

# VARYTEC

Manual



**Beam R5**

---

## Table of contents

1. Safety instructions .....	3
1.1. FOR SAFE AND EFFICIENT OPERATION .....	3
1.2. Additional Information for safety .....	4
2. Statement .....	5
2.1. Product description .....	5
2.2. Introduction to the product .....	5
2.2.1. Technical Data .....	5
3. Packaging .....	7
3.1. Contents .....	7
3.2. Transport lock .....	7
3.3. Lamp types .....	7
3.3.1. Changing the lamp .....	8
4. Control .....	9
4.1. Description of the display section .....	9
4.1.1. Structure of the menu .....	9
4.2. DMX Chart .....	11

## 1. Safety instructions



- This device is suitable for indoor use (not outdoors) only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

### 1.1. FOR SAFE AND EFFICIENT OPERATION

#### **Be careful with heat and extreme temperature**

Avoid exposing it to direct rays of the sun or near a heating appliance.

Not put it in a temperature bellow 32°F /0°C, or exceeding 104°F /35°C.

#### **Keep away from humidity, water and dust**

Do not place the set in a location with high humidity or lots of dust.

Containers with water should not be placed on the set.

#### **Keep away from sources of hum and noise**

Such as transformer motor, tuner, TV set and amplifier.

#### **To avoid placing on un-stable location**

Select a level and stable location to avoid vibration.

#### **Do not use chemicals or volatile liquids for cleaning**

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

#### **If out of work, contact sales agency immediately**

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

#### **Take care with the power cable**

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug.

When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

**Important:** Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

## 1.2. Additional Information for safety



### Excessive temperature

Ta=40°C

Please do not use the device if the temperature exceeds 40°C/104°F.



### Risk of breakage

If the lens is broken you cannot use the device anymore. Exchange in this case the lens only for an original of the producer. Size of lens: d = 74 x30mm.



### Drop safety

To avoid injuries carry the package only by twos. If you install the device the mounting bracket has the ability to carry the tenfold load of the weight of the device. Always use a corresponding safety to safe the device additional. While working at the device the place below has to be vacated

### UV protection and lamp explosion

Do not look unprotected directly into the light. The UV radiation is shielded by the lens and the casing, but without the casing it is possible to cause damages on the eyes.



### Beware of electrical shock

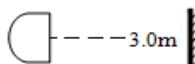
Make sure the electrical connection is carried out by qualified personnel. Before you plug in the device make sure that the power supply system has the right voltage and also a crowbar. Every device has to be grounded. Unplug the power supply if you want to change a lamp or you have to open the device. You also have to accomplish this action if there is a thunderstorm or high humidity.



### Fire risk

Make sure that the fuse functioned. It is never allowed to bridge it. If you have to exchange it only use fuses of the same type.

The distance between the device and lighted things has to be at least 3m. From a distance of 3m the temperature of the beam subside among 60°C.



It is not allowed cover fans and air in and outlets.

Make sure that there is a distance between the device and all objects in a area of 0.5m.

Don't put or mount anything on the lens.

The device has to cool down for 20 minutes before opening.

## 2. Statement

When we send out the goods, they are well packaged and also at best condition. Every product was tested before delivery. If you recognize mistakes or damages please contact the delivery agent or the supplier. Please read this manual faithful. In this manual you can find information about the handling and the safety regulations of this product. If you disregard this manual we cannot give a warranty for it. Technical changes, which are for progress, may be possible at any time. They are not mentioned particularly in this manual, but affixed extra.

### 2.1. Product description

Thank you for choosing the Beam R5. This device is on the current state of technology and has a range of features and meets the requirements of the DMX512 USITT 1990 standard. This device was developed for many different purposes e.g. TV studios, discos, nightclubs, bars and concerts.

