

# B200 moving beam



# USER MANUAL

Ver1.0

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**CAUTION !**

Keep this device away from rain and moisture  
Unplug mains lead before opening the housing

Every person involved with installation, operation and maintenance of this fixture has to

- be qualified
- follow the instruction of this manual
- consider this manual to be part of the total product
- Keep this manual for the entire service life of the product
- pass this manual to every future owner or user of the product

## INTRODUCTION

Thank you for choosing our fixture, if you follow up the instruction given in this manual we are sure that you will enjoy this product for a long period of time

## SAFETY INSTRUCTION

**CAUTION!**

Be careful with your operations, With a dangerous voltage you can suffer a dangerous electric

This device has left our premises in absolutely perfect condition .In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instruction and warning notes written in this user manual.

Important: Damages caused by the disregard of this user manual are not subject o warranty, the dealer will not accept liability for any resulting defects of problem. If the device had been exposed to drastic temperature fluctuation (e.g. after transportation),do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it had reached room temperature. Please make sure that there are no obvious transport damages, should you notice any damages on the AC connection cable or on the casing, do not take the device into operation and immediately consult your local dealer.

The device falls under protection-class. The power plug must only be plugged into a protection class I outlet. The voltage and frequency must exactly be the same as stated on the device. Wrong voltages or power outlets can lead to the destruction of the device and mortal electrical shock. Always plug in the power plug last. The power plug must always be inserted without force .Make sure that the plug is tightly connected with the outlet.

Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution! Never touch them with wet hands .as this could lead to mortal electrical shock. Never modify, bend, strain mechanically, put pressure on, pull or heat up the power cord. Never operate next to sources of heat or cold. Disregard can lead to power cord damages, fire or mortal electrical shock.

The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to mortal electrical shock. Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time .If extension cords are used, make sure that the core diameter is sufficient for the required power consumption of the device. All warnings concerning the power cords are also valid for possible extension cords.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord. Otherwise, the cable or plug can be damaged leading to mortal electrical shock. If the power plug or the power switch is not accessible, the device must be the disconnected via the mains. If the power plug or the device is dusty, the device must be take out of operation, disconnected and then be cleaned with a dry cloth, Dust can reduce the insulation which may lead to mortal electrical shock. More severe dirt in and at the device should only be removed by a specialist.

There must never enter any liquid into power outlets, extension cords or any holes in the housing of the device. If you suppose that also a minimal amount of liquid may have exerted the device it must immediately be disconnected. This is also valid, if the device was exposed to high humidity. Also if the device is still running, the device must be checking by a specialist if the liquid has reduced any insulation. Reduced insulation can cause mortal electrical shock. There must never be any objects entering into the device. This is especially valid for metal parts. If any metal parts like staples or coarse metal chips enter into the device, the device must be taken out of operation and disconnected

immediately. Malfunction or short-circuits caused by metal parts may cause mortal injuries. Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meant for epileptics) Keep away children and amateurs. Never leave this device running unattended.

## **OPERATING DETERMINATIONS**

This device is designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects. Do not shake the device. Avoid brute force when installing or operation the device. Never lift the fixture by holding it at the projector-head. As the mechanics may be damaged. When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cable lying around. Please make sure that the fixture can not be touched or bumped. You endanger your own and the safety of others.

This device must never be operated or stockpiled in surroundings where splash water, rain, moisture or fog may harm the device. Moisture or very high humidity can reduce the insulation and lead to mortal electrical shocks. When using smoking machines, make sure that the device is never exposed to the direct smoke jet and is installed in a distance of 0.5 meters between smoke machine and device. The room must only be saturated with an amount of smoke that the visibility will always be more than 10 meters. The ambient temperature must always be between  $-5^{\circ}\text{C}$  and  $+45^{\circ}\text{C}$ . Keep away from direct insulation (particularly in cars) and heaters. The relative humidity must not exceed 50% with an ambient temperature of  $45^{\circ}\text{C}$ . This device must only be operated in an altitude between -20 and 2000m over NN. Never use the device during thunderstorms. Over voltage could destroy the device. Always disconnect the device during thunderstorms. The Symbol determines the minimum distance from lighted objects. The minimum distance between light output and the illuminated surface must be more than this value. The device must only be installed on a non-flammable surface, In order to safeguard sufficient ventilation, leave 50 cm of free space around the device.

