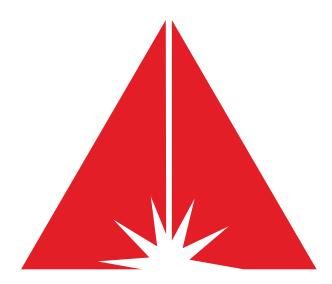
USER MANUAL





RAW 20 FB4 (IP65) **RAW** 30 FB4 (IP65) **RAW** 40 FB4 (IP65)

Notice

AVOID EYE OR SKIN EXPOSURE

TO DIRECT OR SCATTERED LIGHT

CLASS 4 LASER PRODUCT

Manufactured / Certified by

Unity Lasers s.r.o.
Odboraska, 23
831 02 Bratislava
Slovakia, Europe
UNITY Laser LLC

1265 Upsala Road, Suite 1165, Sanford, FL 32771 Classified per IEC 60825-1: 2014

Complies with US FDA CDHR laser safety standards 21 CFR 1040.10 & 1040.11 and Laser notice

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INTRODUCTION

Thank you for purchasing this purchase. To optimize the performance of your laser, please read these operating instructions carefully and familiarize yourself with the basic operations of this system. These instructions contain important safety information regarding the use and maintenance of this system as well. Please keep this manual with the unit, for future reference. If you sell this product to another user, be sure that they also receive this document.

NOTICE

- We are constantly striving to improve the quality of our products. As such, the content of this manual may be changed without notice.
- We have tried our best to guarantee the accuracy of this manual. If you have any questions or find any errors, please contact us directly to help address this.

WHAT IS INCLUDED

Name	Pcs.	Notes
RAW 20/30/40 laser w/ Integrated FB4 DMX	1	
IP65 housing	1	
Heavy duty flight case	1	
Estop safety box	1	
Estop cable (10M / 30FT)	1	
Ethernet cable (10M / 30FT)	1	
Power cable (3M / 9FT)	1	
Interlock	1	
Keys	4	
Outdoor RJ45 connectors	2	
Manual	1	
Quickstart guide	1	
Variance card	1	

UNPACKING INSTRUCTIONS

- Open the package and carefully unpack everything inside.
- Ensure all parts are present and in good condition.
- Do not use any equipment that appears to be damaged.
- If any parts are missing or damaged then please immediately notify your carrier or local distributor.

GENERAL INFORMATION

The following chapters explain important information about lasers in general, basic laser safety and some tips about how to use this device correctly. Please read this information as it contains critical information you must be aware of, prior to using this system.

SAFETY NOTES

WARNING! This projector is Class 4 laser product. It must never be used for audience-scanning applications. The output beam of the projector must always be at least 3 metres above the floor in the audience. See the Operating Instructions section for further information.

Please read the following notes carefully! They include important safety information about the installation, usage, and maintenance of this product.

- Keep this user manual for future consultation. If you sell this product to another user, be sure that they also receive this document.
- Always make sure that the voltage of the outlet to which you are connecting this product is within the range stated on the decal or rear panel of the product.
- This product is not designed for use outdoors in adverse weather conditions. To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Always disconnect this product from the power source before cleaning it or replacing the fuse.
- Make sure to replace the fuse with another of the same type and rating.
- If mounting is overhead, always secure this product to a fastening device using a safety chain or a cable.
- In the event of a serious operating problem, stop using the projector immediately. Never try to repair the unit except in a controlled environment under trained supervision. Repairs carried out by unskilled people can lead to damage or malfunction of the unit, as well as exposure to dangerous laser light.
- Never connect this product to a dimmer pack.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Never carry a product from the power cord or any moving part. Always use the hanging/mounting bracket or the handles.
- Always avoid eye or skin exposure to direct or scattered light from this product.
- Lasers can be hazardous and have unique safety considerations. Permanent eye injury and blindness is
 possible of lasers are used incorrectly. Pay close attention to each safety REMARK and WARNING statement
 in this user manual. Read all instructions carefully BEFORE operating this device.
- Never intentionally expose yourself or others to direct laser light.
- This laser product can potentially cause instant eye injury or blindness if laser light directly strikes the eyes.
- It is illegal and dangerous to shine this laser into audience areas, where the audience or the other personnel could get direct laser beams or bright reflections into their eyes.
- It is a US Federal offense to shine any laser at aircraft.
- No service allowed by customer. There are no user serviceable parts inside the unit. Do not attempt any repairs yourself.
- Service is only to be handled by the factory or authorized factory trained technicians. Product is not to be modified by the customer.
- <u>Caution</u> use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

