nstruction Manual

JDC1



From Software Version 1.35



JDC1 Instruction Manual Revision 1.0, Applies from firmware version 1.35 July, 2017

The JDC1 Strobe and this instruction manual are intended for use by experienced professionals with the knowledge and skills to set up, operate, and maintain high-powered, remotely controlled lighting equipment safely and efficiently.

Save this manual for future reference. Replacement copies and updates are available for download in electronic format from www.glp.de.

The information in this manual is subject to change without notice.

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1 Safety Precautions

The JDC1 and this instruction manual are intended for use by experienced professionals with the knowledge and skills to set up, operate, and maintain high-powered, remotely controlled lighting equipment safely and efficiently. These operations require expertise that is not provided in this manual.

Read this manual and familiarize yourself with the safety precautions before installing or using the product. The manufacturer will take no responsibility for damages or harm caused by disregard for the information in this manual.

Should you have questions about the safe operation of the JDC1, please contact an authorized GLP distributor, a list of which can be found at www.glp.de.

1.1 WARNING! Hazards that Could Result in Serious Injury or Death

Do not look directly into the beam of light: brief exposure can cause eye injury. Avoid exposing your eyes to direct radiation! Do not view the light output with optical instruments or any device that may concentrate the beam.

Do not illuminate surfaces within 1 M (3.3 ft.) of the fixture. The light output is powerful enough to cause burns or fire in illuminated objects at near range.

Hot surfaces! Surfaces on the head reach temperatures up to 160° C (320° F). Avoid touching lights during the operation. This can cause injuries and/or damage. Avoid placing lighting fixtures in locations where there is risk of accidental contact by people or objects. Allow fixtures to cool before handling.

Do not place any filters or other objects on the glass plate. Do not block the light output in any way. The glass becomes extremely hot during operation and can melt or ignite objects in contact with the surface. The glass must remain clean and unobstructed to prevent fire hazard and fixture damage.

Installation shall be performed by qualified personnel only in accordance with local regulations. To prevent falls, suspend the JDC1 with hardware specifically designed and rated for the purpose and a form of backup attachment such as a safety cable.

Connect the fixture only to a grounded (earthed) power supply with overload protection for protection against electric shock. Verify that power cables and connectors are in good condition. Replace a blown fuse with one of the specified rating only.

1.2 CAUTION! Hazards that Could Result in Moderate Injury

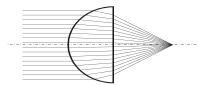
Avoid using strobe effects for extended periods. Flashing light, particularly between 5 and 30 flashes per second, may cause seizures in persons with photosensitive epilepsy. Check local regulations on use of strobe lighting and notify the public in advance when strobe effects are used. If a seizure occurs,

stop using strobe effects. Help the person sit in a safe place or lay them on their side with their head supported to prevent it from hitting the floor. Do not use force. Seek emergency medical help if the seizure lasts for more than a few minutes.

Do not operate a fixture with damaged, cracked, or missing pieces. All optical components and covers must be in good condition.

1.3 NOTICE! Prevent Damage to Product or other Property

Avoid pointing the front of the fixture towards direct sunlight or other strong light sources. The front lens focuses and concentrates light just like a magnifying glass. Direct sunlight and other bright light sources can



cause internal damage to the fixture, melting components or starting an internal fire within seconds.

Damage can occur whether the fixture is powered on or off. To avoid problems:

- Never expose the front of a fixture to direct sunlight or any other strong light sources.
- For outdoor applications during daylight, make sure that the front face of any fixture is shielded or points away from the sun, even when not in use.
- Avoid pointing other high-powered beam lights directly at the fixture.

Ensure that the head can rotate through its full tilt range before powering up the fixture, and that fans and air vents are clean and unobstructed.

Use only original spare parts. Any structural modification on the system will terminate all warranty claims.

2 Overview of Features

2.1 Intended Use

The JDC1 is for permanent or temporary indoor use. It may be used outdoors if it is protected from moisture and precautions are taken to prevent damage from direct sunlight. It may be placed upright on a level surface or suspended from a suitable structure as described in Section 3.2.

It is not suitable for household use, wherever unattended children have access to it, or for permanent outdoor installation.

The JDC1 shall be installed, operated, and maintained only by persons with the training, knowledge and skills to do safely and efficiently.

