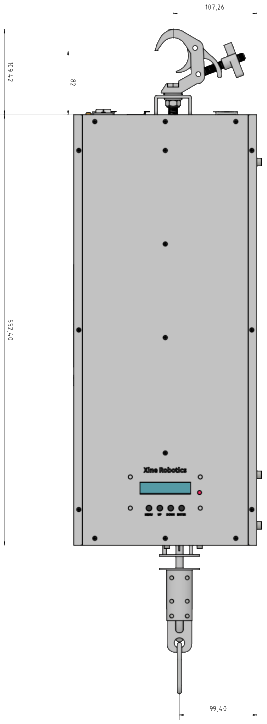
12	POWER IN	Neutrik PowerCON NAC3M
13	POWER OUT	Neutrik PowerCON NAC3F
14	NETWORK	Neutrik EtherCON (F)

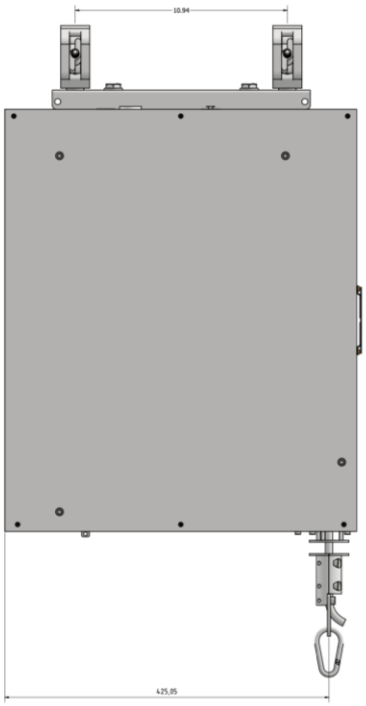


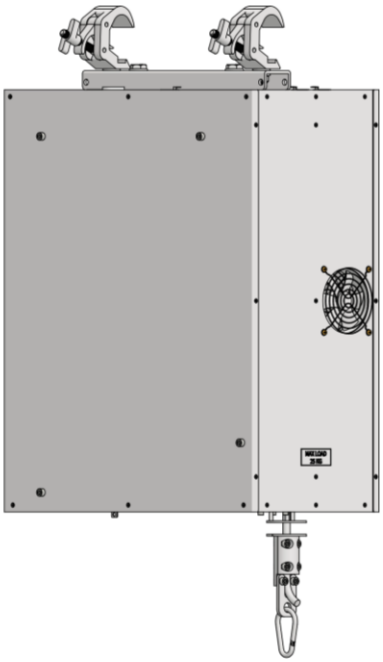
Drawings

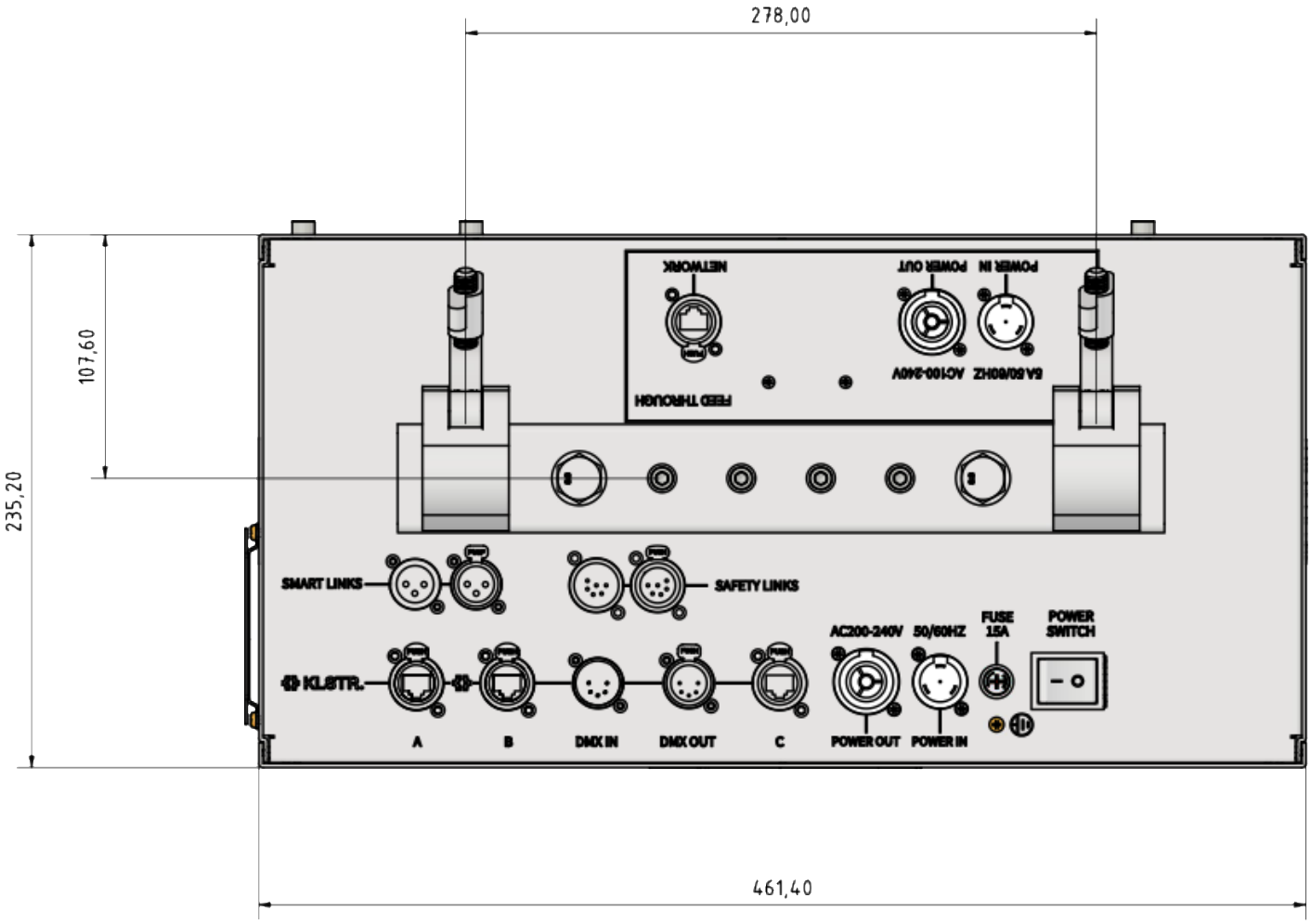
Xine Robotics DMX Winch WX2512










278,00
107,60
235,20
461,40
NETWORK
POWER OUT
POWER IN
FEED THROUGH
SMART LINKS
SAFETY LINKS
KLSTR.
A
B
DMX IN
DMX OUT
C
AC200-240V
50/60HZ
POWER OUT
POWER IN
FUSE 15A
POWER SWITCH

INTRODUCTION

Thank you for selecting the WX2512 Xine Robotics DMX Winch. Before using this product for the first time, please read this manual carefully. Failure in handling can cause injury of persons and/or damage the product.

IMPORTANT: This manual applies specifically to software version **1.36.** If the software is updated or changed, parts of this manual may become outdated or no longer applicable. Always refer to the latest manual corresponding to your current software version.

DESCRIPTION

WX2512 Xine Robotics DMX Winch is for stage use in theatre, shows and concerts. It lifts props, lighting equipment, video equipment, and/or set pieces with a maximum load of 25kg (61,7 lb).

The maximum lifting height is 12,50m (41,01ft).
The maximum lifting speed is 120cm/s (47,2 inch/s).
Winches are controlled via KLSTR, sACN, ArtNet or DMX.

SAFETY FUNCTIONS

The control system ensures that the motor is only powered when all safety and operational conditions are met, including:

- A reliable DMX signal is present.
- Mode, position, and speed controls are correctly configured.
- The drum position is within both soft and hard limits, with no overload detected.
- The safety sys is correctly wired and armed. (ref. chapter 1.1 & 2.1 Safety Sys explained)

Always refer to this manual during setup or troubleshooting. The user is solely responsible for ensuring that the equipment is used in compliance with all applicable local laws and safety regulations. The manufacturer accepts no liability for damage or injury resulting from use of the product that is contrary to such regulations or to the instructions provided in this manual.

