



TitanBeam™ 7R

User Manual



230W Moving Head Beam

Introduction

Thank you for purchasing the OMEZ TitanBeam™ 7R. This moving head fixture characterized by its exceptional bright light beam is a new product in the Titan Line. This light weight fixture is CE compliant and has a perfect combination of advanced electronic controlling technology with standard DMX 512 control. Programming is a breeze on the fixture's touch screen panel.

OMEZ TitanBeam™ 7R has a 230 watt discharge lamp with reflector that projects a high quality long range beam of light. With 5 high quality step motors you can pan, tilt, and focus with fast Smooth precision.

OMEZ TitanBeam™ 7R features; one color wheel with 14 colors plus open and one gobo wheel with 17 static patterns. Added to the 7R is the pulse feature a steady, longer, and smoother shutter effect. This small light weight fixture is designed for easy transport for mobile DJ's, VJ's, KJ's, and Production companies.

OMEZ TitanBeam™ 7R is the industry standard in T.V. reality shows, Arenas, Concert halls, Banquet halls, Performing arts theaters, Nightclubs, and Entertainment venues.

Omez Guaranty

This TitanBeam™ 7R has met all quality control requirements when tested in our factory and is known to be in perfect condition when shipped to our warehouse in El Monte California. In order to ensure the safe operation of this TitanBeam™ 7R it is absolutely necessary for the end user to follow the safety instructions and warnings notes written in this user manual.

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(Before plugging in fixture, Please read manual)

2 Safety Information



WARNING!

Read the safety precautions in this section before installing, powering, operating or servicing this product.

After receiving the fixture, please unpack and check if there is any damage due to transportation. If any obvious damage or flaw is found, do not put it into use and contact the distributor or manufacturer as soon as possible.



This fixture is intended for professional use only. When operating the fixture, attentions should be drawn to fire/electrical shock hazards, ultraviolet radiation, lamp shattering or lethal injuries caused by fall.



Read this User Manual before mounting and ennergizing the fixture. Observe the safety guideline and notice the warnings both in this User Manual and on the fixture. Yet any safety concerns not covered hereby, contact the distributor or service hot-line.



Protection against over heat

The fixture is intended for indoor application, its protection rating is IP20. The fixture should be kept dry and avoid working in presence of moisture, over-heat or heavy smokes.

$t_a = 40^{\circ}\text{C}$

The natural working temperature should be lower than 40 degrees. If the ambient temperature exceeds 40 degrees, please stop operating the unit immediately.



Protection against explosion

Shields, lenses and ultraviolet screens must be replaced if they have become visible damaged to such an extent that their effectiveness is impaired. Replace the lamp immediately if it becomes visually deformed, damaged or in any way defected.



Protection against injury due to falls

Do not lift or carry the fixture alone. To inspect that the structure and the truss hooks are in good condition and can bear about 10 times the weight of the fixture. Ensure the cover and all riggings are securely fastened, safety wire is necessary to use as a secondary attachment. Block access below the working area and work from a stable platform while installing, servicing or moving the fixture.





Protection against ultraviolet radiation

Prolonged exposure to an unshielded discharged lamp can cause eye and skin burns. Do not stare directly into the light output. Never look at an exposed lamp while it is lit. Never operate the fixture with missing or damaged lenses and/or covers. Change the damaged head lens, shields or covers immediately.

The following symbols are used to identify important safety information on the product and in this manual:



 **Protection against electrical shock**
 All electrical connections must be performed by a qualified person with technical certificate.
 Make sure that the mains power supply you use is up to local construction and electronic code regulation, the over-load protection reliable earthing is essential.
 Each fixture must be grounded correctly, and be installed according to related regulation.
 Disconnect the fixture from AC power before removing or installing any cover or part, including the lamp and fuses, and when not in use.
 Do not expose the fixture to rain or moisture.

 **Protection against burning or fire**
 Please do not install the fixture onto combustible surface.
 Do not attempt to bypass the thermostat switch or fuse.
 Replace defective fuses with specified ratings only.
 Keep flammable materials far away from the fixture. Minimum distance from the flammable materials is 0.5m.
 The maximum working temperature of the exterior surface, under a thermally steady state, is 85°C.
 Please don't touch the moving head during movement.
 Do not illuminate surfaces within 10 meters of the fixture. Prohibit projecting object in short distance.
 Ensure a minimum clearance of 0.1m around the cooling fans and ventilations.
 Do not place any filter or other object onto the optical lens.
 Allow the fixture to cool for at least 15 minutes before transit.
 Do not revise the fixture or install any parts not from Guangzhou CHAI YI LIGHT Co.Ltd.

