broncolor

Flash with Dimension

Dear Reader

Our company, founded in 1958, with its product brands, broncolor and kobold, has developed over the past half-century into one of the primary solutions for professional lighting systems in the international market. Today we serve three business sectors: professional photography, broadcasting/TV, and events. We chose "50 Light-Years Ahead" as the slogan for our jubilee year in 2008. This statement also reflects our commitment for the future.

The challenge of consistently meeting your needs and repeatedly surprising you with innovations is our motivation – and light our passion. Essentially, we have much in common. Every day and with every new assignment you are challenged to create different, surprising, more refined images. In this we want to offer you our full support. We take advantage of every personal contact with your colleagues all over the world to ask which solutions would help them meet their daily challenges. The latest innovations from broncolor, which regularly achieve worldwide recognition, grow from these valuable inputs and the untiring efforts of our engineers in pursuit of technological development.

But in parallel with this spirit of innovation, the quality and reliability, that you expect in your daily work in the studio or on location, has lost none of its traditional high importance. Every unit that leaves our production facilities undergoes exhaustive functional testing. Wherever possible, new developments are made compatible with earlier models. Systematically implemented over the years, this philosophy has enriched the broncolor product line to such an extent that it leaves almost nothing to be desired in terms of operating convenience, long-term value and reliability. And we stand by that.

On our website, www.broncolor.com, you will find detailed information about the entire broncolor product line. Judge for yourself!
On the following pages we present the current broncolor product line. We look forward to counting you among our satisfied customers for many years to come.

Jacques Bron

broncolor®
THE LIGHT

TABLE OF CONTENTS

Creativity is compelling

In the professional community, the digital image is here to stay. The ability to edit images on computers is now taken for granted. But one factor remains unchanged: light. This factor drives our mission to accompany developments in photography and to advance technological progress in professional lighting. Today, broncolor is the leading brand globally for flash lighting systems, our products can be found in countless studios around the world. Precision, benchmark technology, quality and reliability are the drivers of this success story. Our headquarters and the technology centre are located in Allschwil near Basel, close to where the German, French and Swiss borders meet. At this globally recognised research triangle, committed broncolor employees forge the future. broncolor is an international brand. Our representatives and service centres are qualified partners for our customers in over 60 countries.

The power of innovation

It is the think tank in which pioneering broncolor technologies were invented and are continually being refined. Its unfaltering quest for optimisation is based on a constant involvement at the forefront of electrical engineering as well as the identification of new materials and manufacturing processes. The ongoing dialogue with professional photographers and broncolor equipment users also plays an important role. These discussions have often inspired new generations of equipment, safeguarding continuity in an evolution that addresses genuine user needs. The best technical features are worth very little

if they lack operating convenience. For this reason, broncolor also stands for design. Our products are ergonomic, easy to understand, and aesthetically appealing. As people whose perception is quintessentially visual, photographers especially appreciate these attributes.

Quality counts

Imagine a production day with models, makeup artists, hair stylists, assistants, creative directors, and the client assembled in a studio. Everything is in place, everything is ready. And then, at the decisive moment, the flash system fails: a catastrophe for the client, the agency, and the photographer. Apart from fascination and technical progress, what drives us is the meticulous compliance of every broncolor product with the best standards of quality, precision, and dependability. And these standards are defined by the photographer's expectations. Prior to delivery, every single power pack, every monolight, and each lamp is painstakingly tested for unrestricted functionality and flawless quality. Our two-year factory warranty proves that we stand behind our work. This commitment is globally acknowledged.

The world is our home

Quality generates acceptance.

The world's most professionally managed studios have embraced broncolor products as the standard for perfect lighting. In return, we emphasise worldwide customer support with more than 100 service centres. In addition to maintenance and repair specialists, every broncolor representative is staffed with competent advisors who can assist photographers in solving lighting problems. At the same time, broncolor's in-house instructors provide training for local service technicians and acquaint them with innovations and new technologies.

In addition to the assurance that they can count on assured support virtually everywhere, photographers also have access to another welcome service at approaching 120 locations around the world: the "broncolor World Light Rental System." broncolor's dedication to quality is also evident by our popular workshops on lighting techniques and the num

How important are joules for exposure?

To be able to objectively evaluate and compare technical devices, assessment criteria that include technical and economic aspects have to be considered.

The amount of light reaching the CCD chip is important. The parameter J (joules) – also called Ws (watt-seconds) – quantifies the energy content or storage capacity of the flash capacitors. If a flash unit has a storage capacity of 300 joules, it can operate a 300-watt lamp for 1 second or a 300,000-watt lamp for 1/1000 second. The number of joules or watt-seconds gives no information about the actual amount of light that is emitted and that is crucial for lighting purposes, since it ignores certain important factors that can decrease the conversion of electrical energy to light. For example, the flash tube and the unit must be co-ordinated with one another, the reflector must be adapted to the flash tube and the power cable must be dimensioned appropriately. Losses between the flash capacitors and flash tubes, which would otherwise have a negative effect on efficiency, are thereby minimised.

Guide numbers and f-stops

For amateur and portable flash units, it is common to quote a guide number, which is the product of the f-stop and the distance between the subject and the light source. For example: distance from light source to subject = 2 m, measured f-stop = f/11; 2 × 11 = 22, and the guide number for that unit is therefore 22. If this value is to serve as a parameter for a flash unit, it must be dependably applicable in every case (i.e. constant). This condition is met only when the light intensity decreases as the square of the distance. This is certainly the case when the light source is small in comparison with the distance between it and the subject, a requirement which flash units for amateurs fulfill very well, but only seldom flash systems. Their light sources are generally not point-like, but instead are often larger than the subject itself or the distance between the light source and subject. Since in this case the light does not diminish proportionally with the squared distance, the expected f-stop cannot be calculated with this method. For flash systems, therefore, the guide number is a purely theoretical value and not a usable parameter. broncolor therefore simply quotes the expected f-stop at a distance of 2 meters for its units. The advantage for photographers is that they get a definite statement about exposure that has already taken into account all the losses and efficiencies not accounted for in the energy rating. The figure also allows users to compare the effects of different reflectors.

**Flash units and
digital photography**

Light quality depends on two factors: first the quality of the light shaper that is used, and second the precision of the flash unit's control system. If the light quantity or light quality of different exposures is not identical, colour shifts are inevitable. broncolor flash systems offer precise control of flash voltage. This outstanding repetitive precision is especially important for images using multi-shot cameras. The high-end Scoro A power pack is moreover equipped with broncolor's patented ECTC (Enhanced Colour Temperature Control) technology, which ensures a constant (or deliberately variable) colour temperature over the entire control range.

For users of digital imaging systems who need completely computer-controlled image acquisition, broncolor offers units that can be remotely radio-controlled from a PC or Macintosh.

Haze Kware, France

Innovative Technologies – made in Switzerland

Innovation as motivation. Although the technologies we have developed are accepted as groundbreaking, they are continuously perfected or further developed. The basis for this is a constant desire to optimise and the continuing study of electrical technologies, new materials and alternative manufacturing processes. Photography is born of light – so it is our mission to accompany its development and to further the advance of technical progress in professional lighting technology.

FLASH CUT-OFF

Cut-off technology
Flash duration and light output are the two decisive factors in light control. A microprocessor in Scoro and Move power packs as well as monolights of the Siros S series will calculate for you the shortest or longest flash duration for a given output. This enables rapid flash sequences with up to 50 flashes per second.

CONSTANT COLOUR ECTC

Constant colour temperature – ECTC
The second generation of our patented ECTC (Enhanced Color Temperature Control) technology, which adapts flash voltage and duration to each other, achieves a constant colour temperature over the entire variation range. With the Scoro S you can change the colour temperature in calibrated steps of + / - 200 K at constant power output.

When multiple lamp heads are connected, constant colour temperature is guaranteed on all channels up to an asymmetry of two f-stops.

CONTROL RANGE

Individual power distribution
The Scoro S has three lamp outlets, the Scoro E and Move power packs have two each. Each lamp outlet has an individual power controller with LED display, which is adjustable independently of the other outlets. The unit therefore behaves like three (or two) independent power packs. You have a choice of up to 11 f-stops to set the flash output you need. That is a control range from 3 to 3200 J.

SPEED MODE

Speed Mode
In Speed Mode the charging time and flash duration are reduced by up to 50%, and the maximum flash energy is reduced by 25%. In this way you can achieve up to ten exposures per second at full output, or up to 50 at reduced power. This converts broncolor power packs and monolights with cut-off technology into high performance flash units whenever speed is of the essence. With their active fan cooling, even long series of flashes are no problem.
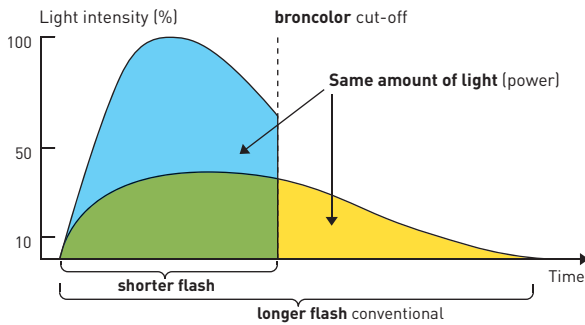
Speed meets precision – unbeatable flash times

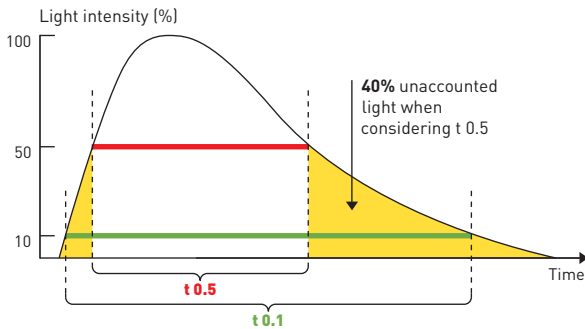**FLASH CUT-OFF**

Cut-off technology
For consistent flash energy, flash durations can be substantially shorter using broncolor cut-off technology than is possible with conventional units:

Light intensity (%)

100

50

10

broncolor cut-off

Same amount of light (power)

shorter flash

longer flash conventional

Time

t 0.1 = 1/600 s

**Why
t 0.1
and not
t 0.5?**

Comparison without broncolor cut-off technology

Light intensity (%)

100

50

10

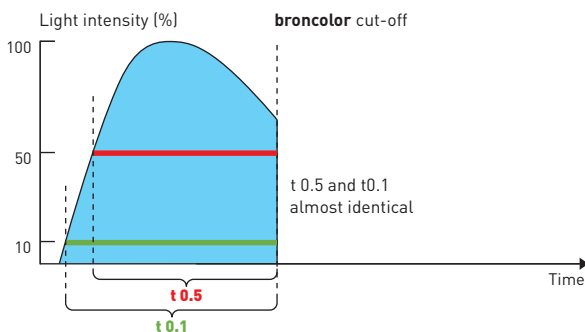**40%** unaccounted light when considering t 0.5

t 0.5

t 0.1

Time

t 0.5 does not measure all light relevant for the complete shooting: light is radiated before and after t 0.5, which can result in blurring.