Operator Requirements

The WX2512 Xine Robotics DMX Winch must only be operated by a qualified technician experienced with DMX-controlled consoles.

The console must be correctly programmed in accordance with the manual to ensure that the winch stops safely when the speed is reduced to 0% or when the Motor Enable Channel is set to the "Disabled" range.

Stopping Behavior

Soft Stop (controlled deceleration): The winch will decelerate smoothly under the following conditions:

- The Speed Channel is set to 0% (DMX value 255).
- The Motor Enable Channel is set to the "Disabled" range (DMX value 0–120).
- Refer to the DMX chart for exact channel mapping.

Hard Stop (immediate stop): A hard stop will be triggered in the following cases:

- 24V emergency power to the safety system is interrupted (e.g., E-stop pressed).
- The winch is manually disconnected from mains power.

! After a power failure or disconnection, the start position of the winch needs to be recalibrated before normal operation can resume.

AREA OF USE

- WARNING: To reduce the risk of electric shock or injury, use indoors only.
- WARNING: To reduce the risk of electric shock or injury, do not expose to rain.
- The WX2512 Xine Robotics DMX Winch is intended for indoor use only. It is designed for lifting and lowering material at the weight and speed stated in "Technical specifications". Any other use of the product may result in a risk of injury or equipment damage.
- Exceeding the load rating may cause failure of the equipment.
- Use only Xine approved mounting connectors to secure the load to the winch. Failure to mount the load securely can result in a risk of injury of people or equipment damage.
- Do not modify the product. For any modification contact XINE.
- It is the customer's sole responsibility to comply with any relevant local laws, regulatory requirements, and restrictions concerning the use of the product.

