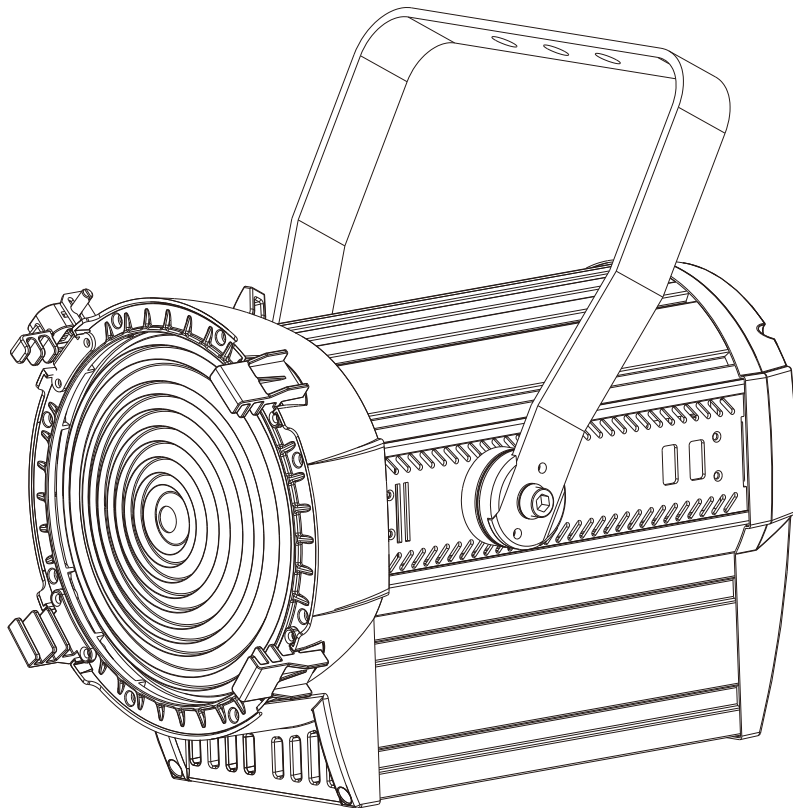


FD4

LEDFRE210

USER MANUAL

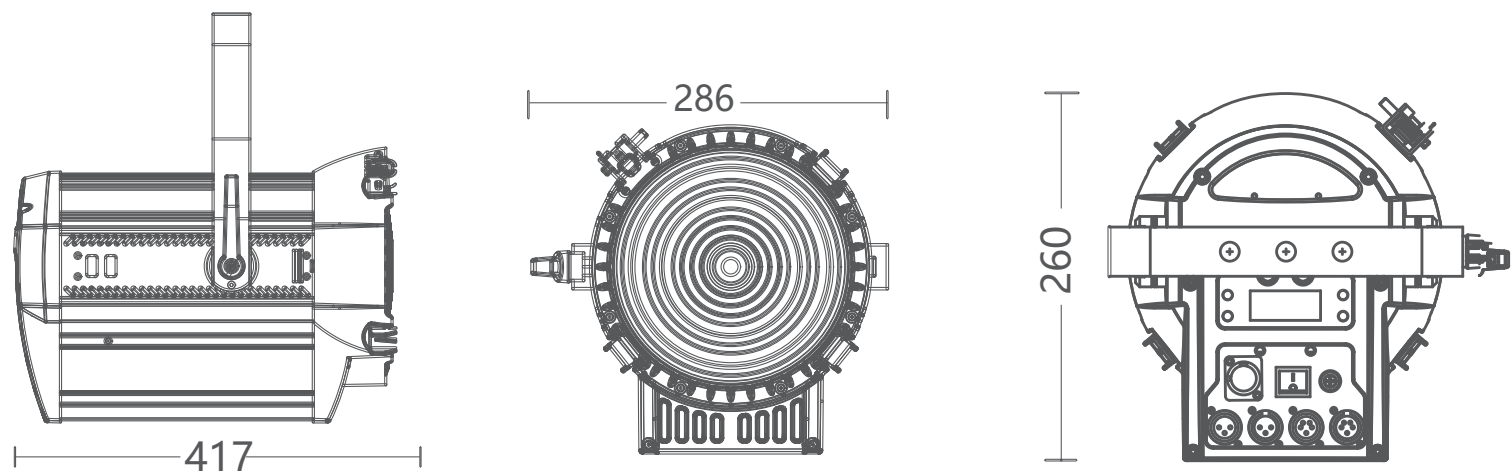


1 PRODUCT

1.1 TECHNICAL SPECIFICATIONS

Fixture Name	FD4
Light Source	300W 3200K LED
Angle	15°~60°
Power Consumption	200W
Control Protocols	DMX512, RDM
Voltage Range	AC100~240V,50/60Hz
IP Rating	IP20
Operation Temperature	0° to 45°
Dimensions	417 x 286 x 423mm
Weight	6.6kg

DIMENSIONS



1.2 Safety Notes

IMPORTANT

- Fixture must be installed by an experienced professional.
- To maintain the condition and to ensure safe operation, follow the safety instructions and warning notes outlined in this manual.
- The manufacturer is not liable for any damage caused by the operator not abiding to the manual or any modification made to this device.

CAUTION!

- Make sure that the voltage supplied to the fixture is not higher than stated on the rear panel.
- Do not handle the power cable with wet hands.
- The earth wire must always be connected to ground. It is essential to connect the yellow/green conductor to earth.
- Make sure that the power cord is not damaged by sharp objects or serrated edges, or beyond the minimum bend radius, or crushed. Check the device and the power cord before operation. The electrical connection, repairs and servicing of this fixture must be carried out by a qualified person and to Australian/New Zealand Standards.
- Always disconnect the power input cable to completely remove power from unit when not in use or before cleaning or servicing of the fixture.
- Do not power cycle the fixture in short intervals as this could affect the fixture's life span.
- Do not touch the device's housing with bare hands during operation. The surface of the casing can reach up to 65°C during operation.
- Make sure no materials are in contact with the fixture. Ensure the product is in a location where there is no risk of accidental contact.
- Allow the fixture to cool for at least 10 minutes before handling.
- If replacing lamps and fuses, use replacements of the same type and rating only.
