

Operating instructions

VISATEC

LITEPAC + LP1

www.visatec.com

Operating instructions

V I S A T E C LITEPAC

Before use

Please read all the information contained in these operating instructions carefully. They contain important details on the use, safety and maintenance of the appliance. Keep these operating instructions in a safe place and pass them on to further users if necessary.

Observe the safety instructions.

Contents

page

Important safety instructions	3
Attention: Read before starting up the power pack	4
Controls and displays	5
1. Startup	7
2. Energy control	7
3. Modelling light	7
4. Release and remote control	8
5. Flash ready signals visual / audible	8
6. Selecting additional functions	9
7. Protective facilities / Fault indication	9
8. Maintenance of rechargeable batteries	10
9. Small lamp LP 1	11
10. Technical data	12

Important safety instructions

When using your photographic equipment, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Close supervision is necessary when any appliance is used by or near children. Do not leave appliance unattended while in use.
3. Care must be taken as burns can occur from touching hot parts.
4. Do not operate appliance with a damaged cable or if the appliance has been dropped or damaged - until it has been examined by a qualified serviceman.
5. Position the cable so that it will not be tripped over, pulled, or contact hot surfaces.
6. If an extension cable is necessary, a cable with a current rating at least equal to that of the appliance should be used. Cables rated for less amperage than the appliance may overheat.
7. Always unplug appliance from electrical socket before cleaning and servicing and when not in use. Never jerk cable to pull plug from socket. Grasp plug and pull to disconnect.
8. Let appliance cool completely before putting away. Loop cable loosely around appliance when storing.
9. To reduce the risk of electric shock, do not immerse this appliance in water or other liquids.
10. To reduce the risk of electric shock, do not disassemble this appliance, but take it to a qualified serviceman when service or repair work is required. Incorrect reassembly can cause electric shock when the appliance is used subsequently.
11. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.
12. Connect this appliance only to a VISATEC rechargeable battery.
13. Prevent metal objects from touching the VISATEC battery contact surfaces.

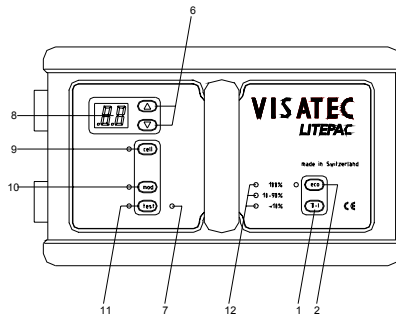
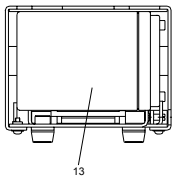
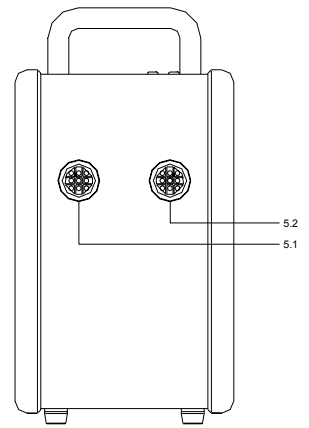
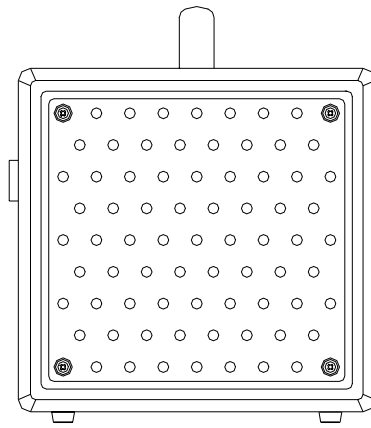
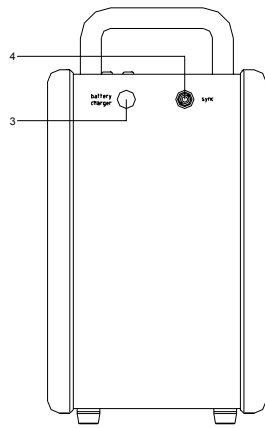
Attention:

Read before starting up the power pack

- Remove protective foil from battery contacts before use the unit.
- Prior to replacing fuses, lamps or flash tubes, discharge the power pack and disconnect from power supply. Disconnect the lamp base from the power pack.
- These units are designed for use in dry conditions. Protect them from water and from excessive exposure to dust by using the bag for power pack LITEPAC art. no. 56.510.00.
- The units are not suitable for use in an environment where there is a risk of explosion.
- The accessories mounted onto the lamp bases may heat up to high temperatures under specific conditions. Handle with care!
- With due allowance for heat radiation, lamp bases with 100 W modelling light may be directed against inflammable surfaces only at a minimum distance of 1 m.
- For safety reasons, operate a lamp (resp. a unit) only with the mounted protecting glass. The protecting glass should not be damaged, to guarantee a perfect functioning of the unit.
- Flash light contains, similar to sunlight, a specific portion of UV light. The undesirable side effects on skin and eyes are considerably reduced by using flash tubes and safety glasses with a UV coating. Without these or other protective filters, use with extreme care when shooting.
- Even when disconnected from the power supply, dangerous voltages may remain inside the unit. For this reason units should be opened by trained personnel only. Excluding exchanging of the rechargeable battery.
- VISATEC power packs and lamp bases meet an extremely high safety standard. When connecting VISATEC products to other manufacturers' products, integrated safety measures may become ineffective. Due to different design features and contact assignment of the lamp plugs of other makes, the user may even be at risk. We offer no guarantee and accept no liability for damages which may be caused by this type of usage.