### 2.2. Introduction to the product

#### 2.2.1. Technical Data

<b>Power supply</b>	
Voltage	110V - 240V / 50-60HZ
<b>Lightsource</b>	
Lamp type	YODN R5 200W
Wattage	200W
Color temperature	8500K
<b>Optics</b>	
Zoom	0 - 3.8°
Focus	yes
<b>Connections</b>	
Power in	Powercon
Power out	no
DMX in/out	XLR 3pin / 5pin
<b>Functions</b>	
Pan	540°
Tilt	250°
Colors	Color wheel (14 colors)

---

Gobo wheel	17xstatic
Prism	8-way
Frostfilter	yes
<b>Operation</b>	
Sound-to-light	yes
Automatic	yes
Master-Slave	yes
DMX	15 channels
Artnett	no
RDM	no
<b>Hardware</b>	
Protection class	IP20
Skill	indoor
Measruements (LxWxH)	395 x 287 x 495 mm
Weight	18.5kg
Material	Plastic

### 3. Packaging

#### 3.1. Contents

The device could be packed in carton, in a single case or in twin case.

To every device belong the following accessories, which you have to multiply with the number of devices.

Per device:

Material	Quantity
Manual	1 pcs.
Hangig Brackets	2 pcs.
Cable	1 pcs.

#### 3.2. Transport lock

To protect the device there is a transport lock. Before connecting the device to the power supply system you have to open the transport lock. If you want to transport you have to close the transport lock, so that the head of the device is not able to swing freely.

#### 3.3. Lamp types

Please do not use other types as these which are mentioned in this manual.

Type	Wattage	Lifetime	Color temperature
YODN 5R	200W	2200h	8000K

Please change always the lamp when lifetime runs out. If you do not it could be possible that the lamp implodes and damages the device.

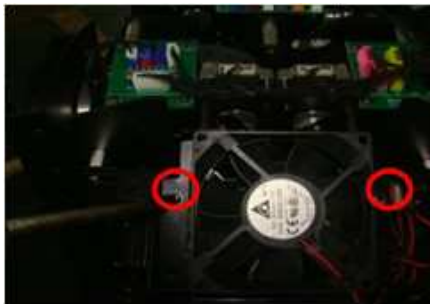
### 3.3.1. Changing the lamp

Important! If you change the lamp it is not allowed to touch the lamp with bare fingers. The body fat layer remains in the lamp and could damaged it or brand.

1. Interrupt the current supply. Wait at least 20min before you open the device, so that the old lamp can cool down. Arrest the Y-position of the device to 60°.
2. Use a cross-tip screwdriver to open the cover. Release the bracket of the fan and the cable at the three points which you can see in the picture.



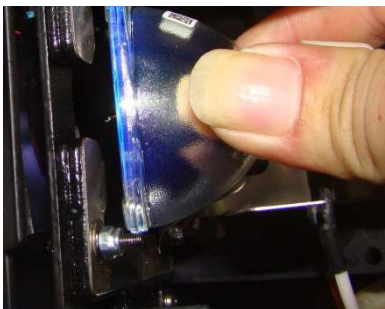
3. Now you can release the screws of the fan how you can see here.



4. Press cautious on the reflector. Like you can see in this picture.

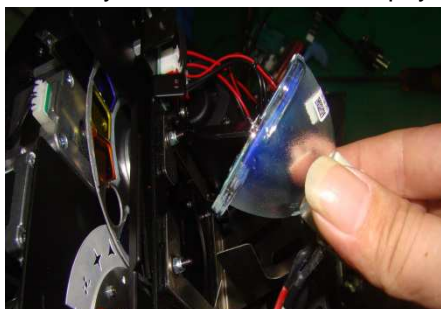


5. Pull the lamp in one direction like it is shown.





6. Now you can remove the lamp, you only have to release the cables of the lamp and then you



7. Install the new lamp backwards.

## 4. Control

### 4.1. Description of the display section

Every menu is controlled by the jogwheel on the right of the display.

Rotation changes the values if you push it you confirm the value. You can exit the menu with point of menu EXIT; there you have to push the wheel again.

