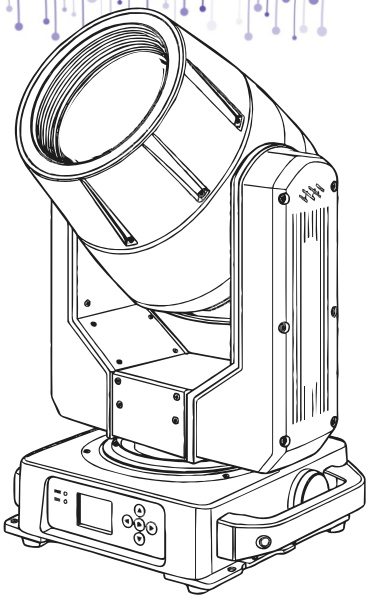
series DJ by FLASH



USER MANUAL

BEAM 17R IP65

F7100809

1. INTRODUCTION

THANK YOU FOR PURCHASING THE **FLASH DJ BEAM 17R IP65**. FOR SAFETY REASONS AND TO ENSURE RELIABLE OPERATION AND OPTIMAL PERFORMANCE, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE USING THE DEVICE.

2. SAFETY INSTRUCTIONS

□ Installation of the device must be carried out exclusively by qualified personnel with appropriate knowledge of electrical installations and lighting equipment mounting.

□ Before connecting the device to the mains supply, check for any mechanical damage caused during transportation. Do not operate the device if any damage is detected.

□ Before installation, maintenance or cleaning, disconnect the device from the power supply and allow it to cool down completely.

□ Connect the device only to a power supply that complies with its technical specifications. The protective earth (PE) conductor must be properly connected to ground.

□ The device is intended for professional use only. It must not be operated by untrained personnel.

□ The device has an IP65 protection rating, allowing outdoor use. All covers, seals and connectors must be properly closed and secured to maintain the specified protection rating.

The permissible ambient operating temperature ranges from −25°C to +40°C. Do not operate the device outside this temperature range.

□ Install the device on stable structures with sufficient load-bearing capacity. When mounting the device overhead, always use an independent secondary safety attachment, such as a safety cable.

□ Before operation, ensure that PAN and TILT movements are not obstructed by structural elements, cables or other obstacles.

□ Never look directly into the light source while the device is operating. The intense, concentrated light beam may cause serious eye damage.

□ Do not direct the light beam towards people, flammable materials or surfaces located too close to the device.

□ Do not point the front lens towards the sun or other intense light sources. The optical system may concentrate radiation, causing overheating, damage to the device or a fire hazard.

□ During operation, the housing and optical components may reach high temperatures. Do not touch hot surfaces or obstruct any components responsible for cooling.

□ Do not open the housing or attempt to repair the device yourself. Dangerous electrical voltages are present inside, and some components may remain hot after the power supply has been disconnected.

□ In the event of malfunction, unusual noises, a burning smell or visible damage, immediately stop using the device and disconnect it from the power supply.

□ Do not use organic solvents, aggressive detergents or abrasive materials to clean the housing or optical components.

□ Regularly inspect the condition of power cables, connectors, mounting components, seals and mechanical safety devices.

□ Any repairs or servicing requiring access to the internal components of the device must be carried out exclusively by qualified personnel.

WARNING

WARNING! The moving head is equipped with high-torque motors. Sudden PAN and TILT movements may cause the base to shift if the device is not properly secured. Do not operate the device unless its base is securely attached to the supporting structure or otherwise protected against movement.

WARNING! Two appropriately rated mounting brackets must be used when installing the device on a supporting structure. Never suspend the device using only one bracket. All mounting components must be properly secured and locked.

WARNING! When mounting the device on a truss or other supporting structure, use clamps with sufficient load-bearing capacity to ensure secure installation. An independent safety cable must also be used.

WARNING! Do not expose the front lens to direct sunlight or other intense light sources, even for a short period. The optical system may concentrate radiation, causing overheating, damage to the device or a fire hazard.

IMPORTANT! Do not direct intense light from other fixtures onto the optical components of the moving head. Concentrated radiation may damage the internal components of the device.