2.2 Parts Identification 1 2 3 4

1 fuse holder 6 control panel
2 head 7 AC mains socket
3 alignment pin lever 8 DMX in socket
4 alignment pins 9 tilt lock lever
5 DMX out socket

Figure 2-1

2.3 Strobe

The JDC1 provides a traditional single-tube element created with 216 LEDs that produce an incredibly clear, bright white output. The LEDs flash at up to 16.67 Hz and can be run continuously for high output blinder and wash effects with an 86° beam angle. Control of the tube is divided into 12 'pixel' segments.

2.4 Color

The JDC1 provides two large-array RGB color plates surrounding the strobe tube. Each plate is divided into six independently controllable 110 LED 'pixels' that flash and operate continuously, providing a wide (148°) color wash.

2.5 Dimming and Shutter Effects

Three dimming curves are available: linear, soft, and extra soft. Select the desired mode from the control panel.

2.6 Tilt

The JDC1 head tilts through 185° with coarse and fine control channels and self-correcting position feedback. Position feedback can be disabled and control can be reversed from the control panel.

2.7 Changing Settings by DMX

The Control Channel (7 in Normal DMX Mode) provides the ability to adjust the pulse width modulation (PWM) frequency in 1 Hz increments from 582 to 618 Hz, or set to 1200 or 2400 Hz. It also provides commands to toggle FX/Pattern Color Priority on/off, and perform a fixture reset.

2.8 Display

The illuminated graphic LCD display with self-charging battery allows you to change fixture settings quickly and intuitively under any conditions, even when the power is off. See Chapter 4 for settings, readouts, and related information.

2.9 Clamp Attachment

The base provides Camlock attachment points for easy fastening of an omega clamp attachment bracket that accepts two half-coupler clamps.

3 Preparation for Use



Installation shall be performed by qualified personnel only, in accordance with applicable regulations such as BGV C1 and DIN VDE 0711-217.

3.1 Included Items

The JDC1 package includes a power cord with Neutrik powerCON TRUE1 connector and an omega bracket (part no. 87036).

3.2 Mounting

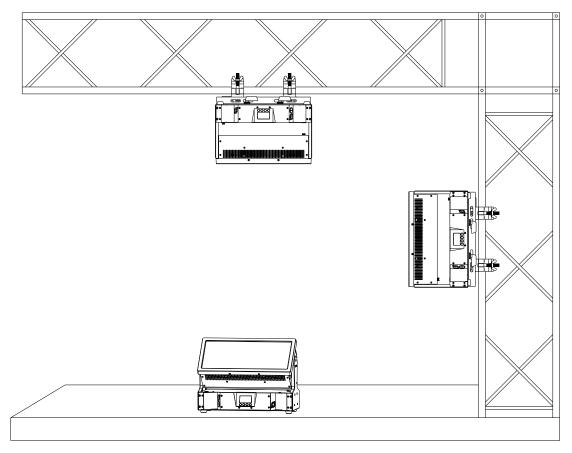


Figure 3-1: Mounting Options (safety cable not shown)

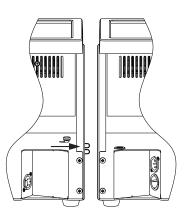
The JDC1 may be rigged in any orientation or placed on a level surface. When installing, keep the head at least 1 m (3.3 ft.) from flammable materials including curtains and stage scenery.

An omega bracket for attaching two half-couplers is included.

Mounting Upright on a Level Surface

The JDC1 may be placed upright on a level surface. Precautions shall be taken to avoid accidental contact.

To align multiple units, insert the alignment pins on the ^{3.2.1} right side of one fixture into the alignment holes on the left side of the next fixture.



Head Down or Sideways Truss Mounting

Figure 3-2: Alignment

To hang the JDC1 with the head down or sideways,

3.2.2 bolt two suitable half-coupler rigging clamps to the omega clamp attachment bracket. Fasten the bracket to the base with four Camlock quarter-turn pins. Line up and insert the pins into the base and turn 90° clockwise to lock. Do the opposite to release them.

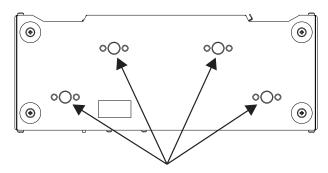


Figure 3-3: Camlock Sockets

Fasten the rigging clamps securely to the truss. Secure as directed in section 3.3.

3.3 Securing the Device

Warning! Use a secondary attachment (safety wire) that can hold at least 10 times the weight of the fixture whenever hanging the fixture. Clip the safety wire to the cable eye on the back of base.