The housing must never touch surrounding surfaces or objects. Make sure that the area below the installation place is blocked when rigging, dragging or servicing the fixture. For overhead use (mounting height  $>100\text{cm}$ ), always fix the fixture with an appropriate safety-rope. Fix the safety-rope at the correct fixation points only. The safety-rope must never be fixed at the transport handles. Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened. The maximum ambient temperature  $T_a=45^{\circ}\text{C}$  must never be exceeded. Operate the device only after having become familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation. Please use the original packaging if the device is to be transported. Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

Never remove the serial barcode from the device as this would make the guarantee void. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

## **DESCRIPTION OF THE DEVICE**

## Features

- > Fit with 5R lamp
- > 16 or 20 DMX channels in optional
- > Static gobo wheel comes 17 gobos with blank
- > Color wheel comes 14 colors with white
- > Strobe effect with 1-10 flashes per second
- > Color change with rainbow effect ,Gobo shaking effect
- > Frost effect, Pan/Tilt fine, lamp on/off via DMX control
- > Prism rotation and effect movement
- > DMX-controlled operation or stand-alone operation with Master/Slave function
- > Sound-controlled via built-in microphone
- > Addressing via control panel with 4 digit led display

## INSTALLATION

### Rigging

The installation of the projector has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

**IMPORTANT!OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE**, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property. The projector had to be installed out of the reach of people

**DANGER OF FIRE!** When installing the device, make sure there is no highly-inflammable material(decoration articles, etc.)within a distance of min.0.5m.

### DMX 512 connection/ connection between fixture

The wires must not come into contact with each other, otherwise the fixture will not work at all or properly. Please note the starting address depends upon which controller is being used. Only use a DMX cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture to another

Occupation of the XLR-connection:

**DMX-output**  
**XLR mounting-socket:**




**DMX-input**  
**XLR mounting-plug:**



Connection with the mains.

The occupation of the connection-cables is as follows:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

The earth has to be connected. The device must only be connected with an electric installation carried out in compliance with IEC standards.

## OPERATION

After you connected the effect to the mains, The fixture starts running

Stand Alone operation

In the stand alone mode, the fixture can be use without controller

### Master/slave-operation

The master/slave-operation enables that several devices can be synchronized and controlled by one master-device

### DMX controlled operation

You can control the projectors individually via your DMX-controller

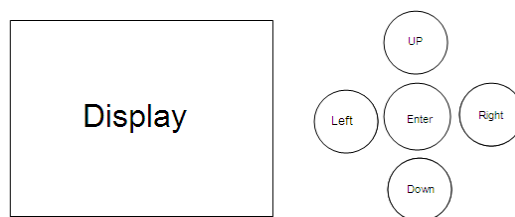
### Addressing

The control board allows you to assign the DMX starting address,

Note; it's necessary to insert the XLR termination plug (with 120ohm) in the last device in the link in order to ensure proper transmission on the DMX data link.

## CONTROL BOARD

The control board offer several features :you can simple set the starting address, run the pre-programmed program or make a reset



The main menu is accessed by pressing the Mode/Esc-button, Browse through the submenu by pressing Up or Down .Press the Enter-button in order to select the desired menu. You can change the selection by pressing Up or Down, Confirm every selection by pressing the Enter-button. You can leave every mode by pressing the Mode/Esc-button .The functions provided are described in the following setting.

Run mode	DMX	Slave mode :receive signal from Master or DMX controller
	Auto	Master mode:Run auto program and send signal to slaver Notice: if lamp maintain in Off without turn on in auto,ensure

		setting Channel 16 from 101-255
DMX Address	1-512	Press Enter to edit the DMX address, First press to select the third number of DMX address, second press to select the second number of DMX address, third press to select the first number of DMX address
DMX channel	16	Choose 16 channel without time control
	20	Choose 20 channel
Pan Reverse	Off	Pan Reverse off
	On	Pan Reverse on
Tilt Reverse	Off	Tilt Reverse off
	On	Tilt reverse on
Pan Tilt exchange	Off	
	On	Pan/Tilt exchange (include Pan Tilt Fine)
Pan Tilt code wheel	On	Pan Tilt code wheel and auto back to original position
	Off	
No DMX	Keep	Continued original mode running
	Clear	Reset Motor and stop
Screen save mode	On	Display black after 30 seconds
	Off	Display always on
Lamp on in Auto	Off	Reset after power in,Lamp on via menu or DMX channel
	On	Lamp on after power in,then reset
Default		Default setting after enter

