

# **Bessel KQ-Series User Guide**







## Before you begin...

Always ensure you have a safe environment to operate in, cables can easily become a trip hazard, so ensure they are taped down and out of the working area.

Ensure the all equipment and cables are free from damage.

Never operate any electrical equipment in a wet or damp environment.

Ensure there is sufficient ventilation and that lamps are not operated in a confined space. Continuous use of flash lamps can cause a build up of heat especially when a softbox is used.

Ensure the power to the lamp is off and the power cable is removed when changing lamp accessories, softboxes, reflectors etc

Never touch the modelling lamp or flash bulb when the lamp is switched on or connected to the power.

Always allow enough time for bulbs to cool before removing them.

Always allow equipment to cool down before storing it away.

#### **Bessel Studio Lighting**

#### Lamp Overview

The lamp consists of 4 main sections:-

- 1. The control panel at the rear of the lamp.
- 2. The flash lamp and modelling lamp.
- 3. The speedring fitting and locking collar.
- 4. The stand and umbrella connection.



Figure 1 - Lamp with reflector fitted.

## Lamp Control Panel



Figure 2 - Layout of the rear control panel

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Кеу	Function
A	<ul> <li>Modelling lamp (Free/Proportional)</li> <li>- modelling lamp power can be adjusted independently of the flash power.</li> <li>- modelling lamp power is adjusted to be the same as the flash power.</li> <li>- modelling lamp is switched off. This is the default if the modelling lamp is not fitted.</li> </ul>
В	Buzzer on/off Makes an audible noise when the lamp has recharged and is ready to fire.
С	Increase or decrease the power of the modelling lamp.
D	Fuse. Only replace with a fuse of the same type.
E	Remote photocell. Flash from 'master' lamp will trigger any slave lamps.
F	Digital display. Displays flash lamp or modelling lamp intensity.
G	<ul> <li>Photocell response setting.</li> <li>Determines how many flashes from the 'master' lamp are required before the slave is triggered.</li> <li>1 – slave is trigger after one flash from 'master' lamp.</li> <li>2 – slave is trigger after two flashes from 'master' lamp.</li> <li>3 – slave is trigger after three flashes from 'master' lamp.</li> <li>none – slave is trigger only when sync cable is used.</li> </ul>
н	Main power switch.
I	Test button. Used to fire the flash directly when setting light levels.

J	Change the intensity of the flash light. Minimum value 2.0; Maximum value 6.0. The flash will fire to discharge excess charge when reducing the intensity.
к	Sync socket. Connects the camera to a lamp with sync lead or a remote radio trigger.
L	Power socket.

**Please note**: the lamp will fire when the power setting is reduced. The lamp does this to remove charge from its capacitors.

# Flash and modelling lamp fittings

The lamps has a main ring flash and a separate screw in modelling bulb, it can be operated with or without the modelling bulb. Lamp power settings are controlled via the rear control panel.

The ring flash lamp is user replaceable, instructions for this are supplied with replacement bulbs.

## Speedring fitting and locking collar

To fit a reflector or a speedring to the front of the lamp, position the reflector or speedring lugs in-line with the lamps cutouts (as indicated by the arrows in the picture below) and rotate it clockwise until it locks into position.

To remove the reflector or speedring, slide the lock release towards the rear of the lamp and rotate the reflector or speedring anticlockwise.



Figure 3 - Connecting accessories

#### **Bessel Studio Lighting**

#### Stand and umbrella connection

Unscrew the stand lock, place the lamp onto the top of the stand and tighten the stand lock.

Adjust the angle of the lamp up or down by unscrewing the lamp lock positioning the lamp and retightening. Once tightened, the handle on the lamp lock can be moved to a convenient position by pulling the base of it away from the lamp, turn to desired position and release.

To connect an umbrella to the lamp you should unscrew the umbrella lock. Then with the umbrella fully open guide the metal stem through the umbrella channel from the front of the lamp. Position the umbrella the desired distance from the lamp and retighten the umbrella lock.

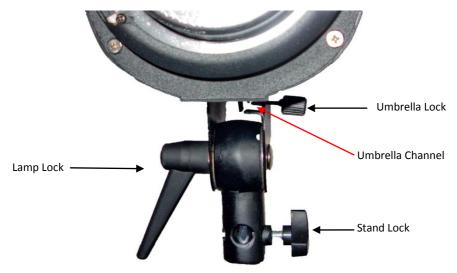


Figure 4 - Components of the stand and umbrella connector

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