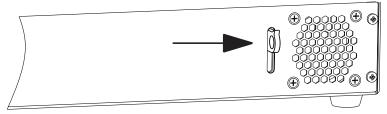


Figure 3-4: Safety Cable Attachment Point

3.4 Connections

Power



The AC supply shall provide earth ground connection and overload protection. Before applying power, verify that there is adequate clearance around the fixture, that there is no filter or other object on the front glass, and that the head is unlocked and can move freely.

The JDC1 provides a 3-conductor, 20 A Neutrik powerCON TRUE1 socket for connection to AC power. The autosensing power supply accepts 100-240 V, 50/60 Hz AC power. Do not connect to any other voltage or an external dimmer.

The main fuse is located in a holder in the base. WARNING! Always disconnect the fixture from the mains supply before replacing the fuse. Replace only with fuse of the specified type.

Control Data

The JDC1 provides 5-pin XLR input/output sockets for connection to a USITT DMX-512 Standard data link. The pin connections are Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+]. Pins 4 & 5 on the 5-pin sockets have no contact.

3.5 Start/stop operation

Verify that the tilt lock has been released before operating. Apply power to start operation. Disconnect from power to stop operation.

3.6 Transportation and Storage

The JDC1 should be transported either in a flight case or its original packaging to protect it from damage from shocks during transportation. Lock the head in the horizontal position for transport by sliding the tilt lock lever to the locked position.

When not installed, store the fixture in a dry location.

4 The Menu Field

The LCD display provides access to user settings, readouts, and utilities including manual control and a test routine.

From left to right, the top line of the main menu displays:

- main CPU software version
- DMX control modes for tilt, all pixels, color plate 2: N(ormal) or I(nverted)
- DMX mode number
- dimming mode: L(inear), S(oft), or E(xtra Soft)
- PWM frequency in Hz

For example, if the top line reads "V:1.25/NNN/M02/E 600", then:

- the main CPU software is version 1.25,
- DMX control for tilt, all pixels, and color plate 2 is set to normal,
- DMX mode 2 is selected,
- dimming mode is set to extra soft, and
- PWM frequency is set to 600 Hz.

When booting up, the panel displays fixture information including component firmware and hardware versions and fixture hours before displaying the PCB reset status screen. After resetting, the panel displays the main menu.

The bottom row displays button functions. Press the Mode button to escape and return to the top of the menu. Press the Enter button to select a setting, issue a command, or enter a submenu. Press the Down and Up buttons to scroll menu options.

To return resettable counters to zero, press and hold Enter for 3 seconds with the counter displayed.

DMX control is disabled when the menu is active. A flashing display indicates loss of DMX.

Menu Selection		Value	Remarks
DMX Start Address		1 -512	Set the DMX start address
Setup			
DMX Mod	de		
1	M01 COMPRESS	-	Compressed 14-channel mode
	M02 NORMAL	-	Normal 23-channel mode
	M03 SPIX	-	High resolution 68-channel mode
	M04 SPIXPRO	-	High resolution 62-channel mode
	M05 1PIXPRO	-	Low resolution 17-channel mode
Settings			
Tilt			
	Invert Tilt	ON/ OFF	Invert tilt control
	Position Feedback	ON/OFF	Toggle feedback
	Tilt Enable		
	ON	-	Tilt enabled and DMX controllable
	OFF	-	Tilt disabled
	NC	-	Tilt enabled, not DMX controllable
Shutter			
	Error Blackout	ON/ OFF	Blackout in case of error
	No DMX Blackout	ON/ OFF	Blackout if no DMX for 3 seconds
Init Positio	ons		
1	Save	-	Save as initial positions
	Reset	-	Restore default positions
Dimming	Curve		·
	Linear	-	
	Soft	-	
	Extra Soft	-	
DMX Hold			
1	Off	-	Blackout on loss of DMX
	Fade Out	-	Fade out on loss of DMX
	Hold	-	Hold state on loss of DMX
PWM Fred	quency		Adjust pulse width modulation freq.
	582-618 Hz	-	Default = 600 Hz
	1200 Hz	-	
	2400 Hz	-	
FX Patteri		ON/OFF	
Display			
. ,	Contrast	0-100%	Default = 50%
	Brightness	0-100%	Default =100%
	Blackout Time	1-30 s	Display off (seconds after keypress)
	Display Orientation		
	Normal	-	Normal display
Inverted		-	Inverted display
	No DMX Flash	ON/OFF	Toggle flash on DMX loss
Tempera		°C/°F	
Fan Mode		· ·	
	Auto	-	Temperature controlled fan speed
	High	-	Maximum cooling
Reset Fac	ctory Settings	Yes/No	Resets all values except serial number

