

Instruction Manual

From Version 1.0



email: service@GLP.de

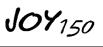
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1 Introduction

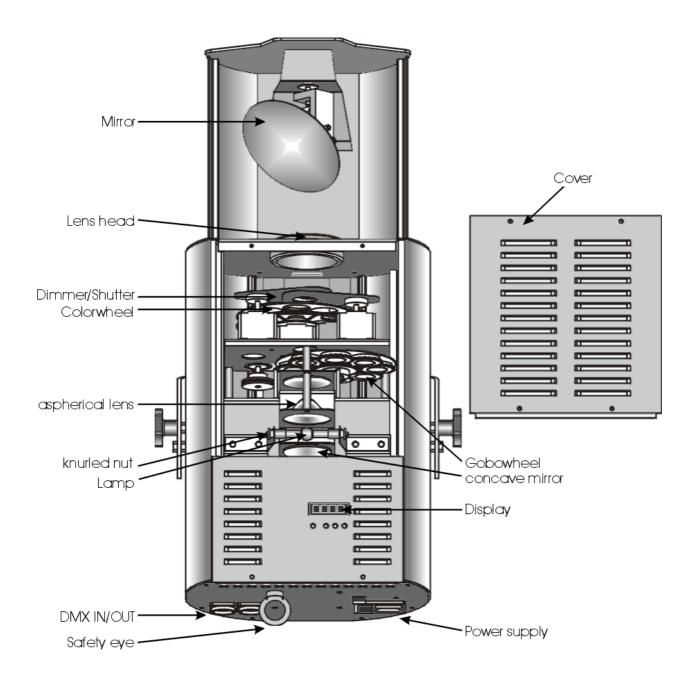


Abbildung 1-1



1.1 Safety rules

The **JOY-150** is a High-Tech Product. To guarantee a smooth operation, it is necessary to keep following rules.

- 1. Make sure that the mirror of the **JOY-150**, can move without any mechanical problems and that all fan openings are clean and not blocked by anything.
- 2. Touching the mirror while moving can cause serious injuries
- 3. Unplug the **JOY-150** 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 JOY-150. Please do not touch the Bulb if you are not absolutely sure it is cold. -Danger of BURNING-
- 5. The **JOY-150** is provided with a protecting switch which disconnects the power from the lamp while the cover is opened. **Never bridge this protecting switch** it can damage your retina and you can go blind!
- 6. To allow a secure operation, follow also the Installation guide described in chapter 2. Operating the **JOY-150** without suited safety aids like Safety cables or clamps/hooks can increase the risk of an accident.
- 7. The installation should be done by qualified staff only. You need to pay attention to the common rules of technology that are not explicit mentioned in this manual.



2 Installation

2.1 Mounting

The **JOY-150** is fully operational whether it hangs or is mounted to the wall.

2.1.1 Clamps

Mount clamps and/or hooks directly to the bow of the **JOY-150**. Please make sure to use right sized clamps and hooks and fit them securely.

2.2 Secure the JOY-150

Use always safety wires to secure the **JOY-150**, connect them with the eyelet (see Drawing 1-1) and check the tight fit!

2.3 Connectors

2.3.1 AC Connectors

230 Volt, 50 Hz, 0,9AT (power compensated)

115 Volt, 60 Hz, 1,8AT (power compensated)

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

Die DMX- Address starts at [001].

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

2.4 Fuse

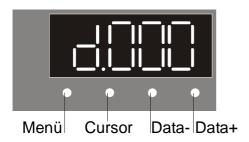
The **JOY-150** electronic system is protected by 5x20 T4A fuse 250V.

Please see the printing on the **JOY-150** for more details look at the Drawing 1-1.

Disconnect AC outlet before changing a fuse !!!



3 The Menu Field



3.1 Adjust the DMX- Address

Right after turning on the **JOY-150** you can see the current DMX- Address. Choose this as follows:



Count up or down the DMX- Address with the Data + or Data - buttons. After pushing the Cursor button the upcounting speed increases to a multiple. You can see that at the three decimal dots. Pushing the Cursor button again to get to the slow speed.

Confirm the DMX-Address by pressing the Menu key once.

Attention: As long as you see the decimal dot flashing the new address is not saved.

If there is no DMX- Signal, the **d** in the display is flashing.



The DMX-Address is stored also while switching off the JOY-150 !!!



3.2 Read out the Running Time of Lamp and Unit

Select the time level by pressing the Menu key twice.



Select the requested time by pressing the Cursor key,

3.2.1 Lamp Time 1

The current lamp time is shown alternating with LA 1.



