



Many thanks for purchasing our most advanced mains flash system, the Lencarta UltraPro 300, or UltraPro 600.



First, let's talk about the body of the UltraPro flash heads, the body is the same for both models.

The body is made from extruded aluminum, it's tough, lightweight and also provides a high level of additional electrical insulation. The colour has been added during the manufacturing process, so although we're sure that you will want to take care of your equipment, it's good to know that it is highly resistant to scratches.



The tilt adjustment handle allows one-handed adjustment, just twist the handle anti-clockwise to loosen it, make the adjustment and tighten it again.

If you're using extremely heavy light shapers (for example a beauty dish) you can obtain perfect balance simply by loosening the 2 screws that attach the adjustment handle to the body, and sliding the assembly to the position that balances the head correctly.

If you want to use your UltraPro on an overhead track system, just remove the screws completely and fit the handle assembly to the top of the unit.

This photo shows the adjustment groove on the top of the unit, this is identical to the one on the underside.

Reversible slide fitting allows the stand fitting to be moved to the top, for use with overhead track systems



Fitting/Changing accessories

Your UltraPro unit accepts all Lencarta/Bowens light shapers, softboxes and other accessories. To fit a small accessory such as a standard reflector, simply locate the 3 male lugs into their sockets and twist the accessory slightly to the right. It will then click into position and will be locked securely in place. To fit a softbox or beauty dish, we advise that you place the accessory face down on a clean surface and fit the flash head to the accessory, rather than fitting the accessory to the flash head.



To remove an accessory, just pull back and hold the accessory release whilst turning the accessory to the left.

With the exception of umbrellas, light shaping tools and accessories fit directly to the front of the flash head and are used instead of a reflector.

Umbrellas are normally used with a standard reflector. The umbrella is passed through the slot in the standard reflector and is then passed through its guide, and is then locked into place by gently tightening the locking screw shown below.





Umbrellas of all types are normally adjusted for distance from the flash head so that they are nearly, but not completely filled with light, making full use of the size available. If required however, they can be adjusted so that they are closer to the flash head, in which case a smaller area will be filled with light and the umbrella will then create a smaller, harder light source.

Head cap. Your UltraPro head includes a plastic head cap. This should always be fitted when an accessory is not fitted, to protect the flash tube and the modelling lamp from accidental damage. You should allow the modelling lamp to cool before re-fitting the head cap, and you must not switch on the unit (or specifically the modelling lamp) with the head cap fitted.

Setting the controls

All of the controls are on the rear panel, and the chosen settings are displayed on the LCD screen.

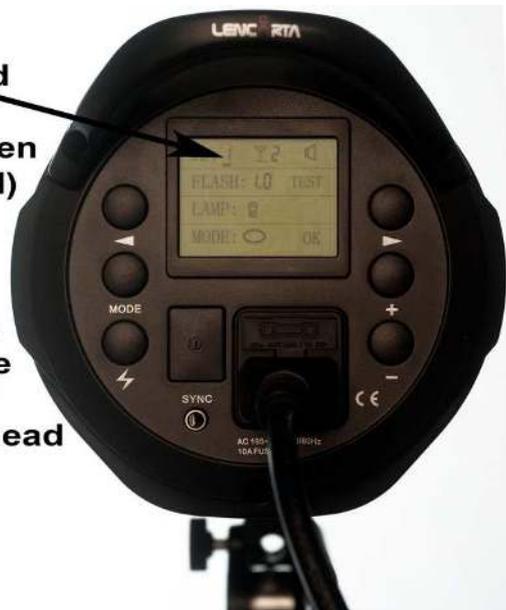


1. **Slave sensor.** This 'sees' the light from another flash and, if switched on, will trigger the flash head instantaneously. It will also operate on the infra red wavelength.
2. **Move left.** Allows you to scroll through the various options. When you have underlined a particular function, as in "FLASH" in the photo above, you are ready to adjust that function.

3. **Mode button.** Use this button as a 'Hot key' shortcut, for frequently used functions
 - a. press Mode + Right Arrow button (11) to switch the recycle beeper on/off
 - b. press Mode + increase button (14) to adjust the modelling lamp
 - c. press Mode + reduce button (15) to switch the slave cell on/off
4. **Test button.** This fires the flash manually.
5. **On/off switch**
6. **Synch cable or radio trigger port.** This standard 3.5mm jack socket allows your UltraPro flash head to be used with any radio trigger, and also allows it to be used with a synch lead.
7. **Flash head identity.** If you are using more than one flash head you can assign a separate identity to each one of up to 10 flash heads in the same group. You can then adjust the various settings on each flash head independently, using the UltraPro Commander unit

Flash head identity (active when underlined)

Use the + or - buttons to change the identity of the flash head



8. **Group identity.** You can assign various flash heads into up to 10 different groups, which then allows you to control the groups, using the UltraPro Commander unit.

Flash group identity (active when underlined)

Use the + or - buttons to change the group of flash heads



9. **Beeper.** You can turn the beeper either on or off
10. **Flash power.** You can adjust the power very precisely in 1/10th stop increments (60 adjustment levels). The lowest power setting is indicated by 1 and the highest power setting is indicated by 6. The accuracy of the setting is within 1% (1/100th of a stop).
11. **Move right.** Allows you to move through the various options. When you have underlined a particular function, as in "FLASH" in the photo above, you are ready to adjust that function.