Informatio	on			
	System Errors			Display recent errors
	System Version	าร		Display firmware and hardware versions
	Ма	in	SW/HW	
	Tilt		SW/HW	
	NM	-LED A	SW/HW	
	NM	-LED B	SW/HW	
	NM	-LED C	SW/HW	
	NM	-LED D	SW/HW	
	Temperatures			
	•	in Temperature		
		Current	°C/°F	
		Max. Resettable	°C/°F	Maximum temperature since last reset
		Max. Non-resettable	°C/°F	All time maximum temperature
	LED	Temperature	-,	
i		Current	°C/°F	
		Max. Resettable	°C/°F	Maximum temperature since last reset
		Max. Non-resettable	°C/°F	All time maximum temperature
	Fixture Informa		,	l l
		ure Hours		
		Total hours	hours	Total hours
		Resettable hours	hours	Hours since last reset
	Вос	ot Count	count	
	Fixture Status			
		ver State	BAT/PO	Battery or AC mains power
	DMX Input Mo	nitor	,	Displays DMX levels
	Tilt	· · · · · · · · · · · · · · · · · · ·	0-255	
	Spe	ecial / Control	0-255	
		am FX Shutter	0-255	
	Вес	am Dimmer	0-255	
		am Duration	0-255	
		am Rate	0-255	
		lor Shutter	0-255	
	FX	Color Dimmer	0-255	
		lor Duration	0-255	
		lor Rate	0-255	
		te Red	0-255	
		te Green	0-255	
		te Blue	0-255	
		Crossfade	0-255	
		tern Color Movement	0-255	
		tern Select Color	0-255	
		tern Beam Movement	0-255	
		tern Select Beam	0-255	
		ster Pix Intensity	0-255	
	Fans Monitor		0 200	Display fan speed and voltage
		J Fan	RPM/V	1,5 2,7 12,5 2,5 2,5 3,1 3,1 3,1 3,1 3,1 3,1 3,1 3,1 3,1 3,1
L	. 00	ad Fan	RPM/V	

Manual Control			
Reset			
	Full System Reset	YES/NO	
	Tilt Reset	YES/NO	
	NM_LED L Driver	YES/NO	
	NM_LED R Driver	YES/NO	
Manual D	MX		Enter control values
	Tilt	0 -255	
	Special / Control	0 -255	
	Beam FX Shutter	0 -255	
	Beam Dimmer	0 -255	
	Beam Duration	0 -255	
	Beam Rate	0 -255	
	Color Shutter	0 -255	
	Color Dimmer	0 -255	
	Color Duration	0 -255	
	Color Rate	0 -255	
	FX Color Dimmer	0 -255	
	Plate Red	0 -255	
	Plate Green	0 -255	
	Plate Blue	0 -255	
	FX Crossfade	0 -255	
	Pattern Color Movement	0 -255	
	Pattern Select Color	0 -255	
	Pattern Beam Movement	0 -255	
	Pattern Select Beam	0 -255	
	Master Pix Intensity	0 -255	
	Reset All Values	YES/NO	Set all manual DMX values to 0
Test			
Tilt		ON/ OFF	
Color		ON/ OFF	
All		ON/ OFF	
Service			
Key Code		0 -255	Enter code for Service Menu.
Serial		0-99999	Last 5 digits of serial no. (for RDM)
Tilt		0-255	Default =128

Table 1 Control Menu: Default settings in **BOLD type.**

5 DMX Channels

The JDC1 may be operated in 5 DMX modes that use from 14 to 68 channels. The commands for each mode are listed in the following tables.

The layout of channels 1-14 is the same in each mode. To avoid repetition, these channels are only listed in the table for Mode 1. For modes 2-5, the tables list channels 15 and above.

