

smart *flash* II

INSTRUCTION MANUAL


LENCARTA
Lighting Your Way

www.lencarta.com

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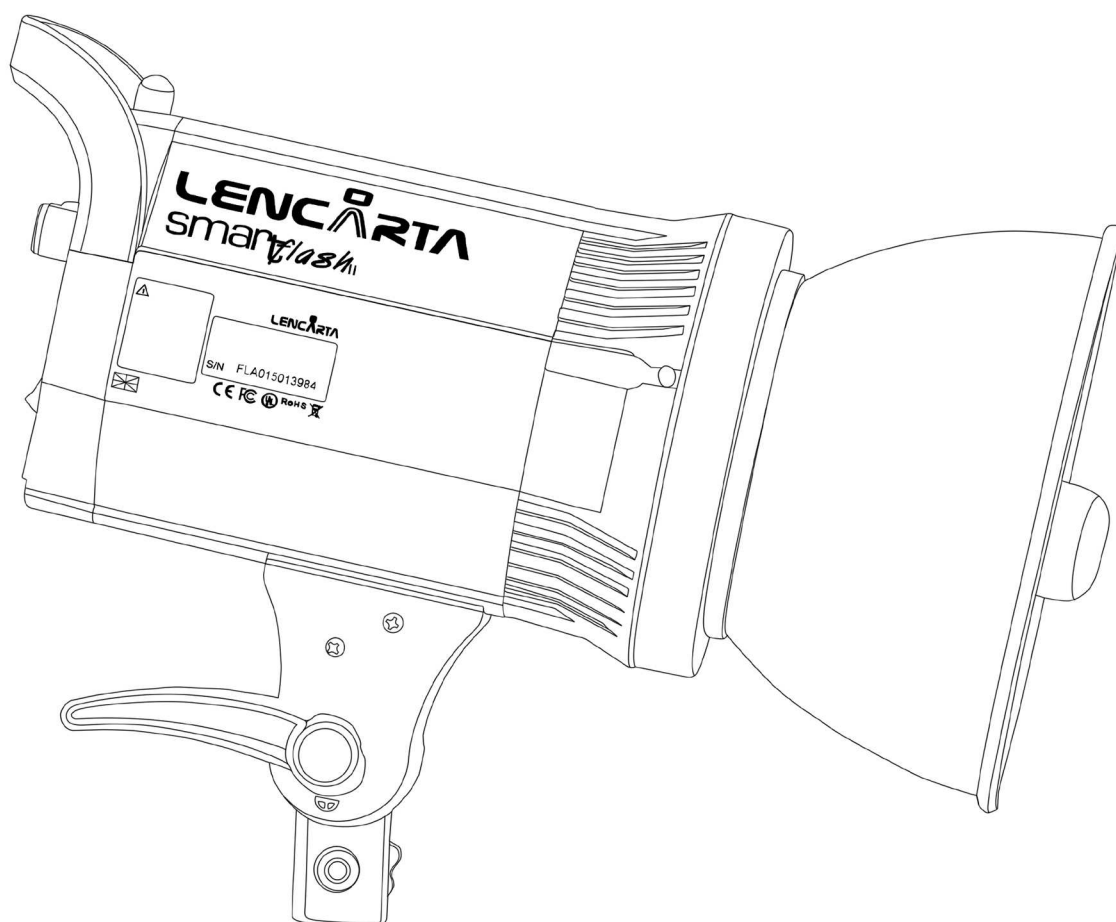
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Thank you for purchasing from Lencarta.
We hope you enjoy your product.





Safety Precautions

Before you operate the equipment it is recommended to fully study the User's Manual and the accompanying safety instructions. It is important to follow the safety instructions at all times. Flash heads, generators, and accessories are only intended for photographic use in normal dry conditions. Do not place or use the equipment where it can be exposed to moisture, extreme electromagnetic fields or in areas with flammable gases or dust. Do not expose the equipment to dripping or splashing liquids. Do not place any objects filled with liquids on or near the equipment. Do not expose the equipment to rapid temperature changes in humid conditions as this could lead to water condensation in the unit. Always connect flash units to stable mains power supply within the voltage tolerance specified in the User's Manual, or to a pure-sine wave electricity generation device producing sufficient power and the correct voltage. Do not electrically connect this equipment to flash equipment from other brands. Do not use flash heads without the supplied protective glass domes if they are supplied with them. Glass domes should be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches. Lamps and flash tubes should be changed if they are damaged or thermally deformed. When placing a lamp or flash tube into the holder ensure that you do not touch the glass with bare hands.