Comparison with broncolor cut-off technology

Light intensity (%)

100

50

10

broncolor cut-off

t 0.5 and t0.1 almost identical

t 0.5

t 0.1

Time

The total quantity of light is taken into account. No blurring, because the flash is cut off.

t 0.5 = 1/600 s

Good to know
There is no generally valid factor for converting t 0.5 to t 0.1. It is therefore not correct to use t 0.5 to compare different flash durations; for comparisons t 0.1 must be known as well.

Absolute colour constancy with ECTC*

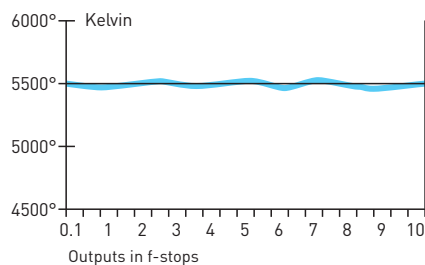**CONSTANT COLOUR ECTC**

Constant colour temperature
Patented ECTC technology enables a constant average colour temperature over the entire output range.

The colour temperature tolerance band is only +/- 50 Kelvin.

It controls the amplitude of the blue light component according to the warmer red component, which originates at cut-off.

Light intensity (%)

100

5500 K

Time
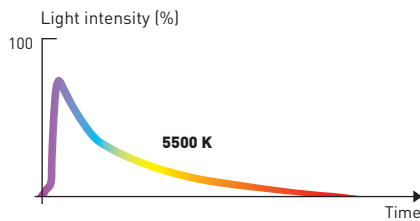
With this unique technology broncolor provides output control over 11 f-stops, or ten f-stop steps, at constant colour temperature. There is no other technology which compares with this performance. With other technologies such a constant colour temperature can only be attained over a maximum of four f-stops. If multiple lamp-heads are connected, the constant colour temperature is guaranteed on all channels with an asymmetry of up to two f-stops.
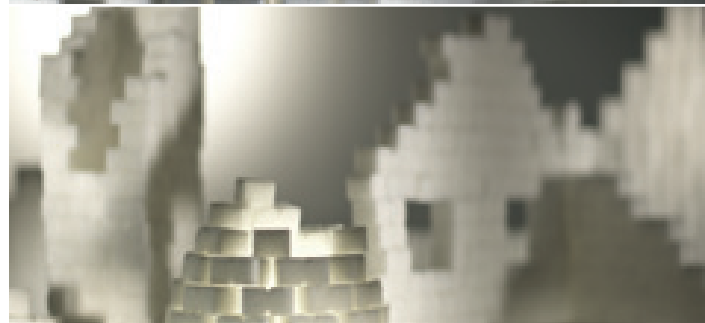
Kelvin

6000°

5500°

5000°

4500°

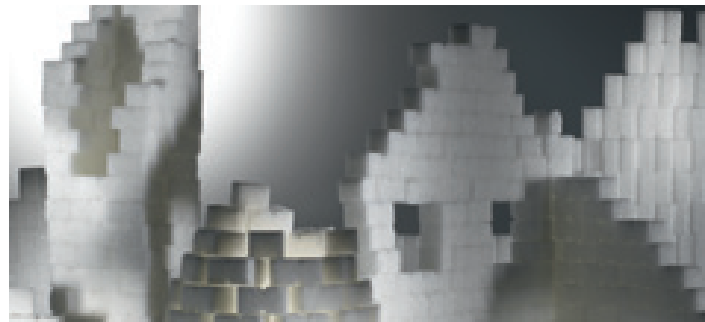0.1   1   2   3   4   5   6   7   8   9   10

Outputs in f-stops

Even for fast flash sequences, constant colour temperature and quantity of light are the primary quality criteria for broncolor products.

*ECTC Enhanced Colour Temperature Control
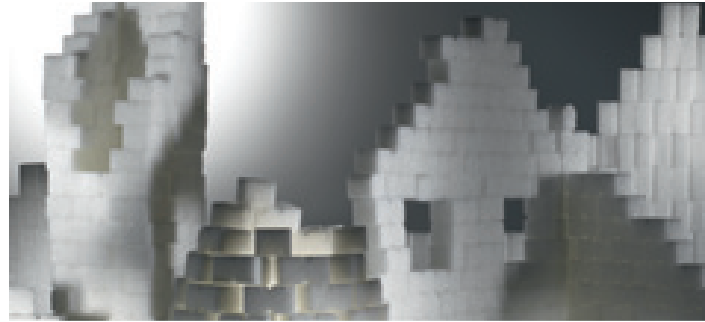
with broncolor technology

without broncolor technology

Control meets efficiency –enormous control range, individually controllable

CONTROL RANGE

Power distribution
Scoro S units have three lamp outlets, Scoro E and Move have two each. Each lamp outlet has an individual power controller with LED display and is adjustable independently of the other outlets. The unit therefore behaves like three (or two) independent power packs.

The individual power distribution combined with the large control range, at its maximum from 3-3200 Joules, allows the photographer an almost free choice of f-stop.

The required flash output can then be chosen from up to 11 f-stops, or ten f-stop steps. A further power display provides information about the total energy supplied by the power pack. With the buttons beside the display it is possible to change the total energy of all channels simultaneously.

Aperture closed

Aperture open

Record charging times with Speed Mode

SPEED MODE

Speed Mode
In Speed Mode, Move can be operated at optimum colour temperature and maximum output with a minimum charging time of 0,9 s (600 J). The Scoro even manages 0,4 s at 1600 J. The shortest charging time is an unbelievable 0,02 s.

How is that possible?
With the Speed button the maximum energy is reduced by 25% and, so, the charging time shortened by up to 50%.

In this way Move, just like its big brother, the Scoro, achieves the world's shortest charging time of 0,02 s.

Using this technology stroboscope shootings can be illuminated with only a single flash unit. For example, in technical and scientific photography motion sequences can be made visible.

By alternately triggering several power packs, the number of flashes per second can even be doubled.

with broncolor technology

without broncolor technology

High-performance flash systems always consist of a separate power pack and one or more lamps. Advantages compared to monolights are the ability to connect several lamps, the big choice of special lamps (e.g. diffused-source lamps, spots, etc.), and the comprehensive range of accessories. The extensive range offers the right solution for every lighting assignment and every budget. Power packs, lamps and accessories from broncolor are, with very few exceptions, also compatible with current monolights, and offer an enormous spectrum of flash energies.

Scoro, the top model, features individual power distribution, i.e. all lamp outputs can be individually regulated. broncolor's patented ECTC technology (Enhanced Colour Temperature Control) ensures absolute control of colour temperature and flash duration over the entire output range. If multiple lampheads are connected, the constant color temperature is guaranteed on all channels with an asymmetry of up to two f-stops. Numerous additional programmable functions enable widely differing applications. Scoro is the first power pack to incorporate all significant features: Scoro has the fastest charging time, roughly twice as fast as any of the others; Scoro has the shortest flash duration at every output rating.

A Senso power pack is a good introduction to the broncolor system: Senso includes all the features of a studio flash unit in a small volume - ideal when you are on the road. The mains-independent power pack Move 1200 L is notable for its light weight, robustness, and user-friendly plug-in battery. Move is compatible with all broncolor flash units and lamps, and can be used both on location and in the studio.

On all broncolor studio power packs modelling light can be adjusted to be proportional to the differing flash outputs of diverse power packs, and to the number of lamps. In this way the lighting situation can be assessed in the correct relationship to the effective flash output. The robust housing protects the electronics in hard daily use, and the cooling fan and thermostat protect against damage from overheating. Modern micro-processor technology controls the various functions and simultaneously monitors the capacitor and operating modelling-light voltages. With their high-precision regulation of flash voltage, broncolor power packs are ideal for multi-shot digital photography. All models are equipped with a photocell and have a large adjustment range in 1/10 f-stop steps. The Senso and Move power packs are equipped with the radio system RFS 2 or RFS 2.1 respectively. For Scoro power packs, there is a choice of RFS or RFS 1. With this radio system, a power pack can be triggered by radio and controlled remotely.

Because of the laws in some countries, the use of the broncolor RFS radio system is not allowed.