5.1 Mode 1, Compressed Pro, 14 DMX Channels

	Channel	Command	Percent	DMX
1	Coarse Tilt (MSB)	0-182°	0-100%	0-255
2	Fine Tilt (LSB)	coarse tilt + 0-1.2°	0-100%	0-255
3	Beam Intensity	blackout to full	0-100%	0-255
4	Beam Duration	7-650 ms	0-100%	0-255
5	Beam Rate	0.289-16.67 Hz	0-100%	0-255
		no effect	0-14.0%	0-36
		ramp up (= fade on, snap off)	14.5-15.5%	37-40
		ramp up random	16.0-17.0%	41-44
		ramp down	17.5-18.5%	45-48
		ramp down random	19.0-20.0%	49-52
		ramp up down	20.5-21.5%	53-56
		ramp up down random	22.0-23.0%	57-60
		random white beam	23.5-24.5%	61-64
		random single pixel of the white beam	25.0-26.0%	65-68
		lightning	26.5-27.5%	69-72
		spikes (flash over low light)	28.0-29.0%	73-76
		white beam, left to right	30.0-31.5%	77-80
		white beam, left to right, random	32.0-33.0%	81-84
		white beam, right to left	33.5-34.5%	85-88
		white beam, right to left, random	35.0-36.0%	89-92
		white beam, left to right, bounce	36.5-37.5%	93-96
		white beam, left to right, bounce, random	38.0-39.0%	97-100
		white beam, right to left, bounce	39.5-40.5%	101-104
		white beam, right to left, bounce, random	41.0-42.5%	105-108
		zig, 6 steps	43.0-43.5%	109-112
		zig, 6 steps, random	44.0-45.5%	113-116
		zig, 6 steps, outer to center pixel	46.0-47.0%	117-120
6	Beam FX Shutter	zig, 6 steps, outer to center pixel, random	47.5-48.5%	121-124
		zigzag, 10 steps	49.0-50.0%	125-128
		zigzag, 10 steps, random	50.5-52.0%	129-132
		reserved	52.5-70.0%	133-179
		double flash	70.6-71.8%	180-183
		double flash, random	72.2-73.3%	184-187
		double flash, beam-color	73.7-74.9%	188-191
		double flash, beam-color, random	75.3-76.5%	192-195
		double flash, color-beam	76.9-78.0%	196-199
		double flash, color-beam, random	78.4-79.6%	200-203
		triple flash	80.0-81.2%	204-207
		triple flash, random	81.6-82.7%	208-211
		triple flash, beam-color-beam	83.1-84.3%	212-215
		triple flash, b-c-b, random	84.7-85.9%	216-219
		triple flash, c-b-c	86.3-87.5%	220-223
		triple flash, c-b-c, random	87.8-89.0%	224-227
		quad flsh	89.4-90.6%	228-231
		quad flash, random	91.0-92.2%	232-235
		quad flash, b-c-b-c	92.5-93.7%	236-239
		quad flash, b-c-b-c, random	94.1-95.3%	240-243
		quad flash, c-b-c-b	95.7-96.9%	244-247
		quad flash, c-b-c-b, random	97.3-98.4%	248-251
		reserved	98.5-100%	252-255

		No Function		0%	0
		THE PERIOD I	10°	0.4%	1
			20°	0.8%	2
			30°	1.2%	3
			40°	1.6%	4
			50°	2.0%	5
			60°	2.4%	6
			70°	2.8%	7
			80°	3.1%	8
			90°	3.5%	9
			100°	3.9%	10
			110°	4.3%	11
			120°	4.7%	12
			130°	5.1%	13
			140°	5.5%	14
			150°	5.9%	15
			160°	6.3%	16
			170°	6.7%	17
			180°	7.1%	18
		Channel 4-6 Offset	190°	7.5%	19
			200°	7.8%	20
			210°	8.2%	21
			220°	8.6%	22
			230°	9.0%	23
_	So a simily Combani		240°	9.4%	24
7	Special / Control		250°	9.8%	25
			260°	10.2%	26
			270°	10.6%	27
			280°	11.0%	28
			290°	11.4%	29
			300°	11.8%	30
			310°	12.2%	31
			320°	12.6%	32
			330°	12.9%	33
			340°	13.3%	34
			350°	13.7%	35
			360°	14.1%	36
		No Function		14.5-15.3%	37-39
		Position Feedback On		15.7-17.3%	40-44
		Position Feedback Off		17.7-19.2%	45-49
		FX/Pattern Color Priority On (Hold >		19.6-21.2%	50-54
		FX/Pattern Color Priority Off (Hold >	3 secs)	21.6-23.1%	55-59
		Pixel H		23.5-25.1%	60-64
		Pixel V		25.5-27.1%	65-69
		Normal Tilt Control		27.5-29.0%	70-74
		Inverse Tilt Control		29.4-31.0%	75-79
		Normal Pixel Orientation		31.4-32.9%	80-84
		Inverse Pixel Orientation		33.3-34.9%	85-89
		Normal Orientation, 2 nd Pixel Line		35.3-36.9%	90-94
		Inverse Orientation, 2 nd Pixel Line		37.3-38.8%	95-99

