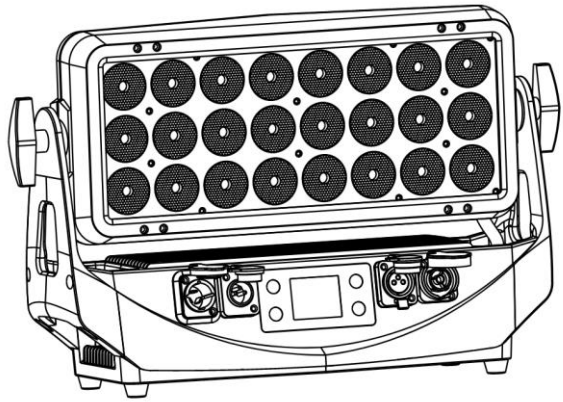
F3 PRO



This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

User manual

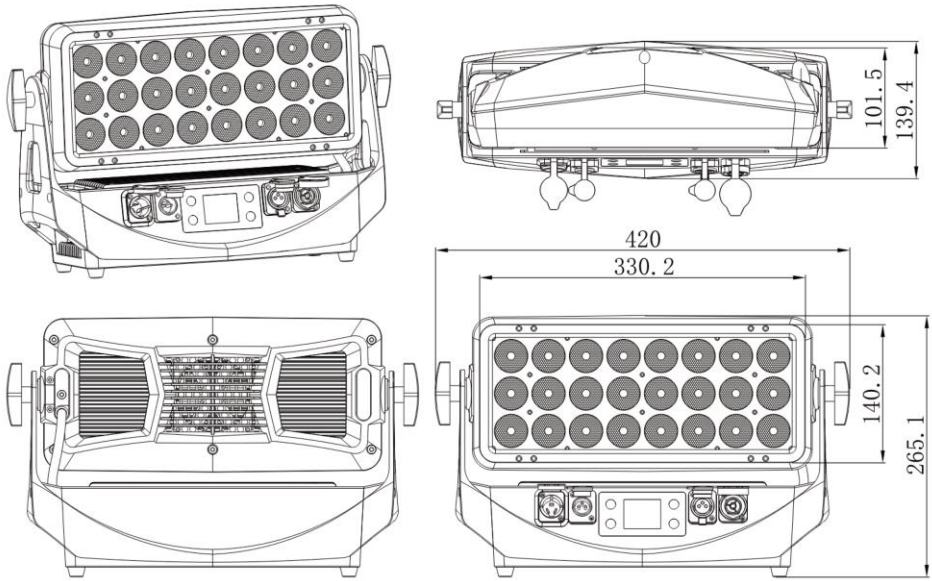
Please read the instructions carefully before use

TABLE OF CONTENTS

STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1. Dimension



2. Safety Information

WARNING! Read the safety precautions in this section before unpacking, installing, powering or operating this product.

This luminaries are multi-environmental fixtures with an IP-rating of 65, intended for professional use only. They are not suitable for household use.

Review the following safety precautions carefully before installing or operating the fixture. This fixture must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the fixture and the hazards involved.

Preventing electric shock

WARNING! Risk of electric shock.

- Always power off/unplug the fixture before removing any covers.
- Ensure that the power is turned off when connecting the fixture to the AC mains supply.
- Ensure that the fixture is electrically connected to earth (ground).
- Do not apply power if the fixture is in any way damaged.
- Do not immerse the fixture in water or liquid.

Preventing burns and fire

WARNING! Take measures to prevent burns and fire.