This time can be cleared by pressing the Data + and Data - keys at the same time.

3.2.2 Lamp Time 2

The total lamp time is shown alternating with LA 2. This time can't cleared.



3.2.3 Life Time

The life time is shown alternating with LIFE.



3.3 The CODE Level

This level is accessed by authorized dealers only.

In this level you can adjust all functions.

3.4 The Test Level

The Test Level makes a selftest procedure possible.

Select the selftest Procedure by pressing the Menu key three times.

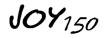


Start the selftest program by pressing the Cursor key. The lamp will be started automatically and a selftest procedure with 8 steps will run. To leave the selftest press the Menu key again.

3.5 Temperature Control 1

Deviates the temperature value to much from the system standard, the lamp will turn off automatically.

Reconnection can only be made by authorized dealers.



4 Channel selection (Overview table)

Channel	Description	DMX	Hex	Value in %
1) PAN – High	0180°	0255	00FF	0100
2) PAN – Low	High-Pos High-Pos + 0,7°	0255	00FF	0100
3) TILT – High	0150°	0255	00FF	0100
4) TILT – Low	High-Pos High-Pos + 0,59°	0255	00FF	0100
5) Color	Open	03	0003	01
	Open / Color 1	47	0407	23
	Color 1	811	080B	34
	Color 1 / Color 2	1215	0C0F	45
	Color 2	1619	1013	57
	Color 2 / Color 3	2023	1417	89
	Color 3	2427	181B	910
	Color 3 / Color 4	2831	1C1F	1011
	Color 4	3235	2023	1213
	Color 4 / Color 5	3639	2427	1415
	Color 5	4043	282B	1617
	Color 5 / Color 6	4447	2C2F	1718
	Color 6	4851	3033	1920
	Color 6 / Color 7	5255	3437	2021
	Color 7	5659	383B	2122
	Color 7 / open	60127	3C7F	2349
	Rot. Color, slow – fast CW	128191	80BF	5075
	Rot. Color fast – slow CCW	192253	C0FD	7698
	Audio Color-change slow	254	FE	99
	Audio Color-change fast	255	FF	100
6) Gobo	Gobo 1 big spot	015	000F	06
	Gobo 2	1631	101F	712
	Gobo 3	3247	202F	1318
	Gobo 4	4863	303F	1924
	Gobo 5	6479	404F	2531
	Gobo 6	8096	505F	3237
	Gobo 7	96127	607F	3850
	Rot. Gobo, slow - fast CW	128191	80BF	5175
	Rot. Gobo, fast – slow CCW	192253	C0FD	7698
	Audio Gobo-change slow	254	FE	99