FLASH CUT-OFF

CONSTANT COLOUR ECTC

CONTROL RANGE 11 F-STOPS

SPEED MODE

Scoro S

- Ultra-fast flash times down to 1/10'000 s (t 0.1) or 1/14'000 s (t 0.5) thanks to innovative cut-off technology
- Extremely powerful lighting – outputs up to 3200 J
- Three lamp outlets, individually switchable and with fully independent control of each
- ECTC (Enhanced Color Temperature Control) technology for constant colour temperature, and selective colour temperature changing when required
- Long-life halogen modelling light, up to 3 × 650 W and five proportionality stages
- Robust, easily readable 8 cm LED display (240 × 180)
- Elegant, robust metal housing with carbon-look and massive carrying handle
- Speed Mode (Charging time and Flash duration)
- Memory function
- Further special functions, such as alternation, delay and stroboscopic effects

	Scoro 1600 S RFS | 31.041.XX **Scoro 1600 S RFS 2.1** | 31.044.XX	**Scoro 3200 S RFS** | 31.043.XX **Scoro 3200 S RFS 2.1** | 31.045.XX
Normal mode		
Flash energy	1600 J	3200 J
f-stop at 2 m, 100 ISO, reflector P70	64 $^2/_{10}$	90 $^2/_{10}$
Flash duration at max. energy* t 0.1 (t 0.5)	1/325 s (1/760 s)	1/160 s (1/390 s)
Variation range for flash duration* t 0.1 (t 0.5)	1/150 – 1/10'000 s (1/450 – 1/14'000 s)	1/85 – 1/10'000 s (1/240 – 1/14'000 s)
Charging time (min. – max. energy) at 230 V	0,02 – 0,6 s	0,02 – 1,3 s
120 V	0,02 – 1,0 s	0,02 – 2,0 s
100 V	0,02 – 1,1 s	0,02 – 2,2 s
	Switchable to slow charge	Switchable to slow charge
Speed Mode		
Flash energy	1200 J	2400 J
f-stop at 2 m, 100 ISO, reflector P70	45 $^9/_{10}$	64 $^9/_{10}$
Flash duration at max. energy* t 0.1 (t 0.5)	1/435 s (1/1'600 s)	1/215 s (1/860 s)
Variation range for flash duration* t 0.1 (t 0.5)	1/150 – 1/10'000 s (1/450 – 1/14'000 s)	1/85 – 1/10'000 s (1/240 – 1/14'000 s)
Charging time (min. – max. energy) at 230 V	0,02 – 0,4 s	0,02 – 0,8 s
120 V	0,02 – 0,6 s	0,02 – 1,2 s
100 V	0,02 – 0,7 s	0,02 – 1,4 s
Ready display	Visual and audible (can be switched off), activated when 100% of the selected energy is reached	
Lamp outlets	3 outlets with flash cut-off and ECTC	
Power distribution	Symmetrical and individually asymmetrical	
Control elements	Dust and scratch-resistant, illuminated silicone keypad, setting by radio remote control	
Control range for flash energy	Over 10 f-stops	Over 11 f-stops
Colour temperature	in $^1/_{10}$ or full f-stop intervals. Choice of joules or percent for LCD display ECTC technology (Enhanced Colour Temperature Control) for constant or specifically adjustable colour temperature	
Modelling light	Halogen max. 3 × 650 W at 200 – 240 V / Halogen max. 3 × 300 W at 100 – 120 V	
Additional functions	Proportional to flash energy, also full and low settings. Proportionality can be adapted to other broncolor power packs and to monolights t 0.1, sequence, delay, interval, colour temperature, alternating, stroboscopic, memory, and many more	
Flash release	Manual release button, photocell, infrared RFS or RFS 2.1 receiver, may be switched off sync cable, IRX 2	
Number of sync sockets	1	1
Computer connection for remote control	1	1
Stabilised flash voltage	+/- 0,3%	+/- 0,3%
Power requirements	16,0 A (230 V) 15,0 A (120 V) 15,0 A (100 V)	16,0 A (230 V) 15,0 A (120 V) 15,0 A (100 V)
Dimensions without handle	28,8 × 19 × 29,5 cm (11,3 × 7,5 × 11,6")	28,8 × 19 × 40 cm (11,3 × 7,5 × 15,7")
Weight	8,9 kg (19,6 lbs)	12,1 kg (26,7 lbs)

*Automatic regulation of flash duration and energy for optimum colour temperature. Preselection of minimum flash duration possible

Scoro E

FLASH CUT-OFF
t0.1 = 1/8'000s
t0.5 = 1/12'000s

CONSTANT COLOUR ECTC

CONTROL RANGE

- Ultra-fast flash times down to 1/8'000 s (t 0.1) or 1/12'000 s (t 0.5) thanks to innovative cut-off technology
- Extremely powerful lighting – outputs up to 3200 J
- Two lamp outlets with individual cut-off and fully independent control of each
- ECTC (Enhanced Color Temperature Control) technology for constant colour temperature of every firing
- Long-life halogen modelling light, up to 3 × 650 W and five proportionality stages
- Robust, easily readable 8 cm LED display (240 × 180)
- Elegant, robust metal housing with carbon-look and massive carrying handle

	Scoro 1600 E RFS | 31.060.XX **Scoro 1600 E RFS 2.1** | 31.062.XX	**Scoro 3200 E RFS** | 31.061.XX **Scoro 3200 E RFS 2.1** | 31.063.XX
Flash energy	1600 J	3200 J
f-stop at 2 m, 100 ISO, reflector P70	64 $^2/_{10}$	90 $^2/_{10}$
Flash duration at max. energy* t 0.1 (t 0.5)	1/325 s (1/760 s)	1/160 s (1/390 s)
Variation range for flash duration* t 0.1 (t 0.5)	1/265 – 1/8'000 s (1/760 – 1/12'000 s)	1/132 – 1/8'000 s (1/390 – 1/12'000 s)
Charging time (min. – max. energy) at 230 V	0,06 – 1,0 s	0,06 – 1,7 s
120 V	0,06 – 1,4 s	0,06 – 2,4 s
100 V	0,06 – 1,5 s	0,06 – 2,6 s
	Switchable to slow charge	Switchable to slow charge

Ready display	Visual and audible (can be switched off), activated when 100% of the selected energy is reached	
Lamp outlets	2 outlets with flash cut-off and ECTC	
Power distribution	Symmetrical and individually asymmetrical	
Control elements	Dust and scratch-resistant, illuminated silicone keypad, setting by radio remote control	
Control range for flash energy	Over 8 f-stops	Over 9 f-stops
	in $^1/_{10}$ or full f-stop intervals. Choice of joules or percent for LCD display	
Colour temperature	ECTC (Enhanced Color Temperature Control) technology for constant colour temperature	
Modelling light	Halogen max. 2 × 650 W at 200 – 240 V / Halogen max. 2 × 300 W at 100 – 120 V	
	Proportional to flash energy, also full and low settings	
	Proportionality can be adapted to other broncolor power packs and to monolights	
Additional functions	t 0.1, sequence	
Flash release	Manual release button, photocell, RFS or RFS 2.1 receiver, may be switched off, sync cable	
Number of sync sockets	1	1
Computer connection for remote control	1	1
Stabilised flash voltage	+/- 0,5%	+/- 0,5%
Power requirements	16.0 A (230 V) 15.0 A (120 V) 15.0 A (100 V)	16.0 A (230 V) 15.0 A (120 V) 15.0 A (100 V)
Dimensions without handle	28,8 × 19 × 29,5 cm (11,3 × 7,5 × 11,6")	28,8 × 19 × 40 cm (11,3 × 7,5 × 15,7")
Weight	8,7 kg (19,2 lbs)	12 kg (26,5 lbs)

*Automatic regulation of flash duration and energy for optimum colour temperature. Preselection of minimum flash duration possible

**CONTROL RANGE
7.5 F-STOPS**

Senso

- High repetitive precision of the colour temperature
- 3 lamp outlets, control over 2 individual channels
- Photocell, infrared and RFS 2 receiver for flash triggering
  (can be switched off)
- Internal discharge when the power output is reduced
- Slow charge (selectable)
- Front panel, resistant to dust and scratches
  with illuminated silicone keyboard and LED displays
- Memory function
- Modelling light with two different proportionality levels
- TIPA Award Winner 2011

	Senso 1200	31.050.XX	**Senso 2400**	31.051.XX
Flash energy	1200 J	2400 J
f-stop at 2 m (6 ½ ft), 100 ISO,	**Litos lamp**	**Litos lamp**
- with Litos reflector	32 $^1/_{10}$	45 $^1/_{10}$
- with P70 reflector	45 $^8/_{10}$	64 $^8/_{10}$
	Pulso G lamp	**Pulso G lamp**
- with P70 reflector	45 $^7/_{10}$	64 $^7/_{10}$
Flash duration t 0.1 (t 0.5) at 230 V	**Litos lamp**	**Litos lamp**
	1200 J: 1/180 s (1/600 s)	2400 J: 1/90 s (1/300 s)
	600 J: 1/360 s (1/1200 s)	1200 J: 1/180 s (1/600 s)
	Pulso G / Unilite lamp	**Pulso G / Unilite lamp**
	1200 J: 1/100 s (1/300 s)	2400 J: 1/50 s (1/150 s)
	600 J: 1/200 s (1/600 s)	1200 J: 1/100 s (1/300 s)
Charging time (100% of selected energy)	0,4 – 1,5 s (230 V)	0,4 – 2,8 s (230 V)
	0,4 – 1,5 s (120 V)	0,4 – 2,8 s (120 V)
	0,5 – 1,9 s (100 V) 900 J	0,5 – 3,9 s (100 V) 1800 J
Ready display	Visual and audible (can be switched off), signals when 100% of selected energy is reached	
Number of lamp outlets	3	3
Power distribution	Free asymmetry up to 5 f-stops in whole and $^1/_{10}$ f-stop intervals	
Control range of flash energy	7,5 f-stops or 13 J to 1200 J (1 lamp) with activated symmetry switch	
Modelling light	100 – 240 V, halogen max. 3 × 300 W (Litos) 230 V, halogen max. 3 × 650 W (Pulso G / Unilite) Proportional to flash energy, full power	
Flash release	Manual release button, photocell, RFS 2 receiver (radio frequency), sync cable	
Radio (2.4 GHz)	99 workstations, 99 unit addresses, 40 selectable frequency channels	
No. of sync sockets	1	1
Dimensions (L×W×H)	20,3 × 14,8 × 21,8 cm (8 × 5,8 × 8,6") excl. handle	203 × 148 × 300 mm (8 × 5,8 × 11,8"), excl. handle
Weight	4,6 kg (10,1 lbs)	6,9 kg (15,2 lbs)

Accessories

Stand holder Senso
35.117.00

Senso kit 21

31.052.XX
includes:
1 power pack Senso 1200
1 Litos lamp
1 Flex 70 × 70 cm (28 × 28")
1 sync cable 5 m (16 ft)
1 Outdoor trolley backpack

Senso kit 22

31.053.XX
Scope of delivery same as Senso kit 21,
but with 2 Litos lamps

Senso kit 41

31.054.XX
includes:
1 power pack Senso 2400
1 Litos lamp
1 Flex 70 × 70 cm (28 × 28")
1 sync cable 5 m (16 ft)
1 Outdoor trolley backpack

Senso kit 42

31.055.XX
Scope of delivery same as Senso kit 41,
but with 2 Litos lamps

FLASH CUT-OFF
t0.1 = 1/10'000s
t0.5 = 1/14'000s

CONSTANT COLOUR ECTC
5500 K

CONTROL RANGE
9 F-STOPS

SPEED MODE
0.02s

Move 1200 L

(including protective bag, plug-in lithium battery and charger)