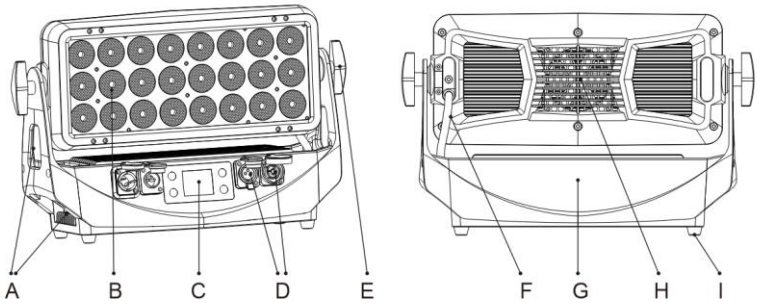
- Install in a location that prevents accidental contact with the fixture.
- Install only in a well-ventilated space.
- Install at least 0.3 m (12 in.) away from objects to be illuminated.
- Install only in accordance with applicable building codes.
- Ensure a minimum clearance of 0.1 m (4 in.) around the cooling fans.
- Do not paint, cover or modify the fixture.
- Keep all flammable materials away from the fixture.
- Allow the fixture to cool for 15 minutes after operation, before touching it.
- CAUTION: Exterior surface temperature after 5 min. operation = 45 °C (113 °F). Steady state = 60 °C (140 °F).

Avoid personal injury

WARNING! Take measure to prevent personal injury.

- Do not look directly at the light source from close range.
- Take precautions to prevent injury due to falls when working at height.
- For permanent installation, ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosion-resistant hardware.
- For temporary installation with clamps, ensure that the quarter-turn fasteners are turned fully and secured with a suitable safety cable. The cable must be approved for a safe working load (SWL) of 10 times the weight of the fixture, and it must have a minimum gauge of 3 mm.

3. Parts identification and terminology



A Handle
B 24X20W 6IN1 LEDs
C TFT LCD display control panel
D Seetronic IP65 sockets
E Tilt lock
F Connection cable
G Base
H Colling Fan
I Feet

4. Preparing for installation

Unpack the fixture and inspect it to ensure that it has not been damaged during transport.

The fixture is shipped with two quarter-turn brackets, that can be used to mount the fixture at elevation.
The fixture is IP65-rated, and is designed for use in wet locations. This means that it is protected from:

- Dust, to the degree that dust cannot enter the fixture in sufficient quantities as to interfere with its operation.
- Lower pressure jets of water from any direction.

When selecting a location for the fixture, ensure that:

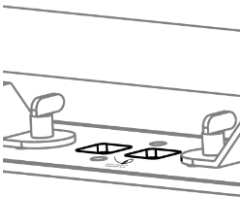
- It is situated away from public thoroughfares and protected from contact with people.
- It is not immersed in water or exposed to high-pressure water jets.
- It has adequate ventilation.

5. Installation

The fixture may be installed in any orientation, but if installed horizontally with a downward beam-angle, water can potentially pool in the fan wells. Under normal operation the moisture will evaporate. However, in locations with high rainfall, you may wish to fabricate a rain shield above the fixture, or modify the position and orientation of the fixture to minimize pooling.

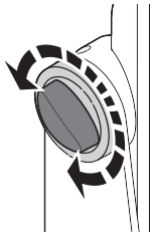
For permanent installation on the ground, remove the rubber feet from the floor stand/ base. Fasten securely through the resulting holes with four corrosion-resistant mechanical fasteners suitable for the location.

Two quarter-turn brackets are supplied with the fixture if it is to be flown above the ground. Remove the floor stand/base and rig the fixture to a support truss or structure using the supplied brackets and suitable clamps.



Fasten a safety cable (not shown) between the support structure and the attachment point on the fixture. The safety cable must be able to bear at least 10 times the weight of the fixture.

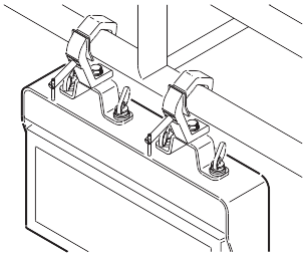
WARNING! Always secure an elevated fixture with a safety cable as backup.



The fixture can be tilted from 0° - 170°. To adjust the tilt angle, loosen the two tilt screws, one of each side of the fixture, tilt the fixture to the angle required and re-tighten the screws.

CAUTION: If the fixture has been operating, always allow it to cool for 15 minutes before handling.

6. Connecting AC Power



The fixture can operate on any 100–240 V, 50/60 Hz AC mains power supply. It draws approximately 2 amps at full power. For permanent installation, have a qualified electrician wire the mains cable directly to a suitable branch circuit.
The junction's ingress protection (IP) rating must be suitable for the location.
For temporary installation, the mains cable may be fitted with a grounded connector intended for exterior use.