LASER AND SAFETY NOTES

STOP AND READ ALL THE LASER SAFETY NOTES BELOW

Laser Light is different from any other light sources with which you may be familiar. The light from this product can cause eye and skin injury if not set up and used properly. Laser light is thousands of times more concentrated than light from any other kind of light source. This concentration of light can cause instant eye injuries, primarily by burning the retina (the light sensitive portion at the back of the eye). Even if you cannot feel "heat" from laser beam, it can still potentially injure or blind you or your audience. Even very small amounts of laser light are potentially hazardous even at long distances. Laser eye injuries can happen quicker than you can blink. It is incorrect to think that because these laser entertainment products use high speed scanned laser beams, that an individual laser beam is safe for eye exposure. It is also incorrect to assume that because the laser light is moving, it is safe. This is not true.

Since eye injuries can occur instantly, it is critical to prevent the possibility of any direct eye exposure. It is not legal to aim this laser projector into areas where people can be exposed. This is true even if it is aimed below people's faces, such as on a dance floor.

- Do not operate the laser without first reading and understanding all safety and technical data in this manual.
- Always set up and install all laser effects so that all laser light is at least 3 metres (9.8 feet) above the floor on which people can stand. See the "Proper Usage" section later in this manual.
- After set up, and prior to public use, test the laser to ensure proper function. Do not use if any defect is detected.
- Laser Light Avoid Eye or Skin Exposure to Direct or Scattered Light.
- Do not point lasers at people or animals.
- Never look into the laser aperture or laser beams.
- Do not point lasers in areas where people can potentially be exposed, such as uncontrolled balconies, etc.
- Do not point lasers at highly reflective surfaces, such as windows, mirrors and shiny metal objects. Even laser reflections can be hazardous.
- Never point a laser at aircraft, as this is a US Federal Offense.
- · Never point un-terminated laser beams into the sky.
- Do not expose the output optic (aperture) to cleaning chemicals.
- Do not use the laser if the housing is damaged, open, or if the optics appear damaged in any way.
- Never leave this device running unattended.
- In the United States, this laser product may not be purchased, sold, rented, leased or loaned for use unless the recipient possesses a valid Class 4 laser light show variance from the US FDA CDRH.
- This product must always be operated by a skilled and well-trained operator who is familiar with the valid Class 4 laser light show variance from the CDRH as stated above.
- The legal requirements for using laser entertainment products vary from country to country. The user is responsible for the legal requirements at the location/country of use.
- · Always use appropriate lightning safety cables when hanging this projector overhead.

LASER EMISSION DATA

- Class 4 Laser Projector Avoid Eye and Skin Exposure to Direct or Scattered Light!
- This Laser Product is designated as Class 4 during all procedures of operation.
- Further guidelines and safety programs for safe use of lasers can be found in the ANSI Z136.1 Standard
 "For Safe Use of Lasers", available from the Laser Institute of America: www.laserinstitute.org. Many local
 governments, corporations, agencies, military and others, require all lasers to be used under the guidelines
 of ANSI Z136.1.

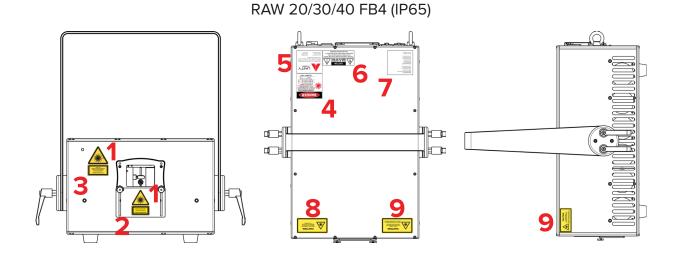
UNITY Lasers s.r.o.