- Super-fast flash durations up to 1/8'500 s (t 0.1) or
  1/20'000 s (t 0.5) thanks to innovative cut-off technology
- Outputs up to 1200 J
- Two lamp outlets with individual cut-off and fully
  independent control of each
- ECTC (Enhanced Color Temperature Control)
  technology for constant colour temperature
- Speed Mode (Charging time and Flash duration)
- Eco operation for more flashes per battery charge
  (up to 230 flashes at full power)
- Unbelievably small, light and compact
- Robust housing with eight "protective rubber bumpers"
- Variable operating-period limits for modelling light

Move 1200 L | 31.016.XX

Flash energy	1200 J
f-stop at 2 m (6 ½ ft), 100 ISO, P70 reflector	64 $^1/_{10}$ (with MobiLED)
Flash duration t0.1 (t0.5)	fastest: 1/8'500 s (1/20'000 s)
	max. energy: 1/350 s (1/1000 s)
Charging time (for 100% of selected energy)	0,02 – 1,9 s (Speed Mode 0,02 – 0,9 s)
No. of flashes per battery charge	approx. 170 / 230 (Eco-Mode) at 1200 J
	approx. 50'000 at 4 J
Lamp outlets	2 outlets with flash cut-off and ECTC
Power distribution	Symmetrical and individually asymmetrical
Controls	illuminated silicone keyboard, resistant to dust/scratches, LCD display
Flash energy control range	9 f-stops in $^1/_{10}$ or full f-stop intervals
	Display in joules or percent (4,5 – 1200 J)
Modelling light	Max. 2 × halogen 100 W or 2 × LED 30 W
	charge selectable switch-off time setting (10/30/60 s)
	Operatig in continuous light mode over 2 hours
Colour temperature	ECTC technology (Enhanced Colour Temperature Control)
	for constant colour temperature
Flash triggering	Manual release button, photocell, RFS 2.1, sync cable
Radio release	outdoors up to 50 m (164 ft) (possible range up to 300 m / 984 ft)
	indoors up to 30 m (98 ft) (possible range up to 300 m / 984 ft)
Dimensions (L×W×H) excl. handle	21 × 17 × 23 cm (8,3 × 6,7 × 9")
Weight of power pack	6,2 kg (13,7 lbs)
Lithium battery	14,4 V / 6,6 AH Li-FePo4 with integrated battery status
Accessories	outdoor trolley backpack (S.23), weatherproofed power pack soft
	case, rechargeable battery, battery recharger, continuous light adapter

Move Outdoor kit 1

31.026.XX
includes:
1 power pack Move 1200
  (incl. battery)
1 MobiLED lamp
1 Softbox Flex 70 × 70 cm (28 × 28")
1 RFS 2 transmitter kit
1 battery recharger
1 sync cable
1 adapter cable
1 continuous light adapter
1 weatherproofed Move soft case
1 outdoor trolley backpack

Move Outdoor kit 2

31.027.XX
includes:
1 power pack Move 1200 L
  (incl. battery)
2 MobiLED lamps
1 Softbox Flex
  70 × 70 cm (28 × 28")
1 umbrella 85 cm
1 RFS 2 transmitter kit
1 battery recharger
1 sync cable
1 adapter cable
1 continuous light adapter
1 weatherproofed Move soft case
1 outdoor trolley backpack

Outdoor Para kit

31.028.XX
includes:
1 power pack Move 1200 L
  (inkl. battery)
1 MobiLED lamp
1 Para 88 P kit
1 RFS 2 transmitter kit
1 battery recharger
1 sync cable
1 adapter cable
1 continuous light adapter
1 weatherproofed Move soft case
1 outdoor trolley backpack

Accessories

Weatherproofed Move soft case
36.520.00
Weight: 0.2 kg (0.4 lbs)
Dimensions (L × W × H):
21 × 14 × 7 cm (8.2 × 5.5 × 2.7 ")

Outdoor trolley backpack
36.519.00
Weight: 5 kg (11 lbs)
Dimensions (L × W × H):
56 × 41 × 27 cm (22 × 16.1 × 10.6 ")

Battery recharger
36.151.00

Lithium battery
36.152.00

Continuous light adapter
36.129.00
Dimensions: 30.8 × 18.5 × 22.9 cm (21.1 × 7.2 × 9 ")

Move battery bag
36.552.00
Weight: 0.2 kg (0.4 lbs)
Dimensions (L × W × H):
21 × 14 × 7 cm (8.2 × 5.5 × 2.7 ")

Siros

The new Siros monolight is pure innovation. A little light giant with infinite possibilities and totally uncompromising broncolor quality. Specially developed by broncolor, the world's first app for light control - "bronControl".

It is remarkable for its ultra-fast flash durations, an enormous control range and short charging times. Siros is powerful and universal. Enclosed in a robust housing, and providing 800 J, it can be activated using the broncolor RFS 2.1 radio release. Siros is available in standard and "S" variants, with 400 or 800 J.

In Siros S too, the ECTC technology you know from our high-end Scoro and Move power packs controls the flash curve and guarantees flash durations from 1/13,000s (t 0.5) and constant colour over the entire control range.

The enormous control range, up to nine f-stops and down to 2 Joules gives the photographer an unrestricted choice of aperture. And the lightning-quick charging times, 0.02 to 0.9 s at 400 Joules, mean you never have to wait. broncolor has one of the most comprehensive ranges of light modifiers, and Siros is fully integrated into this system of unlimited creative opportunities. Two new reflectors have been specially developed for Siros: an umbrella, and a size-optimised reflector, the L40, which features a snap-in system for mounting honeycomb grids.

All the basic functions of Siros can be operated using the "bronControl" app. As soon as Siros is logged in to a WiFi network, several devices in a studio, clearly identified by different-coloured LEDs, can be controlled using a smartphone or tablet.
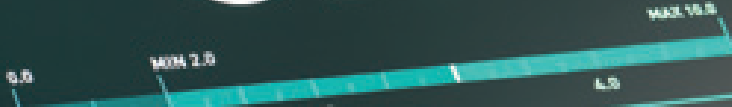
Siros

- Enormous control range for flash energy, up to 7 f-stops
- Flash can be triggered using RFS 2.1, PocketWizard or infrared
- Radio control using "bronControl" App or RFS 2.1
- Easy-to-use rotary controller and simple operation
- Additional function: flash sequence (flash series)
- USB connection for software updates

FLASH CUT-OFF

CONTROL RANGE

bronControl APP

	Siros 400 | 31.610.XX **WiFi / RFS 2.1** | 31.613.XX	**Siros 800** | 31.630.XX **WiFi / RFS 2.1** | 31.631.XX
Flash duration	400 J	800 J
f-stop at 2 m distance, 100 ISO		
with reflector L40	22 $^5/_{10}$	32 $^8/_{10}$
with reflector P70	32 $^5/_{10}$	45 $^6/_{10}$
Flash duration t 0.1 (t 0.5)		
min. energy	1/350 s (1/1000 s)	1/150 s (1/500 s)
max. energy	1/700 s (1/2100 s)	1/350 s (1/1000 s)
Charging time (for 100% of selected energy)		
230 V/50 Hz	0.1–0.95 s	0.2–1.9 s
120 V/60 Hz	0.1–0.95 s	0.14–1.9 s
100 V/50 Hz	0.1–1.45 s	0.18–3.1 s
Control range of flash energy	7 f-stops in $^1/_{10}$ or full f-stop intervals	
	6.5–400 J	13–800 J
Colour temperature		
max. energy/P70	5500 K	5500 K
Power requirements	Automatic adaptation to the mains (AC-line) voltage 100–120 V/50–60 Hz: 5.5 A, 200–240 V/50–60 Hz: 3.5 A Operation via external battery	
Modelling light	Halogen max. 300 W/120 V, off, proportional to fl ash energy or full power	
Flash triggering	Manual release button, photocell, sync cable, with integrated broncolor RFS 2.1	
Remote Control	via bronControl app for mobile devices (only for units with integrated W-Lan) RFS 2.1 transmitter (only for units with integrated RFS 2.1 receiver)	
Ready display	Visual and audible (can be switched off)	
Additional functions	- Sequences up to 50 flashes - Integrated umbrella mount and integrated umbrella reflector - USB connection for software updates	
Cooling	Fan, temperature controlled	
Dimensions (l × w × h)	32 × 13 × 18 cm (12.6 × 5.1 × 7.1")	
Weight	3.2 kg (7.1 lbs)	3.6 kg (7.9 lbs)
Siros special accessories	See page 29	

FLASH CUT-OFF **CONTROL RANGE**

CONSTANT COLOUR ECTC **SPEED MODE**

bronControl APP

Siros S

- Enormous control range for flash energy, up to 9 f-stops
- Flash can be triggered using RFS 2.1, PocketWizard or infrared
- Radio control using "bronControl" App or RFS 2.1
- Easy-to-use rotary controller and simple operation
- Additional function: flash sequence (flash series)
- USB connection for software updates
- Speed Mode for fast flash times (in S-Version)

