

Instruction Manual



from software version 1.0 (instruction version 1.3)



email: service@glp.de Internet: http://www.GLP.de









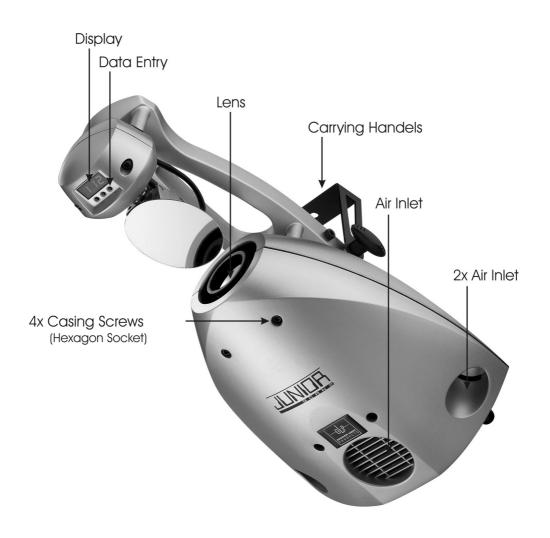
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1 Description of Device



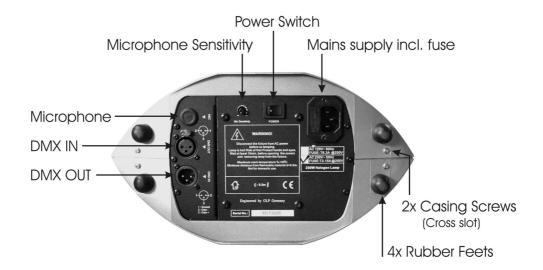


Illustration 1-1





1.1 Safety Instructions



The **JUNIOR SCAN 1** is a High-Tech Product. To guarantee a smooth operation, it is necessary to keep following rules.

The manufacturer of this device will not take responsibility of damages through disregard of the information in this manual. Warranty adjustments will be cancelled.

- 1. Make sure that before putting into operation, the fan and the air inlets are clean and not blocked by anything. **JUNIOR SCAN 1**
- 2. <u>Attention:</u> Don't touch the device during the operation. This can cause injuries or damages.
- 3. Unplug the JUNIOR SCAN 1 from the AC outlet before any service.
- 4. It is necessary to wait at least 30 minutes after disconnecting the AC before you open the **JUNIOR SCAN 1**. Please do not touch the bulb of the lamp if you are not absolutely sure it is cold. <u>-Danger of BURNING-</u>
- 5. Never look directly into the beam of the lamp. You risk injury of your retina and blindness.
- 6. Pay attention of the maximum lamp operation time. You have to change it if the lamp shows any deformations or damages. The same is with all glass components, color filters, lenses and mirrors.
- 7. To allow a secure operation, follow also the Installation guide described in chapter 2. Operating the **JUNIOR SCAN 1** without suited safety aids like Safety cables or clamps/hooks can increase the risk of an accident.
- 8. The installation should be done by qualified staff only. Please pay attention to the common rules of technology that are not explicit mentioned in this manual.
- 9. Use only original spare parts. Any structural modification will cancel all warranty adjustments.





Attention: Laser of class 3R may injure your retina after a short residence time even without any optical instrument. Avoid any direct exposure of your eyes!





2 Installation

2.1 Mounting

Mount clamps and/or hooks directly to the bow of the **JUNIOR SCAN 1.** Please make sure to use right sized clamps and hooks and fit them securely. Keep a safety distance of 0.5 m towards any easy inflammable materials (decoration etc.).



Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217!

The installation should be done by qualified staff only.

2.2 Secure the JUNIOR SCAN 1

Install a safety wire through the handle that can hold at least 10 times the weight of the fixture.

2.3 Connectors

2.3.1 AC Connectors

230 Volt, 50 Hz (EU model) or 120 Volt, 60 Hz (US model)

Please see printing on the case for the right power supply!

2.3.2 DMX

DMX 512 Standard input/output.

[+] = Pin 3 / [-] = Pin 2 / [Ground] = Pin 3

The DMX- Address starts at [001].

Please see printing on the case for the right Pin usage!

2.4 Fuse

The **JUNIOR SCAN 1** electronic system is protected by a 5x20mm T3.15A fuse 250V (EU model), respectively a 5x20mm T6.3A fuse 120 V (US model).

- Please see the printing on the JUNIOR SCAN 1 for more details!
- Disconnect AC outlet before changing a fuse!

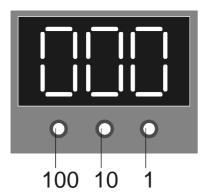




3 The Menu Field / Functions

You can adjust the DMX address of the JUNIOR SCAN 1 directly at the menu field.