- · Laser Classification Class 4
- Red Laser Medium AlGalnP, 639 nm, depending on model
- Green Laser Medium InGaN, 520-525 nm, depending on model
- Blue Laser Medium InGaN, 445 nm to 465 nm depending on model
- Beam Diameter <10 mm at aperture
- Divergence (each beam) <2 mrad
- Maximum total output power 1,7 10W depending on model

LASER COMPLIANCE STATEMENT

- This laser product complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 56, dated May 8, 2019. This laser device is classified as a Class 4 demonstration laser product.
- No maintenance is required to keep this product in compliance with laser performance standards.

PRODUCT SAFETY LABEL LOCATION



FRONT PANEL

- 1. Hazard Warning Symbol
- 2. Exposure Label
- 3. Laser Light Warning Label

TOP PANEL

- 4. Danger Label
- 5. Certification Label
- 6. Caution Warning Label
- 7. Manufacturer Label
- 8. Aircraft Warning Label
- 9. Interlock Label

See next page for large reproductions of the product labels. All these labels must be intact and legible prior to using the projector.

PRODUCT SAFETY LABELS



Logotype Danger Label



Hazard Warning Symbol



Aperture Label



Aircraft Warning Label



Interlocked Housing Label



Laser Light Warning Label



This product is in conformity with performance standards for laser products under 21 CFR Part 1040.10 and 1041.11 except with respect to those characteristics authorized by:

Variance Number: 2020-V-1695 Effective Date: July 24, 2020 Variance Contact: John Ward

Certification Label

Unity Lasers, LLC

1265 Upsala Road, Suite 1165 Sanford, FL 32771 www.unitylasers.com +1(407) 299-2088 info@unitylasers.com

Unity Lasers S.R.O.

Odborarska 23 831 02 Bratislava Slovak Republic www.unitylasers.eu +421 265 411 355 info@unitylasers.eu

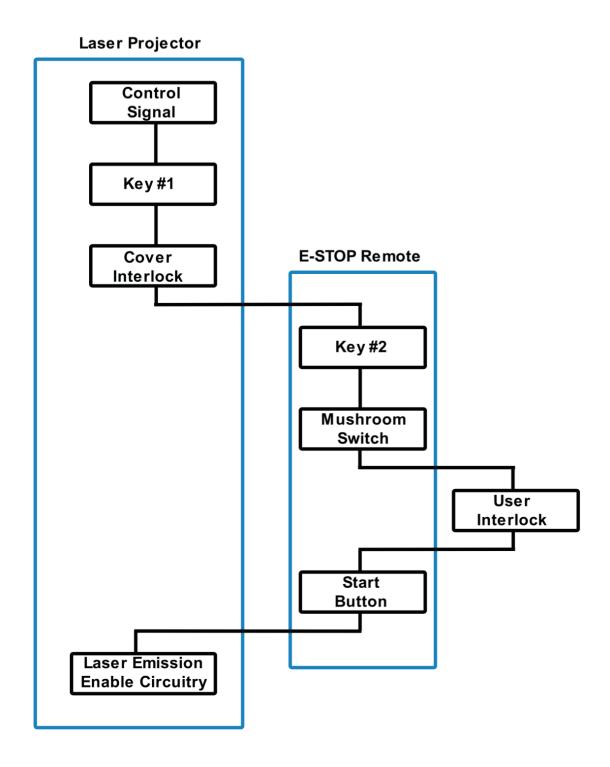
Model: XXXXXX Serial #: XXXXXX

Manufacturer Label



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK PANEL. SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. **Caution Warning Label**