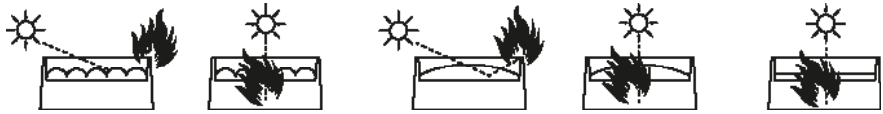


Figure 1. The moving head lens may concentrate sunlight and intense light, creating a risk of overheating, fire or damage to the device. If necessary, reposition or cover the moving head.

3. PRODUCT INFORMATION

FLASH DJ BEAM 17R IP65 is a professional BEAM moving head equipped with a 380 W 17R discharge lamp. The device produces an intense, narrow 2° light beam and enables dynamic lighting effects using a color wheel, GOBO wheel and two rotating prisms.
PAN and TILT movement, mechanical dimming, strobe effects, motorized focus adjustment, and Frost and Rainbow effects provide a wide range of lighting possibilities. The IP65-rated housing makes the device suitable for both indoor and outdoor use.

- □ Light source: 380 W 17R discharge lamp
- □ Color temperature: 8500 K
- □ CRI: 65
- □ Power consumption: 500 W
- □ Power supply: AC 100–240 V, 50/60 Hz
- □ PAN range: 540° (16-bit)
- □ TILT range: 270° (16-bit)
- □ Beam angle: 2°
- □ Color wheel: 13 colors + open
- □ GOBO wheel: 15 static gobos + open
- □ GOBO Shake effect: Yes
- □ Prisms: 8-facet and 48-facet, circular
- □ Prism rotation: Bidirectional
- □ Frost filter: Light, motorized
- □ Rainbow effect: Yes
- □ Focus: Motorized (8-bit)
- □ Dimmer: Mechanical (8-bit)
- □ Strobe: 1–20 Hz
- □ Pulse and random strobe effects: Yes
- □ RGB LED ring: Yes
- □ Operating modes: DMX512, RDM, Sound, Auto, Master/Slave
- □ Number of DMX modes: 1
- □ DMX channels: 22
- □ Display: Color LCD
- □ Control buttons: Capacitive (touch-sensitive)
- □ Cooling: Active
- □ Protection rating: Ip65
- □ Housing: Black ABS
- □ Power IN/OUT: TrueCON IP65
- □ DMX IN/OUT: 3-pin XLR IP65
- □ Operating temperature: −25°C to +40°C
- □ Dimensions: 36 × 31 × 59 cm
- □ Net weight: 20 kg

4. INSTALLATION

After unpacking the device, check for any damage that may have occurred during transportation. If any mechanical damage is detected, do not connect the device to the power supply.

Before installation, ensure that the mounting structure is stable and has sufficient load-bearing capacity. The device can be placed on a stable, level surface or mounted on a suitable structure using two mounting brackets.

When mounting the device on a truss, use appropriately rated clamps and an independent safety cable attached to the designated safety attachment point. All mounting components must be properly tightened and secured against loosening.

Ensure sufficient clearance for unrestricted PAN and TILT movement. The minimum distance from illuminated surfaces must be at least 1 m, and the distance from flammable materials must be at least 0.5 m.

During installation, ensure adequate airflow around the device. Do not block ventilation openings or place the device in locations that may restrict cooling efficiency.

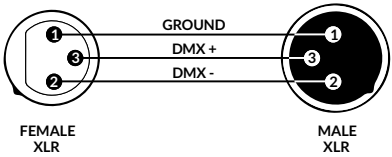
Before connecting the device to the mains supply, verify that the supply voltage and frequency meet the device requirements. The device must be connected to an electrical installation with a properly functioning protective earth (PE) connection.

When using the device outdoors, ensure that all connectors, covers and sealing components are properly secured to maintain the IP65 protection rating.

Installation and all electrical connection work must be carried out by qualified personnel.