FIRST TIME USE

- WARNING: Read the safety instructions carefully before installing, operating or servicing the WX2512 Xine Robotics DMX Winch.
- WARNING: Before powering the WX2512 Xine Robotics DMX Winch, Install the Neutrik PowerCON TRUE 1 NACPX(F/M) power connector on a suitable power cable. If using the power from a mains power outlet, install a suitable power plug on the power cable.
- IMPORTANT: During transport and storage, the WX2512 Xine Robotics DMX Winch must be protected from environmental factors such as shocks and vibrations.

TRANSPORT

- IMPORTANT: During transport and storage, the WX2512 Xine Robotics DMX Winch must be protected from environmental factors such as shocks and vibrations
- Before transport, it is important to roll the wire of the winch up to the maximum and fix the wire with a cable tie or elastic cord. If the wire is slack, it may jump off the winch during transport and cause damage to the winch.
- Use appropriate packaging or custom flightcases only for transport.

PHYSICAL INSTALLATION

- WARNING: The WX2512 Xine Robotics DMX Winch must be either fastened to a flat surface such as a roof, or must be clamped to a truss or similar structure in such a way that the wire exit points downwards. Do not apply power to the device if it is not securely fastened.
- WARNING: The supporting surface must be hard and flat. Fasten the product securely.
- WARNING: Use only the supplied rigging clamps.
- WARNING: Make sure the wire exit point is straight downwards to maintain the expected lifetime of the wire.

Fastening the product to a flat surface

The WX2512 Xine Robotics DMX Winch can be fastened to flat surface such as a roof. Check that the surface can support at least 10 times the weight of all products and equipment to be installed on it.

Mounting the product on a truss

The WX2512 Xine Robotics DMX Winch is designed for mounting on trusses or similar rigging structures using standard clamps.

1) Inspect Equipment:
    - Ensure all rigging clamps are in good condition and free from damage.
    - Confirm that the rigging structure can support at least 10 times the combined weight of all equipment being installed.
2) Prepare the Work Area:
    - Restrict access to the area directly beneath the installation point.
    - Work only from a stable, secure platform.
3) Mount the Winch:
    - Position the winch so that the mounting clamps face upward.
    - Use the two supplied slim couplers located on the top plate of the winch.
    - Important: Both couplers must be used, as the load is not evenly distributed across the unit.
4) Secure the Rigging Clamp:
    - Once the winch is properly positioned on the truss, tighten the rigging clamps securely.
5) Install a Safety Cable:
    - When mounting overhead, always attach an appropriate safety cable as an additional safety measure.

MOUNTING THE LOAD

ATTENTION! The load must be mounted on the wire in a way to secure that the load never can run into the winch.

The load can be mounted using a suitable loading hook designed for lifting. Ensure that the loading hook is suitable for the load’s weight in accordance with all safety regulations.

1. System set up: single mode

1.1 Safety Sys explained

The safety system (Safety SYS) establishes a 24V loop throughout the entire setup, ensuring secure operation of the winches. A maximum of **15 winches** (or **7 Dual Winches**) can be daisy-chained within this safety loop.

The 6-pole XLR connectors are used to distribute the 24V safety signal from the safety box to each winch. Additionally, **external emergency stop (E-stop) buttons** must be connected to the safety boxes.

IMPORTANT NOTICE:
Winches will only operate if the following conditions are met:

- The safety system cables (XLR-6) are properly connected to all winches, and to the safety box at both the input and output ports.
- External E-stops are correctly connected to the safety boxes.

Emergency Stop Methods

The system supports three distinct methods to perform an emergency stop:

1. **Press an E-stop** button connected to the safety network.
    - This initiates a **HARD STOP**, immediately halting the load without ramping.
    - **Warning**: A Hard Stop applies maximum stress to the mechanical and structural system.

2. Set the **Speed Channel** to a value of **255** on the DMX controller.
    - This triggers a **SOFT STOP**, where the winch ramps down the motion smoothly, even if the value change is abrupt (snapped).

3. Change the value of the Motor Enable Channel to the "**Motor Disabled**" range via DMX controller.
    - This also results in a **SOFT STOP**, regardless of whether the change is gradual or snapped. Refer to the DMX chart for exact value ranges.

1.2 Winch Installation

The WX2512 Xine Robotics DMX Winch system offers reliable and safe DMX control. In order to achieve a safe installation, the following guidelines should ALWAYS be taken into consideration.

The WX2512 Xine Robotics DMX Winch has 2 connection sections on the top plate of the winch, offering you 1 section to make all connections necessary to the winch and a separate feed through section for the connections to the load attached to the winch.