- To avoid damage during transportation and installation, use appropriate casing and protection. If there is any damage to the coating, the shell may corrode.
- Before hanging the fixture verify hanging points and ensure they can support the weight. Ensure the hook clamps or couplers can bear at least 10 times the weight of the fixture.
- Ensure the fixture has a safety cable and that it is attached correctly. Please follow the illustrations in this manual. Before use, check that the housing is firmly closed, and all screws are fastened to correct torque.
- The maximum ambient temperature for operation is 45°C. Do not operate the product if the ambient temperature (Ta) exceeds 45° C.
- During the first start-up, some smoke may appear, or a smell may be present. This is a normal process and does not necessarily mean that the device is defective.

Electrical Warning

- The light source contained in this luminaire shall only be replaced by the manufacturer, service agent, or a similarly qualified person.
- When replacing fuses, replacements must be the same type and rating.
- The lens must be replaced if damaged to ensure the fixtures function is not impaired e.g. cracks or deep scratches.

Keep the product away from flammable materials

- Keep all combustible materials (fabric, wood, paper etc) at least 500mm away from the fixture.
- Ensure that there is adequate and unobstructed airflow into the product. Provide a minimum clearance of 150mm around fans and air vents.
- Do not illuminate surfaces within 3m of the product.
- Do not install a fuse that has a higher rating than the original installed. Under no circumstances bypass fuses.
- Do not install filters, masks, or any other materials onto optical components.
- If the fixture seems to be abnormally hot, shows signs of melting or emits smoke, disconnect the fixture from power immediately and allow it to cool. Do not touch the fixture without appropriate PPE. Keep the fixture well away from combustible and flammable materials.

NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE RETINA INJURY RISK - MAY INDUCE BLINDNESS

Do not point the optics of the fixture towards the sun or other strong light sources. The lens focuses and concentrates light like a magnifying glass and can cause internal damage to the fixture and could melt components or start an internal fire within seconds.

To avoid problems from strong light sources:

- Do not focus beams from one fixture directly into another fixture.
- For outdoor applications ensure that the fixture's optics is pointed away and shielded from sunlight even when not in use.
- Do not expose the product to excess heat from other lighting fixtures.

2 INSTALLATION

2.1 Mounting

Truss installation

- ◆ The LED fixture can be mounted using the support bracket. The bracket should be secured to the mounting surface using an appropriate mounting clamp. When mounting the unit, a safety chain should also be used.

2.2 Power Connections

- ◆ 220 – 240V: 10 units may be connected in series
- ◆ 110 – 120V: 5 units may be connected in series

AC Plug

Connection	Wire Colour	Screw Colour
AC Live	Brown	Yellow/Brass
AC Neutral	Blue	Silver
AC Ground	Striped Green/Yellow	Green

3 DISPLAY PANEL OPERATION

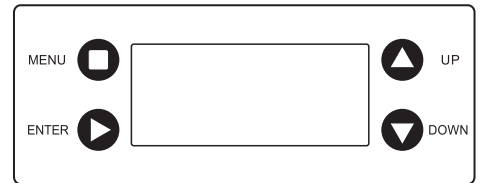
3.1 DISPLAY OPERATION

【 **MENU** 】 return to the previous menu.

【 **ENTER** 】 enter the currently selected menu.

【 **UP** 】 scroll down through the current menu list or
decrease the value of the current function.

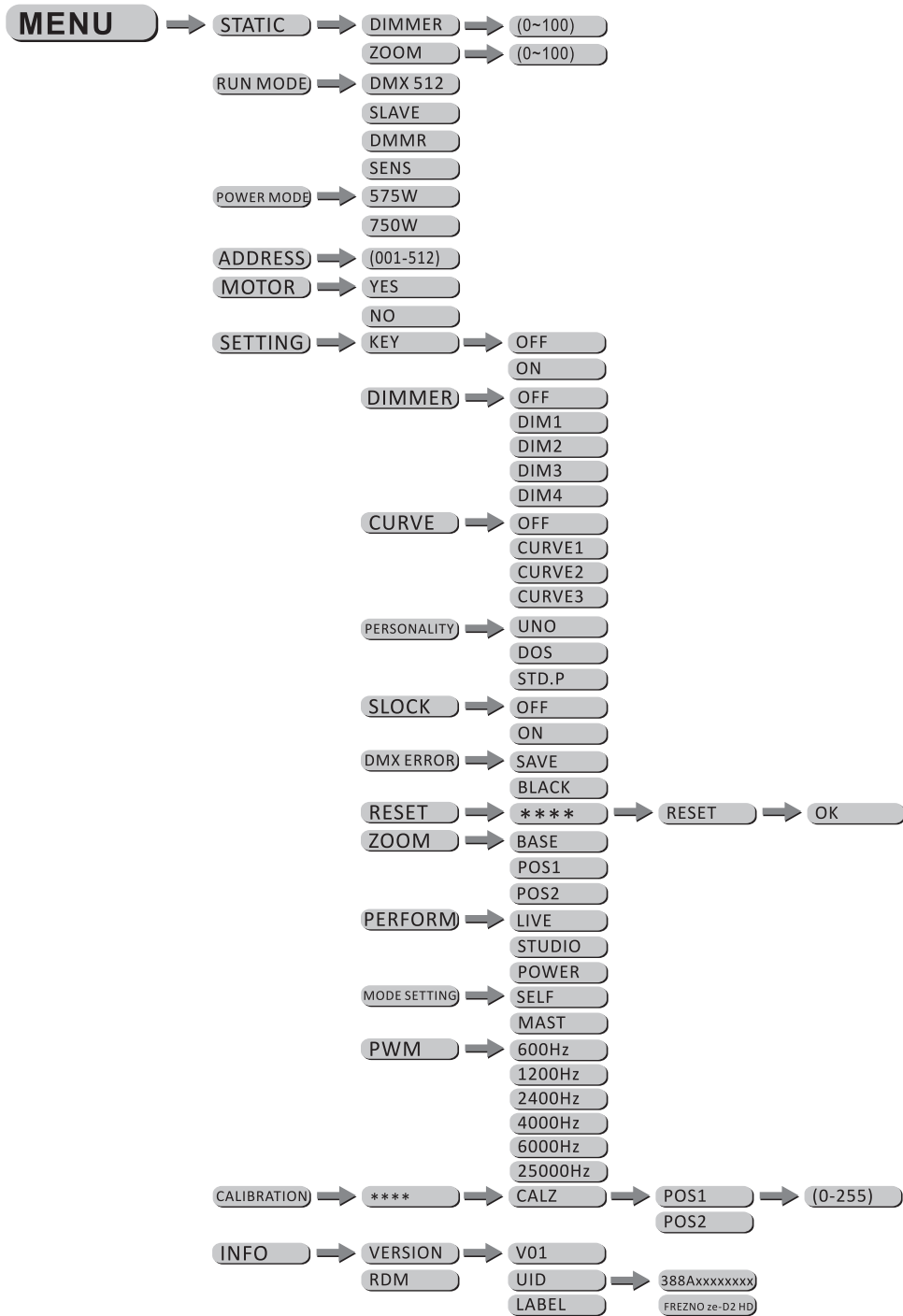
【 **DOWN** 】 scroll up through the current menu list or
Increase the value of the current function.