5. CONNECTIONS

The device is equipped with the following connectors:
DMX IN/OUT – 3-pin XLR IP65
AC IN/OUT – TrueCON IP65



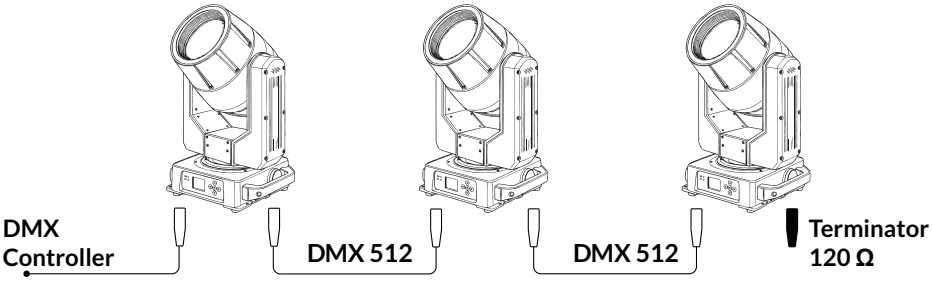
5.1 DMX Signal Connection

The devices are connected using DMX signal cables equipped with 3-pin XLR connectors.

Connect the DMX signal from the controller to the DMX IN connector of the first device. The DMX OUT connector allows the signal to be transmitted to the next device in the chain.

For long DMX lines, it is recommended to use a 120 Ω terminator connected between pins 2 and 3 at the end of the line.

When using the device outdoors, appropriate cables and connectors must be used to maintain the IP65 protection rating.



5.2 Power Supply Specifications

Supply Voltage	Power Consumption	Supply Frequency
100~240V AC	500W	50/60Hz

5.3 Power Connection

The device is equipped with TrueCON IP65 power connectors:
AC IN – Power input.
AC OUT – Power output for connecting another device.

Before connecting the device, ensure that the mains supply parameters meet the device.

When connecting multiple devices via the AC IN/OUT connectors, the total power consumption and the maximum permissible load of the connectors, cables and power supply circuit must be taken into account.

Do not connect or disconnect power cables under load.

WARNING! If the power cable is damaged, stop using the device immediately and replace it with a new, undamaged cable of suitable technical specifications. Do not attempt to repair a damaged power cable yourself. All repairs to the device's electrical system must be carried out by qualified service personnel.

WARNING! Ensure a stable supply voltage during operation of the discharge lamp. It is recommended that voltage fluctuations do not exceed ±10% of the rated value. Excessively high voltage may shorten the lamp's lifespan, while low voltage may cause unstable operation or premature shutdown.

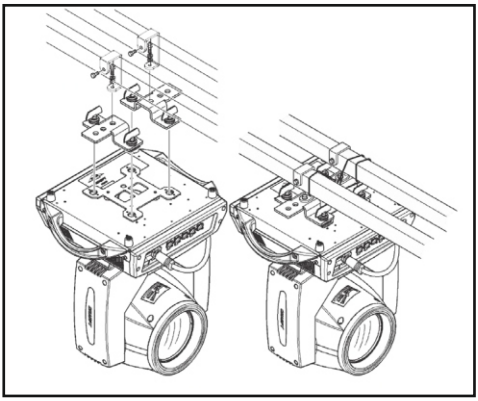
5.4 Fixture Installation

The device can be placed on a stable surface or mounted on a lighting structure using two appropriately rated mounting brackets.

For suspended installation, an independent safety cable must be attached to the designated safety attachment point.

Ensure that all mounting components are properly secured and that the moving head can move freely along the PAN and TILT axes.

Before operation, check the stability of the mounting, the condition of the cables and the integrity of all connections.



6. MENU STRUCTURE

Standard	Default set	Enter	Factory default
	Address	001-512	DMX address setting
	DMX mode	Mode1 Mode2 Mode3 Mode4	DMX mode option
	Effect mode	No/Yes	Effect wheel auto found out the shortest distance to rotating
	Started lamp	Off/on	Driving lamp select<off> or <on>
	Switch lamp	Off/on	Manual light on lamp
	No signal	Clear Hold	Store DMX data or clear data under without DMX signal
	UI Color	Green Blue Golden Gray	Display color option
	Show time	No/Yes	Driving time
	Brightness	000-255	Adjust display brightness
	Screensaver	Off/on	Closed display without touch and press buttons
	XY encoder	No/Yes	XY Auto error correction open or closed
	X inversion	No/Yes	Pan clowise or anti-clowise driving
	Y inversion	No/Yes	Tilt clowise or anti-clowise driving
	Focus inversion	No/Yes	Focus clowise or anti-clowise driving
	Zoom inversion	No/Yes	Zoom clowise or anti-clowise driving
Advanced	Here setting for fixture's main parameter,need authority		
Info	Error List	No error/View	Without error or check issues when error
	System ver	Vxxxxxxx	System version
	Serial NO.	xxxxxxxx	Fixture's serial number
	SYS timer	00000.0H	System runing time (hours)
	Run timer	000:00	From power in to power off runing time (hours)
	Lamp timer	00000.0H	Lamp light on time (hours)
	Equip TEMP	0	Main parts temperature(need fixture's supporting)
	Head TEMP	0	Head temperature(need fixture's supporting)