Equipment must only be serviced, modified or repaired by authorised service personnel. Warning – under no circumstances should the user open the flash unit. There are no user-serviceable parts inside, and are potentially hazardous with high voltage.



WARNING – Electrical Shock – High Voltage!

Mains powered flash units must always be connected to a mains socket outlet with a earth connection. Flash capacitors are electrically charged for a considerable time after being turned off. Do not touch the modelling lamp or flash tube when mounting umbrella metal shaft in its reflector hole. Disconnect the power completely when changing modelling lamp or flash tube. Batteries (battery pack or batteries installed) must not be exposed to excessive shock or heat such as sunshine, fire and the like.



Caution – Burn Hazard – Hot Parts!

Do not touch hot parts with bare fingers. Modelling lamps, flash tubes and certain metal parts become very hot in use. Do not position modelling lamps or flash tubes too close to eyes. All lamps may on rare occasions explode and throw out hot particles.



NOTICE – Equipment Overheating Risk

Remove the protective cap from flash head before use. Do not obstruct ventilation by placing filters, diffusing materials, etc. over inlets and outlets of the equipment ventilation or directly over protective glass dome, modelling lamp or flash tube. Note about Radio Frequencies. This equipment makes use of the radio spectrum and emits radio frequency energy. Proper care should be taken when the device is integrated in systems. Make sure that all specifications within this document are followed, especially those concerning operating temperature and supply voltage range. Make sure the device is operated according to local regulations. The frequency spectrum this device is using is shared with other users. Interference cannot be ruled out, but can usually be avoided by using the dip switches to change frequency if necessary.



Final Disposal

Equipment contains electrical and electronic components that could be harmful to the environment. Equipment may be returned to Lencarta free of charge for recycling according to WEEE. Follow local legal requirements for separate disposal of waste, for instance WEEE directive for electrical and electronic equipment within the EU when the product has reached its end of serviceable life.

Be in Control.

Full digital control is great, and on the **SmartFlash 2** it's very easy to use. You can adjust the power over its entire range by turning just one knob. Instantly set five stops of power adjustment from 6Ws to 200Ws with precision control.

Modelling lamp control is also simple. Choose from full brightness, to off, or anywhere in between, simply by turning one knob.

The various buttons control modelling lamp on or off, flash ready beep on or off and slave cell on or off.

Or control these functions using our *Wavesync Commander*, at any distance up to 100m.

Full Metal Body.

The new **SmartFlash 2** has a tough but lightweight aluminium case that protects its interior from knocks, and protects you from the risk of electric shock.

As well as the tough exterior, clever software takes care of the interior components as well as the user replaceable flash tube and powerful Halostar modelling lamp. This software automatically switches off the modelling lamp after a period of inactivity to extend the life of the lamp.

And because the new **SmartFlash 2** uses the same *Wavesync Commander* system that's used on our *SuperFast*, *Safari 2* and *Atom* flashes, it can be used alongside them, in the same shoots. This is the remote control and triggering system that we've now adopted as standard, so the new **SmartFlash 2** will be compatible with our future flash heads too.

The new **SmartFlash 2** is also available in a choice of complete kits.

Fitted with the standard reflector (available separately) it produces a guide number of 100 (equivalent to f/10 @ 10' at 100 ISO or f/5.6 when fitted with a 150cm softbox) which is ideal for portrait, glamour or fashion photography.

Its 5 stops of power adjustment allows a wide choice of aperture settings, it has extremely accurate power consistency and colour temperature consistency, full power recycling of only 1 second, the minimum power adjustment of 0.2 second allows it to keep up with most cameras even in continuous shooting mode, and it accepts all of the vast range of light shaping tools and modifiers produced in the very popular Bowens 'S' fitting.