			ı	ı	
			582 Hz	39.2-40.0%	100-102
			583 Hz	40.4-41.2%	103-105
			584 Hz	41.6-42.0%	106-107
			585 Hz	42.4-43.1%	108-110
			586 Hz	43.5 43.9%	111-112
			587 Hz	44.3 -45.1%	113-115
			588 Hz	45.5-46.3%	116-118
			589 Hz	46.7-47.1%	119-120
			590 Hz	47.5-48.2%	121-123
			591 Hz	48.6-49.0%	124-125
			592 Hz	49.4-50.2%	126-128
			593 Hz	50.6-51.4%	129-131
			594 Hz	51.8-52.2%	132-133
			595 Hz	52.5-53.3%	134-136
			596 Hz	53.7-54.1%	137-138
			597 Hz	54.5-55.3%	139-141
			598 Hz	55.7-56.5%	142-144
			599 Hz	56.9-57.3%	145-146
			600 Hz	57.6-58.4%	147-149
		PWM Frequency	601 Hz	58.8-59.2%	150-151
			602 Hz	59.6-60.4%	152-154
			603 Hz	60.8-61.6%	155-157
			604 Hz	62.0-62.4%	158-159
_			605 Hz	62.7-63.5%	160-162
7	Special / Control		606 Hz	63.9-64.3%	163-164
			607 Hz	64.7-65.5%	165-167
			608 Hz	65.9-66.7%	168-170
			609 Hz	67.1-67.5%	171-172
			610 Hz	67.8-68.6%	173-175
			611 Hz	69.0-69.4%	176-177
			612 Hz	69.8-70.6%	178-180
			613 Hz	71.0-71.8%	181-183
			614 Hz	72.2-72.5%	184-185
			615 Hz	72.9-73.7%	186-188
			616 Hz	74.1-74.5%	189-190
			617 Hz	74.9-75.7%	191-194
			618 Hz	76.1-76.1%	194-194
			1200 Hz	76.5-77.3%	195-197
			2400 Hz	77.6-78.4%	198-200
		No Function	•	79.0-82.0%	201-209
		Duration Percentage Mode On		82.5-84.0%	210-214
		Duration Percentage Mode Off		84.5-85.0%	215-219
		Dimmer Flash On		86.0-87.5%	220-224
		Dimmer Flash Off		88.0-90.0%	225-229
		FX/Plate Color Priority On		90.5-91.5%	230-234
		FX/Plate Color Priority Off		92.0-93.5%	235-239
		No Function		94.0-97.0%	220-247
		Reset (Hold > 5 seconds)		98.0-100%	248-255
	•				

8	Color Plate Intensity	blackout to full		0-100%	0-255
9	Color Flash Duration	7-650 ms		0-100%	0-255
10	Color Flash Rate	0.289-16.67 Hz	0.289-16.67 Hz		0-255
		No function		0%	0
			10°	0.4%	1
			20°	0.8%	2
			30°	1.2%	3
			40°	1.6%	4
			50°	2.0%	5
			60°	2.4%	6
			70°	2.8%	7
			80°	3.1%	8
			90°	3.5%	9
			100°	3.9%	10
			110°	4.3%	11
			120°	4.7%	12
			130°	5.1%	13
			140°	5.5%	14
			150°	5.9%	15
			160°	6.3%	16
			170°	6.7%	17
		Color Plate Offset	180°	7.1%	18
		Color Fidic Offset	190°	7.5%	19
			200°	7.8%	20
			210°	8.2%	21
			220°	8.6%	22
			230°	9.0%	23
11	Color FX Shutter		240°	9.4%	24
			250°	9.8%	25
			260°	10.2%	26
			270°	10.6%	27
			280°	11.0%	28
			290°	11.4%	29
			300°	11.8%	30
			310°	12.2%	31
			320°	12.6%	32
			330°	12.9%	33
			340°	13.3%	34
			350°	13.7%	35
		ramp up (fada an aran afr)	360°	14.1%	36
		ramp up (fade on, snap off)		14.5-15.5%	37-40
		ramp up, random		16.0-17.0%	41-44
		ramp down		17.5-18.5%	45-48
		ramp up / down		19.0-20.0%	49-52
		ramp up / down ramp up / down, random		20.5-21.5% 22.0-23.0%	53-56 57-60
		random white beam		23.5-24.5%	61-64
				25.0-26.0%	
		random single pixel of the white	Jeuili	26.5-27.5%	65-68
		lightning			69-72
		spikes (flash over low light)		28.0-29.0%	73-76
		reserved		29.5-70.0%	77-179
		double flash		70.6-74.9%	180-191

		double flash, random	75.3-79.6%	192-203
		triple flash	80.0-84.3%	204-215
11	Color EV CL. Hor	triple flash, random	84.7-89.0%	216-227
''	Color FX Shutter	quad flash	89.4-93.7%	228-239
		quad flash, random	94.1-98.4%	240-251
		no effect	98.5-100%	252-255
12	Plate Red Intensity	blackout to full	0-100%	0-255
13	Plate Green Intensity	blackout to full	0-100%	0-255
14	Plate Blue Intensity	blackout to full	0-100%	0-255