## System Info

Software version	Shown current software version
Use time	Shown total use time
Running time	Shown current running time
DMX value	Shown current DMX value

## Menu Control

Use for control current fixture, no sending or receive DMX signal

Reset	Reset after enter
Color wheel	Adjusted value 0-512 to select requested color
Gobo Speed	Adjusted value 0-512 to select requested gobo speed
Lamp on/off	Choose Lamp on/off



## DMX-protocol

Channel	Value	Function
1	0	<b>Color Wheel</b> (select color in fade)
	5	White
	10	White+Red
	15	Red
	20	Red+Orange
	25	Orange
	30	Orange+Aquamarine
	35	Aquamarine
	40	Aquamarine+Green
	45	Green
	50	Green+Light green
	55	Light Green+
	60	Light Green+Lavender
	65	Lavender
	70	Lavender+Pink
	75	Pink
	80	Pink+Yellow
	85	Yellow
	90	Yellow+Magenta
	95	Magenta
	100	Magenta+Cyan
	105	Cyan
	110	Cyan+CTO 260
	115	CTO 260
	120	CTO260+CTO 190
	125	CTO190
	130	CTO 190+CTB 8000
	135	CTB 8000
	140	CTB 8000+BLUE
	145	BLUE
	150	BLUE+WHITE
	255	SLOW ROTATION
2	0-3	<b>Strobe</b>
	4-103	Close
	104-107	Strobe from slow to fast
	108-207	Open
	208-212	Pulse strobe from slow to fast
	213-251	Open
	252-255	Random strobe from slow to fast
3	0-255	<b>Dimmer</b>
		0-100% Dimmer
4	0	<b>Static Gobo wheel</b>
	5	Blank
	10	Gobo 1
	15	Gobo 2
	20	Gobo 3
	25	Gobo 4
	30	Gobo 5
	35	Gobo 6
	40	Gobo 7
	45	Gobo 8

	50 55 60 65 70 75 80 85 90-129 130-134 135-170 171-175 176-180 181-255	Gobo 9 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 16 Gobo 17 Rotation from fast to slow in Anticlockwise No function Rotation from slow to fast in clockwise Gobo 1 shake from slow to fast Gobo 2 shake from slow to fast Gobo 3 to Gobo 17 shake from slow to fast
5	0-127 128-255	<b>Prism</b> Prism Excluded Prism Inserted
6	0-127 128-190 191-192 193-255	<b>Prism Rotation</b> Prism position Prism rotation from slow to fast in Anticlockwise No function Prism rotation from slow to fast in clockwise
7	0-255	<b>Effect Movement</b> Prism and frost and zoom from 0-100%
8	0-127 128-255	<b>Frost</b> No function Frost
9	0-255	<b>Focus</b> From near to far focus
10	0-255	<b>Pan Movement</b> Pan Movement
11	0-255	<b>Pan Fine</b> Pan Fine
12	0-255	<b>Tilt Movement</b> Tilt movement
13	0-255	<b>Tilt Fine</b> Tilt Fine
14	0-255	<b>Blank</b>
15	0-25 26-76 77-127 128-255	<b>Rest</b> No function All reset except PAN/Tilt after 5 seconds Pan/Tilt reset after 5 seconds All reset after 5 seconds
16	0-9 10-100 101-255	<b>Lamp control</b> No function Lamp Off Lamp On

17	0-255	<b>PAN-TILT Time</b> Pan Tilt from fast to slow
18	0-255	<b>Color Time</b> Color change from fast to slow
19	0-255	<b>Dimmer Prism Frost Time</b> Dimmer Prism Frost Time from fast to slow
20	0-255	<b>Gobo Time</b> Gobo change from fast to slow

#### TECHNICAL SPECIFICATIONS

Model	B200 moving beam
Lamp	5R Platinum lamp
Voltage	230v 50Hz
Power consumption:	300W
Outside size and N.W.:	40 ×35×50cm(L×W×H) 23kg
Packing size and weight	45 ×40 ×58cm(L×W×H) 26kg