INTERLOCK CONNECTION DIAGRAM



INSTRUCTIONS FOR USING E-STOP SYSTEM

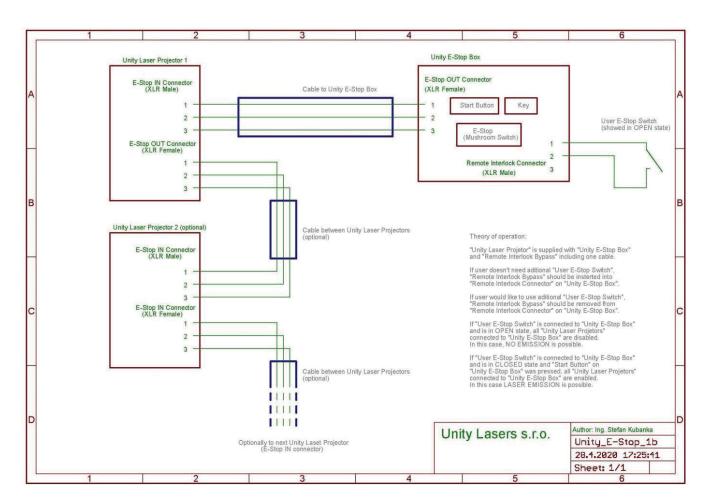
Connect the E-stop box to the 3-pin interlock connector on the rear of the laser projector using a 3-PIN XLR cable.

** Note that the E-stop box has an available secondary interlock port. The secondary port is to be used to interface a secondary interlock device (e.x. door switch or pressure sensitive step pad). If a secondary interlock device is NOT used then the secondary port must have the bypass shunt plug inserted.





The diagram below outlines the pinout configuration for the 3-pin connection from E-STOP box to the rear of the projector.

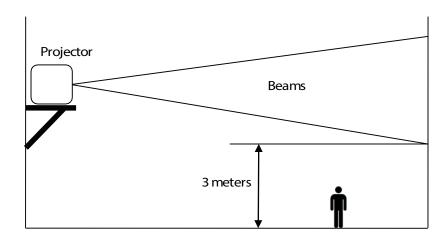


THEORY OF OPERATION

"UNITY Laser projector" is supplied with "E-Stop Box" and "Remote Interlock Bypass" including one cable. If user doesn't need additional "User E-Stop Switch", "Remote Interlock Bypass" should be inserted into "Remote Interlock Connector" on "E-Stop Box". If the user would like to use additional "User E-Stop Switch", "Remote Interlock Bypass" should be removed from "User E-Stop Connector" on "E-Stop Box". If the "User E-Stop switch" is used, then laser emission is ONLY possible, when it is in CLOSED state, and also all other safety features are satisfied (e.g. mushroom switch, keyswitches, scanfail safety, ...)

PROPER USAGE

This product is for overhead mounting only. For safety purposes, this projector should be mounted on steady elevated platforms or sturdy overhead supports using suitable hanging clamps. In all cases, you must use safety cables. International laser safety regulations require that the laser products must be operated in the fashion illustrated below, with a minimum of 3 metres (9.8 ft.) of vertical separation between the floor and the lowest laser light vertically. Additionally, 2.5 metres of horizontal separation is required between laser light and the audience or other public spaces. The audience area can be passively protected by sliding the aperture cover plate upwards and fixing it in proper position by the two thumb screws.



RIGGING

- Be sure that the structure onto which you are mounting this product can support its weight.
- Mount the product securely. You can do this with a screw, a nut, and a bolt. You may also use a mounting clamp if rigging this product onto a truss. The U-shaped support bracket has three mounting holes which may be used to secure the clamps to the projector.
- When mounting this product overhead, always use a safety cable.
- Always consider ease of access to the unit before deciding on a location for this product.

<u>Caution</u> – use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This Laser Product is designated as Class 4 during all procedures of operation.

<u>REMINDER:</u> In the United States, this laser product may not be purchased, sold, rented, leased or loaned for use unless the recipient possesses a valid Class 4 laser light show variance from the US FDA CDRH.

OPERATION

CONNECTING THE LASER SYSTEM

- To control the system with an external signal such as Ethernet or ILDA, plug the corresponding cable into
 its designated connector at the back of the unit.
- 2. Connect the Emergency STOP remote to the socket labled as a "Remote Input" with the supplied 3-pin XLR cable.
- 3. Insert the Remote Interlock Bypass to the E-STOP Remote to disable the interlock (USA only).
- 4. Use supplied Neutrik powerCON power cable to connect the laser system to a main power supply usign the input connector.