3. Included In Package

This box includes items listed below

Accessories	QTY	UNIT
User manual	1	PCS
Warranty card	1	PCS
Suspension fasteners	2	SET
DMX cable	1	PCS

4. Features

- Modes: 16/20 Channels
- Lamp Type: 230w YODN Bulb
- Color Temperature: 8000K
- Luminance: 63900 @ 20m
- Beam Angle: 4°
- 0-100% Linear Dimming
- Strobe Speed: 1-13 FPS
- 14 Dichroic Colors
- 17 Static Gobos
- 8 Facet Rotating Prism
- Pan/Tilt 540°,630°/270°
- 8 bit/16 bit
- LED Touch Screen Display
- Power Supply: 100-240V ~,50/60Hz
- Heat Emission: 0.08kw/h
- Power Consumption: 335W
- Size: 336*315*512mm
- Net weight: 20.5kg
- CE & RoHS Compliant

5. Control panel

5.1 Panel Instructions

Functions

Left arrow and Right arrow: exit current screen, push twice it will take you back to home screen

“Up” & “Down” arrows: always you to scroll through current screen

“OK” button: enter or save

Example below:

1. If the current display is not on the main screen, press the "left arrow" or "right arrow" button twice to get back to the home screen
2. In the main screen, press the "up arrow" or "Down arrow" to scroll through the tabs on the screen to make a selection
3. Press the "OK" button, to enter selected page
4. In the "Settings" tab, press the "up arrow" or "down arrow" button to select "DMX address"
5. Press the "OK" button to enter dmx addressing
6. Press the "up arrow" or "down arrow" to modify the DMX address
7. Press the "OK" button to save change

A quicker process would be to use the touch screen

5.2 Home Screen

The top 2 right tabs on the screen are used for language and screen rotation.

5.3 Settings Tab

Option	Instruction	
Operation Mode	DMX	(slave mode) Receive a DMX signal from controller or master fixture
	Auto	(master mode) Auto run1-2-3-4, send DMX signal to slave Note: You must let the fixture cycle on before entering auto mode
DMX Address	1~512	Press the "OK" button to enter DMX address mode, use the “Up” & “Down” arrows to scroll through DMX channels, press ok to save new value
Channel Mode	16	CH17~20 No function
	20	CH17~20 Speed control (See the channel table)
Pan Revers	Off	
	On	
Tilt Revers	Off	
	On	
Pan/Tilt Swap	Off	
	On	Swap faders
XY coder	On	Pan & tilt motor correction
	Off	
NO DMX	Retain	Display keep

Display	On/Off	On turns off display after 60 sec.
Lamp On	On	Light turns on with fixture
	Off	Bulb turns on through DMX controller
Linear Color	Off	
	On	
Default Settings		Click "OK" button and confirm load default settings

5.4 Information Tab

Option	Instruction
Firmware Version	Current software version
Total Fixture Hours	Touch the system tab use the "Up & Down" arrows scroll to total fixture hours
Partial Fixture Hours	Touch the system tab use the "Up & Down" arrows scroll to partial fixture hours
Total Lamp Hours	Touch the system tab use the "Up & Down" arrows scroll to total lamp hours
System Error	If the red ERR led turns on, there is an operational error, The details on the error can be viewed in the systems error field under the systems tab.

5.5 Manuel Tab

On the home screen touch the manual tab scroll up and down to get to your desired field press ok to enter and make changes. It is always a good idea to reset fixture before using the settings in this manual mode.

Option	Instruction	
Reset	Touch the manual tab, press the "Up" or "Down" arrow scroll to reset press ok and confirm	
Color	0~255	Press the manual tab, use the "Up" or "Down" arrows to scroll to desired field press the "Ok" make changes then press "Ok" once more to store new changes.
Shutter/Strobe	0~255	
Dimmer	0~255	
Gobo	0~255	
Prism	0~255	
Prism Rotate	0~255	
Macro Function	0~255	
Frost	0~255	
Focus	0~255	
Pan	0~255	
Pan Fine	0~255	
Tilt	0~255	
Tilt Fine	0~255	
Pan/Tilt Speed	0~255	
Gobo speed	0~255	
Manual Lamp control	On	
	Off	

5.6 Advance Tab

On the home screen touch on the advance tab, press the up and down tab continues twice then ok.

Option	Instruction
Sensor Monitor	Scroll "Up" or "Down" press ok to enter field
Reset Calibration	Scroll "Up" or "Down" press ok to enter field
Zero Point Correction	Scroll "Up" or "Down" press ok to enter field
Lamp Life Hours	Scroll "Up" or "Down" press ok to enter field
Clear lamp Hours	Scroll "Up" or "Down" press ok to enter field

6. DMX Channels

Channel	Standard mode(16CH)	16Bit mode(20CH)
1CH	Color Wheel	Color Wheel
2CH	Shutter/Strobe	Shutter/Strobe
3CH	Dimmer	Dimmer
4CH	Gobo	Gobo
5CH	Prism	Prism
6CH	Prism Rotate	Prism Rotate
7CH	Prism Macro	Prism Macro
8CH	Frost	Frost
9CH	Focus	Focus
10CH	Pan	Pan
11CH	Pan Fine	Pan Fine
12CH	Tilt	Tilt
13CH	Tilt Fine	Tilt Fine
14CH	Pan/Tilt Speed	Pan/Tilt Speed
15CH	Reset	Reset
16CH	Lamp Control	Lamp Control
17CH	-	Pan-Tilt Time
18CH	-	Color Time
19CH	-	Beam Time
20CH	-	Gobo Time