3.1 Adjust the DMX- Address



Right after turning on the **JUNIOR SCAN 1** and the first reset, you see the current DMX- Address. Use the first? button for the "first digit", the second button for the "second digit" and the third button for the "third digit" of the DMX address.

The DMX-Address is stored also while switching off the **JUNIOR SCAN 1**.

3.2 Special Functions

3.2.1 Reset Function

The **JUNIOR SCAN 1** is performing a reset right after turning on the unit. During this operation the display shows "rst". This function can also be started via the DMX signal. Select a DMX value between 250 and 255 for longer than 3 seconds in the Special Channel (No. 9).

3.2.2 Sound Function

This function allows you to run a stand alone audio program. For activating please use the following procedure:

Press and hold down the right display button (first digit) while switching on the **JUNIOR SCAN 1**. The display reads firstly the version number of the unit and afterwards 2 sec. "AUD" to indicate the audio function.

Now the **JUNIOR SCAN 1** is in Audio-Mode as well as in Master-Mode. That means further units can be connected to the first **JUNIOR SCAN 1** which run the audio program simultaneously. All further units must be set to Normal-Mode (switched off Audio-Mode).

To switch off this function again you have to run the above mentioned procedure once again. Press and hold down the right display button (first





digit) while switching on the **JUNIOR SCAN 1**. The display reads only "rst" (Reset).

3.2.3 Lamp OFF

If the DMX value of the shutter channel (channel no. 5) is between DMX 0-8 for longer than 1 min. the lamp is automatically switched off. This will lengthen the lifetime of the lamp.

On each change of the shutter channel the lamp will be switched on immediately.

If the **JUNIOR SCAN 1** is set to the Audio-Mode the lamp will be switched of after one minute without any music signal. Each passing-on music signal will switch on the lamp again.

3.2.4 Temperature Control

If the inside temperature of the unit exceeds an certain value (e.g. in case of blocked fans) the lamp of the **JUNIOR SCAN 1** will be automatically switched off. After solving the problem the lamp can be started once again.

3.2.5 Invert PAN/Tilt

This function allows you to invert the PAN/Tilt movement. Press and hold down the middle (left) display button while switching on the unit to invert the PAN (Tilt) movement. The display shows "r-P" for PAN inverse or "r-T" for Tilt inverse. To switch off this functions please run these procedures once again.





4 DMX Channel Selection (DMX Protocol)

Channel	Function	DMX-value	Hex-value	Value in %
1) Pan	Pan- Position	0 - 255	0 - FF	0 – 100%
2) Tilt	Tilt- Position	0 - 255	0 - FF	0 – 100%
3) Color	white / open	0 -3	0 - 3	1%
	open / Dark Blue B01	4 - 7	4 - 7	2%
	Dark Blue B01	8 - 11	8 - B	3%
	Half-Color 2	12 - 15	C - F	5%
	Dark Green G01	16 - 19	10 - 13	7%
	Half-Color 3	20 - 23	14 - 17	8%
	Light Yellow Y0200	24 - 27	18 - 1B	10%
	Half-Color 4	28 - 31	1C - 1F	11%
	Bright Blue B2879	32 - 35	20 - 23	13%
	Half-Color 5	36 - 39	24 - 27	15%
	Lavender V98349	40 - 43	28 - 2B	16%
	Half-Color 6	44 - 47	2C - 2F	18%
	Magenta M56339	48 - 51	30 - 33	19%
	Half-Color 7	52 - 55	34 - 37	21%
	Light Blue B6467	56 - 59	38 - 3B	22%
	Half-Color 8	60 - 63	3C - 3F	24%
	Fire 00819	64 - 67	40 - 43	25%
	Half-Color 9	68 - 71	44 - 47	27%
	Turquiose C4700	72 - 75	48 - 4B	29%
	Half-Color 10	76 - 79	4C - 4F	30%
	Pink M6336	80 - 83	50 - 53	32%
	Half-Color 11	84 - 87	54 - 57	33%
	Canary Y89312	88 - 91	58 - 5B	35%
	Half-Color 12	92 - 95	5C - 5F	36%
	Golden Amber O5921	96 - 99	60 - 63	38%
	Half-Color 13	100 - 103	64 - 67	40%
	Red R9926	104 - 107	68 - 6B	41%
	Half-Color 14	108 - 111	6C - 6F	43%
	Italien Blue C45370	112 - 115	70 - 73	44%
	Half-Color 15	116 - 119	74 - 77	46%
	Green G28389	120 - 123	78 - 7B	47%
	Half-Color 16	124 - 127	7C - 7F	49%
	Multicolor 1	128 - 131	80 - 83	50%