INSERT THE SAFETY KEYS

- 1. Turn the laser system key to the on position.
- 2. Turn the E-STOP remote key to the on position.

DISABLE THE INTERLOCK

- 1. Release the E-STOP button by pulling upwards.
- 2. Press the START button on the E-STOP remote.

TURNING OFF THE LASER SYSTEM

- 1. Turn off the key switch; and deactivate via the red mushroom switch on the E-stop box. You can remove the 3-pin Interlock bo too, if the laser will be kept for no use. (We recommend having a professional operator to keep the keys and 3-pin Interlock switch.)
- 2. Turn off the power to the projector via the power switch.

SAFETY TESTS

E-STOP FUNCTION

- With the projector operating and projecting laser light, press the red E-stop switch. The projector must shut off immediately.
- Fully extend the red E-stop switch, until a yellow collar is visible on the switch system. The projector must not emit any laser light.
- Press the start button on E-stop box. The projector should now re-start and begin emitting laser light.
- · Verify thar the emission indicatir is now lit.

INTERLOCK RESET FUNCTION (POWER)

- With the projector operating and projecting laser light, unplug the AC power cable. The projector must shut off immediately.
- Plug the power cable back in. The projector must not emit any laser light.
- Press the start button on the E-stop box. The projector should now re-start and begin emitting laser light.
- Verify that the emission indicator is now lit.

KEY SWITCH FUNCTION

- With the projector operating and projecting laser light, turn the key switch on the remote E-stop control unit to off. The projector must shut off immediately.
- Turn the key switch back to on. The projector must not emit any laser light.
- Press the start button on the E-stop box. The projector should now re-start and begin emitting laser light.
- Verify that the emission indicator is now lit.

INTERLOCK RESET FUNCTION (REMOTE INTERLOCK BYPASS)

- With the projectoroperating and projecting laser light, remove Remote Interlock Bypass. The projector must shut off immediately.
- Plug the Remote Interlock Bypass back in. The projector must not emit any laser light.
- Press the start button on the E-stop box. The projector should now re-start and begin emitting laser light.
- · Verify that the emission indicator is now lit.

If any of the above tests fail, the projector must be taken out of service and returned to the manufacturer for repair.

PRODUCT SPECIFICATION (RAW 20 FB4 (IP65))

Product Name:	Unity RAW 20 FB4 (IP65)
Type Of Laser:	Full-color, Semiconductor diode laser system
Guaranteed Optical Output:	>20W
Suitable For:	Arena sized venues (up to 20,000 people), outdoor shows. Beam show, text, graphic, and mapping capable
Control Signal:	Pangolin FB4 DMX [Ethernet, ArtNet, DMX, sACN, ILDA PC, Lighting Console, Auto Mode, Mobile App: Apple, Android]
Scanning System:	40,000 points per second @ 8°
Scan Angle:	50°
Safety:	Fully complies with the latest EN 60825-1 and FDA regulations
Weight:	30kg
Package Includes:	Laser projector w/ FB4 DMX, IP65 housing, heavy duty flight case, Estop box, Estop cable (10M/30ft), ethernet cable (10M/30ft), power cable (3M/9ft), interlock, keys, manual, quickstart guide, variance card (* service dongle if outside US)
R G B [mW]:	6,000 6,000 8,000
Beam Size [mm]:	5 x 5.6
Beam Divergence:	<1.1mrad [Full Angle]
Modulation:	Analog, up to 100kHz
Power Requirements:	100-230V/50Hz
Consumption:	Max. 600W
Operation Temperature:	(-10 °C)-45 °C
Ingress Rating:	IP65
System Features:	All the adjustments, such as power output of each color, X & Y axes invert, X & Y size and position, safety, etc., are managed digitally by the FB4 control system. Ethernet in, power in/out, DMX in/out, Estop in/out, ILDA in.
Laser Safety Features:	Keyed interlock, Emission delay, Magnetic interlock, Scan-fail safety, Mechanical shutter, Adjustable aperture masking plate
Notice:	*Due to Advanced Optical Correction technology used in our laser systems, each laser colour's optical power output may slightly differ from the specification of the respective laser module(s) installed. This does not affect the total guaranteed power output
Dimensions [mm]:	Depth: 468 Width: 308 Height: 218