	FAN 1 Speed	0000 RPM	Fan 1 speed (need fixture's supporting)
	FAN 2 Speed	0000 RPM	Fan 2 speed (need fixture's supporting)
perform	Run mode	Auto/Sound	Auto or sound
	Run speed	255	speed
	Run cross	255	Setting run cross of auto or sound(need fixture's supporting)
	Built-in 1	Off/on	Built-in 1 testing
	Built-in 2	Off/on	Built-in 2 testing
	User PRO 1	Off/on	User self-made programme 1
	User PRO 2	Off/on	User self-made programme 2
	User PRO 3	Off/on	User self-made programme 3
	User PRO 4	Off/on	User self-made programme 4
	Circle shape	Off/on	Hold
	Shpae shape	Off/on	Hold
	Shape range	0	Hold
	Sound DB	0	Sound sensitivity adjust
Program	More instruction as below page		
Reset	Reset		

7. DEVICE OPERATION AND PROGRAMMING

The device allows manual control of lighting functions, creation of custom programs and execution of automatic programs. Configuration is performed using the display and control buttons.

Manual Control
Manual Control mode allows individual DMX channel values to be adjusted without connecting an external controller. Channels are selected using the navigation buttons, and their values are adjusted using the UP/DOWN buttons.

User Programs (PROGRAM)
The device allows up to four user programs (PRO1–PRO4) to be created and saved. Each program can consist of multiple steps containing specific DMX channel values.

During editing, program steps can be added, deleted, copied and pasted, and changes can be saved.

DMX Programming (Console Control)
The device also allows DMX channel values received from an external DMX controller to be saved. In this mode, function values are received from the controller, and manual control is disabled.

Running Programs (PERFORM)
The PERFORM menu allows built-in programs (Built-in 1/2) and saved user programs (User PRO 1–4) to be executed.

Auto and Sound modes are also available, along with program speed adjustment and sound sensitivity control.

User programs can be executed individually or sequentially in a continuous loop.

8. DMX CHART

22 Channel Mode			
Channel		Value	Function
CH1	Color	0-3	White
		4-7	White+color 1
		8-11	Color 1
		12-15	Color 1+Color 2
		16-19	Color 2
		20-23	Color 2+Color 3
		24-27	Color 3
		28-31	Color 3+Color 4
		32-35	Color 4
		36-39	Color 4+Color 5
		40-43	Color 5
		44-47	Color 5 +Color 6
		48-51	Color 6
		52-55	Color 6+Color 7
		56-59	Color 7
		60-63	Color 7+Color 8
		64-67	Color 8
		68-71	Color 8+Color 9
		72-75	Color 9
		76-79	Color 9+Color 10
		80-83	Color 10
		84-87	Color 10+Color 11
		88-91	Color 11
		92-95	Color 11+Color 12
		96-99	Color 12
		100-103	Color 12+Color 13
		104-107	Color 13
		108-127	Color 13+White
		128-191	Rainbow clockwise rotate from slow to fast
		192-255	Rainbow anti-clockwise rotate from slow to fast
CH2	Strobe	0-3	No function
		4-103	Strobe from slow to fast
		104-107	Open
		108-207	Pluse strobe from slow to fast
		208-212	open
		213-251	Random strobe from slow to fast
		252-255	Open