#### 4.1.1. Structure of the menu

Main Menu	Submenu 1	Submenu 2	Function SET	Function description
DMX	Address		1-512	Address number set
	Mode		Smal	Simplify mode
			Stan	Standard mode
			Exte	Extended
Display	ShowReve		Natu	Normal
	BrigSett		Revl	Reverse 180°
	Backligh		000-007	Brightness set
			60S	Backlight close after delay 60s
	MenuBack		Ligh	Backlight light always
			90S	Menu back to main menu after delay 90s
	Return		Off	Menu back not automatically
Feature	XY Setup	Xreverse	▲	Return
			Off	Pan scan normal
		Open	Pan scan reverse	
		Yreverse	Off	Tilt scan normal
			Open	Tilt scan reverse
		XY Speed	Fast	Pan/Tilt fast speed
	NORM		Pan/Tilt normal	
	Solw		Pan/Tilt slow	
	X Angle	360, 360	Pan angle 360°	
		540, 540	Pan angle 540°	
		630, 630	Pan angle 630°	

		XY Fback	Off	Pan/Tilt optical sensor testing off	
			Open	Pan/Tilt optical sensor testing on	
		Return	▲	Return	
	Shortcut			Off	Shortcut off for colors and gobos
				Open	Shortcut open for colors and gobos
	FullColr			Off	Half color function
				Open	Full color function
	ReceMode			DMX, DMX	Accept DMX
				Wire	Accept Wireless
				Auto	AutoRun
	RunMode			Slve	Accept other signal control
				Muse	Sound active
				Auto	Inside program run automatically
	SigClear			Off	keep signal data
			Open	clear signal data	
Return			▲	Return	
LampSett	Default		Wink	Lamp off	
			Ilum	Lamp on	
	Control		Wink	Lamp off by manual	
			Ilum	Lamp on by manual	
	DmxLamp		Off	Close other signal control the lamp	
			On	open other signal control the lamp	
	LampTime		0000-9999	Lamp time	
	ClearTim		*	Password input enter	
			Ilum	Clear lamp time	
	LampStat		Wink	Lamp off	
Ilum			Lamp on		
Return			▲	Return	
InfoSee	WorkHour		0000-9999	working hours memo for connect power	
	Times		0000-9999	Open times memo	
	Fan1Rota		0000-9999	Fan rotation speed 1	
	Fan2Rota		0000-9999	Fan rotation speed 2	
	Version		V0.0	Version	
	ChanLevel		Chan 00- Chan40	DMX value number	
	Return			▲	Return
Control			Chan 00- Chan40	Control the channels	
AssiTool	Factory		*	Password input enter	
			Fold	Recover factory set	
			Save	Save factory set	
	Defaults		*	Password input enter	
			Fold	Recover to default	
	DMXReset		Off	Close other signal control reset	
Open			Open other signal control reset		

	Redress		*	Password input enter	
			00-10	Set motors	
	Brightne			*	Password input enter
		TimeLimi	0000-9999		Open fixture time limit
		TimsLimi	0000-9999		Fixture times limit
		Passwor1	000-255		Revise password 1
		Passwor2	000-255		Revise password 2
		Passwor3	000-255		Revise password 3
		Passwor4	000-255		Revise password 4
		X Drivin	000-255		Pan main drive gear
		X Driven	000-255		Pan slave drive gear
		Y Drivin	000-255		Tilt main drive gear
		Y Driven	000-255		Tilt slave drive gear
		LampPowe	Off		Ballast earthed
			total 5V, Open		Ballast 5V
Y Angle	000-255		Tilt angle rotation set		
Return	000-255		Return		
Checksum	01-10		Check cabrilate data		
Return		▲	Return		
Reset			Annu	Cancel	
			Exec	Reset	
ExitMenu			▲	Exit	