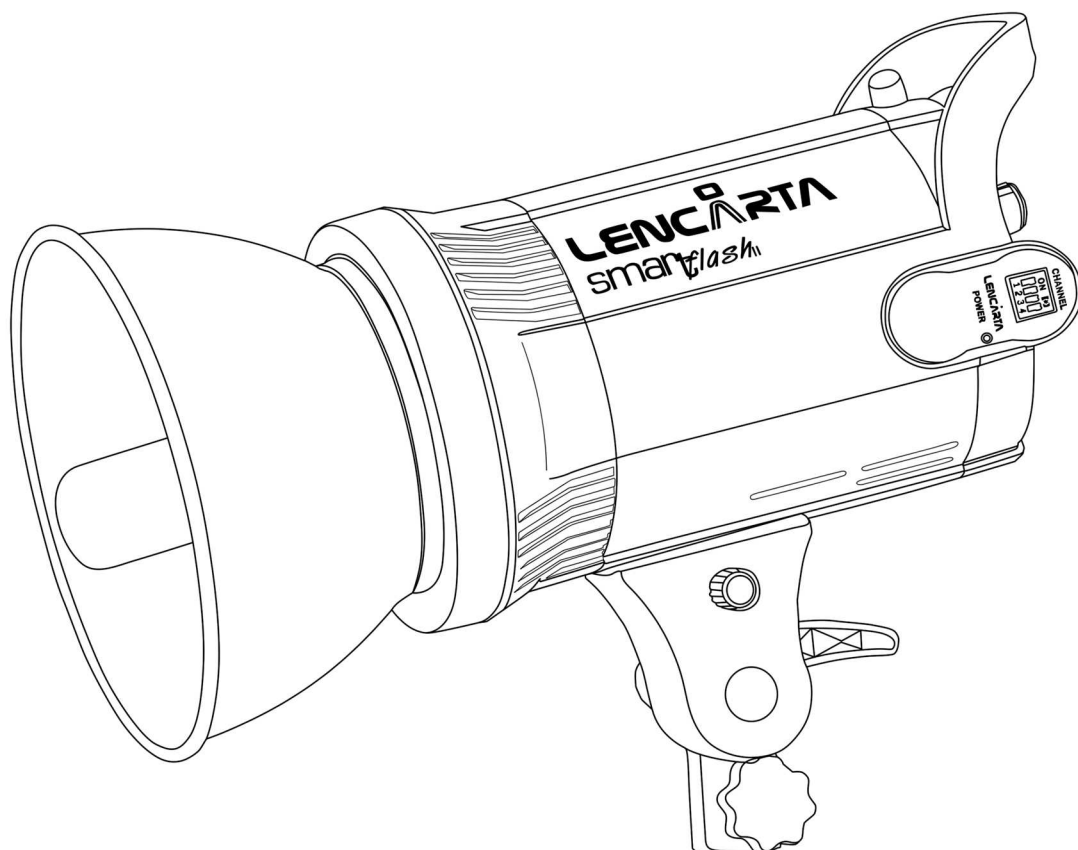
Tiny size: This is our smallest and lightest flash head ever, with the standard reflector fitted and ready to use, it weighs just 1.3kg and is just 30cm long!