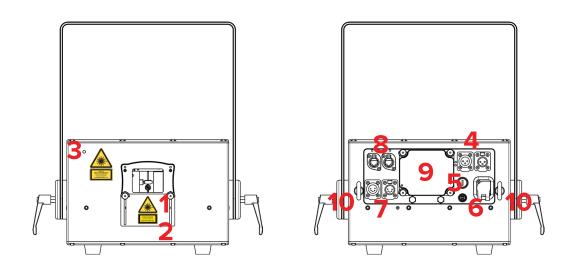
PRODUCT SPECIFICATION (RAW 30 FB4 (IP65))

Product Name:	Unity RAW 30 FB4 (IP65)
Type Of Laser:	Full-color, Semiconductor diode laser system
Guaranteed Optical Output:	>30W
Suitable For:	Stadium sized venues (up to 30,000 people), large outdoor shows. Beam show, text, graphic, and mapping capable
Control Signal:	Pangolin FB4 DMX [Ethernet, ArtNet, DMX, sACN, ILDA PC, Lighting Console, Auto Mode, Mobile App: Apple, Android]
Scanning System:	40,000 points per second @ 8°
Scan Angle:	50°
Safety:	Fully complies with the latest EN 60825-1 and FDA regulations
Weight:	30kg
Package Includes:	Laser projector w/ FB4 DMX, IP65 housing, heavy duty flight case, Estop box, Estop cable (10M/30ft), ethernet cable (10M/30ft), power cable (3M/9ft), interlock, keys, manual, quickstart guide, variance card (* service dongle if outside US)
R G B [mW]:	8,000 10,000 12,000
Beam Size [mm]:	6 x 6.5
Beam Divergence:	<1.1mrad [Full Angle]
Modulation:	Analog, up to 100kHz
Power Requirements:	100-230V/50Hz
Consumption:	Max. 800W
Operation Temperature:	(-10 °C)-45 °C
Ingress Rating:	IP65
System Features:	All the adjustments, such as power output of each color, X & Y axes invert, X & Y size and position, safety, etc., are managed digitally by the FB4 control system. Ethernet in, power in/out, DMX in/out, Estop in/out, ILDA in.
Laser Safety Features:	Keyed interlock, Emission delay, Magnetic interlock, Scan-fail safety, Mechanical shutter, Adjustable aperture masking plate
Notice:	*Due to Advanced Optical Correction technology used in our laser systems, each laser colour's optical power output may slightly differ from the specification of the respective laser module(s) installed. This does not affect the total guaranteed power output
Dimensions [mm]:	Depth: 468 Width: 308 Height: 218

PRODUCT SPECIFICATION (RAW 40 FB4 (IP65))