Channel	Function	DMX-value	Hex-value	Value in %
	Half-Color 17	132 - 135	84 - 87	52%
	Multicolor 2	136 - 139	8 - 8B	53%
	Rotation, slow - fast	140 - 253	8C - FD	54 - 98%
	music color chaser (slow)	254	FE	99%
	music color chaser (fast)	255	FF	100%
4) Gobos	open	0 - 7	0 - 7	2%
	Gobo 1 (exchangeable)	8 - 15	8 - F	5%
	Gobo 2 (exchangeable)	16 - 23	10 - 17	8%
	Gobo 3	24 - 31	18 - 1F	11%
	Gobo 4	32 - 39	20 - 27	15%
	Gobo 5	40 - 47	28 - 2F	18%
	Gobo 6	48 - 55	30 - 37	21%
	Gobo 7	56 - 63	38 - 3F	24%
	Gobo 8	64 - 71	40 - 47	27%
	Gobo 9	72 - 79	48 - 4F	30%
	Gobo 10	80 - 87	50 - 57	33%
	Gobo 11	88 - 95	58 - 5F	36%
	Gobo 12	96 - 103	60 - 67	40%
	Gobo 13	104 - 111	68 - 6F	42%
	Gobo 14	112 - 119	70 - 77	45%
	Gobo 15	120 - 127	78 - 7F	48%
	Gobo 16	128 - 135	80 - 87	52%
	Gobo 17	136 - 143	88 - 8F	55%
	Gobo 18 🔾	144 - 151	90 - 97	58%
	Gobo 19	152 - 159	98 - 9F	60%
	music Gobo chaser (slow)	254	FE	99%
	music Gobo chaser (fast)	255	FF	100%
5) Shutter	Shutter closed	0 - 15	00 - 0F	0 - 3%
	Random Shutter	16 - 31	10 - 1F	9%
	Audio Shutter	32- 47	20 - 2F	16%
	Shutter frequency, slow - fast	48 - 239	30 - EF	17 - 93%
	Shutter open	240 - 255	F0 - FF	94 - 100%





Channel	Function			DMX-value	Hex-value	Value in %
	Lampe ON		9 - 255	09 - FF	4 - 100%	
	Lampe OFF after 1 minute			0 - 8	0 - 8	0 - 3%
6) Speed	Pan/Tilt, relative		0 - 1	00 - 01	0 - 1	
	Pan/Tilt, slow -	fast		2 - 255	02 - FF	2 - 100%
7)	no movement			0	00	0
Movement	Movement	Size	Phase			
	PAN	1	0°	0101	0101	0,5%
		1	90°	0203	0203	1,0%
		1	180° 270°	0405 0607	0405 0607	1,7% 2,5%
	PAN	2	0°	0809	0809	3,3%
	I AIN	2	90°	1011	0A0B	4,1%
		2	180		0C0D	4,9%
		2	270°	1415	0E0F	5,7%
	PAN	3	0°	1617	1111	6,5%
		3	90°	1819	1213	7,3%
		3	180°	2021	1415	8,0%
	PAN	3 4	270° 0°	2223 2425	1617	8,8%
	PAN	4	90°	2425	1819 1A1B	9,6% 10,4%
		4	180°		1C1D	11,2%
		4	270°	3031	1E1F	12%
	TILT	-		3263	203F	1325%
	PAN / TILT			6495	405F	2637%
	PAN / TILT (inverse) Circle			96127	607F	3850%
				128159	809F	5162%
	Circle (inverse)			160191	A0BF	6375%
	lying eight	ont.		192223 224255	C0DF E0FF	7687% 88100%
8) Laser	random movement Laser OFF			0 - 15	00 - 0F	0 - 3%
o, Lusei	Laser flashes, i	random		16 - 31	10 - 1F	9%
	Laser Audio co			32 - 47	20 - 2F	16%
	Laser blinking, slow - fast			48 - 127	30 - 7F	17 - 49%
	Laser blinking, slow - fast			128 - 239	80 - EF	50 - 93%
	Laser ON			240 - 255	F0 - FF	94 - 100%
9) Special	n.a.			0 - 63	0 - 3F	0 - 25%
	Color-Chaser, Color <-> C + 1, slow - fast			64 - 79	40 - 4F	26 - 31%
	Color-Chaser, (Color <-> C + 2	?, slow - fast	80 - 95	50 - 5F	32% - 37%
	Pan/Tilt Audio controlled> slow			96 - 111	60 - 6F	38 - 44%
	Pan/Tilt Audio controlled> fast			112 - 127	70 - 7F	45- 49%
	Pan/Tilt random positions			128 - 143	80 - 8F	50 - 56%
	Lamp OFF after 3 sec. (only if Shutter is closed)		230 - 249	EF - F9	90 - 97%	
	Reset after 3 sec.		250 - 255	FA - FF	98 - 100%	





5 Changing the lamp

For a frictionless operation please read this chapter carefully and follow all instructions.

