Startec-1200

Instruction Manual

From Version 1.2

GERMAN LIGHT PRODUCTS

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Contents

1 Introduction

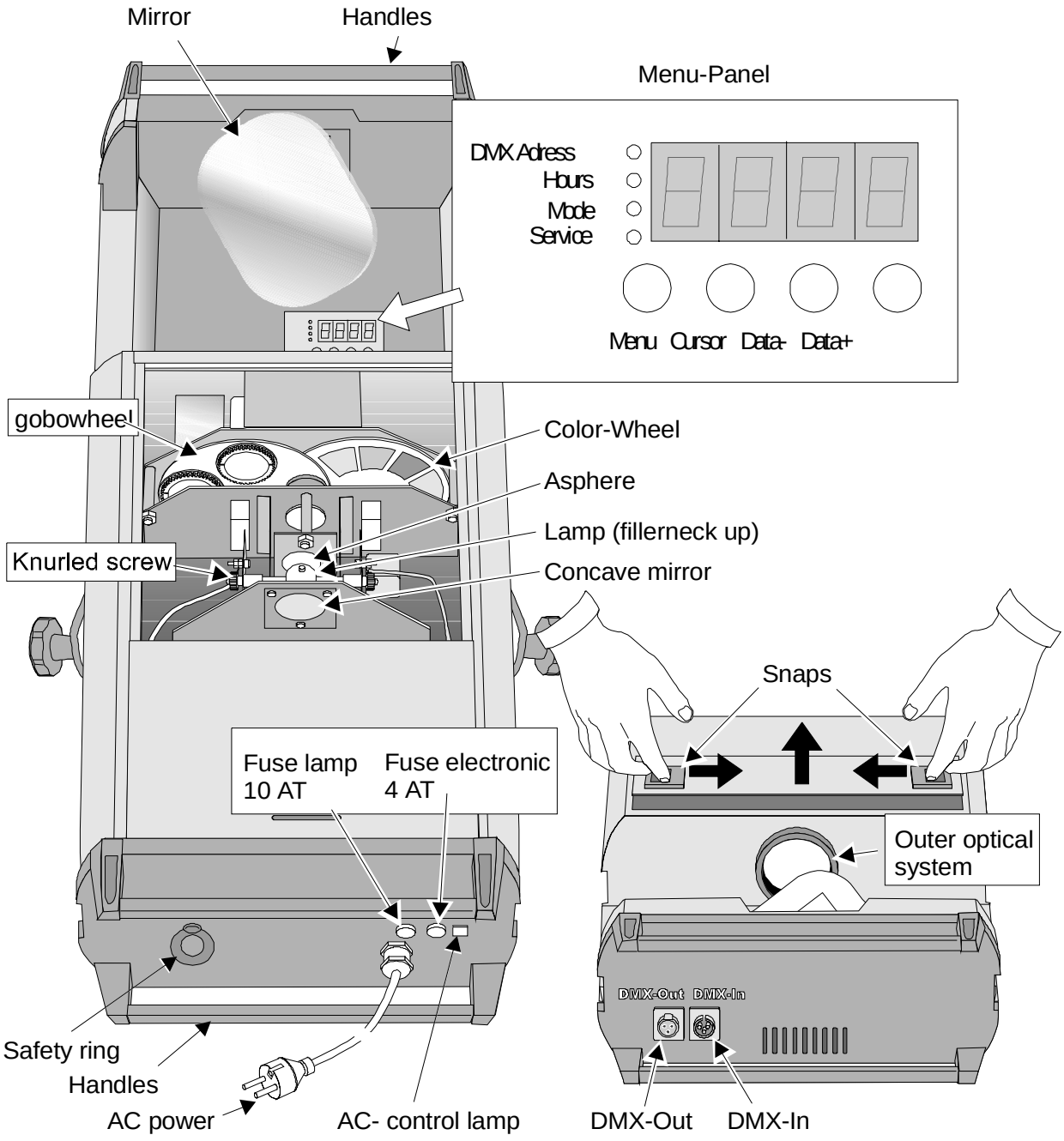


Illustration 1-1

1.1 Safety Rules

The **StarTec 1200** 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 **StarTec 1200,** 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 **StarTec 1200** 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 **StarTec 1200**. Please do not touch the Bulb if you are not absolutely sure it is cold. **-Danger of BURNING-**
5. The **StarTec 1200** is provided with a protective switch to switch off the lamp when opening it. By no means do not bridge these switch. **This can cause serious injuries of your retina.**
6. To allow a secure operation, follow also the Installation guide described in chapter 2. Operating the **StarTec 1200** 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

To mount the **StarTec 1200** use the bow at the backside of the system witch can moved in the slidenuts at the side of the body.

2.1.1 Clamps (Hooks)

Mount clamps and/or hooks directly to the bow of the **StarTec 1200**.

Please make sure to use right sized clamps and hooks and fit them securely.

The **StarTec 1200** is fully operational whether it stands or hangs.