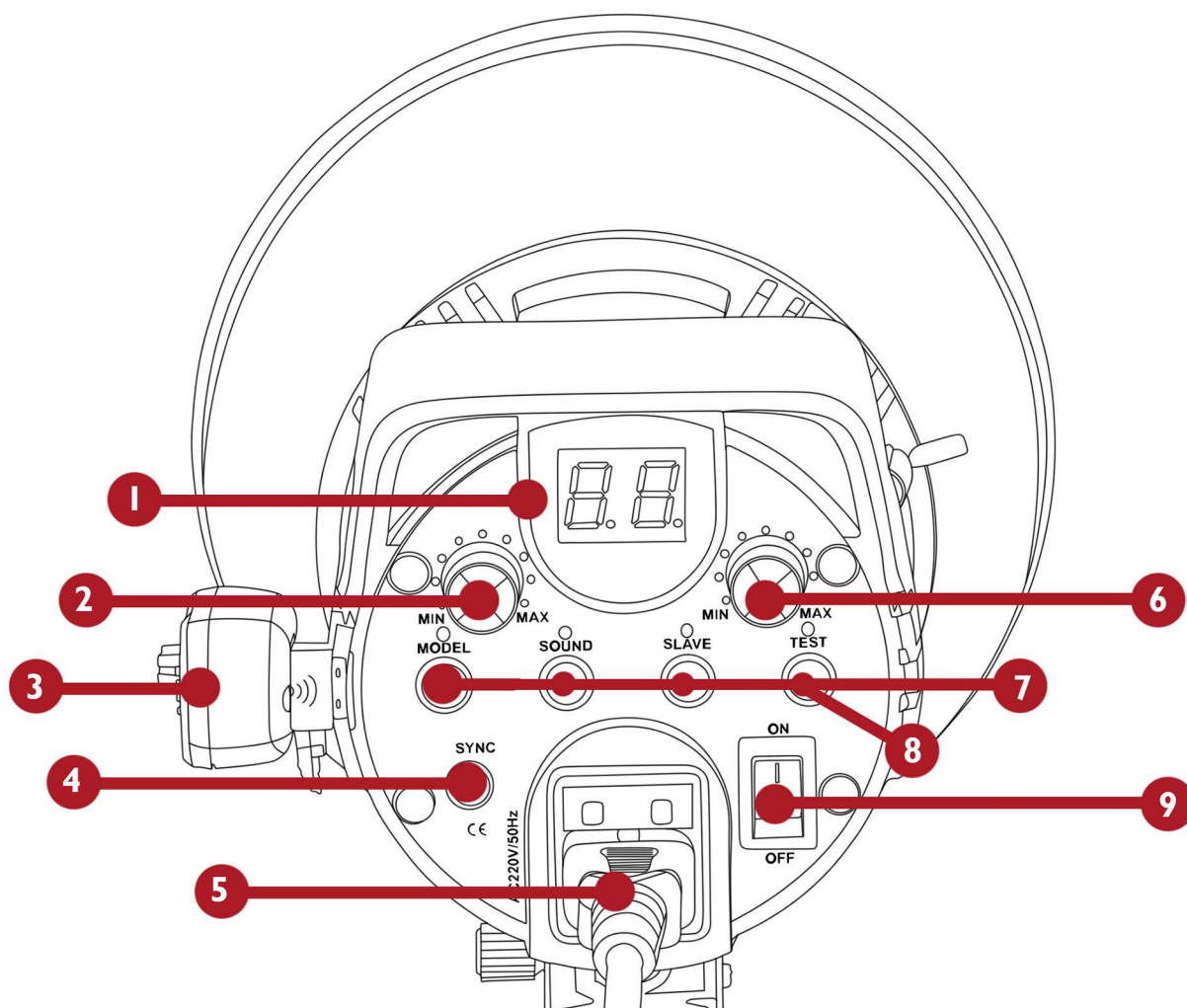
The new SmartFlash 2 is tiny, light and crammed with new technology.

- **5 stops of power adjustment.** A full 5 stops of adjustment opens the creative possibilities and allows larger apertures to be used when needed
- **Powerful modelling lamp.** The modelling lamp is fully adjustable to match, if required, the power set on the flash head. The modelling lamp also dims while recycling, so you'll have a visual confirmation that it's ready to fire again even if you've switched off the ready beep.
- **Full remote control via USB port.** This allows you to set the controls on the SmartFlash 2 using our USB radio trigger and remote control set, as well as on the flash head
- **Uses the same remote control as our other new technology flashes.**
- **Fan cooled,** to avoid the risk of overheating. It also has overheat protection, for extra safety.
- **Precise digital control of power,** displayed on the LCD display panel. The digital control knob adjusts the power setting and displays it on the LCD control panel.
- **Small and light.** With the head cap fitted, the SmartFlash 2 is just 30cm long, 13.2cm diameter, and weighs in at just 1.56kg.

What's in the box:

- 1 x SmartFlash 2
- 1 x Protective Head cap
- 1 x Modelling lamp
- 1 x Mains cable
- 1 x Sync cable
- 2 x Spare fuses





1. DISPLAY

Display shows the power, which can be set in 1/3rd stop increments

2. MODELLING LAMP DIAL

This adjusts the brightness of the modelling lamp

3. REMOTE CONTROL RECEIVER

Wireless Remote control receiver is sold separately (used via USB)

4. SYNC

Synch socket for use with any radio trigger or PC cable (if required)

5. POWER

The mains socket uses a 5Amp fuse (300Ws)

6. POWER DIAL

This adjusts the power output of the flash head

7. MODEL, SOUND & SLAVE BUTTON

These buttons can be switched on or off, indicated by the LED light

8. TEST BUTTON

Pressing this button fires the flash, use it to test the flash, to dump excess power or to use open flash

9. ON/OFF BUTTON

On/Off button controls the power supply

Your SmartFlash is ready to use, almost straight from the box. All that you need to do is to:

1. Attach the flash head to a suitable light stand, this involves loosening the stand locking screw, and tightening it again after placing it on the stand. Very little pressure is needed.
2. Adjust the angle of the flash head by slackening the adjustment handle, moving the flash head to the required position and then re-tightening it. Again, very little pressure is needed. The angle of the adjustment handle can be changed by pulling it away from the body of the flash head and rotating it.
3. Fit the modelling lamp into the large (E27) screw fitting at the front of the flash head, this should not be over tightened.
4. Fit the required accessory to the front of the flash head. If fitting the standard reflector http://www.lencarta.com/studio-lighting-shopfront/light-shapers?product_id=322 it should be located with the umbrella slot at the bottom, so that it lines up with the umbrella locking screw. If fitting a large modifier such as a beauty dish or a softbox, the accessory should be laid onto a clean surface and the flash head should be placed on top of it, as this is easier than offering the accessory up to the flash head. Turn the accessory clockwise a little, you will hear a click, this confirms that the accessory is locked into position on the flash head. To remove the accessory, push back and hold the accessory release whilst rotating the accessory anti clockwise.
5. Plug the mains lead into its socket, on the control panel.
6. Plug the mains lead into a suitable mains supply.
7. Switch on the unit by means of the rocker switch on the control panel.
8. EITHER fit the optional Wavesync receiver (RX) unit into the USB socket on the left hand side of the control panel (this has a rubber connector cover) OR plug any radio receiver, fitted with a standard 3.5mm jack plug, in to the sync socket. The sync socket is located below the model lamp switch. An ordinary radio trigger will fire the flash in sync with your camera, the Wavesynch Commander System will do the same thing but will also provide full remote control.

Setting up your camera.

1. Set ISO, typically to 100 or 200
2. Set camera to manual (i.e. not programme, aperture priority, shutter priority or any 'scene' setting)
3. Set shutter speed to suit your camera. With most cameras, the maximum shutter speed that can be used with flash is either 1/200th or 1/250th second, but this does vary between models. For typical studio use, 1/125th second is a good choice.
4. Plug either the Wavesync Commander (TX) or a 3rd party radio transmitter into your camera hotshoe.

Storage

Flash heads can be left semi-permanently on lighting stands, if this is convenient.

When not left mounted on their stands, flash heads should be stored in a suitable carry bag or in their original boxes, and care should be taken to avoid unusually high temperatures, high humidity, high levels of dust and similar hazards.

When stored, a head cap should be fitted in order to reduce the likelihood of damage to the modelling lamp and the flash tube, and this becomes even more important when the flash heads are in transit.

Light Maintenance

Important: The flash head must be disconnected from the power supply before changing either the modelling lamp or the flash tube.

Both flash tubes and modelling lamps can become extremely hot whilst in use, and in order to prevent burns, must be allowed to cool fully before removal.

Edison Screw (E27) modelling lamps do not require any special care whilst handling

Quartz Halogen modelling lamps and all flash tubes must not be touched with bare hands, they should only be handled whilst wearing cotton gloves, or whilst holding kitchen roll or similar. If accidentally touched with bare hands, they should be cleaned immediately with Isopropyl Alcohol.

Cleaning

Surfaces can be wiped clean with a soft dry cloth. Solvents and other cleaning chemicals may cause damage and should not be used.

Maximum Energy	200Ws
Guide Number (GN)	100 (ft) @100 ISO
Adjustment Range	5 stops (full power to 1/32nd power)
Adjustment Steps	1/3rd stop
Flash Duration	1/2700th sec (t.5 – Full Power)
Recycling Time, maximum power	1 second
Recycling Time, minimum power	1/5th second
Output Consistency	+/- 10%
Colour Temperature Tolerance	+/- 100K
Modelling Lamp	E27 fitting, accepts up to 250 W
Modelling Lamp Control	Yes, independent control
Accessory Mount	S-fit
Slave Photo Cell	Yes
Switchable Slave Photo Cell	Yes
Auto Excess Power Dump	No
Auto Overheating Protection	Yes
Ventilation Technology	Yes (Built in fan)
Mains Power	220-240v
Recycle Ready Indicator	Beep + modelling lamp dims
Trigger Voltage	Less than 5v
Synchronisation Options	Wavesync, any radio trigger, sync cable
Umbrella Socket Type	Standard 8mm, with locking fitting
Suitable Light Stand	Any, fitted with standard 16mm spigot
Systems Compatibility	S-fit
Suitable Camera	Any camera capable of use with flash
Dimensions	Length including reflector 30cm
Weight	1.78kg
Warranty	Worldwide 36 months (normal conditions apply)
Parts Availability	All spare parts readily available, including flash tubes, modelling lamps and cables

If the flash does not fire when test button on control panel is pressed

1. Check connection where mains lead fits into the flash head and into the mains socket, and check that the mains socket is switched on.

