

M BEAM 180 LED MOVING HEAD



User Manual

Ver1.0

Table of contents

INTRODUCTION	2
SAFETY INSTRUCTIONS.....	2
OPERATING DETERMINATIONS.....	2
DESCRIPTION OF THE DEVICE.....	3
INSTALLATION.....	4
OPERATION.....	4
Stand alone operation.....	4
Master slave operation.....	4
DMX controlled operation.....	4
Addressing.....	4
Control board.....	4
DMX protocol.....	5
TECHNICAL SPECIFICATIONS.....	8

CAUTION !

Keep this device away from rain and moisture

Unplug mains lead before opening the housing

For your own safety, please read this user manual carefully before you initially start-up

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 use of the product

INTRODUCTION

Thank you for choosing our fixture, if you follow up the instruction given in this manual we be 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 shock when touching the wires.

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.

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. Your endanger your own and the safety of others.

DESCRIPTION OF THE DEVICE

Features

- > High power 180w white led
- > 50000 hours lifetime and lower power consumption
- > Beam Angle:2degree
- > 14 DMX channel in optional
- > 540 degree PAN and 270 degree tilt movement
- > 1 Color wheel with 13 diachronic colors plus open
- > 1 Gobo wheel with 13 gobos plus open.
- > Rotated prism with speed adjustable and variable direction
- > Infinite electric focus with 2m range, and shutter with variable speed
- > 0~100% linear dimmer and 1-18 times/sec high speed electronic strobe
- > DMX512, master-slave and sound activated controllable and auto with 8 built-in programs

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.

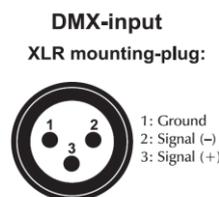
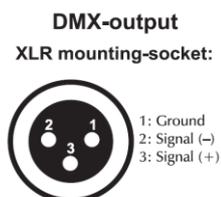
IMPORTANT!OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead 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:



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.

MENU MAP

The device has two operation modes, It can be operated in Stand Alone or in DMX controlled

SET (Setting)	Run Mode	DMX ,Auto 1 /Auto 2,Random ,Sound
	DMX address	Setting DMX address from 001-512
	Channel mode	Select 14 DMX channel
	Invert Pan	ON/OFF
	Invert Tilt	ON/OFF
	Pan-Tilt swap	ON/OFF
	Pan-Tilt encoder	ON/OFF

	DMX signal	CLEAR/KEEP
	Linear color	ON/OFF
	Load Default	OK/CANCEL
Man(Manual)	Pan	0-255
	Pan Fine	0-255
	Tilt	0-255
	Tilt Fine	0-255
	P-T Speed	0-255
	Strobe	0-255
	Dimmer	0-255
	Color	0-255
	Gobo	0-255
	Focus	0-255
	Prism	0-255
	Prism Rotation	0-255
	Frost	0-255
	Reset	OK/Cancel
Sys (System)	VER.	
	Reset Cal	
	Sensor Monitor	
	System Errors	
	DMX Monitor	

DMX-protocol

14 DMX channel mode

channel	value	function
1		Pan movement
	0-255	Pan movement
2		Pan Fine
	0-255	Pan fine movement
3		Tilt movement
	0-255	Tilt movement
4		Tilt Fine
	0-255	Tilt fine movement

5		Pan Tilt speed
	0-255	Pan/Tilt movement with decreasing speed
6		Shutter/Strobe
	0-3	Shutter close
	4-251	Strobe with increasing speed
	252-255	Shutter open
7		Dimmer
	0-255	0~100% linear dimmer
8		Color wheel
	0-4	White
	5-9	White+Red
	10-14	Red
	15-19	Red+Green
	20-24	Green
	25-29	Green+Blue
	30-34	Blue
	35-39	Blue+Orange
	40-44	Orange
	45-49	Orange+Yellow
	50-54	Yellow
	55-59	Yellow+Purple
	60-64	Purple
	65-69	Purple+ Orange Red
	70-74	Orange Red
	75-79	Orange Red+Light Green
	80-84	Light Green
	85-89	Light Green+Light Blue
	90-94	Light Blue
	95-99	Light Blue+Magenta
	100-104	Magenta
	105-109	Magenta+Cold White
	110-114	Cold White
	115-119	Cold White+Warm White
	120-124	Warm White
	125-129	Warm White+Pink
	130-134	Pink
135-139	Pink+White	
140-200	Clockwise color change with decreasing speed	
201-255	Anti-clockwise color change with increasing speed	
9		Static Gobo Wheel
	0-4	Open/White
	5-9	Gobo 1
	10-14	Gobo 2
	15-19	Gobo 3
	20-24	Gobo 4

	25-29	Gobo 5
	30-34	Gobo 6
	35-39	Gobo 7
	40-44	Gobo 8
	45-49	Gobo 9
	50-54	Gobo 10
	55-59	Gobo 11
	60-64	Gobo 12
	65-69	Gobo 13
	70-74	Gobo 1 shaking with increasing speed
	75-79	Gobo 2 shaking with increasing speed
	80-84	Gobo 3 shaking with increasing speed
	85-89	Gobo 4 shaking with increasing speed
	90-94	Gobo 5 shaking with increasing speed
	95-99	Gobo 6 shaking with increasing speed
	100-104	Gobo 7 shaking with increasing speed
	105-109	Gobo 8 shaking with increasing speed
	110-114	Gobo 9 shaking with increasing speed
	115-119	Gobo 10 shaking with increasing speed
	120-124	Gobo 11 shaking with increasing speed
	125-129	Gobo 12 shaking with increasing speed
	130-134	Gobo 13 shaking with increasing speed
	135-139	Gobo 14 shaking with increasing speed
	140-199	Anti-clockwise gobo change with decreasing speed
	200-255	Clockwise gobo change with increasing speed
10		Focus
	0-255	0~100% from far to near adjustment
11		Prism
	0-127	No function
	128-255	Prism effect
12		Rotated prism
	0-127	Prism angle adjustment slow down speed
	128-190	Rotated prism with decreasing speed in anti-clockwise
	191-192	No function
	193-255	Rotated prism with increasing speed in clockwise
13		Frost
	0-127	No function
	128-255	Frost effect
14		Rest
	0-20	No function
	21-129	Built-in Program
	130-160	Reset for Gobo/color/prism/rotated prism/focus/frost
	161-199	Reset for pan/tilt
	200-250	All reset

	251-255	No function
--	---------	-------------

TECHNICAL SPECIFICATIONS

Model	M BEAM 180 LED MOVING HEAD
Voltage	100V- 250V / 50/60Hz
Power consumption:	290W
LED	180w high power white led
Net Weight / Gross Weight	14Kgs / 16.5Kgs
Dimensions	45x43x57cm