Using the **StarTec 1200** standing on the ground requires a rough but even surface. Make sure that the fan openings are not blocked by any circumstances and that the system is secured against tip over.

2.2 Secure the StarTec 1200

Use always safety wires to secure the **StarTec 1200,** connect them with the eye bolt at the backside and check the tight fit!

2.3 Connectors

2.3.1 AC Connectors

230 Volt, 50 Hz

Power input 10A

2.3.2 DMX

DMX 512 Standard input/output. Please see printing on the case for the right Pin usage!

[+] = Pin 3 / [-] = Pin 2 / [Ground] = Pin 1

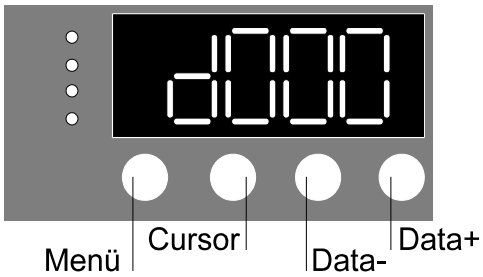
The DMX- Address starts at the **StarTec 2000** at the DMX- Address [001].

2.4 Fuse

The **StarTec 1200** electronic system is protected by a 5x20 T4A fuse 250V. The lamp is protected by a 5x20 T10A fuse 250V. Please see the printing on the **StarTec 1200,** for more details look at the Illustration 1-1 in Chapter 1

Disconnect AC outlet before changing a fuse !!!

3 The Menu Field



3.1 Adjust the DMX- Address

Right after turning on the **StarTec 1200** you can see the current DMX- Address. Choose this as follows.

Select the DMX- Level by pressing the menu key once.

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.

The DMX-Address is also stored while switching off the **StarTec 1200** !!!

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.

3.2.3 Life Time

The life time is shown alternating with LIFE.

3.3 The CODE Level

This level is accessed by authorised dealers only.

In this level you can adjust all functions.

3.4 The Test Level

The Test Level makes a function test or a selftest procedure possible.

3.4.1 Selftest Procedure

Select the requested test level by pressing the Cursor key.

Start the Selftest program by pressing the Data+ key. The lamp can be started by pressing the Data+ and Data- keys for 5 seconds at the same time.

You have the following sections:

PR	Selftest of all functions
PAN	Test Mirror Pan- movement
TILT	Test Mirror Tilt- movement
PSA	Test Prism
dI	Test Dimmer
Shut	Test Shutter
CLr	Test Colorwheel
GB1	Test Gobowheel
IrIS	Test Iris
Gr1	Test Gobo rotation
FOCS	Test Focus

Forward with the Data+ key. – Backward with the Data- key.

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 authorised dealers.

4 Channel selection (Overview table)

Channel	Description	DMX-Value	Hex-Value	Value in %
1) Pan / coarse	Pan Position, coarse (0^o – 170^o)	0 - 255	0 - FF	0 – 100%
2) Pan / fine	Pan Position, fine	0 - 255	0 - FF	0 – 100%
3) Tilt / coarse	Tilt Position, coarse (0^o –110^o)	0 - 255	0 - FF	0 – 100%
4) Tilt / fine	Tilt Position, fine	0 - 255	0 - FF	0 – 100%
5) Color	color 1 (white)	0 - 4	0 - 4	1%
	bi (white – green)	5 - 9	5 - 9	2 – 3%
	color 2 (green)	10 - 14	A - E	4 – 5%
	bi (green – red)	15 - 19	F - 13	6 – 7%
	color 3 (red)	20 -24	14 - 18	8 – 9%
	bi (red – dark blue)	25 - 29	19 - 1D	10 – 11%
	color 4 (dark blue)	30 - 34	1E - 22	12 – 13%
	bi (dark blue – yellow)	35 - 39	23 - 27	14 – 15%
	color 5 (yellow)	40 - 44	28 - 2C	16 – 17%
	bi (yellow – pink)	45 - 49	2D - 31	18%
	color 6 (pink)	50 - 54	32 - 36	19 – 20%
	bi (pink – turquoise)	55 -59	37 - 3B	21 – 22%
	color 7 (turquoise)	60 - 64	3E - 40	23 – 24%
	bi (turquoise – orange)	65 - 69	41 - 45	25 – 26%
	color 8 (orange)	70 - 74	46 - 4A	27 – 28%
	bi (orange – cyan)	75 - 79	4B - 4F	29 – 30%
	color 9 (cyan)	80 - 84	50 - 54	31 – 32%
	bi (cyan – magenta)	85 - 89	55 - 59	33 – 34%
	color 10 (magenta)	90 - 94	5A - 5E	35 – 36%
	bi (magenta – white)	95 - 99	5F - 63	37 – 39%
	rotation cw slow – fast	128 - 191	80 - BF	50 – 74%
	stop	192	C0	75%
	rotation ccw fast - slow	193 - 255	C1 - FF	76 – 100%
6) Gobowheel	Gobo 1 (offen)	0 - 9	0 - 9	0 – 3%
	Gobo 2	10 - 19	A - 13	4 – 7%
	Gobo 3	20 - 29	14 - 1D	8 – 11%
	Gobo 4	30 - 39	1E - 27	12 – 15%
	Gobo 5	40 - 49	28 - 31	16 – 19%
	Gobo 6	50 - 127	32 - 7F	20 – 50%
	rotation cw fast – slow	128 - 191	80 - BF	51 – 74%
	stop	192	C0	75%
	rotation ccw fast – slow	193 - 255	C1 – FF	76 – 100%
7) Gobo/	Stop	0 – 4	0 – 4	0 – 1%
Rotation	rotation cw slow – fast	5 – 24	5 – 18	2 – 9%
	Stop	25 – 29	19 – 1D	10 – 11%
	rotation ccw slow – fast	30 – 49	1E – 31	12 – 19%