When installing standard type C circuit breakers there will be no limitations due to the fixture in-rush current. Due to the nominal current of the fixture, ensure that no more than:
4 fixtures are connected through the same type C, 10A circuit breaker.
7 fixtures are connected through the same type C, 16A circuit breaker.
The fixture must be grounded/earthed and be able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.
After connecting the fixture to power, run the on-board test, using the "Manual→Auto = Jump/Fade" menu, to ensure that the fixture and each LED are functioning correctly. See "Control menu" on page 14.

CAUTION: Do not open the fixture to replace the supplied power cable, or connect the fixture to an electrical dimmer system, as this can damage it.

7. Configuring the fixture

Set up the fixture using the control panel and LCD display at the base of the fixture.
Navigate the menus and options using the arrow buttons and select items using the Enter button. The options available are listed in "Control menu" on page 14.
After powering on, the display shows the currently selected operating mode and other information.

The fixture is set by default to be controlled in DMX mode.

Master/Slave configuration
You can set a fixture to operate as master fixture to another fixture (which then becomes a slave fixture), or an entire group of fixtures (which then becomes

slave fixtures). The assigned slave fixture(s) will mimic the settings of the master fixture. Use the “Manual→Auto→Jump/ Fade” menu to set your fixture as master fixture, then other fixture set to DMX mode as slave fixture.

Setting a static color manually

The fixture can be configured to display a predefined and static color using the “Manual→Manual Dimming” menus (see “Control menu” on page 14).
It may suit your needs when you without a DMX controller to do the color mixing.

Using stand-alone operation

Stand-alone operation is where the fixture is not connected to a control device, but is preprogrammed with 2 modes (Jump/Fade), that play continuously in a loop, the run speed is adjustable.
To define a stand-alone program, use the “Manual” menus (see “Control menu” on page 14).

8. Connecting to a DMX control device

The fixture is controllable using a DMX control device and it can be connected using a DMX cable.
If using a cabled DMX system, connect the DMX in cable (with male 3-pin XLR plug) and out cable (with female 3-pin XLR plug) to the DMX data link.
Terminate the DMX out cable of the last fixture in the data link. For outdoor installations, use only IP-rated XLR connectors suitable for outdoor use.

The DMX512 is widely used in intelligent lighting control,with a DMX 512 controller.connect several lights together,dmx in and dmx out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

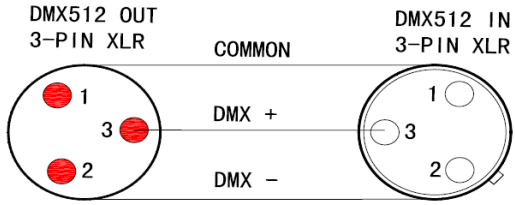
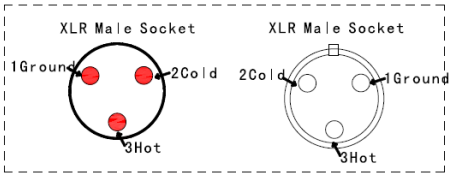


Figure2



XLR Pin Configuration
pin1=Ground
pin2=Data Compliment(negative)
pin3=Data true(positive)

9. Configuring the fixture for DMX control

About DMX

The fixture can be controlled using signals sent by a DMX controller on a number of channels (which varies depending on the DMX mode that has been set).

The first channel used to receive data from a DMX control device is known as the DMX start address. Each fixture must have a DMX start address set. For example, if a fixture has a DMX address of 10 and it is in 4-channel DMX mode, then it uses channels 10, 11,12 and 13. The following fixture in the DMX chain could then be set to a DMX address of 14. If two or more DMX fixtures of the same type have the same DMX address, then they will mimic each other's behaviour. Incorrect settings will result in unpredictable responses to the lighting controller.

Setting the DMX address

The DMX address can be seen on the main screen. To change the address setting, press the up arrow to increase the address, or the down arrow to decrease the setting. When the desired address is displayed, press Enter to save the setting.

Note that channel spacing is determined by the DMX mode.

See the "DMX protocols" on page 12 for specific DMX control values.

