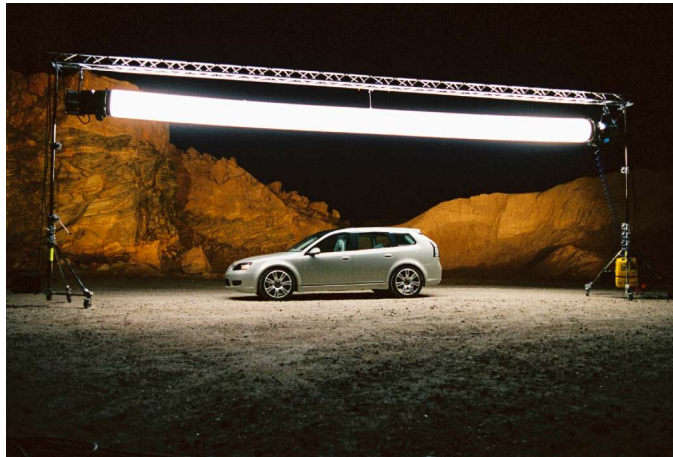


Bag-o-Light

with power supply PS50-03



Functional description

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Europe: 1 108 182
Europe: 1 194 717
USA: 6,683,719
USA: 6,612,711

Caution! Operate the device only after having read and **understood** the operating instructions!

Bag-o-Light with power supply PS50-03

The light system Bag-o-Light is a versatile, easy to use and fast to set up soft light. The sewed and glued light bag generates a very homogeneous light.

The bag is filled with normal air. Once it is blown up it keeps the position up to 8 hours. In this time the device is absolutely noiseless. It can be refilled manually or by an automatic during shooting breaks.

The air is provided by a compressor. The air pressure inside the bag reaches a maximum of only 35 mBar. This means a danger because of explosion does not exist.

The system is available for different lamp sizes and in different lengths:

Power / Length	2,5 / 4 KW	6kW	12 kW	18kW
3m	X			
6m	X	X	X	
10m	X*	X*		
12m	X*	X*		
18m		X*		
28m				X*

*These sizes require two lamps. One on each side.

Because of the different sizes, the user has to possibility to adapt the system to different spatial conditions.

The light characteristic can be adapted with accessories like CTO glass plates, black cover, mechanical dimmer shutter and color changer.

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The kit

The basic system consist of the following parts:



- 1 Base ring
- 2 Light bag in dust cover
- 3 Power supply PS50-03
- 4 Bag-o-Light fan for prefilling
- 5 Bag-o-Light pressure control unit
- 6 Pressure hose for compressor/pressure control connection
- 7 Power cord for PS50-03
- 8 4pin XLR-cable for power supply/pressure control connection
- 9 Extension hose for control unit/base ring connection (optional)

Optional accessories:

- Mechanical dimmer shutter
- DMX controller for dimmer shutter control
- CTO correction filter
- Black cover
- Compressor
- Further pressure hoses
- Light proof ring
- Special yoke for lamphead. Replaces the original.
- Further 4pin XLR-cables for control line extension (PS50-03 and shutter)

Safety and operating instructions

Before opening the power supply, it has to be disconnected from the electrical mains !

Operating position is horizontal. It must be operated only in this position.

Admissible ambient temperature: 0 to +40 degree Celsius

The vents must not be blocked or covered.

The device is not designed for outside use. It must be operated in clean and dry rooms.

The device must be kept dry. In case of water condensation a acclimation time of 2 hours is necessary until acclimatisation is reached.

When filled, the pressure in the bag is not more than 35mBar. This pressure is absolutely harmless. There is no explosion danger.

The mechanical overpressure valve is a safety component which ensures, that overpressure can escape.

Power supply mains in: AC 100-120V AC **or** 200-240 V AC +/- 10%, 50/60Hz

If a generator is used, make sure that the generator has run up and voltage is stable before switching on the power supply PS50-03.

Power supply output: max. 24V DC

The Bag-o-Light base ring is getting very hot during operation because of the lamp heat. Please let it cool down for at least one hour before touching it.

Do not switch on the lamp until the system, the optional accessories and the cabling have been set up completely. Make sure, that the unfilled bag does not touch the hot lamp. Do not switch on the lamp until the bag is filled and the pressure is stable.