1.3 Winch Connections

The WX2512 Xine Robotics DMX Winch uses different connection types to power, configure, activate, control and secure the winches.

- PowerCON TRUE1 Male connector: Power input
- PowerCON TRUE1 Female connector: Power output
    - The winches are rated 750W per piece.
- XLR-6 pin Male connector: SAFETY LINKS
    - Is used to connect, arm and use the safety system.
    - Is connected to the safety box.
    - The safety system is always a looped system: From the safety box to the first winch. Multiple winches can be linked. From the last winch we go back to the safety box.
- XLR-6 pin Female connector: SAFETY LINKS

  - Can be used to connect the next winch in line to the safety system or loops the safety system data back to the safety box.
- 3 Neutrik EtherCon network ports: KLSTR/sACN/ArtNet
  - Used for winch configuration and control.
  - 1 network port will be connected to the sACN network for control.
  - Other network ports can be used to connect other winches on the same network, regardless of the topology.
    - The network feed comes always from the network switch that is integrated in the safety box!
- Neutrik XLR-5 Male connector – DMX IN
- Neutrik XLR-5 Female connector – DMX OUT
- Neutrik XLR-3 Male and Female connector: SMART LINKS
  - For master slave use of 2 winches.
- Feed through connections
  - The feed through section of the winches allows you to provide power and network to the fixtures that are hung on the winches.
  - The secondary power can also be linked to the next winch unit(s). Check the power consumption of the fixtures you are using to calculate the maximum linked feed through power connections.

1.4 Installing the system

1. Hang the winches you want to use in your show.
2. Connect the DMX 5-Pin cables to connect your winches
   - Follow the standard DMX512 rules: A maximum of 32 devices can be linked on a maximum cable run off 320m.
3. Connect the XLR-6 cable from the safety box to the first winch, interconnect the winches via XLR-6, and feed back the safety links from the last winch to the safety box.
4. Connect power to the winches.
   - Power consumption per winch is rated at 750W.
5. Connect feed through power and data if the fixtures below need power and/or data.
6. Power up the system.

1.5 Configuring and controlling the system

- Set the DMX addresses of the individual winches via the display and menu buttons, or via the KLSTR.ctrl app.
- Set the Depth via the display and menu settings, to define the maximum travel of the winches.
- Set the maximum speed of the winches via the display and menu buttons.
- Start controlling your winches.

1.6 Controlling the system via DMX/sACN/ArtNet

1.6.1 Channelmapping

Channel	Function	Range	Value	Note	Default Value
1	Motor Enable	0-255	000-120: Motor Disable		0
			121-140: Motor Enable		
			141-255: Motor Disable		
2	Depth (Coarse)	0-255		Motor position	0
3	Depth (Fine)	0-255		Motor position	0
4	Winch Speed	0-255	000: Maximum Speed	120 cm/s	0
			254: Minimum Speed		
			255: STOP		
5	Winch Reset	0-255	000-245: No Function		0
			246-250: Reset Winch		
			251-255: No Function		

Channel 1: Motor Enable

- Default the motor of the winch is disabled. This means no movement is possible!
- Set this channel to a value between 121 and 140 to enable motor movement.
    - Snapping this value to one of the DISABLED ranges performs a SOFT STOP!

IMPORTANT NOTICE:

Some consoles reduce the DMX/sACN/ArtNet refresh rate when no data changes are being sent. However, the Motor Enable Channel requires a constant refresh as it is a security channel. To maintain a steady refresh rate, you must program at least one additional channel (e.g., a dimmer) within the same universe as the winches. Set up a chaser on this channel to ensure continuous DMX/sACN/ArtNet output at full refresh rate.

Channel 2 and 3: Depth

- Positioning of the winch is a 16-bit DMX channel that provides a 65.536 step resolution for the position.
- In case the winch is set to travel the maximum depth of 12,50m, the winch can be positioned in steps of 0,19mm (=12500mm/65.536).
- When reducing the depth or travel distance of the winch in the KLSTR.ctrl app or via the menu settings on the winch, the complete travel distance will be controlled in 65.536 steps:
    - Example: Depth of the winch is set at 4m, the winch can be positioned in steps of 0,06mm (=4000mm/65.536)

Channel 4: Speed

- 8-bit control of the speed.
    - 0 is the set maximum speed value (the speed value that is set by the KLSTR.ctrl application or on the display).
    - 255 stops the winch.
    - ! Snapping this value to 255 performs a SOFT STOP!

Channel 5: Winch Reset

- Set the RESET channel to a value between 246 and 250 to RESET the winch.
- A reset makes the winch go to home position: both primary and secondary winch will perform a HOME action: They will move to the upper hard limit (switched) of the winch, and then move to their 0,00cm or home position.
    - When homing a winch, please make sure that there is no DEPTH value sent to the winch. In case DEPTH values are sent via Channel 2 and 3, the winch will travel up, activate the mechanical upper limit switch twice, and then travel to the DEPTH value sent by Channel 2 and 3.