Controls and displays

1. Switch "on/off"
2. Switch "eco" for slow charge
3. Battery charger socket for rechargeable battery
4. Sync socket
- 5.1 Outlet I
- 5.2 Outlet II
6. Master power selector "up/down"
7. Slave cell
8. Digital master power display
9. Slave cell on/off
10. Modelling lamp on/off
11. Test key, green ready lamp
12. Display charge state of the battery
13. Rechargeable plug-in battery



1. Startup

1.1 Startup

Remove protective cardboards from battery contacts before use.

Use the switch "on/off" (1) to power up the unit and check the display "charge state" (12). If the stored energy of the battery is less than 10 % it must be charged by means of the charger (charging time approx. 3 hours for approx. 80 % of charge) or change to another battery. Before powering up the unit for the first time, it is recommended to charge the battery.

1.2 Changing the battery

Switch-off the unit before changing the battery.

Please check the contact surfaces of the battery for soiling to guarantee a good contact. Prior to inserting the battery ensure that the side with the contacts is directed to the opening of the power pack compartment.

Now slide the battery into the power pack compartment and use a slight pressure to fasten it. Make sure that the contact springs in the battery compartment are not dirty or damaged. When changing the battery press the locking mechanism (at the bottom) together using finger and thumb. The two big contact springs slide the battery out so far that the user may grip it.

2. Energy control

Use the "up/down" keys (6) to control the flash energy within a range of 4 f-stops. A value of 10 in the display indicates maximum energy, 6 minimum. Whole numbers are full f-stop intervals, decimals indicate 1/10 f-stop steps. Brief pressure on the "up/down" keys (6) runs the power up (or down) by a 1/10 f-stop interval, prolonged pressure by a full f-stop. The display (8) then blinks until charging or discharging has stabilized the new level.

3. Modelling light

The "mod" key (12) switches the modelling lamps on or off for all connected lamp bases. When switched on, the green LED lights up. With regard to the control of the modelling light this power pack has an automatic switch-off.

By pressing the "mod" key, once only, to activate the modelling light, the switch-on time is 20s. If the "mod" key is pressed again within 1,5s after activating the modelling light, the switch-on time will be extended, with each pressure of the key, by a further 20s. If the key is pressed 4 times consecutively the maximum switch-on time of 80s is attained. An audible signal sounds with each pressure of the key. This function ensures a prolonged battery service life.

Specially for mobile work with this battery-operated power pack VISATEC offers the small lamp LP 1, with built-in reflector and modelling light 12 V / 50 W and own accessories with small dimensions. The lamp has an automatic thermal protection to prevent overheating and an additional switch for the modelling light. The switch on the lamp base permits selective lighting control with the modelling light. If only one lamp is connected, it can be equipped with a modelling lamp 12 V / 100 W.

Damage to the modelling lamp or power pack is impossible due to plug coding and electronic protection circuit.

4. Release and remote control

4.1 Photo cell (cell)

The photo cell can be switched on or off by using the "cell" key (9). If it is activated the green LED lights up.

4.2 Sync socket (4)

Synchronous cable art. no. 54.104.00 may be plugged into the socket to release flashes via cable.

4.3 "test" key (11)

Key (11) allows the LITEPAC to be manually released.

5. Flash ready signals visual / audible

5.1 The **visual** ready signal is the green LED at the "test" key (11). It lights up only when the unit is fully charged. After a flash this LED goes out and lights up again when the unit is fully charged again.

5.2 The **audible** signal (buzzer) sounds when the power capacitors are at 100 % charge. It may be switched on or off. This is explained in chapter 6.3.

- 5.3 Audible alarm signal
When the flash discharge fails, an audible warning signal of approx. 3 s duration will sound.

6. Selecting additional functions

6.1 Switch "eco" (2)

By using the key "eco" (2) the power pack switches to slow charge. This results in an increased number of flashes per charge and a longer battery service life (see chap. 9).

6.2 Automatic switch-off

The power pack switches-off automatically after a selectable delay time. A delay time of 15 min. is factory-set.

Setting of the delay time (in min.):
- **Press the "up/down" keys (6) simultaneously once.**
Afterwards, the minute values are set with the same keys. 3 s after setting the display returns to the energy display.

6.3 Buzzer

The audible signal sounds when the power capacitors are at 100 % charge. The signal may be switched on or off.