A spot lens must be used between lamp and Bag o Light base ring.

Maximum admissible air pressure (of the compressor) is 8 Bar.

When it has to be assumed that a safe operation is no longer possible, the equipment must be switched off immediately and be secured against unintended operation.

This is the case when:

- the device shows visible damages
- the device got wet (also rain)
- the device fell down
- the device does not work properly although the operating instructions were obeyed
- the device is not functional
- parts of the device are loose or slackened
- connecting lines show visible damages

Prior to starting the equipment the user must check the usefulness of the device for its intended purpose. In particular, Licht-Technik shall decline any liability for damages of the equipment as well as for consequential damages resulting of the device being used inappropriately, of inexpert installation, incorrect starting, use and of non-compliance with the valid safety regulations.

General function

At the Bag o Light base ring, the momentary bag pressure in mBar is indicated.

Please do not change the settings at this instrument !!!

These settings are measure values for the electronic, which prevents an overpressure in the light bag!

With the blue buttons at the power supply and/or the base ring it is possible to fill the bag manually up to the maximum of about 35 mBar. If more than one system is driven by a power supply, all systems will be filled up to the maximum.

An overpressure can not occur.

When the system is set up and the bag is filled, the pressure can reach more than the maximum because of the lamp heat. This is absolutely normal and oscillates itself. The mechanical overpressure valve prevents a dangerous rising of the pressure.

The automatic switch can be used to fill up the bag automatically when the minimum pressure is reached. You should turn off this feature for a noiseless operation. On the other hand it keeps the system in position during shooting breaks or over night when switched on.

The built in, two color LED indicator gives a fast overview about the pressure inside the bag. The LED can signal green, red and OFF:



LED shines green: air pressure in bag is okay. It is between minimum and maximum.

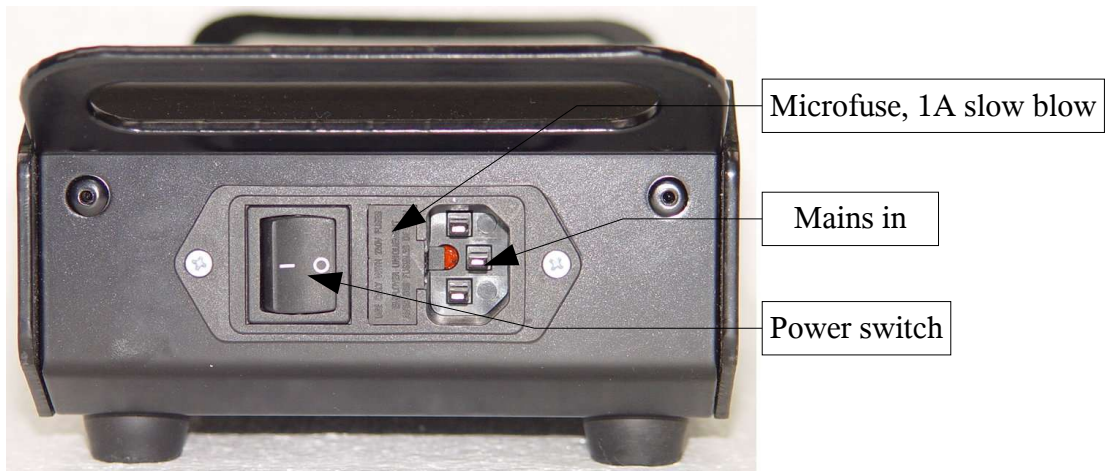


LED shines red: Air pressure is fallen under the minimum. Now you should refill either by hand or, if the automatic is switched to „ON“, the system will be refilled automatically.