QUICK-ACCESS KEYS

[MENU] By press and holding the [MENU] key when at the main menu it is possible to directly access the [DIM] function

3.2 MENU MAP



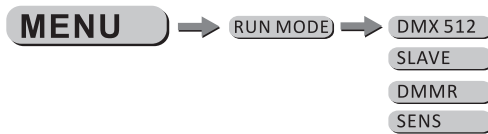
3.3 DIMMER (STATIC)



- [DIMMER]...to adjust level of intensity
- [ZOOM]...to adjust the zoom position

Note: When using this function, if the [MCON] menu is set as [MAST], then the fixture will transfer the [DIM] values to other fixtures.) When DMX data is received at the fixture, it will automatically return to main menu after 2 minutes of no key operation.

3.4 RUN MODE



- [RUN MODE]...this menu allows the user to select the operating mode of the fixture. Select [DMX 512] for normal DMX operation or [SLAVE] for slave operation.

3.5 POWER MODE



- Press ENTER to enter < POWER MODE >
- Press UP/DOWN and select <575W> or <750W>

3.6 DMX ADDRESS



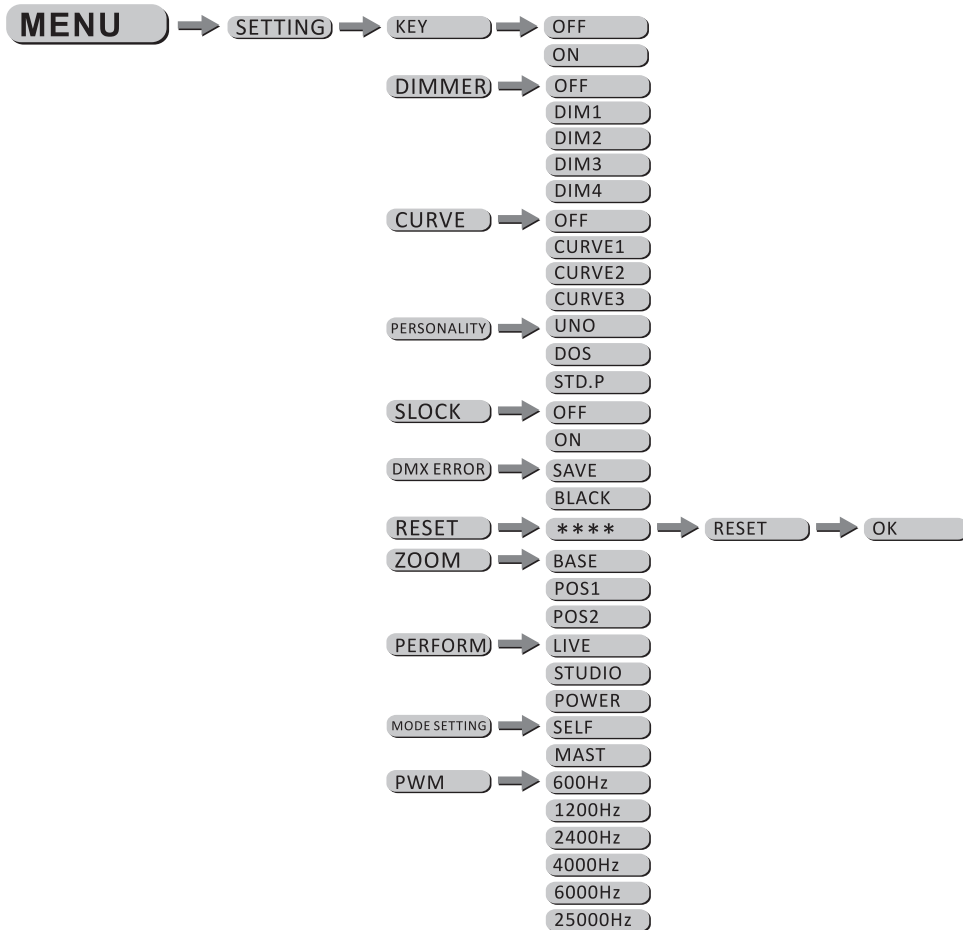
- [ADDRESS]...this menu allows the user to select the start address of the fixture. Use <UP> or <DOWN> keys to select required start address.

3.7 Motor reset(MOTOR)



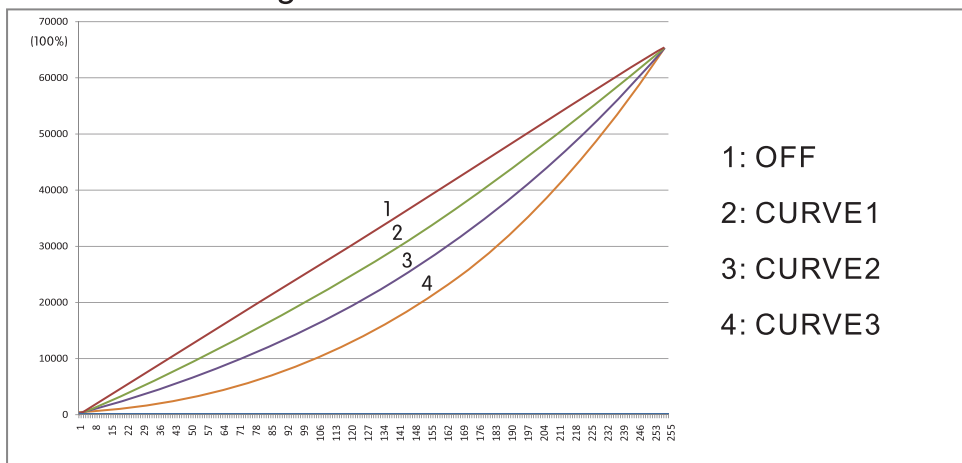
- Press ENTER to enter < MOTOR >
- Press UP/DOWN and select <YES> or <NO>
- When you select < YES > and press ENTER, the motor will be reset to origin
- When you select <NO>, and press ENTER, no control.