## 4.2. DMX Chart

Channel		Value from	Value to	Description
1	PAN	0	255	Pan
2	PAN f	0	255	Pane fine
3	TILT	0	255	Tilt
4	TILT f	0	255	Tilt fine
5	PT Speed	0	255	PT speed from fast to slow
6	COLOR	0	4	Open white
		5	9	Open white + Color 1
		10	14	Color 1
		15	19	Color 1 + Color 2
		20	24	Color 2
		25	29	Color 2 + Color 3
		30	34	Color 3
		35	39	Color 3 + Color 4
		40	44	Color 4
		45	49	Color 4 + Color 5
		50	54	Color 5
55	59	Color 5 + Color 6		

		60	64	Color 6
		65	69	Color 6 + Color 7
		70	74	Color 7
		75	79	Color 7 + Color 8
		80	84	Color 8
		85	89	Color 8 + Color 9
		90	94	Color 9
		95	99	Color 9 + Color 10
		100	104	Color 10
		105	109	Color 10 + Color 11
		110	114	Color 11
		115	119	Color 11 + Color 12
		120	124	Color 12
		125	129	Color 12 + Color 13
		130	134	Color 13
		135	139	Color 13 + Color 14
		140	144	Color 14
		145	149	Color 14 + Weiß
		150	200	Color rotation from slow to fast clockwise
		201	204	Stop at any position
205	255	Color rotation from fast to slow counterclockwise		
7	Gobo	0	4	Gobo offen
		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	94	Gobo 1 Shake
		95	99	Gobo 2 Shake
100	104	Gobo 3 Shake		
105	109	Gobo 4 Shake		
110	114	Gobo 5 Shake		
115	119	Gobo 6 Shake		

		120	124	Gobo 7 Shake
		125	129	Gobo 8 Shake
		130	134	Gobo 9 Shake
		135	139	Gobo 10 Shake
		140	144	Gobo 11 Shake
		145	149	Gobo 12 Shake
		150	154	Gobo 13 Shake
		155	159	Gobo 14 Shake
		160	164	Gobo 15 Shake
		165	169	Gobo 16 Shake
		170	174	Gobo 17 Shake
		175	210	Gobo wheel rotation slow to fast clockwise
		211	224	Stop at any position
		225	255	Gobo wheel rotation slow to fast counterclockwise
8	Shutter	0	19	Off
		20	39	Open
		40	59	Random strobe from slow to fast
		60	79	Open
		80	99	Ramp up from slow to fast
		100	119	Open
		120	139	Ramp down from slow to fast
		140	249	Strobe standard from slow to fast
		250	255	Open
9	Dimmer	0	255	Linear dimmer
10	Frost	0	255	Linear frost
11	Focus	0	255	Linear Focus
12	Prism	0	19	No effect
		20	99	Indesing prism 360°
		100	149	Prism rotation from slow to fast clockwise
		150	159	Stop at any position
		160	209	Prism rotation from slow to fast counterclockwise
		210	255	Prism rotation clockwise/counterclockwise altering from slow to fast
13	Reset	0	33	No function
		34	36	Lamp off after 3 seconds when dimmer and shutter are at 255
		37	79	No function
		80	89	Lamp on after 3 seconds when dimmer and shutter are at 255
		90	99	No function
		100	109	Motor reset after 3 seconds
		110	129	No function
		130	139	Reset complete after 3 seconds
		140	255	No function
14	Macros	0	14	Open

---

	functions	15	32	Effect 1
		33	46	Effect 2
		47	63	Effect 3
		64	79	Effect 4
		80	95	Effect 5
		96	110	Effect 6
		111	125	Effect 7
		126	143	Effect 8
		144	159	Effect 9
		160	175	Effect 10
		176	191	Effect 11
		192	207	Effect 12
		208	223	Effect 13
		224	239	Effect 14
		240	255	Effect 15
15	Speed	0	255	Speed for macro effects

**Importer:**

**B & K Braun GmbH**

**Industriestraße 2**

**D-76307 Karlsbad**

**[www.bkbraun.com](http://www.bkbraun.com)**

**[info@bkbraun.com](mailto:info@bkbraun.com)**