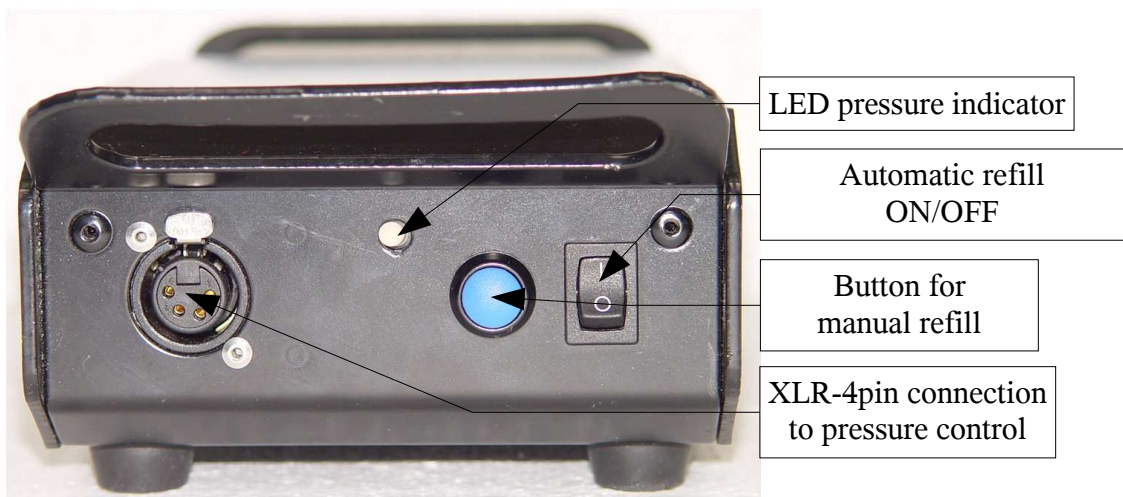
OFF: Pressure is over 35mBar. This can occur after starting the lamphead. Air is expanding because of the heat. The overpressure valve prevents a dangerous pressure.

User interface elements power supply

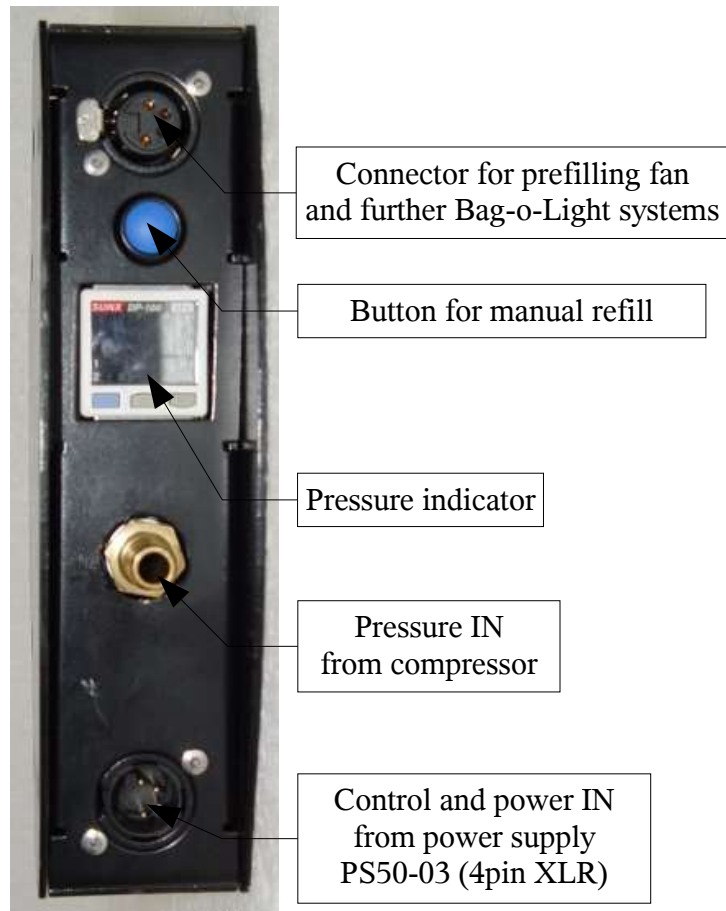
Power supply back view:



Power supply front view



User interface elements pressure control



Setup and cabling Bag-o-Light

Step 1 (optionally): Special yoke assembling



Demount original yoke from lamphead. Put the yoke from behind on the lamphead.



Fix the yoke with the delivered screws. For that you need an Allen wrench in the size of 8 (metric).



The wing screws are for tilt locking. The knob-screws are for balancing

Step 2: Lamp mounting

Mount the lamphed hanging on a truss or standing on a stand.