Channel	Description	DMX-Value	Hex-Value	Value in %
	Stop	50 – 54	32 – 36	20 – 21%
	gobo position	55 - 255	37 – FF	22 – 100%
8) Iris	Iris 100% - 4% open	0 - 255	0 – FF	0 – 100%
9) Prism	Open	0 – 9	0 – 9	0 – 3%
	prism 1	10 – 19	A – 13	4 – 7%
	rot. cw prism 1 slow – fast	20 – 69	14 – 45	8 – 26%
	Stop	70	46	27%
	rot. ccw prism 1 fast –slow	71 – 119	47 – 77	28 – 46%
	Stop	120	78	47%
	Effect	121 - 129	79 – 81	48 – 50%
	prism 2	130 – 139	82 – 8B	51 – 54%
	rot. cw prism 2 slow – fast	140 – 189	8C – BD	55 – 73%
	Stop	190	BE	74%
	rot. ccw prism 2 fast –slow	191 – 239	BF – EF	75 – 93%
	Stop	240 – 255	F0 – FF	94 – 100%
10) Shutter	Shutter open	0 – 15	0 – F	0 – 5%
	Shutter close 1	16 – 31	10 – 1F	6 – 12%
	Shutter open 2	32 – 63	20 – 3F	13 – 24%
	Shutterfreq., slow- fast	64 – 239	40 – EF	25 – 93%
	Shutter on (Dimmer- Position)	240 – 255	F0 - FF	94 – 100%
11) Focus	Min. – max.	0 – 255	0 – FF	100%
12) Dimmer	Dimmer close	0 – 15	0 – F	0 – 5%
	Dimmer close – open	16 – 239	10 – EF	6 – 93%
	Dimmer open	240 – 255	F0 – FF	94 – 100%
13) Special Function	Reset	250 – 255	8A – FF	98 – 10%
14) Speed Pan/Tilt	Relativ speed	0 - 15	0 - F	0 – 5%
	Slow - fast	16 - 255	10 - FF	6 – 100%
Lampe on	Dimmer open (min. 2 sec) Iris	255 255	FF FF	100% 100%
Lampe off	Dimmer close Special Function Iris (max. 5sec)	0 5 – 10 x – 255 – 0	0 5 – A x – FF – 0	0% 2 – 4% x– 100– 0%

5 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.

5.1 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 bee min. 5mm.
- Close the **StarTec 1200** before you connect the AC power!

5.2 How to change the lamp

Please look also Illustration 1-1.

1. Press the two safety levers at the same time and lift carefully the cover plate.
2. Open the knurled nut and change the HMI lamp.
3. Close the **StarTec 1200** in reverse order.

Attention:

Please make sure that the filler of the lamp is in the right direction. **That means not in direction concave mirror or lenses.**

Please close the knurled nuts of the HMI lamp fast.

6 Change the Gobos

The **StarTec 1200** is fitted with standard Gobos (∅ 37,5 mm, picturesize 27 mm).

6.1 Safety Rules

- Unplug AC power connection
- Allow to cool (over 30 minutes)
- Don't touch lamp with bare fingers.
- Close the **StarTec 1200** before you connect the AC power!

6.2 How to change the Gobos

Please look also Illustration 1-1.

1. Press the two safety levers at the same time and lift carefully the cover plate.
2. Remove the gobosprings with the help of an small screwdriver.
3. Change the Gobo's and fix them with the gobosprings.
4. Close the **StarTec 1200** in reverse order.

Attention:

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

7 Maintenance the StarTec 1200

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.

7.1 Mirror and Optical System

Clean the **StarTec 1200** optical system with a moistened cloth and a little cleaner.

Attention:

Never clean the aspharic 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).**

8 Technical Data /Overview

- Supply Data 230V/10AT
- 1200 HMI Lamp, bilateral based, with 750h Lamp Life
- Capacitor compensation
- Angle of spread 16°
- DMX 512 Standard
- weight 35 kg
- Dimensions: 880 x 220 x 360 mm
- 16 bit Pan/Tilt
- Pan- movement: 170°
- Tilt- movement: 110°

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