Audio Gobo-change fast 7) Shutter Shutter closed Shutter frequence slow – fast Shutter open 8) Gobo Gobo position 0700° Rotation Gobo rotation slow - fast CW Gobo Rotation slow Audio Gobo Rotation slow Audio Gobo Rotation fast 9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 20° slow - fast Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program—Send—Mode→ ** Engage Program—Send—Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	DMX	Hex	Value in %
Shutterfrequence slow – fast Shutter open 8) Gobo Gobo position 0700° Rotation Gobo rotation slow - fast CW Gobo Rotation slow Audio Gobo Rotation slow Audio Gobo Rotation fast 9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program-Send-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 2 sec Audio – min. Time 2 sec	255	FF	100
Shutter open 8) Gobo Gobo position 0700° Rotation Gobo rotation slow - fast CW Gobo rotation fast - slow CCW Audio Gobo Rotation slow Audio Gobo Rotation fast 9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program - Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow - fast 11* Save Step X→ 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio - min. Time 0,4 sec Audio - min. Time 1 sec Audio - min. Time 2 sec Audio - min. Time 2 sec Audio - min. Time 2 sec Audio - min. Time 3 sec	015	000F	06
Rotation Gobo position 0700° Rotation Gobo rotation slow - fast CW Gobo rotation fast – slow CCW Audio Gobo Rotation slow Audio Gobo Rotation fast 9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 20° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	16239	10EF	793
Rotation Gobo rotation slow - fast CW Gobo rotation fast — slow CCW Audio Gobo Rotation slow Audio Gobo Rotation fast 9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 20° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program — Mode→ ** Engage Program—Receive-Mode→ ** Engage Program—Send—Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow - fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio — min. Time 0,4 sec Audio — min. Time 1 sec Audio — min. Time 2 sec Audio — min. Time 2 sec Audio — min. Time 3 sec	240255	F0FF	94100
Gobo rotation fast – slow CCW Audio Gobo Rotation slow Audio Gobo Rotation fast 9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 20° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	0127	007F	050
Audio Gobo Rotation slow Audio Gobo Rotation fast 9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 20° slow - fast Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program - Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset Pan/Tilt relative Pan/Tilt slow - fast 11* Save Step X→ 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio - min. Time 0,4 sec Audio - min. Time 1 sec Audio - min. Time 2 sec Audio - min. Time 2 sec Audio - min. Time 3 sec	128191	80BF	5175
Audio Gobo Rotation fast 9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 20° slow - fast Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program - Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow - fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio - min. Time 0,4 sec Next Time in 1/10 sec Audio - min. Time 2 sec Audio - min. Time 2 sec Audio - min. Time 3 sec	192253	C0FD	76100
9) Special No function Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 20° slow - fast Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program - Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow - fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio - min. Time 0,4 sec Next Time in 1/10 sec Audio - min. Time 1 sec Audio - min. Time 2 sec Audio - min. Time 2 sec Audio - min. Time 3 sec	254	FE	99
Gobo-wipe +/- 10° slow - fast Gobo-wipe +/- 20° slow - fast Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	255	FF	100
Gobo-wipe +/- 20° slow - fast Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program - Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow - fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio - min. Time 0,4 sec Next Time in 1/10 sec Audio - min. Time 1 sec Audio - min. Time 2 sec Audio - min. Time 2 sec Audio - min. Time 3 sec	015	000F	06
Gobo-wipe +/- 30° slow - fast Color Chaser C / C+1 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program - Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow - fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio - min. Time 0,4 sec Next Time in 1/10 sec Audio - min. Time 2 sec Audio - min. Time 2 sec Audio - min. Time 3 sec	1631	101F	712
Color Chaser C / C+1 slow - fast Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	3247	202F	1318
Color Chaser C / C+2 slow - fast Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program-Receive-Mode→ ** Engage Program-Send-Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	4863	303F	1924
Audio Pan / Tilt slow Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program-Receive-Mode→ ** Engage Program—Send—Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	6479	404F	2531
Audio Pan / Tilt fast Engage Program – Mode→ ** Engage Program-Receive-Mode→ ** Engage Program—Send—Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	8095	505F	3237
Engage Program – Mode→ ** Engage Program-Receive-Mode→ ** Engage Program—Send—Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	96111	606F	3843
Engage Program-Receive-Mode→ ** Engage Program—Send—Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	112127	707F	4450
Engage Program—Send—Mode→ ** No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	192207	C0CF	7581
No Function Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	208223	D0DF	8287
Reset 10) Speed Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step X → 255 → 0, X → FF → 0 sav programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	224239	E0EF	8893
Pan/Tilt relative Pan/Tilt slow – fast 11* Save Step	240249	F0F9	9497
Pan/Tilt slow – fast 11* Save Step	250255	FAFF	98100
11* Save Step	015	000F	06
programstep in the Scanner Call saved programsteps Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	16255	10FF	7100
Set DMX-Values 12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	ve X→255→0	X→FF→0	X→100→0
12* Next Time Audio – min. Time 0,4 sec Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	0015	0015	06
Next Time in 1/10 sec Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	16254	10FE	799
Audio – min. Time 1 sec Audio – min. Time 2 sec Audio – min. Time 3 sec	004	004	02
Audio – min. Time 2 sec Audio – min. Time 3 sec	5199	05C7	378
Audio – min. Time 3 sec	200209	C8D1	7982
	210219	D2CB	8385
Audio - min Time 5 sec	220229	DCE5	8689
Addio - Itilia. Tittle 3 Sec	230239	E6EF	9093
Audio – min. Time 10 sec	240255	F0FF	94100



Channel	Description	DMX	Hex	Value in %
13* Step No.	Programstep No. 1	07	0007	02
	Programstep No. 2	815	080F	35
	Programstep No. 3	1623	1017	69
	Programstep No. 25	224239	F0F7	8793
	Engage Lern – Mode with channel 11 and channel 12, $0 \rightarrow 255 \rightarrow 0$	240255	F8FF	94100
Lamp ON	Shutter open	240255	F0FF	94100
Lamp OFF	Shutter close and	015	000F	06
	Special channel 9 and	010	00A	04
	Speed channel 10	X→255→0	X→FF→0	X→100→0

^{*} These channels are only activated in the Program – Mode

** You can activate the Program – Mode either with an DMX controller or direct at the display of the **JOY-150**.

At the scanner choose the function "**P**" with the Menu key. Than select the Program – Mode with the Cursor key.

If you use a DMX controller choose one of the Program – Modes with the *Special* Channel (No.09). Than engage channel *Step No.* (No.13) to DMX 255. To save this mode engage channel $Save\ Step\ (No.11)$ from $0\rightarrow 255\rightarrow 0$.