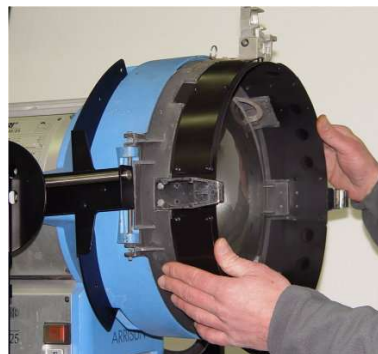
Step 3: Inserting the spotlens

If not yet done, insert the spotlens now. Check if bulb is inserted.



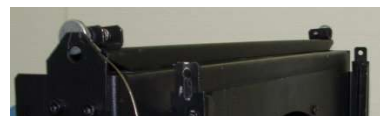
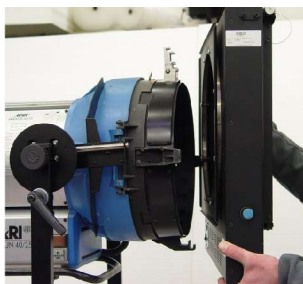
Step 4 (optional): Light proof ring

Insert the light proof ring between the brackets of the lamphed.



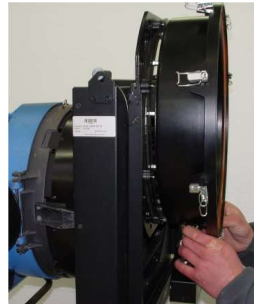
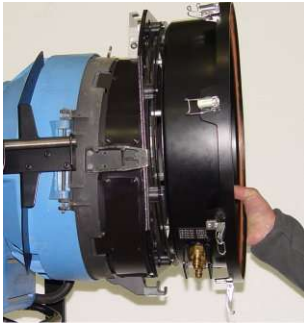
Step 4 (optional): Mechanical dimmer shutter

Insert the dimmer shutter in the brackets and close the top latch of the lamphed. Check the correct fitting in all four brackets. Open the front side holding box of the dimmer shutter.



Step 5: Base ring

Insert the base ring in the brackets of the lamphead respectively the dimmer shutter. Close the top latch of the lamp respectively the holding box of the dimmer shutter.



Step 6: Control box

Connect the control box to the base ring. Use the red double-hose as interface or extension, if the bag must be turned in a way that the control box would be on top (heat), or the pressure indicator can not be seen.



Step 7: Pressure connection

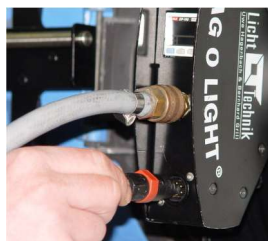
Connect the compressor and the base ring via a air hose. Switch on the compressor to fill it.



Step 8: Control line power supply – pressure control

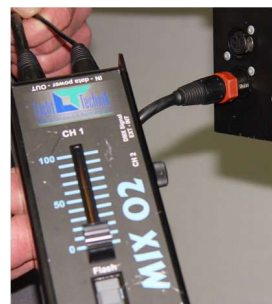
Connect the power supply and the pressure control via a 4pin XLR-cable. Connect the mains cable to the power supply.

Leave the power supply switched off!



Step 9 (optional): Cabling shutter

Connect the small power supply with the mains. Connect the Mix02 shutter controller with the power supply and with the dimmer shutter via a 4pin XLR cable. You can connect the power supply with the mains right now. The shutter should now be controllable with the fader. Adjust the fader to 100% so that you can see the lamp working later.



Step 10: Bag

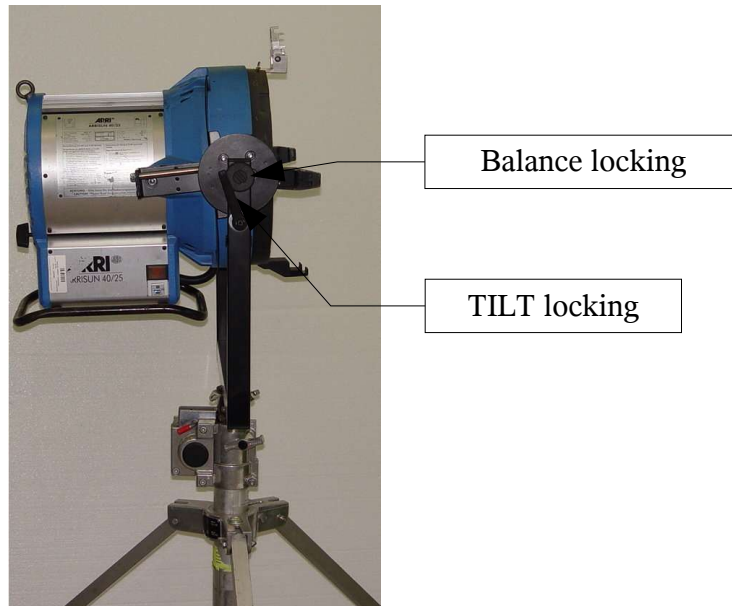
Open all clamps of the base ring. Put the metal ring of the bag centered onto the base ring and close all clamps. Work with two persons to avoid dirt on the bag.