5.2 Mode 5, 1Pix Pro, 17 DMX Channels

Channel		Command	Percent	DMX
		See Mode 1 for Channels 1-14		
15	Color Set 2, Red intensity		0-100%	0-255
16	Color Set 2, Green intensity		0-100%	0-255
17	Color Set 2, Blue intensity		0-100%	0-255

5.3 Mode 2, Normal, 23 DMX Channels

Cha	nnel	Command	Percent	DMX		
	See Mode 1 for Channels 1-14					
15	FX Crossfade		0-100%	0-255		
16	Pattern Color Movement		0-100%	0-255		
17	Pattern Select Color		0-100%	0-255		
18	Pattern Beam Movement		0-100%	0-255		
19	Pattern Select Beam		0-100%	0-255		
20	Color Set 2, Master Intensity	blackout to full	0-100%	0-255		
21	Color Set 2, Red intensity	blackout to full	0-100%	0-255		
22	Color Set 2, Green intensity	blackout to full	0-100%	0-255		
23	Color Set 2, Blue intensity	blackout to full	0-100%	0-255		

5.4 Mode 4, SPix Pro, 62 DMX Channels

Cho	annel		Command	Percent	DMX
0.110			See Mode 1 for Channels 1-14	10.00	277.07
15		Red		0-100%	0-255
16	Pixel 1	Green		0-100%	0-255
17		Blue		0-100%	0-255
18		Red		0-100%	0-255
19	Pixel 2	Green		0-100%	0-255
20		Blue		0-100%	0-255
21		Red		0-100%	0-255
22	Pixel 3	Green		0-100%	0-255
23		Blue		0-100%	0-255
24		Red		0-100%	0-255
25	Pixel 4	Green		0-100%	0-255
26		Blue		0-100%	0-255
27		Red		0-100%	0-255
28	Pixel 5	Green		0-100%	0-255
29	1	Blue		0-100%	0-255
30		Red		0-100%	0-255
31	Pixel 6	Green		0-100%	0-255
32		Blue		0-100%	0-255
33		Red		0-100%	0-255
34	Pixel 7	Green		0-100%	0-255
35		Blue		0-100%	0-255
36		Red		0-100%	0-255
37	Pixel 8	Green		0-100%	0-255
38		Blue		0-100%	0-255
39		Red		0-100%	0-255
40	Pixel 9	Green		0-100%	0-255
41		Blue		0-100%	0-255
42		Red		0-100%	0-255
43	Pixel 10	Green		0-100%	0-255
44		Blue		0-100%	0-255
45		Red		0-100%	0-255
46	Pixel 11	Green		0-100%	0-255
47		Blue		0-100%	0-255
48		Red		0-100%	0-255
49	Pixel 12	Green		0-100%	0-255
50		Blue		0-100%	0-255
51		Pixel 1		0-100%	0-255
52		Pixel 2		0-100%	0-255
53		Pixel 3		0-100%	0-255
54		Pixel 4		0-100%	0-255
55		Pixel 5		0-100%	0-255
56	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Pixel 6		0-100%	0-255
57	White Intensity	Pixel 7		0-100%	0-255
58		Pixel 8		0-100%	0-255
59		Pixel 9		0-100%	0-255
60		Pixel 10		0-100%	0-255
61		Pixel 11		0-100%	0-255
62		Pixel 12		0-100%	0-255