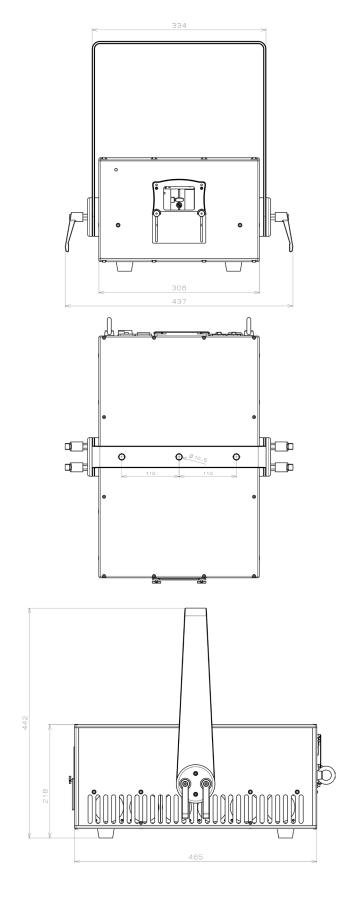
Product Name:	Unity RAW 40 FB4 (IP65)
Type Of Laser:	Full-color, Semiconductor diode laser system
Guaranteed Optical Output:	>4t0W
Suitable For:	Stadium sized venues (over 30,000 people), large outdoor shows. Beam show, text, graphic, and mapping capable
Control Signal:	Pangolin FB4 DMX [Ethernet, ArtNet, DMX, sACN, ILDA PC, Lighting Console, Auto Mode, Mobile App: Apple, Android]
Scanning System:	40,000 points per second @ 8°
Scan Angle:	50°
Safety:	Fully complies with the latest EN 60825-1 and FDA regulations
Weight:	30kg
Package Includes:	Laser projector w/ FB4 DMX, IP65 housing, heavy duty flight case, Estop box, Estop cable (10M/30ft), ethernet cable (10M/30ft), power cable (3M/9ft), interlock, keys, manual, quickstart guide, variance card (* service dongle if outside US)
R G B [mW]:	10,000 13,000 17,000
Beam Size [mm]:	6.5 × 6.7
Beam Divergence:	<1.1mrad [Full Angle]
Modulation:	Analog, up to 100kHz
Power Requirements:	100-230V/50Hz
Consumption:	Max. 900W
Operation Temperature:	(-10 °C)-45 °C
Ingress Rating:	IP65
System Features:	All the adjustments, such as power output of each color, X & Y axes invert, X & Y size and position, safety, etc., are managed digitally by the FB4 control system. Ethernet in, power in/out, DMX in/out, Estop in/out, ILDA in.
Laser Safety Features:	Keyed interlock, Emission delay, Magnetic interlock, Scan-fail safety, Mechanical shutter, Adjustable aperture masking plate
Notice:	*Due to Advanced Optical Correction technology used in our laser systems, each laser colour's optical power output may slightly differ from the specification of the respective laser module(s) installed. This does not affect the total guaranteed power output
Dimensions [mm]:	Depth: 468 Width: 308 Height: 218

FRONT & REAR PANEL VIEW (RAW 20/30/40 FB4 (IP65))



NO.	Name	Function
1.	Laser Aperture	Laser output, do not look directly into this aperture.
2.	Aperture Masking Plate	Can be moved up and down when two locking bolts are loosened.
3.	Laser Emission	When this Indicator is lit up the laser system is ready to emit the laser radiation as soon as It receives Instructions from control software.
4.	3-Pin Interlock	Laser output Is available only when the Interlock is connected. It could be used to connect a laser emergency switch.
5.	Key Switch	Turn the key switch ON to allow laser output.
6.	Power IN	AC100~230V power input and output sockets.
7.	DMX IN & OUT	Use these ports to connect DMX control signal or to daisy chain the DMX signal between multiple laser display systems.
8.	Ethernet	Used to control the laser system via a PC or via ArtNET.
9.	FB4 Control Interface	The inbuilt control interface allows you to control the laser via Ethernet and DMX/ArtNet, but it also handles all the basic settins of the laser system master size and positions, method of control, colour settings etc. All of these settings can be accessed through the menu using the endless rotary knob and once saved, they are stored on included mini SD card.
10.	Safety Eyelet	Use this together with approriate safety wire to secure the system against unexpected fall.

DIMENSION DETAILS (RAW 20/30/40 FB4 (IP65))



TECHNICAL INFORMATION - MAINTENANCE

GENERAL CLEANING INSTRUCTIONS - TO BE DONE BY USER

Due to fog residue, smoke, and dust cleaning the external body of the projector should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operares (l.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will wnsure longevity and crisp output.

- Unplug the product from power.
- Wait until the product is cold.
- Use a soft damp cloth to wipe down the outside projector casing.
- Use compressed air and a brush to wipe down the cooling vents and fan grill(s).
- Clean the glass panel (laser aperture) with glass cleaner and a soft cloth when dirty.
- · Gently polish the glass surface until it is free of haze and lint.
- Always be sure to dry all parts completely before plugging the unit back in.

SERVICE

There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. In the unlikely event your unit may require service, please contact us directly or your local distributor, who will help you with a repair or replacement. We will not accept any liability for any resulting damages caused by the non-observance of this manual or any unauthorized modofication to this unit.