2. System set up: dual mode

2.1 Safety Sys explained

The safety system (Safety SYS) establishes a 24V loop throughout the entire setup, ensuring secure operation of the winches. A maximum of **15 winches** (or **7 Dual Winches**) can be daisy-chained within this safety loop.

The 6-pole XLR connectors are used to distribute the 24V safety signal from the safety box to each winch. Additionally, **external emergency stop (E-stop) buttons** must be connected to the safety boxes.

IMPORTANT NOTICE:
Winches will only operate if the following conditions are met:

- The safety system cables (XLR-6) are properly connected to all winches, and to the safety box at both the input and output ports.
- External E-stops are correctly connected to the safety boxes.

Emergency Stop Methods

The system supports three distinct methods to perform an emergency stop:

1. **Press an E-stop** button connected to the safety network
    - This initiates a **HARD STOP**, immediately halting the load without ramping.
    - **Warning**: A Hard Stop applies maximum stress to the mechanical and structural system.

2. Set the **Speed Channel** to a value of **255** on the DMX controller.
    - This triggers a **SOFT STOP**, where the winch ramps down the motion smoothly, even if the value change is abrupt (snapped).

3. Change the value of the Motor Enable Channel to the "**Motor Disabled**" range via DMX controller.
    - This also results in a **SOFT STOP**, regardless of whether the change is gradual or snapped. Refer to the DMX chart for exact value ranges.

2.2 Winch Installation

The WX2512 Xine Robotics DMX Winch system offers reliable and safe DMX control. In order to achieve a safe installation, the following guidelines should ALWAYS be taken into consideration.

The WX2512 Xine Robotics DMX Winch system has 2 connection sections on the top plate of the winch, offering you 1 section to make all connections necessary to the winch and a separate feed through section for the connections to the load attached to the winch.

2.3 Winch Connections

The WX2512 Xine Robotics DMX Winch uses different connection types to power, configure, activate, control and secure the winches.

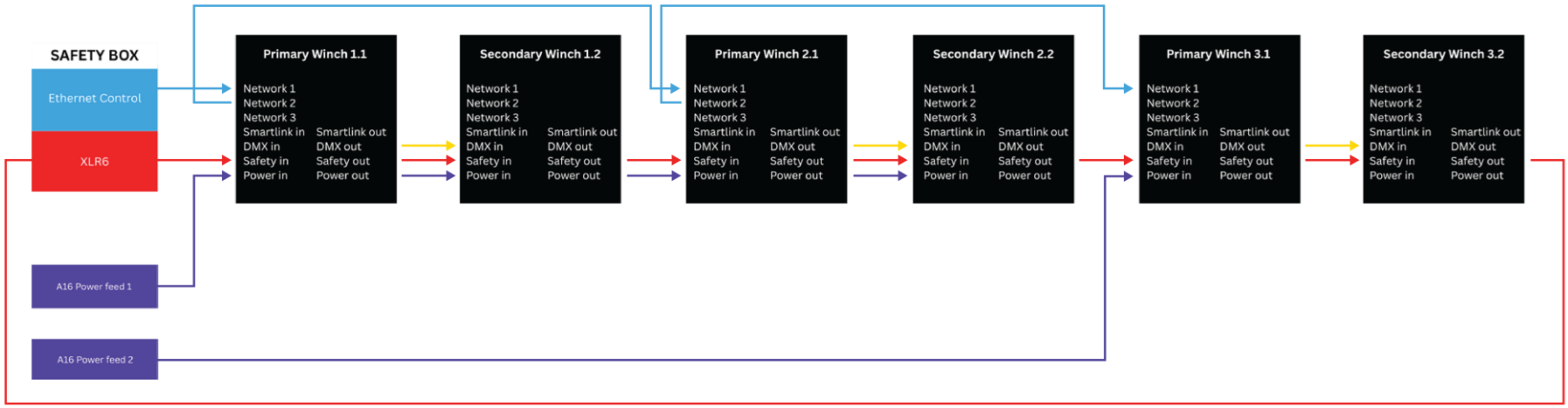
- PowerCON TRUE1 Male connector: Power input
- PowerCON TRUE1 Female connector: Power output
    - The winches are rated 750W per piece.
- XLR-6 pin Male connector: SAFETY LINKS
    - Is used to connect, arm and use the safety system
    - Is connected to the safety box.
    - The safety system is always a looped system: From the safety box to the first winch. Multiple winches can be linked. From the last winch we go back to the safety box.
- XLR-6 pin Female connector: SAFETY LINKS