	Siros 400 S WiFi / RFS 2.1 | 31.623.XX		Siros 800 S WiFi / RFS 2.1 | 31.643.XX	
Flash duration	400 J		800 J	
f-stop at 2 m distance, 100 ISO				
with reflector L40	22 $^5/_{10}$		32 $^8/_{10}$	
with reflector P70	32 $^5/_{10}$		45 $^6/_{10}$	
Flash duration t 0.1 (t 0.5)				
min. energy	1/5500 s (1/11'000 s)		1/4000 s (1/8000 s)	
max. energy	1/700 s (1/2100 s)		1/350 s (1/1000 s)	
Charging time (for 100% of selected energy)				
230 V/50 Hz	0.02–0.95 s		0.07–1.9 s	
120 V/60 Hz	0.02–0.95 s		0.04–1.9 s	
100 V/50 Hz	0.02–1.4 s		0.08–2.9 s	
Control range of flash energy	9 f-stops in $^1/_{10}$ or full f-stop intervals			
	2–400 J		4–800 J	
Colour temperature max. energy/P70	ECTC technology (Enhanced Colour Temperature Control) for constant colour temperature - in speed mode ECTC is disabled.			
Power requirements	Automatic adaptation to the mains (AC-line) voltage 100–120 V/50–60 Hz: 5.5 A, 200–240 V/50–60 Hz: 3.5 A Operation via external battery converter possible for mains-independent operation			
Modelling light	Halogen max. 300 W/120 V, off, proportional to fl ash energy or full power			
Flash triggering	Manual release button, photocell, sync cable, with integrated broncolor RFS 2.1			
Remote control	via bronControl app for mobile devices (only for units with integrated W-Lan)			
	RFS 2.1 transmitter (only for units with integrated RFS 2.1 receiver)			
Ready display	Visual and audible (can be switched off)			
Additional functions	- Sequences up to 50 flashes			
	- Integrated umbrella mount and integrated umbrella reflector			
	- Speed Mode for fastest flash durations			
Speed mode (Cut-off times)	Siros 400 S		Siros 800 S	
	Level	t 0.1 (t 0.5) - speed Mode	Level	t 0.1 (t 0.5) - speed Mode
	2 (1 J)	1/8500 s (1/19000 s)	2 (3 J)	1/8500 s (1/19000 s)
	3 (3 J)	1/8500 s (1/17000 s)	3 (6 J)	1/8000 s (1/18000 s)
	4 (6 J)	1/8000 s (1/17000 s)	4 (13 J)	1/8000 s (1/17000 s)
	5 (12 J)	1/8000 s (1/17000 s)	5 (25 J)	1/8000 s (1/15000 s)
	6 (25 J)	1/7500 s (1/15000 s)	6 (50 J)	1/7500 s (1/13000 s)
	7 (50 J)	1/6500 s (1/10000 s)	7 (100 J)	1/4000 s (1/7000 s)
	8 (100 J)	1/4000 s (1/6000 s)	8 (200 J)	1/3000 s (1/4000 s)
	9 (200 J)	1/2500 s (1/3000 s)	9 (400 J)	1/1500 s (1/1700 s)
	10 (400 J)	1/600 s (1/2000 s)	10 (800 J)	1/300 s (1/1000 s)
Cooling	Fan, temperature controlled			
Dimensions (l × w × h)	32 × 13 × 18 cm (12.6 × 5.1 × 7.1")			
Weight	3.2 kg (7.1 lbs)		3.6 kg (7.9 lbs)	
Siros special accessories	See page 29			

With their outstanding light quality, Siros monolights are the perfect complement for existing studio flash installations.

Each kit is supplied with a compact, practical Flash Bag trolley case. Accessories - such as stands, softboxes and umbrellas - can be stored in thespecial accessory bag, which is designed to be strapped on to the Flash Bag.

Siros Basic Kits –
The perfect starter level kit for professionals

31.660.XX Siros 400 Basic Kit 2
31.680.XX Siros 800 Basic Kit 2
2 × Siros 400 or 800, 2 × umbrella silver 85 cm, 1 × synchronous cable 5 m,
2 × Basic M stand, 1 × Flash Bag 2, 1 × Accessory Bag

Siros Expert Kits –
A step up for the pro who wants more

31.663.XX Siros 400 S Expert Kit 2 RFS 2.1
31.683.XX Siros 800 S Expert Kit 2 RFS 2.1
2 × Siros 400 or 800 S RFS 2.1, 1 × umbrella silver 85 cm, 1 × Softbox
60 × 60 cm incl. speed ring, 1 × synchronous cable 5 m, 2 × Basic M stand,
1 × RFS 2.1 transmitter, 1 × Flash Bag 2, 1 × Accessory Bag

Siros Pro Kits –
Everything the demanding professional needs to get going
in studio or on location

31.693.XX Siros 800 S Pro Kit 3 RFS 2.1
3 × Siros 800 S RFS 2.1, 1 × Softbox 60 × 60 cm incl. speed ring,
1 × Octabox 75 cm incl. speed ring, 2 × reflector L40, 1 × synchronous
cable 5 m, 3 × Basic M stand,
1 × RFS 2.1 transmitter, 1 × Flash Bag 3, 1 × Accessory Bag

Accessories

Standard reflector L40
33.115.00
Ø18.2 × 11.8 cm (7.1 × 4.6 ")

Flash Bag 1
36.531.00
Weight: 1.35 kg (2.9 lbs)
Dimensions: 45 × 20 × 23 cm
(17.7 × 7.8 × 9 ")
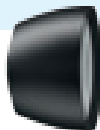
Honeycomb grids for L40,
33.194.00
Set of 3 pieces (narrow, middle, wide)

Flash Bag 2
36.532.00
Weight: 3.5 kg (7.7 lbs)
Dimensions: 106 × 20 × 24 cm
(41.7 × 7.8 × 9.4 ")
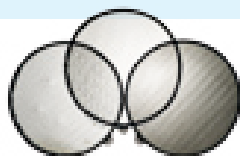
Flash tube 400 / 800 J for Siros
34.360.00

Flash Bag 3
36.533.00
Weight: 4.5 kg (9.9 lbs)
Dimensions: 103 × 21 × 37 cm
(40.5 × 8.2 × 14.5 ")

Protecting glass
34.369.00
5900 K

Accessory Bag
36.535.00
Weight: 1.25 kg (2.75 lbs)
Dimensions: 102 × 14 × 20 cm
(40.1 × 5.5 × 7.8 ")
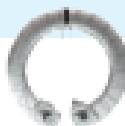
Halogen modeling lamp 300 W / 120 V
34.260.00

Basic M stand
35.105.00
Air-cushionened (AC) with
three sections
Adjustable from 91 to 244 cm
(35.8 to 96 "),
Stud 16 mm (0.6 "), Weight 1.5 kg (3.3 lbs)

bronControl App
to control the Siros
with Iphone, Ipad or Android
App is available on Google Play Store
and App Store

Umbrella silver 85 cm (33.4 ")
33.574.00
Umbrella silver 105 cm (41.3 ")
33.570.00
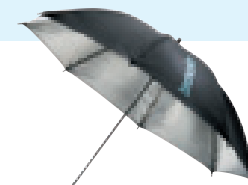
The extensive range of lamps meets every photographer's needs for creative light management. The lamp is the critical element in terms of light quality, but that quality is also influenced by other factors: the shape and coating of the flash tube, the characteristics and surface of the reflectors, the uniformity of illumination along a defined reflector axis, the match between the emission characteristics of the flash and the modelling light, the optimum colour temperature and much more besides. broncolor Pulso G, Unilite and Pulso Twin lamps all have compact dimensions, a bright halogen modelling light, fan cooling, a thermal circuit breaker and plug-in flash tubes.

With their integrated broncolor bayonet and release catch the light shapers can be rotated through 360° and changed quickly and safely. Twin lamps allow the energy of two power packs to be concentrated into one lamp. The Picolite small lamps have their own accessories and, with a Pulso adapter, can also be fitted with lightweight broncolor reflectors and other accessories. Litos, the designer lamp, was especially developed for the Senso power pack, and combines multifunctionality and compactness in one. The Litos scope of supply includes an umbrella or standard reflector. As one of the first suppliers worldwide, broncolor focuses on LED technology and in 2011 introduced

the first flash lamp with LED modelling light – the MobiLED. With 30 W (comparable with 100 W halogen) and 5500 K colour temperature, the MobiLED gives photographers the ability to merge the field of photography with film for the first time. For customised lighting, users can select from a wide range of light shapers with accessories. A variety of accessories and stands are available for all broncolor lamps to ensure ease of handling.

broncolor lights are supplied with a 5900 K flash tube, halogen modelling lamp, UV-coated 5500 K protective glass (guarantees neutral colour reproduction) and a transparent transport cap.

Jessica Keller, Switzerland

Pulso G lamp

- Identical light characteristics of flash tubes and modelling light
- Can be equipped with 1600 J or 3200 J flash tubes
- Plug-in flash tube and protecting glass (with mechanical safety device)
- Integrated knob-operated focusing mechanism with witness marks
- Quick release bracket
- Automatic locking mechanism of the light shaper (rotatable 360°)
- Integrated tilt with high-strength braking mechanism
- Integrated umbrella holder
- Cooling fan and thermal protection
- Automatic adaptation to the respective mains power supply
  (after exchange of the halogen modelling lamp)

Pulso G lamp | 1600 J: 32.115.XX | 3200 J: 32.116.XX

Flash energy	max. 3200 J
Modelling light (230 V)	halogen max. 650 W
Length lamp cable	5 m (16 ft)
Dimensions (Ø × l × h)	Ø 13 × 31 × 20 cm (5,1 × 12,2 × 7,8")
Weight (with cable)	3,15 kg (6,9 lbs)
Stand support	for bolts 12 mm, $^3/_8$" thread and bolts 16 mm, $^5/_8$"

Unilite lamp

- Corresponding emission characteristics of flash tubes and modelling light
- Can be equipped with 1600 J or 3200 J flash tubes
- Plug-in flash tube and protecting glass (with mechanical safety device)
- Quick release bracket
- Automatic locking mechanism of the light shaper (rotatable 360°)
- Integrated tilt with high-strength braking mechanism
- Integrated umbrella holder
- Cooling fan and thermal protection
- Automatic adaptation to the respective mains power supply
  (after exchange of the halogen modelling lamp)

Unilite lamp | 1600 J: 32.113.XX | 3200 J: 32.114.XX

Flash energy	max. 3200 J
Modelling light (230 V)	halogen max. 650 W
Length lamp cable	5 m (16 ft)
Dimensions (Ø × l × h)	Ø 12,6 × 30 × 17,5 cm (4,9 × 11,8 × 6,9")
Weight (with cable)	2,8 kg (6,2 lbs)
Stand support	for bolts 12 mm, $^3/_8$" thread and bolts 16 mm, $^5/_8$"

Accessories

Flash tube 1600 J
34.322.00 (for Unilite and Pulso G)

Halogen modelling lamp 650 W / 230 V
34.226.XX Pulso G / 34.235.XX Unilite
with fuse

Flash tube 3200 J
34.324.00 (for Unilite and Pulso G)

Protecting glass
34.336.00

Halogen modelling lamp 300 W / 120 V
34.225.XX Pulso G / 34.234.XX Unilite
with fuse

Protecting glass, mat
34.337.00

Litos lamp (for Senso)

• Corresponding emission characteristics of flash tube and modelling light
• Single pan-tilt locking handle
• Quick release bracket and integrated umbrella holder
• Including standard and/or umbrella reflector
• Thermal protection (fan only switches on when required)
• Plug-in flash tube and protecting glass (with triple mechanical safety device)