5.1 Safety regulations

- Pull out the main plug!
- Wait at least 20 minutes after the last operation to cool down the fixture.
- Don't touch the bulb of the lamp with bare fingers (this can cause damages).
- Before you put the JUNIOR SCAN 1 into operation close the casing, otherwise your retina can be hurt!

5.2 Realize the Lamp Change

Please see also Illustration 1-1 on page 3.

- 1. Open the four hexagon socket screws of the front casing.
- 2. Open the next two Phillips screws on the bottom of the case.
- 3. Take off the front casing.
- 4. Take out the lamp carefully upturning and remove the lamp holder afterwards.
- 5. Put in the new lamp securely in reverse order. Use only the originally lamp type. Do not touch the new lamp with bare fingers.

<u>Attention:</u> The glass bulb of the lamp can splinter. For that reason remove the lamp with safety gloves or some cloth.

6. Close the **JUNIOR SCAN 1** in reverse order.

Pay attention on a firm fit of the lamp !!!

6 Changing the Gobos

You can change two Gobos of your own choice. Please pay attention on the following specifications and procedures.

Gobo diameter: 13,8mm

Gobo picture diameter: 12,5mm

Gobo thickness: ~0,2mm (glass)- or steel Gobos can be used.



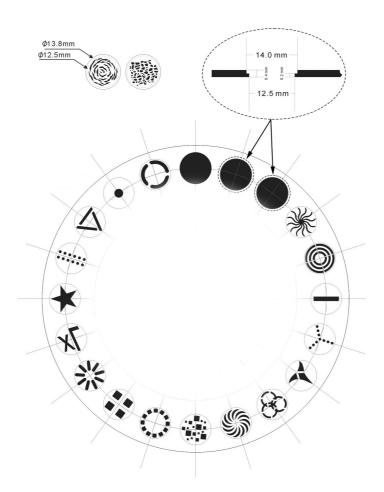


6.1 Safety Regulations

- Pull out the main plug!
- Wait at least 20 minutes after the last operation to cool down the fixture.
- Before you put the **JUNIOR SCAN 1** into operation close the casing, otherwise your retina can be hurt!

6.2 Realize the Gobo Change

- 1. Open the **JUNIOR SCAN 1** as described before in chapter 5 on page 11.
- 2. Take out the Gobo by holding it with your fingers.
- 3. Insert the new Gobo and snap it into the clips. Pay attention on a save fit.
- 4. Close the **JUNIOR SCAN 1** again in reverse order.







7 Maintenance and Cleaning the JUNIOR SCAN 1

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not built up on or within the fixture. Otherwise the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

The inside optical system should be maintained only by authorized persons. Please contact your local dealer.

7.1 Safety Regulations

- Pull out the main plug!
- Wait at least 20 minutes after the last operation to cool down the fixture.
- Before you put the YPOC 250 into operation close the casing, otherwise your retina can be hurt!

7.2 Mirror and Optical System

Clean the mirror and the optical system of the **JUNIOR SCAN 1** with water and some glass detergent.

To clean the inner side of the lens, it can be screwed out completely.

7.3 Air Cooling System

Clean the fans, air channels and grills regularly.

Attention: Do not cover the air inlets !!!





8 Technical Specifications

Power Supply 230Volt: 5x20 T3.15A / 150V: 5x20 T6.3A

• Lamp: 24V 250W GX5,3, 700h

DMX 512 Standard

Pan 230° / Tilt 110°

15 colors + white

• 2x multi color effects

• 16 half colors

• 19 Gobos (2 exchangeable)

• High Speed Shutter

• Laser diode positioning by the mirror

• Stand-alone music controlled

Weight 8 kg

Measures: 540 x 310 x 220 mm

Nr.	Color
157	Dark Blue B01
159	Dark Green G01
158	Light Yellow Y0200
149	Bright Blue B2879
156	Lavender V98349
155	Magenta M56339
154	Light Blue B6467
148	Fire 00819
152	Turquiose C4700
151	Pink M6336
150	Canary Y89312
160	Golden Amber O5921
153	Red R9926
161	Italien Blue C45370
147	Green G28389
Α	Bright Blue B2879
В	Canary Y89312
С	Magenta M56339
D	Red R9926
Е	Green G28389
F	Slate Blue B44367
G	Orange O1823
Н	Pink M63336