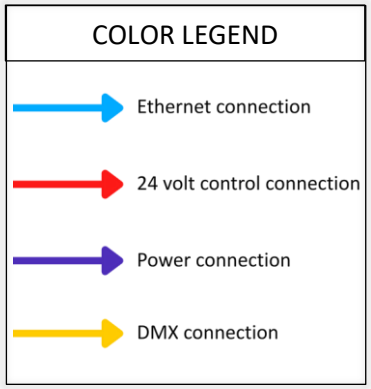
  - Can be used to connect the next winch in line to the safety system or loops the safety system data back to the safety box.
- 3 Neutrik EtherCon network ports: KLSTR/sACN/ArtNet
  - Used for Primary Winch Configuration and Control
  - 1 network port will be connected to the sACN network for control.
  - Other network ports can be used to connect other primary winches on the same network, regardless of the topology.
    - The network feed comes always from the network switch that is integrated in the Safety Box!
- Neutrik XLR-5 Male connector – DMX IN
  - These DMX connectors are used to link a secondary winch to the primary winch.
- Neutrik XLR-5 Female connector – DMX OUT
  - These DMX connectors are used to link a secondary winch to the primary winch.
- Neutrik XLR-3 Male and Female connector: SMART LINKS
  - For master slave use of 2 winches.
- Feed through connections
  - The feed through section of the winches allows you to provide power and network to the fixtures that are hung on the winches.
  - The secondary power can also be linked to the next winch unit(s). Check the power consumption of the fixtures you are using to calculate the maximum linked feed through power connections.

2.4 Installing the system

1. Hang the winches you want to use in your show.
2. Connect your KLSTR Network to all primary winches.
3. Connect the DMX 5-Pin cables from the primary winches to the secondary winches
4. Connect the XLR-6 cable from the safety box to the first winch, interconnect the winches via XLR-6, and feed back the Safety links to the safety box.
5. Connect the power to the winches.
   - Power consumption per winch is rated at 750W.
6. Connect feed through power and data if the fixtures bellow need power and/or data.
7. Power up the system.
8. Power up the Safety Box.

If you followed these instructions, a typical system would look like this:





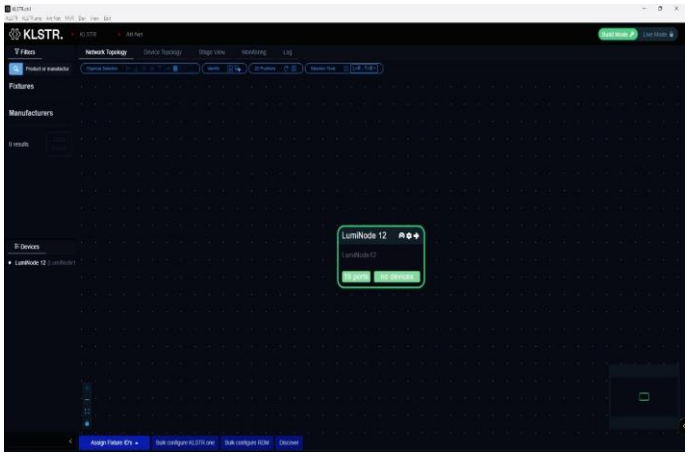
2.5 Configuring and controlling the system

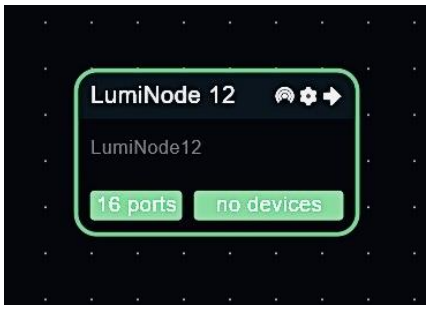
Before starting to control the fixtures, the user needs to configure the winches via the KLSTR.ctrl application.

Connect a computer to the winch network via the switch in the safety box and open the KLSTR.ctrl application.

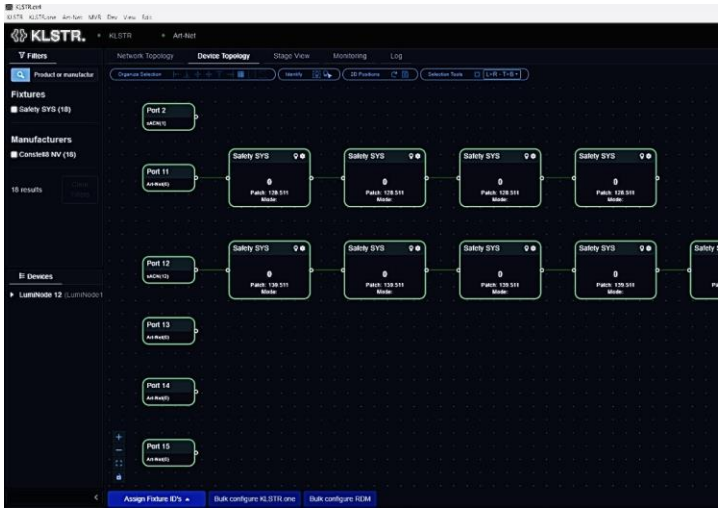
If you don’t have the KLSTR.ctrl app yet, please download the app via https://www.latest.klstr.tech.