Litos lamp | 32.030.XX

Flash energy	max. 2400 J
Modelling light	300 W halogen (3.15 AF)
Cooling	temperature controlled (fan)
Length of cable	4,5 m (14,8 ft)
Dimensions (Ø×l×h)	Ø 12 × 24,3 × 17,2 cm (4,7 × 9,6 × 6,8")
Weight with cable	2,3 kg (5,1 lbs)
Stand support	for bolts 12 mm, $^3/_8$" thread and bolts 16 mm, $^5/_8$"

Accessories

Flash tube 2400 J
34.313.00

Protecting glass
34.339.00
mat: 34.340.00

Halogen modelling lamp 300 W / 230 V
34.233.XX
with fuse

Lamp extension cable
5 m: 34.153.00
10 m: 34.154.00

MobiLED lamp

• Built-in pan/tilt head for one-hand operation
• Quick release bracket and integrated umbrella holder
• Including standard and/or umbrella reflector
• Thermal protection (fan only switches on when required)
• Plug-in flash tube and protecting glass (with triple mechanical safety device)
• LED modelling light with a colour temperature of 5500 K,
  only working with Move 1200 L and Mobil

MobiLED lamp | 32.013.00

Flash energy	1200 J (max. 1600 J)
Modelling light	30 W LED
Length of cable	3,5 m (11,5 ft)
Dimensions (Ø×l×h)	Ø 12 × 24,3 × 17,2 cm (4,7 × 9,6 × 6,8")
Weight (without reflector and accessories)	1,7 kg (3,7 lbs)
Stand support	for bolts 12 mm, $^3/_8$" thread and bolts 16 mm, $^5/_8$"

Accessories

Flash tube 1600 J
34.308.00

MobiLED Continuous light adapter
36.129.00

Protecting glass
34.339.00
mat: 34.340.00

Pulso-Twin lamp

• Corresponding emission characteristics of flash and modelling light
• Two plug-in flash tubes with single integrated protecting glass
• Quick release bracket
• Automatic locking mechanism of the light shaper (rotatable 360°)
• Built-in tilt head with locking lever for an optimal breaking effect
• Cooling fan and thermal protection

Pulso-Twin lamp | 32.117.XX

Flash energy	max. 2 × 3200 J
Modelling light (230 V)	halogen max. 650 W, 300 W 120 V
Length lamp cable	2 × 5 m (2 × 16 ft)
Dimensions (Ø×l×h)	Ø 12 × 27,5 × 20 cm (4,7 × 10,4 × 7,8")
Weight	4 kg (8,8 lbs)
Stand support	for bolts 12 mm, $^3/_8$" thread and bolts 16 mm, $^5/_8$"

Accessories

Flash tube 2 × 3200 J incl. protecting glass
34.327.00
for Pulso-Twin

Halogen modelling lamp 650 W / 230 V
34.226.XX
with fuse
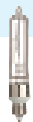
Halogen modelling lamp 250 W / 120 V
34.221.XX
with fuse

Picolite small lamp

Complete system of specialized light shapers as well as crossover adapter for other broncolor light shapers

- Corresponding emission characteristics of flash tubes and modelling light
- Plug-in flash tube and protecting glass (with mechanical safety device)
- Integrated reflector
- Adapter for own accessories with small dimensions (rotatable 360°)
- Adapter for broncolor light shaper available
- Built-in tilt head with locking lever for an optimal breaking effect
- Integrated umbrella holder
- Cooling fan and thermal protection
- Automatic voltage sensing (halogen modelling lamp must be manually changed)

Picolite small lamp | 32.021.00

Flash energy	max. 1600 J
Modelling light (230 V)	halogen max. 150 W
Length lamp cable	3,5 m (11 ft)
Dimensions (Ø×l×h)	Ø 8 × 20,5 × 13,5 cm (3,1 × 8 × 5,3")
Weight (with cable)	1,25 kg (2,7 lbs)
Stand support	for bolts 12 mm, $^3/_8$" thread and bolts 16 mm, $^5/_8$"

Accessories

Flash tube 1600 J
34.308.00

Halogen modelling lamp 150 W / 120 V
34.202.00
with fuse

Halogen modelling lamp 150 W / 230 V   34.201.00
with fuse

Protecting glass for Picolite
34.332.00
Protecting glass mat for Picolite
34.335.00

Barn door with 4 wings
33.244.00

Pulso adapter
33.501.00
allows to use lightweight reflectors
and accessories of the Pulso range

**Attachment with 3 honeycomb
grids and 2 aperture masks**
33.204.00

Fresnel spot attachment
33.631.00
light angle adjustment range 15 – 35°
incl. mat protecting glass (34.335.00)

Projection attachment
33.641.00
100 mm, with mat protecting glass,
3 aperture masks, 4 integrated templates
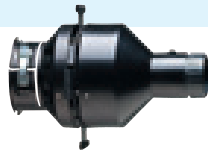
**Lamp extension cable
for MobiLED**
34.150.00
3,5 m (11 ft)

Picobox
33.128.00
max. 1600 J
lamp surface 15 × 25 cm (6 × 9,8˝)
with integrated spring lock

Adapter for Mini-Satellite and Unilite
35.213.00

Twin articulated arm in 3 parts
35.102.00
Twin articulated arm complete, bolt
with 5/8˝ thread and screw device for
bolt adapter, may only be used with
stand clamp 32.912.00

New light dimensions

It is not just the form and size of Paras that impresses, but above all their unique light quality and phenomenal light output. Decisive for the creative photographer is that a Para is not just a conventional light shaper, but rather an independent lighting system: various sizes of reflector are available; the position of the lamp is always central, on the axis of the reflector; the angle influences the character of the light; the range includes three diffusers with different densities. In addition Paras can be combined with other accessories. Light-thrilled photographers are always finding new combinations and characteristics with the Para system – it offers a never-ending source of inspiration and creativity.

The Big Ones

The Paras are parabolic reflectors; they have 24 segments, covered with a high-gloss, tear-resistant textile reflector material. The reflector openings have diameters of 88, 133, 177, 222 and 330 cm. All reflectors are constructed of aluminum, carbon fiber or fiberglass materials resulting in the matching of lighter total weight and utmost durability. The size also determines the resulting light. The Para 330 FB immerses the whole studio in wonderful light. Even over long distances it remains soft, but without ever seeming "flat". The light is identical and homogenous over large spaces allowing the model to move freely and spontaneously. The photographer can even stand directly in front of the light source and vary the distance to the model without influencing the light or throwing a shadow. The Para 222 is easily big enough to create typical Para light, even over medium distances of 5 – 8 m. Like its big brother it can be completely defocused, and it demonstrates substantially the same light characteristics. However, over larger distances it becomes spot-like (harder) earlier, but over short distances provides the entire variation spectrum at an earlier stage.

Light from the Para 177 is gradually approaching that from a giant spot. It is slightly more aggressive (needs a supporting fill-in light more often), but on the other hand is also more interesting on structures and has greater brilliance in the highlights. This version cannot be fully defocused to the same extent, i.e. the centre of the reflector is never completely black. The residual light does reduce the three-dimensional effect somewhat, but at the same time works to counter too hard a light mood. In addition the 177 has the big advantage that it can be realistically used in smaller studios and over shorter distances.

Besides the spectacular light shapers 177, 222 and 330 FB, the Para family includes the 88 and 133 versions. At 6 kg and 8 kg respectively, they are both lightweights. The super-compact design and patented folding mechanism ensures real convenience and enables setting up in seconds. Para 88s and 133s are even more mobile - perfect for outdoor shootings and smaller studios.

With the broncolor Para family, every shooting is a success. Unbelievable light variability, light, compact, fully compatible with flash and continuous lighting – unlimited possibilities at the highest level.
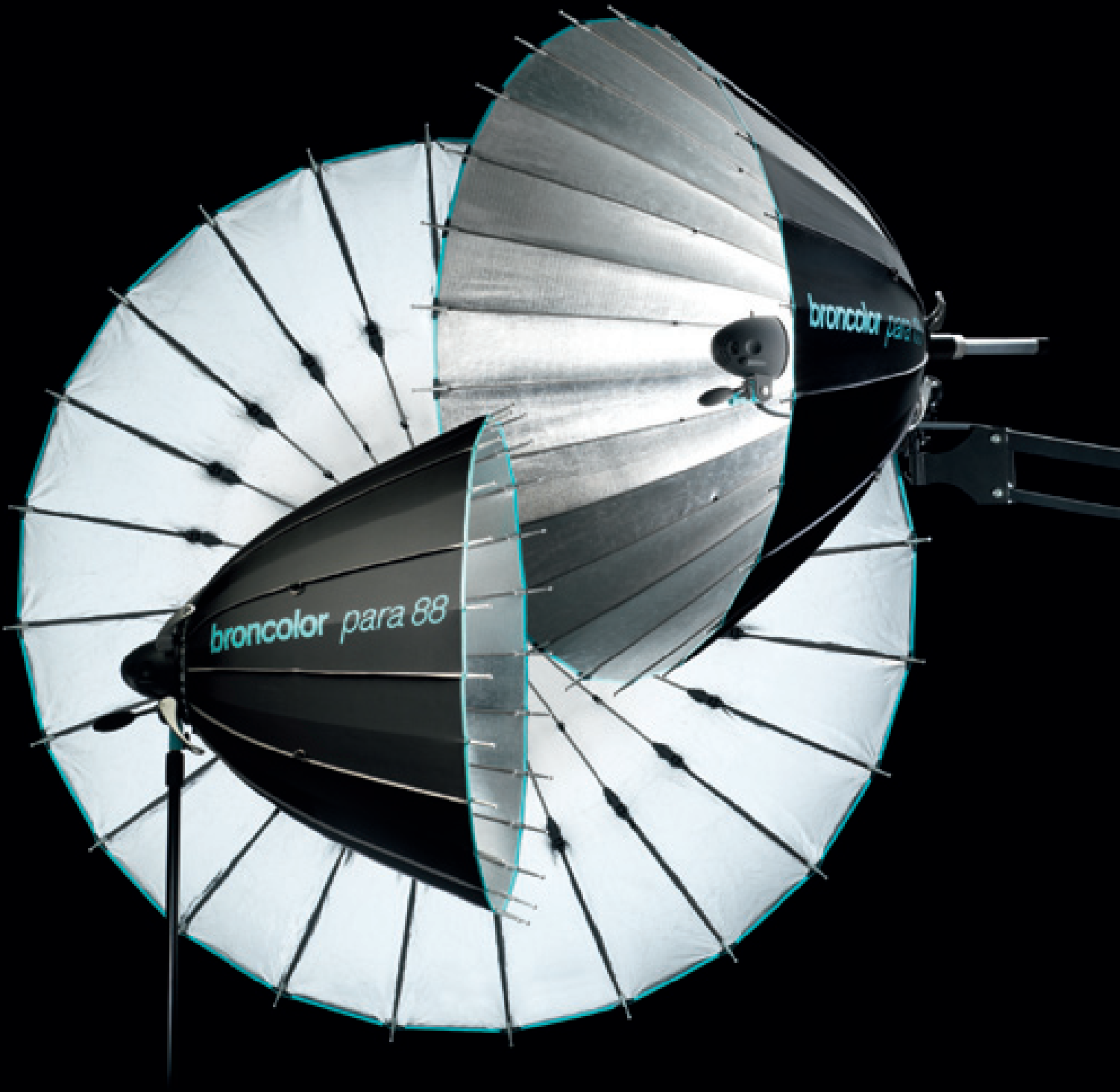
Para 88 reflector | 33.482.00