Setting the DMX mode

Using the "DMX mode" menu available from the control panel, specify the DMX mode that provides the fixture controls that you require, confirm chosen mode by pressing 'Enter'.

10. Cleaning

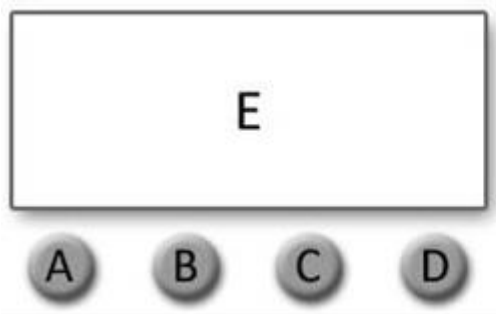
To maintain optimal performance, regular cleaning is essential. Cleaning schedules will vary depending on the operating environment, and the installation should therefore be checked at frequent intervals within the first few weeks of operation to see whether cleaning is necessary. This procedure will allow you to assess cleaning requirements in your par- ticular situation. Clean the fixture using a soft cloth dampened with a solution of water and a mild detergent. Do not use products that contain solvents, abrasives or caustic agents for cleaning, as they can cause damage to both hardware, cables and connectors.

11. DMX protocols

Channel				Value	Function
10CH	**17CH**	**14CH**	**21CH**		
1	1	1	1	0-255	**Dimmer**
	2		2	0-255	**Dimmer fine**
2	3	2	3	0-7	**No function**
				8-16	**Open**
				17-42	**Strobe ramp down**
				43-85	**Strobe pulse**
				86-128	**Strobe ramp up down**
				129-171	**Strobe**
				172-214	**Strobe ramp up**
				215-244	**Strobe**
				245-255	**Open**
		3	4	0-255	**Strobe speed slow to fast**
		4	5	0-4	**No effect**
				5-50	**Color jump**
				51-100	**Color Fade**
				101-150	**Color Pulse**
				151-200	**Macro combined**
				201-255	**Reserved**
		5	6	0-255	**Macro speed**
		6	7	0-255	**Duration**
3	4	7	8	0-255	**Red**
	5		9	0-255	**Red fine**
4	6	8	10	0-255	**Green**
	7		11	0-255	**Green fine**
5	8	9	12	0-255	**Blue**
	9		13	0-255	**Blue fine**

6	10	10	14	0-255	**Amber**
	11		15	0-255	**Amber fine**
7	12	11	16	0-255	**Lemon**
	13		17	0-255	**Lemon fine**
8	14	12	18	0-255	**Cyan**
	15		19	0-255	**Cyan fine**
9	16	13	20	0-255	**CTC**
10	17	14	21	0-15	**No function**
				16-23	**Fan speed automatic**
				24-31	**Fan speed high**
				32-39	**Fan speed low**
				64-119	**No function**
				120-127	**Dimming curve 1**
				128-135	**Dimming curve 2**
				136-143	**Dimming curve 3**
				144-151	**Dimming curve 4**
				152-159	**Dimming speed 1**
				160-167	**Dimming speed 2**
				168-175	**Dimming speed 3**
				176-183	**Dimming speed 4**
				184-191	**Dimming speed 5**
				192-199	**Screen always on**
				200-207	**Screen off after 10 sec**
				208-215	**Screen off after 60 sec**
				240-255	**No function**

12. Control menu



A. MENU
B. UP
C. DOWN
D. CONFIRM
E. DIGITAL DISPLAY WINDOW

Display:

MENU To select the programming functions **(press to unlock screen) DOWN** To go backward in the selected functions
UP To go forward in the selected functions
ENTER To confirm the selected functions

Set DMX Address:

1. Press "**MENU**" to unlock screen, then select the "**DMX Address**" and press "**ENTER**".
2. Showing "**Set DMX Address 001**", Press the "**UP** or **DOWN**" key to increase or decrease the DMX address value.
3 Press "**ENTER**" to save and Exit, Press "**Cancel**" does not save and Exit.