The KLSTR.ctrl app will immediately show the node of the safety box in the application window.

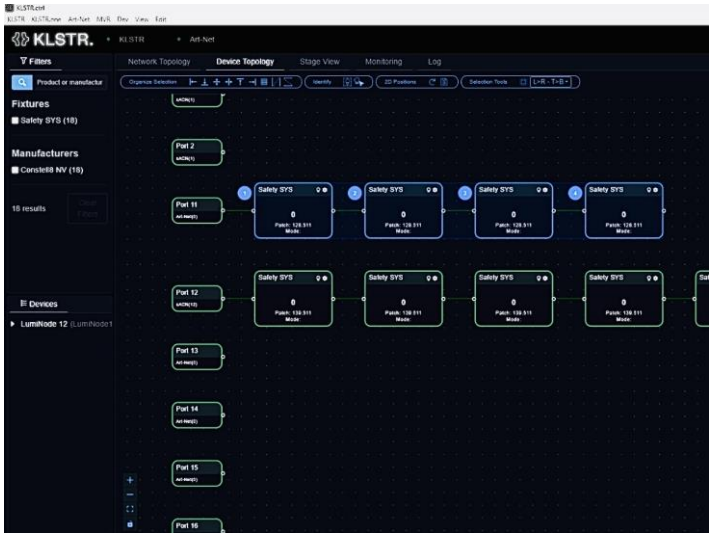


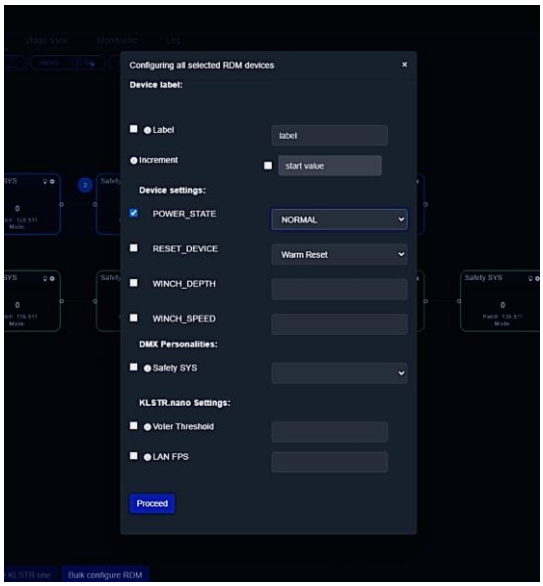


By double clicking on the shown devices on the node, all winches in the network will be shown. In fact, these winches will be labelled “Safety Sys” devices, as you will be configuring the safety sys of the winch.



Select all winches (SHIFT + DRAG), and in the bulk configure menu, you can arm all safety sys devices by setting the power state to “NORMAL”





Per individual winch the user needs to set the maximum depth (maximum travel of the load, from the 0 position) and the maximum speed of the winch. Both functions are also accessible via de display and the menu of the winch. We recommend strongly to do configuration via the KLSRT.ctrl app to speed up the process and to give you a better overview of the settings!

KLTR.ctrl will auto assign DMX addresses to all winches

When executing the discovery on a primary winch, both primary and secondary winch will perform a HOME action: They will move to the upper hard limit (switched) of the winch, and then move to their 0,00cm or home position.

2.6 Controlling the system via DMX/ArtNet/sACN

2.6.1 Channelmapping

Channel	Function	Range	Value	Note	Default Value
1	Depth (Coarse)	0-255		Winch 1 position	0
2	Depth (Fine)	0-255		Winch 1 position	
3	Depth (Coarse)	0-255		Winch 2 position	0
4	Depth (Fine)	0-255		Winch 2 position	0
5	Motor Enable	0-255	000-120: Motor Disable		0
			121-140: Motor Enable		0
			141-255: Motor Disable		
6	Winch Speed	0-255	000: Maximum Speed	120 cm/s	
			254: Minimum Speed		0
			255: STOP		
7	Winch Reset	0-255	00-245: No Function		
			246-250: Reset Winch		
			251-255: No Function		

Channel 1 and 2: Depth (Winch 1 position)

- Positioning of the winch is a 16-bit DMX channel that provides a 65.536 step resolution for the position.
- In case the winch is set to travel the maximum depth of 12,50m, the winch can be positioned in steps of 0,19mm (=12500mm/65.536).
- When reducing the depth or travel distance of the winch in the KLSTR.ctrl app or via the menu settings on the winch, the complete travel distance will be controlled in 65.536 steps:
    - Example: Depth of the winch is set at 4m, the winch can be positioned in steps of 0,06mm (=4000mm/65.536)

Channel 3 and 4: Depth (Winch 2 position)

- Positioning of the winch is a 16-bit DMX channel that provides a 65.536 step resolution for the position.
- In case the winch is set to travel the maximum depth of 12,50m, the winch can be positioned in steps of 0,19mm (=12500mm/65.536).
- When reducing the depth or travel distance of the winch in the KLSTR.ctrl app or via the menu settings on the winch, the complete travel distance will be controlled in 65.536 steps:

- Example: Depth of the winch is set at 4m, the winch can be positioned in steps of 0,06mm (=4000mm/65.536)

Channel 5: Motor Enable

- Default the motor of the winch is disabled. This means no movement is possible!
- Set this channel to a value between 121 and 140 to enable motor movement.
    - Snapping this value to one of the DISABLED ranges performs a SOFT STOP!