Allowed max. energy	3200 J rsp. 650 W HMI
F-stop at 2 m / 6 1/2 ft (10 m / 33 ft) distance	64 $^9/_{10}$ (22 $^8/_{10}$)
Inside coating	silver
Dimensions (without stand)	open Ø 85 × 64 cm (34 × 24")
	closed Ø 20 cm × 83 cm (8 × 33")
Weight	2,8 kg (6,2 lbs) without case
Scope of delivery	incl. Flash bag 2

Para 88 Kit without adapter | 33.483.03

Allowed max. energy	3200 J rsp. 650 W HM
F-stop at 2 m / 6 1/2 ft (10 m / 33 ft) distance	focused: 90 (22) , defocused: 64 (11)
Inside coating	silver
Dimensions (without stand)	open with focusing system: Ø 85 cm × 107 cm (33 × 42")
	closed with focusing system: Ø 32 × 107 cm (13 × 42")
Weight	5,5 kg (12,1 lbs) without case
Scope of delivery	Para 88 reflector; Focusing device Para 88/133 with tilt head, suspension rope, flash bag 2 (without Inlay), Accessory bag

Para 133 reflector | 33.550.00

Allowed max. energy	3200 J rsp. 800 W HMI
F-stop at 2 m / 6 1/2 ft (10 m / 33 ft distance)	focused: 64 $^9/_{10}$ (22 $^8/_{10}$)
Inside coating	silver
Dimensions (without stand)	open (without stand) Ø 120 × 77 cm (47 × 30")
	closed Ø 102 × 20 cm (40 × 8")
Weight	6.7 kg (14.7 lbs)
Scope of delivery	incl. Flash bag 2

Para 133 Kit without adapter | 33.551.03

Allowed max. energy	3200 J rsp. 800 W HMI
F-stop at 2 m / 6 1/2 ft (10 m / 33 ft distance)	focused: 90 $^4/_{10}$ (22 $^6/_{10}$)
Inside coating	silver
Dimensions (without stand)	open (without stand) Ø 120 × 77 cm (47 × 30")
	closed Ø 102 × 20 cm (40 × 8")
Weight	10.5 kg (23.1 lbs)
Scope of delivery	F133; Focusing device Para 88/133 with tilt head, suspension rope, flash bag 2 (without Inlay), Accessory bag

Para 177 kit | 33.551.03

Allowed max. energy	3200 J rsp. 1600 W HMI
F-stop at 2 m / 6 ½ ft (10 m / 33 ft distance)	focused: 128 $^3/_{10}$ (45 $^5/_{10}$)
Inside coating	silver
Dimensions (without stand)	open Ø 170 cm × 95 cm (66,9 × 37,4")
	closed Ø 40 cm × 95 cm (15,7 × 37,4")
Weight	9,5 kg (20,9 lbs)
Scope of delivery	Para 177, (Trolley bag foldable)

Para 222 kit | 33.552.03

Allowed max. energy	3200 J rsp. 1600 W HMI
F-stop at 2 m / 6 ½ ft (10 m / 33 ft distance)	focused: 128 $^3/_{10}$ (45 $^5/_{10}$)
Inside coating	silver
Dimensions (without stand)	open Ø 170 cm × 95 cm (66,9 × 37,4")
	closed Ø 40 cm × 95 cm (15,7 × 37,4")
Weight	11,5 kg (25,4 lbs)
Scope of delivery	Para 222, (Trolley bag foldable)

Stands and lamps are not included

Para 330 FB | 33.486.00

Allowed max. energy	3200 J
F-stop at 2 m /	focused: 90 $^8/_{10}$ (32 $^9/_{10}$)
6 $^1/_2$ ft (10 m / 33 ft) distance	
Inside coating	silver
Dimensions (without stand)	open: Ø 330 × 240 cm (130 × 95″)
	closed: 32 × 160 cm (12,6 × 63″)
Weight	12,1 kg (26,6 lbs)
Scope of delivery	incl. suspension ropes
	(without bag)

Stands and lamps are not included

Accessories

Focusing Rod F
Para 88: 33.703.00
Para 133: 33.705.00
Para 177: 33.707.00
Para 222: 33.708.00

Focusing device Para
with tilt head, suspension rope
33.700.00
(can be ordered separately 33.504.00 for
 focusing device and 33.506.00 for tilt head)

Tilt head with crank handle for Para / Para FB
33.477.00
Recommended when using
light devices over 5 kg (11 lbs).

Light grid 40°
Para 88: 33.221.00
Para 133: 33.232.00
Para 177: 33.230.00

Diffuser no. 1 (low*)
Para 88: 33.472.00 / Para 133: 33.293.00
Para 177: 33.287.00 / Para 222: 33.290.00
Para 330 FB: 33.469.00

Diffuser no. 2 (medium*)
Para 88: 33.473.00 / Para 133: 33.294.00
Para 177: 33.288.00 / Para 222: 33.291.00
Para 330 FB: 33.470.00

Diffuser no. 3 (high*)
Para 88: 33.474.00 / Para 133: 33.295.00
Para 177: 33.289.00 / Para 222: 33.292.00

Adapter P
33.489.00
for standard broncolor mount

Adapter D
33.489.01
for broncolor HMI Daylight 200/400

Adapter Profoto
33.489.03

Adapter K5600
33.489.05 for focusing system for Para 88 / 133
33.489.08 for focusing system for Para 177 / 222

Adapter Ringflash
33.489.04

Universal adapter to non-broncolor lamps
33.489.06
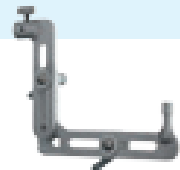
*Diffusion degree

The slightly textured open reflectors are characterised by homogeneous light distribution, although a controlled centre emphasis can be achieved using focusable Pulso G lamps.

The light angle of each open reflector is apparent from its model designation, optical attachments (such as projection attachment) offer a variable coverage angle.

Standard reflector P70
33.107.00
optimised for Pulso G
and Unilite lamps
Ø 23,2 × 18,4 cm (9,1 × 7,2")

Honeycomb grids for P70
33.207.00
set of 3 pieces (fine, medium, coarse)

Honeycomb grid extremely narrow for P70
33.202.00
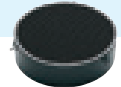
Barn door for P70
33.227.00
with 2 wings, with 2 clips to fix diffusers, filters and masks

Barn door for P70
33.247.00
with 4 wings, with 2 clips to fix diffusers, filters and masks

Colour filters for P70
33.307.00
set of 12 pieces
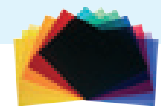
Grey and correcting filters for P70
33.317.00
set of 12 pieces
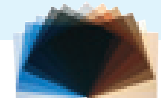
Opal diffusers for P70
33.327.00
set of 12 pieces

Standard reflector P65
33.106.00
optimised for Pulso-Twin
and Pulso 8 lamps
Ø 29,5 × 24 cm (11,6 × 9,4")

Honeycomb grid extremely narrow for P65 and P45
33.211.00

Honeycomb grids for P65, P45 and PAR
33.206.00
set of 3 pieces (fine, medium, coarse)

Narrow angle reflector P45
33.104.00
optimised for Pulso G
and Unilite lamps
Ø 29,5 × 35,3 cm (11,6 × 13,9")
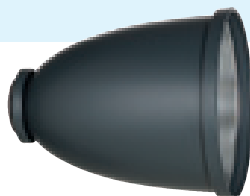
Barn door with 4 wings for P65, P45 and PAR
33.246.00
with 2 clips to fix diffusers, filters and masks
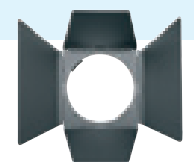
PAR Reflector
33.113.00
light angle 48°, with protecting glass UV, mat
Ø 29,5 × 18,3 cm (11,6 × 7,2")

Colour filters for P65, P45, PAR and background reflector
33.306.00
set of 12 pieces
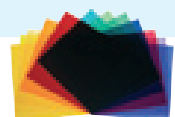
Standard reflector L40
33.115.00
optimized for Siros
400 und Siros 800
Ø 182 × 118 cm (71,6 × 46,4 ")

Honeycomb grids for L40
33.194.00
set of 3 pieces (fine, medium, coarse)
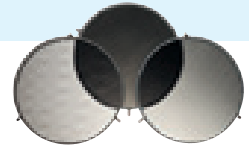
Background reflector
33.114.00
Ø 12,7 / 19 × 30,3 cm (5 / 7,5 × 11,8")
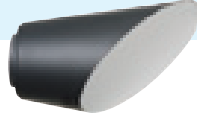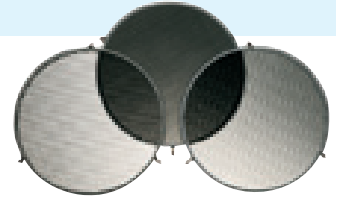
Narrow angle reflector P50
33.105.00
optimised for Pulso-Twin
and Pulso 8 lamps
Ø 34,5 × 39,4 cm (13,6 × 15,5")

Honeycomb grids for P50
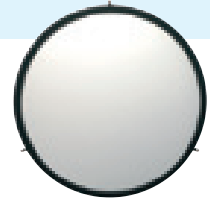33.205.00
set of 3 pieces (fine, medium, coarse)

Softlight reflector P-Soft
33.110.00
silver inside coating
Ø 51.8 × 19,6 cm (20,4 × 7,7")