If the Send- or Receive – Mode is engaged the channels 11, 12 and 13 are activated.



5 Programming the JOY-150

You can program the **JOY-150** in a standalone program within 25 steps. This program can run automatically after turning on the unit. This means you need a DMX Controller for programming but not for running the stand alone program.

5.1 Engage the Program Mode

Normal - Mode: Receive standard DMX signal.

Receive - Mode: The scanner receives DMX signals for programming and stores the steps.

Send - Mode: The scanner works stand alone and sends DMX signals to other scans.

a) Engage at the JOY-150

Press the Menu key once. **P_n_**. You are now in the Normal–Mode.

Change with the Cursor key to the Receive – Mode **P._r**_ or further to the Send– Mode **P._S**_

Press the Menu key again to confirm the changes.

b) Engage with a DMX Controller

Look at the channel selection overview table.

5.2 Write a program

You must be in the Receive- or Send – Mode to program the **JOY-150.** In this mode the DMX Channels 11, 12 and 13 are activated.

Procedure:

- 1) Activate the Receive- or Send Mode.
- 2) Set Channel No.11 to "Set DMX-Values" (DMX 16..254).
- 3) Choose the program step with DMX Channel No.13.
- 4) Set your DMX adjustments with the DMX Channels No.1..10.
- 5) Choose the Next Time or the Audio control with DMX Channel No.12.
- 6) Save the step with DMX Channel No.11 $xx \rightarrow 255 \rightarrow 00$.
- 7) etc.

5.3 Call on the Standalone Program

Engage the Send – Mode at the **JOY-150**.

The program starts automatically after turning on the unit. In the display you can see the Next Time for the following step. At the last step the program will jump automatically to the beginning of the program.

6 Change the Lamp

For a hassle free change of the Light bulb, it is absolutely necessary to follow all descriptions in this chapter step by step.

6.1 Safety Rules

- Unplug AC power connection
- Allow to cool (min. 30 minutes)
- Don't touch lamp with bare fingers.
- Install the lamp with the filler to the right direction.
- Distance between lamp and lens holder must be min. 5mm.
- Close the JOY-150 before you connect the AC power!

6.2 How to change the lamp

Please look also Illustration 1-1.

- 1. Open the two screws at the top plate.
- 2. Take off the broken 150 CMD lamp and put in an new one.
- 3. Close the **JOY-150** in reverse order.

Attention:

Please make sure that you don't touch the bulb of the lamp with bare fingers !!!



7 Change the Gobos

The **JOY-150** is fitted with standard Gobos (Ø26 mm, picturesize 22mm).

7.1 Safety Rules

- Unplug AC power connection
- Allow to cool (over 30 minutes)
- Don't touch lamp with bare fingers.
- Close the **JOY-150** before you connect the AC power!

7.2 How to change the Gobos

Please look also Illustration 1-1.

- 1. Open the two screws at the top plate.
- 2. Remove the gobo springs with the help of an small screwdriver.
- 3. Change the Gobo's and fix them with the gobo springs.
- 4. Close the **JOY-150** in reverse order.

Do the same with the Effect Wheel.

Attention:

If you use glasgobo's the mirror - side of the Gobo must align towards the mirror.

Close the JOY-150 in reverse order.

8 Maintenance the JOY-150

The cleaning of the inner optical System, color filters, color correction filter and lenses should be done by qualified person only! Contact your local **GLP** Dealer for details.

Use no strong detergents, acid etc. for cleaning the case.

8.1 Mirror and Optical System

Clean the JOY-150 optical system with a moistened cloth and a little cleaner.

Attention:

Never clean the aspheric lens besides the lamp with water or cleaner. Do only use a clean and dry piece of cloth.

It is necessary to clean the fan openings, air channels and fan gratings on a regular base (depending on the local environment, about every two weeks).



9 Technical Data / Overview

- AC 230V/0,9 AT or AC 115V/1,8 AT
- 150 CMD Lamp with 6000h lifetime
- Power compensated
- DMX 512 Standard
- Weight 12 kg
- Dimensions: 600 x 175 x 265 mm
- 16 Bit Pan/Tilt
- Pan- movement: 180°
- Pan- movement: 150°
- angle of spread: 16°
- 5 rotating and positioning Gobos
- 1 fixed Gobos
- 7 Colors + white
- 8 Half colors
- Rainbow effect
- High Speed Shutter
- Audio controlled
- Programmable up to 25 steps



GERMAN LIGHT PRODUCTS