IMPORTANT NOTICE:

Some consoles reduce the DMX/sACN/ArtNet refresh rate when no data changes are being sent. However, the Motor Enable Channel requires a constant refresh as it is a security channel. To maintain a steady refresh rate, you must program at least one additional channel (e.g., a dimmer) within the same universe as the winches. Set up a chaser on this channel to ensure continuous DMX/sACN/ArtNet output at full refresh rate.

Channel 6: Speed

- 8-bit control of the speed.
    - 0 is the set maximum speed value (the speed value that is set by the KLSTR.ctrl application or on the display).
    - 255 stops the winch.
    - ! Snapping this value to 255 performs a SOFT STOP!

Channel 7: Winch Reset

- Set the RESET channel to a value between 246 and 250 to RESET the winch.
- A reset makes the winch go to home position: both primary and secondary winch will perform a HOME action: They will move to the upper hard limit (switched) of the winch, and then move to their 0,00cm or home position.
    - When homing a winch, please make sure that there is no DEPTH value sent to the winch. In case DEPTH values are sent via Channel 2 and 3, the winch will travel up, activate the mechanical upper limit switch twice, and then travel to the DEPTH value sent by Channel 2 and 3.

3. Navigation

The menu is accessible via four buttons: MENU, UP, DOWN, and ENTER.
To activate the display backlight, press any button. Use the UP and DOWN buttons to scroll through menu items, and press ENTER to select or confirm a setting.

3.1 Menu Structure

3.1.1 State

Shows the current state of the winch.

3.1.2 Version

Displays the current firmware version.

3.1.3 DMX Address

Shows the actual DMX Address.

- Press ENTER to edit.
- Use UP/DOWN to change the DMX address.
- Press ENTER to confirm the DMX address.

3.1.4 DMX Mode

Displays and allows you to change the DMX Mode.

- Press ENTER to change the DMX Mode.
- Use UP/DOWN to select 4-channel or 5-channel mode.
- Press ENTER to confirm the DMX Mode.

3.1.5 Maximum Depth

Shows you the maximum travel distance, starting from the HOME position.
- Press ENTER to be able to change the DEPTH.
- Use UP/DOWN to adjust the DEPTH in steps of 50cm.
- Press ENTER to confirm the MAXIMUM DEPTH.

3.1.6 Maximum Speed

Shows the MAXIMUM SPEED of the winch.
- Press ENTER to change the MAXIMUM SPEED.
- Use UP/DOWN to adjust in steps of 1centimeter per second.
- Press ENTER to confirm.

The slowest MAXIMUM SPEED is **10 cm/s:**
- The DMX Channel “SPEED” will control the speed of the winch.
- If max speed is 120cm/s than the Speed channel will scale the winch from 120cm/s (DMX value = 0) to STOP (DMX value = 255)
- If max speed is 10cm/s than the Speed channel will scale the winch from 10cm/s (DMX value = 0) to STOP (DMX value = 255)

3.1.7 Backlight

Gives you access to the behaviour of the backlight.

- Press ENTER to change the time that the display stays lit.
- Use UP/DOWN to change the time.
- Press ENTER to confirm the MAXIMUM SPEED.

3.1.8 Factory Reset

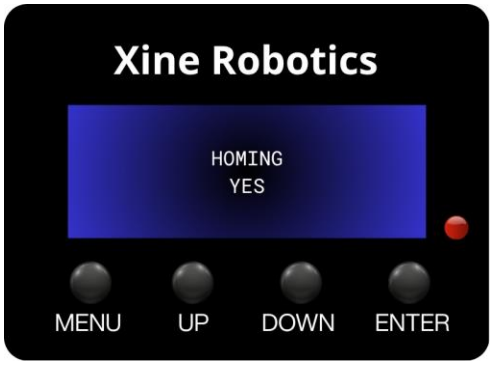
Gives you the possibility to perform a factory RESET.

- Press ENTER to perform a factory RESET.
- Use UP/DOWN to change NO into YES.
- Press ENTER to confirm factory RESET.

3.1.9 Homing

Sends the winch to its HOME position.

- Press ENTER to perform a HOME run.
- Use UP/DOWN to change NO into YES.
- Press ENTER to start HOMING.



4. Contact Information

For further assistance, please contact Explorentis:

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