- **Press the key "eco" (2) for 3 s.**

7. Protective facilities / Fault indication

7.1. Monitoring in the power pack

To protect against overheating after long series of flashes, the unit will switch automatically to slow charge. The green "eco" LED lights up. If nevertheless, the temperature continues to rise (e. g. due to external influence), the unit will block. The message "th" will appear on the LCD display (8) until the unit has cooled down sufficiently and is again ready for operation.

If the power pack is unable to charge properly the LCD display (8) will show the message „A1“. This can happen when there is afterglow of a flash tube or when the battery is defective. The alarm will disappear after the fault has been corrected, and subsequently switching the unit off and on again.

In case the voltage of the battery should sink extensively, the message "A2" will appear on the LCD display (8). The unit is blocked for further triggering until the battery is charged.

The unit has an emergency stop switch. This completely separates the battery from the unit when the battery is in danger of becoming flat. In this situation the unit does not react to key operation. The battery must then be charged and re-inserted in the unit.

If the alarms “A1” or “A2” continue to appear on the LCD display (8) after changing the flash tube or the battery respectively, it is a must to contact the service station.

The message “A3” on the LCD display (8) indicates a technical defect. The unit must be brought to the service station for a check.

If there is no flash discharge after a flash release (e. g. if a flash tube is not connected in the lamp), an audible alarm signal will sound.

7.2 Thermal protection LP 1

When the lamp base temperature rises during operation, the cooling fan will switch on when necessary. If high temperatures build up due to longer, faster flash series the flash triggering will be blocked.

8. Maintenance of rechargeable batteries

8.1 Battery care

The battery used is sealed and does not require any special care. It does not show any particular "memory effect" and does not need to be discharged regularly. Therefore it is recommendable to leave the battery connected to the charger when not in use. Ensure, however, that the battery does not discharge too far down as the unit will switch off automatically when the battery voltage sinks too low. As a leakage current flows even when the unit is switched off, **it is highly recommendable** to charge the battery after use, and to leave it connected to the charger when not in use. If this is not possible remove the battery from the unit.

8.2 Battery charger

The battery can be charged in or out of the unit as the power pack as well as the battery compartment are fitted with the necessary round plug. The charger charges the battery in two levels, which are displayed by the integrated LED:

LED is lit continuously: The battery is charged in quick charge mode up to approx. 80 % of full charge. Duration depending on state of charge up to 3 hours.

LED is flashing: The battery is being recharged slowly (duration up to approx. 5 hours) and then kept on charge.

If a defective battery is connected the LED flashes quickly. In this case the battery must be replaced. With very low voltage the LED does not blink anymore.

9. Small lamp LP 1

9.1 General

The flash energy is distributed symmetrically to the lamps connected.

The battery-operated power pack LITEPAC can only be operated with the small lamp LP 1 art. no. 52.200.00 with built-in reflector and halogen light 12 V / 50 W, and own accessories with small dimensions.

9.2 Replacing flash tubes and halogen lamps

Prior to any change of the flash tube, the lamp base must be disconnected from the power pack! Halogen lamps and flash tubes can be plugged in.

To change the flash tube and halogen lamp release the spring ring and remove the protecting glass. The flash tube must be pulled out straight along the lamp base axis. When inserting the tube be sure that it is fully pushed in. Taking the lifespan into consideration, the halogen lamp should not be handled with bare hands. Finally, replace the protecting glass and fasten with the spring-ring. The protecting glass is available in the versions "UVE" art. no. 54.402.55 (5500 K) and "UVE matt" art. no. 54.403.55 (5500 K).

9.3 Lamp base plugs

Connect the plug of the lamp cable to the corresponding outlet and secure it with the cap screw nut.

9.4 Fuses

Only sand-filled fuses of the type indicated on the type plate may be used; otherwise the halogen lamp may explode.

10. Technical data

Flash energy	600 J
F-stop at distance of 2 m (6 1/2 ft), 100 ISO	32 6/10
Flash duration t 0.1 (t 0.5)	1 lamp: 1/460 (1/1360) s 2 lamps: 1/720 (1/2200) s
Charging time (for 100 % of selected energy)	0,75 - 3 s quick charge 1 - 6,5 s slow charge
Can be switched to slow charge mode to prolong battery life	
Ready display	visual and audible (can be switched off); signals when 100 % of selected energy is reached
Lamp base outlets	2
Power output distribution	symmetrical
Controls	fully illuminated silicone keyboard and LCD display, resistant to dust and scratches
Control range	4 f-stops in 1/10 f-stop intervals (1:16)
Modelling light (Halogen)	max. 2 x 50 W or 1 x 100 W
Modelling light control	automatic switch-off after 20 s to prolong battery life (variable up to a switch-on time of 80 s)
Flash release	manual release button, photocell (can be switched off), sync cable, FM 1000, DFM, VISATEC flash trigger no. 56.200.00
No. of flashes per fully charged battery	quick charge: approx. 200 at full output slow charge: approx. 280 at full output
No. of sync sockets	1
Stabilized flash voltage	+/- 1%
Standards	EC standard 73/23, UL 122
Dimensions	235x144x275 mm
Weight kg	6 kg

Subject to change in the interest of product enhancement.

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