Make sure that black-cover bags have the black part roughly in the desired direction. The control unit must be on the down side (heat). Fine adjustment is possible later because of the TURN system. Avoid seams in lighting direction.

Step 11 (optional): Adjusting balance point at special yoke

Check the balance point of the special yoke. The lamphead should be completely at the rear.



Step 12: Switching on power supply, pressure initialisation

Switch on power supply but make sure that automatic is switched OFF. The pressure control should indicate 000 (red digits). If not, it must be reset to zero. This can be done by pressing the UP and DOWN key for about two seconds. Now “000” should be indicated. The green digits show the maximum pressure which can be reached before a further filling will be stopped. These maximum pressure is 35mBar.



Step 13: Pre-filling the bag via fan

Over the blue button at the pressure control is a 4pin XLR-female plug. The fan is plugged there. Put the fan on the base ring and fill the bag.



Fan connector



ON / OFF switch

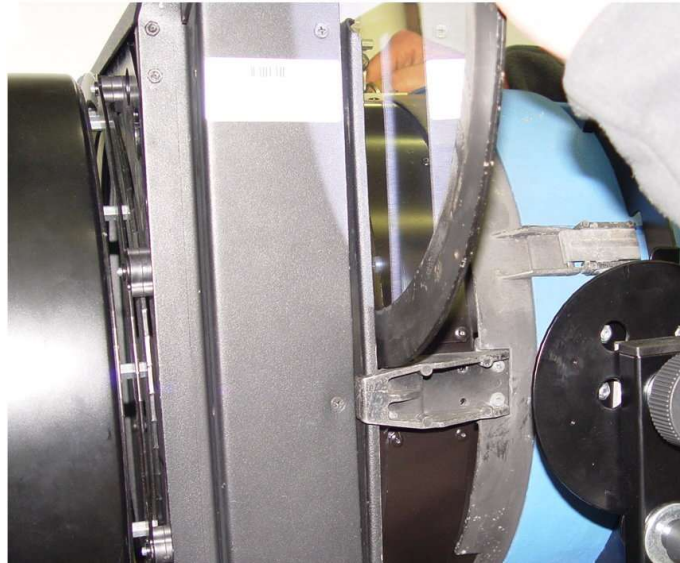


Step 14: Finishing the setup

When the bag is pre-filled, remove the fan from base ring and disconnect. For reaching the operating pressure, switch the automatic switch to ON or push the blue button on the pressure control or power supply PS50-03. The bag will be filled until the maximum pressure is reached.

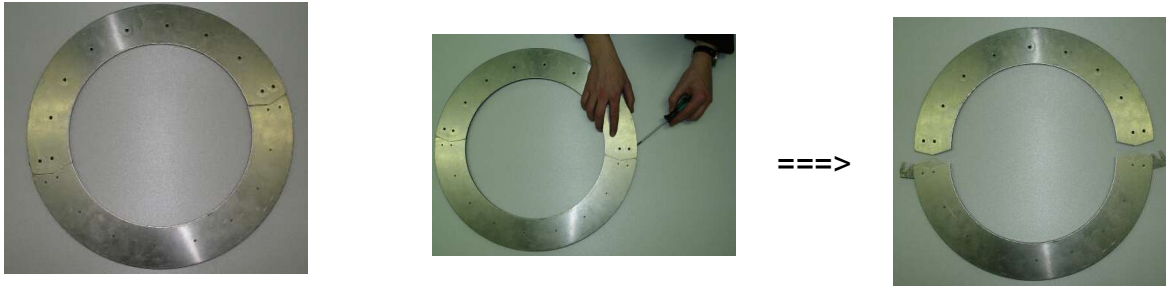
Step 15 (optional): CTO correction filter 4kW system

If you want to use a CTO correction filter, put it between the lamphead and the Bag-o-Light base ring respectively the dimmer shutter in the brackets.