6.1 Colors

Standard mode	16Bit mode	Channel function	Value	Function
1	1	Color	0-9	Open
			10-19	red
			20-29	Yellow
			30-39	Blue
			40-49	Green
			50-59	Hot Pink
			60-69	Aqua Marine
			70-79	Orange
			80-89	Electric White
			90-99	Warm White
			100-109	Pink
			110-119	Lime Green
			120-129	Ivory
			130-139	Cool White
			140-149	Purple
			150-159	Color Scroll Fast
			196-199	Color Scroll Medium
			200-202	Color Scroll Slow

6.2 Strobe

Standard mode	16Bit mode	Channel function	Value	Function
2	2	Strobe	0-3	Close
			4-103	Strobe Slow-Fast
			104-107	Open
			108-207	Pulse Slow-Fast
			208-212	Open
			213-225	Random Strobe Slow
			226-238	Random Strobe Medium
			239-251	Random Strobe Fast
			252-255	Open

6.3 Dimmer

Standard mode	16Bit mode	Channel function	Value	Function
3	3	Dimmer	0-255	0%-100%

6.4 DMX Channels & Values

Standard mode	16Bit mode	Channel function	Value	Function
4	4	Static Gobo	0-4	Open
			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 14
			75-79	Gobo 15
			80-84	Gobo 16
			85-89	Gobo 17
			90	Gobo Rotate Fast
		
			129	Gobo Rotate Slow
			130-134	STOP
			135	Gobo Rotate Slow
		
			170	Gobo Rotate Fast
			171	Gobo Shake, Slow Speed
		

Standard mode	16Bit mode	Channel function	Value	Function
4	4	Static Gobo	175	Gobo 1 Shake Fast
			176	Gobo 2 Shake Slow
		
			180	Gobo 2 Shake Fast
		
			246	Gobo 16 Shake Slow
		
			250	Gobo 16 Shake Fast
			251	Gobo 17 Shake Slow
		
			255	Gobo 17 Shake Fast
			5	5
128-255	Prism			
6	6	Rotating prism	0-127	No Rotation
			128	Fast Rotation
		
			190	Slow Rotation
			191-192	STOP
			193	Slow Rotation
		
255	Fast Rotation			
7	7	Effect	0-255	Prism Macro

Standard mode	16Bit mode	Channel function	Value	Function
8	8	Frost	0-127	No Frost
			128-255	Frost
9	9	Focus	0	Focus 0%
		
			255	Focus 100%
10	10	Pan	0-255	0-540°
11	11	Pan Fine	0-255	Adjustment
12	12	Tilt	0-255	0-270°
13	13	Tilt fine	0-255	Adjustment
14	14	Motor Speed	0-255	Pan/Tilt Speed
15	15	Reset	0-25	Unused Range
			26-76	Effect Reset
			77-127	Pan/Tilt Reset
			128-255	Complete Reset
16	16	Lamp control	0-9	Lamp On
			10-100	Lamp Off
			101-255	Unused
-	17	Pan/tilt Time	0-255	Fast-slow
-	18	Color time	0-255	Fast
-	19	Beam time	0-255	Fast
-	20	Gobo time	0-255	Fast

7. Installation

Mounting the fixture in areas away from reach by unauthorized personal is always recommended. Before mounting the fixture make sure that the area you are using can hold a minimum load of 5x the Fixtures weight. You must always use a secondary safety attachment, such as a safety cable. The TitanBeam™ 7R is fully operational in two install positions, hanging upside down on a truss or by setting it on a flat level surface. Always make sure that all fixture are kept at least 0.5m away from any flammable materials.

8. Cleaning & Maintenance

For best results TitanBeam™ 7R requires routine cleaning and maintenance. Excessive dust, smoke fluid, and particulate buildup will degrade the performance and will cause the fixture to overheat. The damage from this is not covered in the manufacture warranty. Always make sure you unplug the fixture before opening any covers for cleaning. Optical components should be cleaned carefully and do not use any harmful solvents to avoid damage. Remember to keep all air vents clean and free from clutter that will prevents constant air flow.

When resetting fixture please allow an average of 20 sec. for the fixture to reset all sensors and motors. Fixture will continue where it left off. The lamp will stay on so there is no cool off wait time. Always remember if the light bulb turns of at any time during operation there is a 5-10 minute cool down period before bulb ignites.



Omez Lighting reserves the right to make changes and/or improvements in design upon its products without any obligation to include these changes to any products theretofore manufactured.

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