Flash tube

Modelling lamp



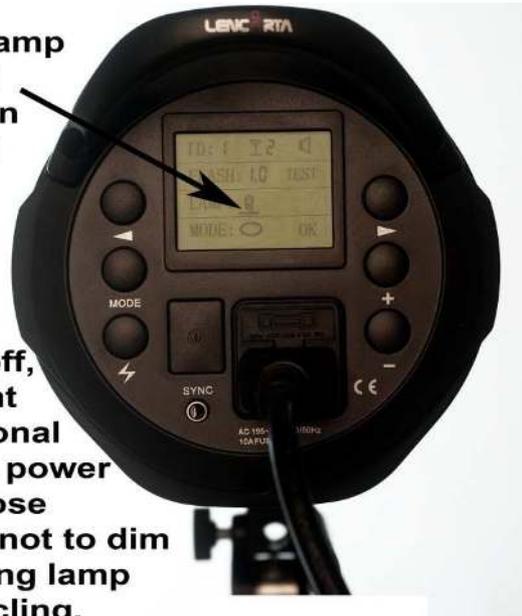
12. **Modelling lamp.** The modelling lamp is a Halostar-type 250 watt tungsten lamp fitted with an Edison Screw (E27) fitting, available both from our website and from good electrical retailers. You can set the modelling lamp to
 - a. On
 - b. Off
 - c. Proportional (brightness adjusts to match the power setting of the flash)

- d. Independent. You can set the modelling lamp to any one of 60 power settings, regardless of the power setting of the flash.
- e. The modelling lamp can also be set to dim whilst the head is recycling. This does not affect the shot in any way, but provides a useful indication that the head is ready for the next shot.

Press “Mode” and “+” as a shortcut to access the modelling lamp function, or underline the lamp symbol on the LCD screen using one of the arrow keys, and then use the “+” or “-” key to adjust.

Modelling lamp adjustment (active when underlined)

Use the left or right arrow buttons to select on, off, independent or proportional to the flash power and to choose whether or not to dim the modelling lamp whilst recycling.



13. **Plus button (+)**This is the display for the slave sensor. Press this button to increase the setting in any mode, for example to increase the power of the flash head. The button can be pressed and held if you wish.
14. **Minus button (-)**Press this button to reduce the setting in any mode, for example to reduce the power of the flash head. The button can be pressed and held if you wish.
15. **Test button**
 1. Check that both the flash head and the remote are displaying the same head and group identities
 2. On the flash head itself, underline 'Test'
 3. Do the same on the remote
 4. Press the 'Down' button on both the flash head and the remote
 5. Press the 'OK' button on the remote. Both the remote and the flash head should now show be calibrated and talking to each other
 6. Press the 'Up' button on both the flash head and the remote to return to the normal screen.
16. **Load button**
 1. Underline 'Load' on the remote
 2. Press the up button on the remote. This loads the settings on the remote to the flash head. This can be useful if you have more than one flash head.

Radio receiver

Your UltraPro has a built-in 2.4GHz radio receiver and we will be introducing an optional radio transmitter for it soon. The UltraPro radio trigger will allow you to fire all flash heads by radio signal, without the need to buy a radio receiver for each flash head, and without the need to use the built in slave cell. This is especially useful if you are involved with event photography and need to turn off the slave cell to prevent your flash heads from being fired by other flashes, or if you are working in a studio where other photographers are using flash. The UltraPro can also be used with any normal radio receiver, simply by plugging the radio receiver into the synch socket (6).

Power dump

Your UltraPro flash head has an automatic power dump, which reduces the power stored in the capacitors to the correct level when the power setting is reduced. This reduction is achieved by firing the flash, the advantage of this method is that it does not involve using a resistor to dump the power, it is extremely accurate and precise and does not cause a build up of heat.

The **flash tube** is user replaceable, which means that you can replace it simply by pulling out the old one and replacing it with a new one.



But our flash tubes very rarely fail and you are very unlikely to need to replace a flash tube unless it has been damaged by accident.

The flash tube must never be touched with bare fingers, because grease from skin will substantially shorten the life of the tube. Grease can be removed with the help of alcohol.

Fuse

The system is protected by a 15A fuse, which can be replaced if necessary by gently levering out the fuse holder, located immediately above the mains lead socket.

Mains Lead

The UltraPro is supplied with a standard UK mains lead. An alternative EU mains lead is available from our website, and is listed in the 'spares' section.

Using your flash head

1. **Do not disassemble the flash unit.** The Lencarta UltraPro is a precision instrument. It contains high voltage components. Unauthorised tampering with the unit is dangerous and will void its warranty.
2. **Do not leave the unit unattended when plugged into an electrical supply.**
3. To avoid risk of overheating, switch off the unit once the current studio session is complete.
4. **Do not use non-approved modelling lamps.** Always use modelling lamps of the correct wattage to prevent damage.
5. **Do not leave the modelling lamps switched on when using restrictive lighting tools** such as honeycombs or spotlights. It will overheat and may be damaged.
6. **Always switch off the unit** when fitting or removing modelling lamp or cables.
7. **Always remove the protective head cap** before operating the unit.
8. Use only indoors, in a dry, ventilated environment.
9. Keep the flash tube and modelling lamp clean. Gently remove any dirt with alcohol.
10. Do not touch the flash tube with bare hands.
11. Fire the flash at least once every two months to prolong its lifespan.
12. **Do not expose the unit to rain, vapour or excessive dust.** Keep it away from sources of fire and heat, including strong direct sunlight. Do not leave the unit in a car in hot weather.
13. When working under high humidity, turn on the modelling lamp to dissipate any condensation that may have gathered on the flash tube before using the flash

Warranty

Our warranty is 24 months and covers all components and labour with the exception of the modelling lamp.



All Lencarta products are fully compliant with both ROHS and EU standards and have been issued with the necessary certificates. We are also fully compliant with WEE Regulations and are happy to accept any Lencarta electrical products for recycling, once they have reached the end of their useful life.

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