Level 1	Level 2	Description
DMX512	Channel	10CH / 14CH / 17CH / 21CH
	DMX Address	001-512
Settings	Display Mode	Always On / 10s Off / 60s Off
	Dimmer Mode	DIM1 / DIM2 / DIM3 / DIM4 / DIM5
	Fan Mode	Auto / High / Low
	Screen Lock	On / Off Unlock password [↑ ↑ ↓ ↓ ENTER ENTER]
	No Signal	Blackout / Hold
	Dimming curves	curves1 / curves2 / curves3 / curves4
	Screen Flip	Yes / No
	DimFRQ	1khz / 20khz
	Reset	Setting Defaults
Manual	Manual Dimming	R/G/B/A/L/C
	Auto	Jump / Fade / Pulse / Combined
Message	Work Time	
	Temperature	
	Version	
	RDM UID	
	Language	

13. Specification

Light Source

Source: 24X20W 6-IN-1 RGBALC LEDs

Flicker free operation for broadcast TV and FILM

Life Span: 50,000 hours

The life span may vary depending on several following factors but not limited to:

Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming, etc)

Optics
24PCS high efficiency acrylic lens
25ºLens
Magnetic diffuser / frost filter
Magnetic 8 way barndoors

Colors
Sophisticated 6 colors RGBALC mixed
Even and soft light
coverage with pure mixing
Preset color macros

Strobe Effect
0-25Hz high speed shutter/strobe effect with variable speed

Dimming System
0-100% Smooth linear LED dimming
Smoother dimming mode available

Control System
10/14/17/21 DMX channels
DMX512, RDM, Master-slave, Auto,
Multi preset internal programs
Shielded input signal protection for stable signal without interference
Seetronic IP65 3-Pin or 5-Pin XLR connectors IN/OUT

Display System
1.77" TFT LCD display
English

4 control touch buttons
180°Reversible for LCD display
Display auto OFF

Cooling System
Active, Forced Air, Temperature regulated
Over temperature protection management

Power Supply
600W Power supply
AC100-240V 50/60Hz
Seetronic IP65 PowerCON TRUE1 IN/OUT

Housing
Aluminium, steel, plastic PC/ASA, rubber, Lens PE and tempered glass front
Tilt angle manually adjustable
Two side handles on base
Exterior finish: Black

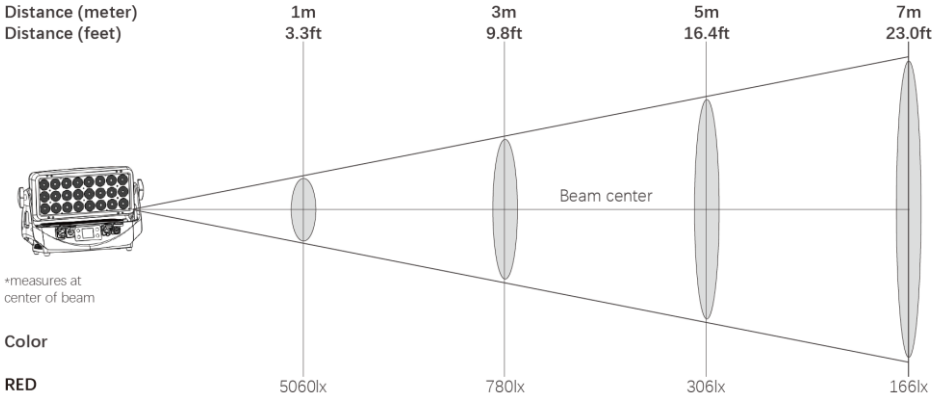
Installation
2*1/4 turn fastening Omega Clamps
1*Safety attachment point

Operating Condition
-25° to 45° ambient temperature
IP65 protection rating

Weight
N.W.: 6.6kg

Dimensions
Product Dimensions: 420(D)*140(W)*265(H)mm

14. Photometrics



Color	1m	3m	5m	7m
RED	5060lx	780lx	306lx	166lx
GREEN	15800lx	2200lx	880lx	478lx
BLUE	32500lx	3180lx	1503lx	810lx
AMBER	11600lx	1522lx	596lx	323lx
LEMON	15500lx	2160lx	845lx	458lx
CYAN	11950lx	1686lx	656lx	357lx
RGBALC full	83600lx	9660lx	3740lx	2000lx