5.5 Mode 3, SPix, 68 DMX Channels

Cho	annel	•	Command	Percent	DMX
JIII			See Mode 1 for Channels 1-14	TOTOGIII	
15	FX Crossfade			0-100%	0-255
16		vement		0-100%	0-255
17	Pattern Select Color			0-100%	0-255
18	Pattern Beam Movement			0-100%	0-255
19	Pattern Select Beam			0-100%	0-255
20	Master Pix Intens	sity		0-100%	0-255
21		Red		0-100%	0-255
22	Pixel 1	Green		0-100%	0-255
23		Blue		0-100%	0-255
24		Red		0-100%	0-255
25	Pixel 2	Green		0-100%	0-255
26		Blue		0-100%	0-255
27		Red		0-100%	0-255
28	Pixel 3	Green		0-100%	0-255
29		Blue		0-100%	0-255
30		Red		0-100%	0-255
31	Pixel 4	Green		0-100%	0-255
32		Blue		0-100%	0-255
33		Red		0-100%	0-255
34	Pixel 5	Green		0-100%	0-255
35		Blue		0-100%	0-255
36		Red		0-100%	0-255
37	Pixel 6	Green		0-100%	0-255
38		Blue		0-100%	0-255
39	Pixel 7	Red		0-100%	0-255
40		Green		0-100%	0-255
41		Blue		0-100%	0-255
42	Pixel 8	Red		0-100%	0-255
43		Green		0-100%	0-255
44		Blue		0-100%	0-255
45		Red		0-100%	0-255
46	Pixel 9	Green		0-100%	0-255
47		Blue		0-100%	0-255
48	Pixel 10	Red		0-100%	0-255
49		Green		0-100%	0-255
50		Blue		0-100%	0-255
51	Pixel 11	Red		0-100%	0-255
52		Green		0-100%	0-255
53		Blue		0-100%	0-255
54	Pixel 12	Red		0-100%	0-255
55		Green		0-100%	0-255
56		Blue		0-100%	0-255
57		Pixel 1		0-100%	0-255
58		Pixel 2		0-100%	0-255
59		Pixel 3		0-100%	0-255
60		Pixel 4		0-100%	0-255
61		Pixel 5		0-100%	0-255
62	White Intensity	Pixel 6		0-100%	0-255
63	wille illerisity	Pixel 7		0-100%	0-255
64		Pixel 8		0-100%	0-255
65		Pixel 9		0-100%	0-255
66		Pixel 10		0-100%	0-255
67		Pixel 11		0-100%	0-255
68		Pixel 12		0-100%	0-255

6 Cleaning and Maintenance



WARNING! Any service operation that requires removal of a cover shall be performed by a professional service technician with the tools, skills, and personal protective equipment to maintain high-powered lighting equipment safely and efficiently.

6.1 Suggested Maintenance Intervals

The cleaning schedule depends on the operating environment. The intervals below are suggestions from our experience with typical installations. Adjust as necessary.

Maintenance Task	Interval	How	
Front glass	weekly	soft cloth and glass cleaning fluid	
Fans and air channel	monthly	vacuum cleaner, compressed air, etc.	
Moveable parts	yearly	suitable lubricant	

6.2 Cleaning

JDC1 components require occasional cleaning to prevent the buildup of dust, dirt, and smoke fluid residue. Pay special attention to the air vents and glass plate. Failure to keep the fixture clean will significantly reduce light output and may cause damage. Regular cleaning will ensure the maximum performance and reliable operation.

The glass plate may be cleaned with household or automotive glass cleaning products.

6.3 GLP Service and Support

Contact information for the nearest GLP service and suport is available online at www.glp.de/en/service, by email at info@glp.de, or by telephone at the following numbers:

GLP Germany: +49 (7248) 927 19-55GLP N. America: +1 818 767-8899

GLP U.K.: +44 1392 690140
GLP Asia: +852 (3151) 7730
GLP Nordic: +46 737 57 11 40

7 Technical Specifications

Strobe Panel LEDs

LED Type OSRAM LRTB GVTG
LED Count 1320
LED Colors RGB
LED Segments 12 (2 x 6)

Strobe Tube LEDs

LED Type CREE XP L LED

LED Count 216

LED Colors Cool White

LED Segments 12

Movement

Resolution 8 - 16 Bit Position feedback yes Tilt 185°

Connectors

Signal connection XLR 5-pin input & output Power input Neutrik powerCON TRUE1

Operating Conditions

Mains voltage 100-240 VAC / 50-60Hz

Power (@ 230V) 1200 W

Fuse 6.3X32mm T15A

Max. ambient temp. 45°C / 113°F

Operating position any

Shipping

Single fixture cardboard (Product code 7675)
Tourpacks 4-way & 8-way incl. flightcase

Dimensions & Weight

Length 154 mm (6.1 in)

Width 390 mm (15.3 in)

Height (head horizontall) 284 mm (11.2 in)

Weight 10.8 kg (24 lbs)

Weight incl. bracket 12 kg (26.5 lbs)

8 Dimensions