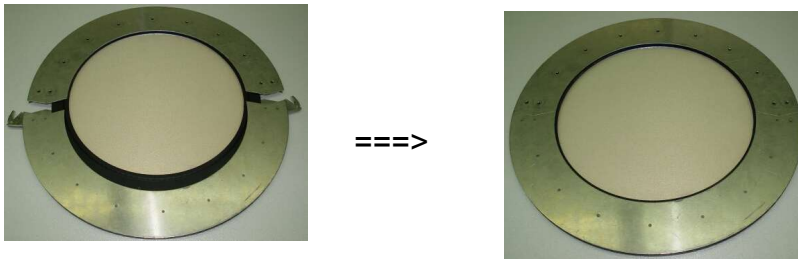
Step 16 (optional): CTO correction filter 6kW system

The 6kW system CTO filter is the 2,5/4kW filter in an adapter ring.



Open the ring with a screwdriver

Put the filter in the ring and lock it:



Now the ring can be put into the clamps of the lamphead like illustrated in step 15, page 17.

Step 17: Switching on the lamp

Switch on the lamp right now.

Technical data

Power supply PS 50-4

Dimensions (mm):

Length: 345
Width: 145
Height: 90

Weight: 2,1 kg

Mains IN:	AC 100-120V +/-10% 60 Hz	or
	AC 220-240V +/-10% 50 Hz	
Admissible ambient temperature:	0..40 degree Celsius	
Max. power output:	120 VA	
Fuse:	primary 1A slow blow secondary: 3,15 A slow blow	

When using in **generator** operation, switch on the generator before the power supply PS50-03!

Pinout:

4pin XLR-female plug, gold contacts

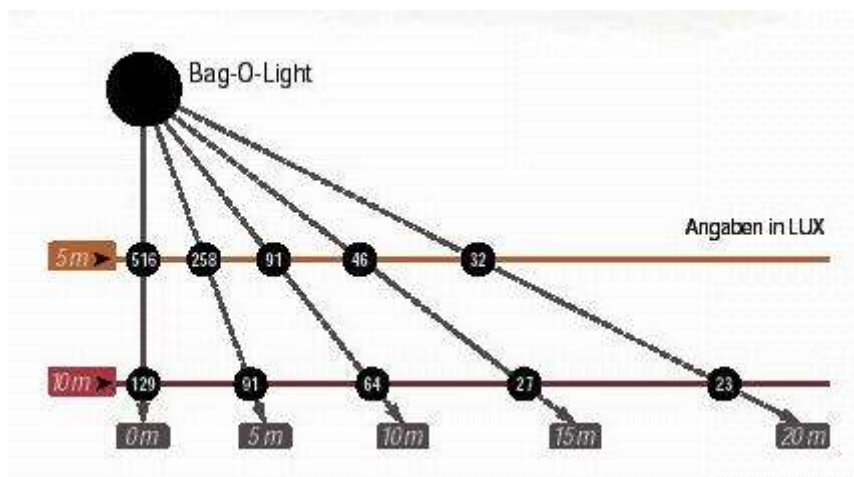
PIN 1 0V
PIN 2 Fill up (Button)
PIN 3 Pressure signal
PIN 4 24V DC
Housing Screen

4pin XLR-cable:

2x1mm² + 2x0,25mm² twisted pair, wave impedance: 110 Ohm, screened;
Complete screen

BAG:

Light power (4kW):



Factory presettings

The Bag-o-Light is adjusted as follows:

Pressure sensor:

Unit:	Bar
Minimum pressure:	0,025 Bar
Maximum pressure:	0,035 Bar

LED indicator power supply:

< 0,025 Bar:	red
0,025 - 0,035 Bar:	green
> 0,035 Bar:	OFF

The factory presettings must not be changed by user in any way!

Further information

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