CH3	Dimmer	0-255	Closed-on
CH4	Gobo1	0-3	White
		4-7	Gobo1
		8-11	Gobo2
		12-15	Gobo3
		16-18	Gobo4
		20-23	Gobo5
		24-27	Gobo6
		28-31	Gobo7
		32-35	Gobo8
		36-39	Gobo9
		40-43	Gobo10
		44-47	Gobo11
		48-51	Gobo12
		52-55	Gobo13
		56-59	Gobo14
		60-63	Gobo15
		64-74	Gobo15 Shake
		75-85	Gobo14 Shake
		86-96	Gobo13 Shake
		97-107	Gobo12 Shake
		108-118	Gobo11 Shake
		119-129	Gobo10 Shake
		130-140	Gobo9 Shake
		141-151	Gobo8 Shake
		152-162	Gobo7 Shake
		163-173	Gobo6 Shake
		174-184	Gobo5 Shake
		185-195	Gobo4 Shake
		196-206	Gobo3 Shake
		207-217	Gobo2 Shake
		218-228	Gobo1 Shake
		229-255	Rainbow effect from slow-fast
CH5	Prism1	0-31	No prism
		32-255	Prism
CH6	Prism rotate1	0-127	angle
		128-190	Clockwise rotate from fast to slow

CH6	Prism rotate1	191-192	Stop
		193-255	Anti-clockwise rotate from slow to fast
CH7	Prism2	0-31	No prism
		32-255	Prism
CH8	Prism rotate2	0-127	angle
		128-190	Clockwise rotate from fast to slow
		191-192	Stop
		193-255	Anti-clockwise rotate from slow to fast
CH9	Focus	0-255	Near to far
CH10	Pan	0-255	0-540°
CH11	Pan fine	0-255	0-2.1°
CH12	tilt	0-255	0-270°
CH13	Tilt fine	0-255	**0--1.0°**
CH14	Speed	0-255	Fast-slow
CH15	Rainbow+ Frost	0-79	invalid
		80-159	Frost
		160-255	Rainbow effect
CH16	Lamp Reset	0-99	No function
		100-105	Lamp Off
		106-149	No function
		150-155	Half power on
		156-199	No function
		200-205	All power on
		206-249	No function
		250-255	Reset after secs
CH17	Ledstrip dimmer &strobe		0-9 led strip on 10-49 on 50-89 strobe 90-129 pulsive on 130-169 pulsive dark 170-209on-off 210-249 random strobe 250-255 on
CH18	LEDStrip red	0-255	0-255 off-on
CH19	Led strip green	0-255	Off-on
CH20	Led strip blue	0-255	Off-on
CH21	Led strip Macro	0-255	Each 5 value one effect
CH22	Led strip effect Speed	0-127	Anticlockwise slow-fast
		128-255	Clockwise slow-fast

9. CLEANING AND MAINTENANCE

Regular cleaning and maintenance ensure proper operation of the device and extend the lifespan of its components.

□ Before cleaning or maintenance, disconnect the device from the power supply and allow it to cool down completely.

□ It is recommended to inspect and clean the optical components every 15 days. Cleaning frequency should be adjusted according to usage intensity and environmental conditions.

□ Clean the lens using a soft, lint-free cloth designed for optical surfaces. Do not use abrasive materials, solvents or aggressive chemicals.

□ Regularly remove dirt and dust from the housing and check that the ventilation openings are unobstructed to ensure proper cooling.

□ Periodically inspect the condition of power and signal cables, connectors, seals, mounting components and the safety cable.

□ After operating the device in rain, remove excess water from the housing and connectors. Allow the device to dry in a dry, well-ventilated area before placing it in a transport case.

□ Do not store a wet device in a closed transport case for extended periods. Accumulated moisture may cause corrosion of metal components and deterioration of connectors and seals.

□ After moving the device from a cold environment into a warm room, allow it to reach room temperature and ensure that any condensation has evaporated before reconnecting the power

□ The IP65 protection rating is maintained only when all covers are properly closed and connectors are securely sealed. Regularly inspect the condition of gaskets and sealing components, especially after intensive outdoor use.

□ During transportation, protect the device from impacts, vibrations and accidental movement of the head. The use of a properly fitted transport case is recommended.

□ Store the device in a dry, clean environment, away from chemicals and sources of excessive heat.

□ Periodically check the operating hours of the discharge lamp using the counter available in the INFO menu (Lamp Timer). Lamp replacement must be carried out according to the lamp manufacturer's recommendations and only by qualified service personnel.

□ If any damage to the lens, housing, connectors or sealing components is detected, stop using the device until the faults have been repaired.

□ All repairs and procedures requiring the housing to be opened must be carried out only by qualified service personnel.



FLASH

FLASH-BUTRYM SP.J.
SKARBIMIERZYCE 18
72-002 DOŁUJE
POLAND

WWW.FLASH-BUTRYM.PL