2. Check that the unit is switched on, the control panel should be lit.

If the control panel is not lit, check the plug fuse

If the plug fuse is OK, check the flash head fuse, located immediately above the mains lead socket

If the flash fires when the test button is pressed, but not when the camera shutter button is pressed

1. Check that the radio receiver is plugged into the rear of your flash head

2. If using a 3rd party radio trigger, check that both the transmitter and the receiver are set to the same channel

3. Check that the transmitter and receiver are within their operating range

If the flash does not fire when used as a slave (triggered by another flash)

1. Check that the slave cell is switched on

2. Check that the slave cell is 'seeing' light from the master flash, i.e. that light is reaching it

3. Check that a bright light, for example sunlight or the light from a modelling lamp on another flash head, is not shining directly onto the slave sensor.

If your photo is overexposed (too light)

1. Set a smaller aperture on your camera or

2. Reduce the power setting on your flash, and then press the test button to dump the power stored at the higher setting

If your photo is underexposed (too dark)

1. Set a larger aperture on your camera or

2. Increase the power setting on your flash, or

3. Increase the ISO setting on your camera

If there is a black area at the bottom of your photo (or at the side, if the camera is held vertically)

Reduce the shutter speed on your camera. Most SLR & DSLR cameras are limited to either 1/200th or 1/250th second

Light modifiers

Chiario 100x100cm softbox

SOF011



Chiario 85x85cm softbox

SOF005



Chiario 60x60cm softbox

SOF004



Chiario 70x100cm softbox

SOF041



Chiario 70x140cm softbox

SOF007



Profold 70x100cm softbox

SOF030



Profold 60x90cm softbox

SOF002



Profold 100x100cm softbox

SOF031



Profold 140x30cm softbox

SOF029



Profold 85cm Octa softbox

SOF024



Chiario 140x30cm softbox

SOF024



Chiario 90cm Octa softbox

SOF021



Chiario 120cm Octa softbox

SOF020



Chiario 140cm Octa softbox

SOF009



Honeycomb grids



Available in 10, 20, 30 & 40 versions to fit our standard reflectors, and are also available to fit our 65° reflector, high intensity reflector, all beauty dishes and many of our softboxes

Profold 120cm Octa softbox

SOF001



Profold 150cm Octa softbox

SOF028



Speedrings



Elinchrom
Hensel
Broncolor L
Broncolor S
Multiblitz V
Multiblitz P
Profoto
Balcar (same fitting as Alien Bees)

SOF033
SOF034
SOF035
SOF036
SOF037
SOF038
SOF039
SOF040

JumboPara

UMB006



40cm Beauty dish

White MOD022
Silver MOD015



70cm Beauty dish

White MOD023
Silver MOD018



ProBall

60cm MOD012
30cm MOD042



High intensity reflector

MOD009



Background reflector

MOD005



Spill kill reflector

MOD011



Standard reflector

MOD021



Wide angle reflector

MOD006



Snoot with removeable honeycomb

MOD004



Light modifiers

Barndoor & colour gel set

MOD003



Umbrellas



White UMB001 Gold UMB002 Silver UMB003

150cm Parabolic White
150cm Parabolic Silver
150cm Parabolic Opaque
Shoot-Through
180cm Parabolic White
180cm Parabolic Silver
180cm Parabolic Opaque
Shoot-Through

UMB007
UMB008

UMB009
UMB010
UMB011
UMB012

5-in-1 Pop up reflectors

80cm REF001
110cm REF002



Reflector holder boom arm



Lighting stands

2.8m Air damped

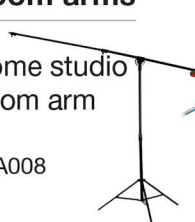
STA003



Boom arms

Home studio boom arm

STA008



Professional heavyweight boom arm

STA010



Professional parallelogram boom arm

STA010

Accessories

3Kg Weight

STA007



Castors

STA006



Fixed floor stand

STA004



Light tables

Home quick set up still life table

PRO008



Large product shooting table

PRO009



Bags & cases

Safari travel case - Classic & Li-on
BAG003



Extra large Safari travel case
BAG007



Extra large soft bag
BAG006



Universal stand holdall
BAG002



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