3.8 SPECIAL SETTINGS



- [SETTING]...this menu allows the user to adjust key operation settings for this fixture.
[KEY]...select [ON] for automatic lock-out. Password to re-enter the display is <UP> + <DOWN> + <UP> + <DOWN>.
- Select [DIM1], [DIM2], [DIM3] or [DIM4] for different dimming speeds. ([DIM4] is the slowest dimming speed)
- [CURVE] allows the user to adjust the shape of the dimming curve. See the CURVE chart to Understand more about actual dimming curves.
- In order to reset custom modes to default values select [RESET] .
- [PERSONALITY]...this setting allows the user to select the DMX personality of the fixture. Refer to DMX personality charts for specific details.
- [SLOCK] is used to lock the settings menu. When [SLOCK] is set to [ON] then user must insert passcode (UP+DOWN+UP+DOWN) in order to access the settings menu.
- [DMX ERROR] Choose[Save] in order to save the last DMX data in case of DMX signal error. Choose[Black] in order to blackout in case of DMX signal error.
- <ZOOM> is for setting zoom, press UP/DOWN to select. <BASE> is standard setting; <POS1> is zoom setting 1; <POS2> is zoom setting 2. Press MENU to get back, and the Setting is saved automatically.
- [PERFORM] this setting allows the user to select the performance characteristics of the fixture.
- [MODE SETTING]...this function allows the user to select whether the fixture will send DMX data to other fixtures during stand-alone operation. The [MAST] setting allows data to be sent to Other fixtures. The [SELF] setting is default and will not send DMX data to other fixtures.
- <PWM> is PWM refresh rate bottom, press UP/DOWN to choose <600Hz>, <1200Hz>, <2400Hz>, <4000Hz>, <6000Hz>, <25000Hz>; (note: <1200Hz> is default setting)
Note: with refresh rate increased, gray rate of dimmer will be reduced, (that's means high refresh rate, low gray rate), when it's <4000Hz>, CV3 is invalid, when it's <25000Hz>, CV1 CV2 CV3 are invalid, so please lower PWM rate to increase gray rate in necessary.

CURVE dimming



3.9 WHITES CALIBRATION(CALIBRATION)



- Enter the 【 CALIBRATION 】 to select white color of different color temperature.
- Select the 【 ZOOM 】 range. 【 POS1 】 & 【 POS2 】 set the small position for the zoom function. Note that when using DMX to control the fixture, the user will only be able to access up to the set ZOOM position. It is not possible to adjust beyond the set position.

3.10 INFO



- push 【 OK 】 button into the information search mode in menu 【 INFO 】 , push 【 up/down 】 to choose item.
Choose 【 VERSION 】 software version
Choose 【 RDM 】 check the fixture ID

4 USING A DMX512 CONTROLLER

4.1 CHANNEL ASSIGNMENT

- Note: This product have three DMX512 channel configuration:
【 UNO 】 / 【 DOS 】 / 【 STD.P 】

UNO

CHANNEL	VALUE	FUNCTION
1	0 ⇔ 255	DIMMER

DOS

CHANNEL	VALUE	FUNCTION
1	0 ⇔ 255	DIMMER
2	0 ⇔ 255	FINE DIMMER

STD.P

CHANNEL	VALUE	FUNCTION
1	0 ⇔ 255	DIMMER
2	0 ⇔ 255	FINE DIMMER
3	0 ⇔ 9	NO STROBE
	10 ⇔ 99	STROBE (SLOW TO FAST 0-25HZ)
	100 ⇔ 109	NO STROBE
	110 ⇔ 179	LIGHTNING STROBE (SLOW TO FAST)
	180 ⇔ 189	NO STROBE
	190 ⇔ 255	RANDOM STROBE (SLOW TO FAST)
4	0 ⇔ 255	ZOOM
5	0 ⇔ 200	NO FUNCTION
	201 ⇔ 220	MOTOR RESRT
	221 ⇔ 255	NO FUNCTION