**Diffuser filter for
Softlight reflector P-Soft
and Beauty Dish**
33.310.00

Beauty Dish reflector
33.111.00
with textile diffusor,
white inside coating,
incl. bag (36.516.00)
Ø 51.8 × 19,6 cm (20,4 × 7,7")

**Honeycomb grid
for Softlight reflector P-Soft
and Beauty Dish**
33.210.00
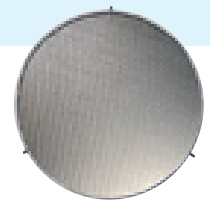
P-Travel reflector
33.103.00
light angle 55°
Ø 19,5 × 9 cm (7,7 × 3,5")

Barn door for P-Travel
33.243.00
with 2 wings
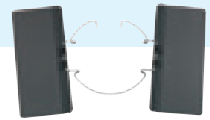
Wide angle reflector P120
33.112.00
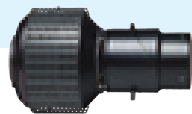Ø 22 × 4,4 cm (8,6 × 1,7")

Conical snoot
33.120.00
Ø 13,8 / 7,6 × 26,25 cm (5,4 / 2,9 × 10,3")

Spot attachment
33.640.00
with mat protecting glass,
6 aperture masks, 1 gobo holder

UV attachment
33.626.00 Ø 18,3 × 14,5 cm (Ø 7,2 × 5,7") 0,74 kg (1,6 lb)
light angle approx. 70°

The broncolor Softboxes are optimised light shapers in 9 different shapes and sizes. Rectangular, square, octagonal and as a strip. These quality, high-performance light shapers extend your flash system and offer countless additional lighting effects. The two diffusers included in the scope of supply enable a soft light with very uniform distribution. With optional light grids and additional diffusers, light control can be made even more precise. The highly-effective internal coating ensures a high efficiency. Coloured markings on the tensioning rods and on the Speedring enable simple, quick erection and dismantling. With appropriate Speedrings, Softboxes can also be used with flash units from other manufacturers.

Softbox

33.560.00	35	×	60	cm	1,1	×	2 ft
33.561.00	60	×	60	cm	2	×	2 ft
33.562.00	60	×	100	cm	2	×	3,3 ft
33.563.00	100	×	100	cm	3,3	×	3,3 ft
33.564.00	30	×	120	cm	1	×	3,9 ft
33.565.00	90	×	120	cm	3	×	3,9 ft
33.567.00	30	×	180	cm	1	×	5,9 ft
33.566.00	120	×	180	cm	3,9	×	5,9 ft

Additional front diffuser for Softbox

33.590.00	35	×	60	cm	1,1	×	2 ft
33.591.00	60	×	60	cm	2	×	2 ft
33.592.00	60	×	100	cm	2	×	3,3 ft
33.593.00	100	×	100	cm	3,3	×	3,3 ft
33.594.00	30	×	120	cm	1	×	3,9 ft
33.595.00	90	×	120	cm	3	×	3,9 ft
33.599.00	30	×	180	cm	1	×	5,9 ft
33.596.00	120	×	180	cm	3,9	×	5,9 ft

Strip mask for Softbox

33.610.00	30	×	120	cm	1	×	3,9 ft
33.611.00	30	×	180	cm	1	×	5,9 ft

Light grid 40° for Softbox

33.580.00	35	×	60	cm	1,1	×	2 ft
33.581.00	60	×	60	cm	2	×	2 ft
33.582.00	60	×	100	cm	2	×	3,3 ft
33.583.00	100	×	100	cm	3,3	×	3,3 ft
33.584.00	30	×	120	cm	1	×	3,9 ft
33.585.00	90	×	120	cm	3	×	3,9 ft
33.567.00	30	×	180	cm	1	×	5,9 ft
33.586.00	120	×	180	cm	3,9	×	5,9 ft

Octabox

33.600.00	Ø 75 cm	2,5 ft
33.601.00	Ø 150 cm	4,9 ft

Additional diffuser for Octabox

33.597.00	Ø 75 cm	2,5 ft
33.598.00	Ø 150 cm	4,9 ft

Light grid 40° for Octabox

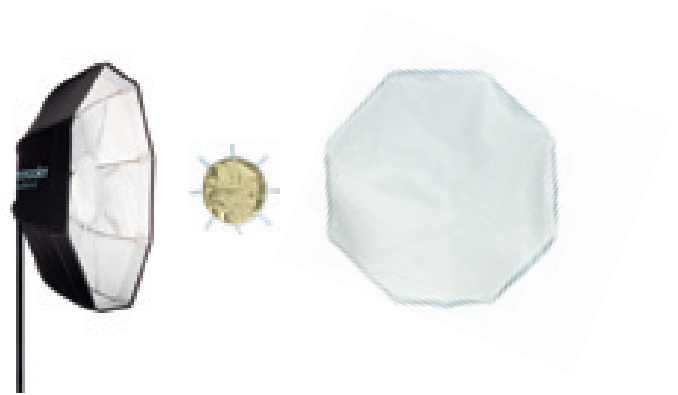|		
33.587.00	Ø 75 cm	2,5 ft
33.588.00	Ø 150 cm	4,9 ft

Beautybox 65

33.568.00	including one double-sided counter reflector (gold/white), one transparent counter reflector and one diffuser

Light grid 40° for Beautybox 65

33.579.00	Ø 65 cm (2,1 ft)

Adapter rings for Softboxes, Octaboxes and Beautybox 65

33.401.00	broncolor
33.401.01	Profoto
33.401.02	Hensel
33.401.03	Elinchrom
33.401.04	Bowens
33.401.07	Canon/Nikon

The classic in lighting composition

broncolor Umbrellas are produced in two sizes and three different versions. Silver, white and translucent, and 85 cm or 105 cm in diameter.

Umbrella silver
33.574.00: Ø 85 cm (2,8 ft)
33.570.00: Ø 105 cm (3,4 ft)

Umbrella transparent
33.575.00: Ø 85 cm (2,8 ft)
33.572.00: Ø 105 cm (3,4 ft)

Umbrella white
33.573.00: Ø 85 cm (2,8 ft)
33.571.00: Ø 105 cm (3,4 ft)
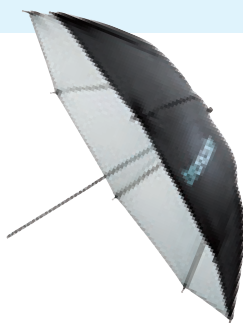
Umbrella reflector for Pulso G and Unilite lamps
33.496.00
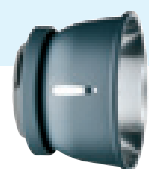
Mini-Satellite

33.152.00

f-stop at 2 m (6 ½ ft) distance,
100 ISO with 3200 J: 180 $^2/_{10}$,
parabolic reflector Ø 60 × 15 cm (23 × 6˝)
incl. protecting glass mat UV,
additional reflector,
light angle adjustment range
18° – 30° (from 3 m | 10 ft distance)

Unilite holder for Mini-Satellite

35.213.00

Satellite Staro

33.151.00

f-stop at 2 m (6 ½ ft) distance,
100 ISO with 3200 J: 45 $^2/_{10}$,
parabolic reflector
Ø 88 × 25 cm (35 × 14˝)
incl. mat Plexiglas diffuser,
bracket

Honeycomb grid for Satellite Staro

33.209.00

broncolor Flooter

32.431.00

max. 6400 J
f-stop at 2 m (6 ½ ft) distance,
100 ISO with 3200 J: (15°) 90 $^2/_{10}$
24 × 46 × 52 cm (9,4 × 18 × 20,5˝)
light angle adjustment range 15° – 70°,
incl. fixing bracket, Fresnel lens

Honeycomb grid for broncolor Flooter

33.208.00
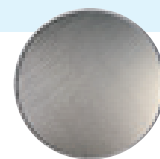
Barn doors for broncolor Flooter

33.225.00
set of 2 pieces
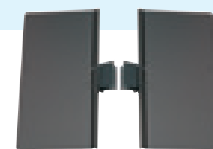
Ringflash C

- Halogen modelling light 200 W
- A honeycomb set (3 pieces) is available for Ringflash C
- High-strength UV-coated flash tube (3200 J)
- Powerful fan cooling and integrated UV-filter
- Operation possible on all mains power supplies worldwide

Ringflash C | 32.462.XX

Flash energy	max. 3200 J
Modelling light (230 V)	200 W halogen: 10 × 20 W / 24 V
F-stop at 2 m (6 ½ ft), 100 ISO	45 ^{1}/$_{10}$ (3200 J) with soft reflector: 45 ^{6}/$_{10}$ (3200 J)
Cooling	stabilised with 2 fans
Dimensions with support (Ø×h×d)	23,1 × 28,6 × 18 cm (9,1 × 11,3 × 7,1")
Weight with cable 5 m (16 ft)	2,7 kg (6 lbs)

Ringflash P for Para 88 / 133 / 177 / 222 and 330 FB

- Halogen modelling lamp 200 W
- High-strength UV-coated flash tube (3200 J) and protecting glass
- Powerful fan cooling and integrated UV-filter
- Operation possible on all mains power supplies worldwide
- In combination with Para FB a perfect front focusing, which enables different light angles and characteristics
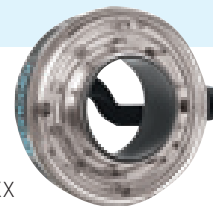
Ringflash P for Para 330 FB | 32.461.XX
Ringflash P for Para 88 / 133 / 177 / 222 | 32.463.XX

Flash energy	max. 3200 J	
Modelling light (230 V)	200 W halogen: 10 × 20 W / 24 V	
f-stop at 2 m (6 ½ ft) distance, 100 ISO with 3200 J	with Para 88:	90 (22)
	with Para 133:	90 (22)
	with Para 177:	128 ^{3}/$_{10}$ (45 ^{5}/$_{10}$)
	with Para 222:	32 ^{5}/$_{10}$ (11 ^{1}/$_{10}$)
	with Para 330 FB:	90 ^{7}/$_{10}$ (32 ^{8}/$_{10}$)
Cooling	stabilised with 2 fans	
Dimensions with support (Ø×h×d)	23,1 × 19,4 × 14 cm (9,1 × 7,6 × 5,5")	
Weight with cable 5 m (16 ft)	2,2 kg (4,9 lbs)	
Support	for Para 88 / 133 / 177 / 222 / 330 FB	

Accessories

Halogen modelling lamp
20 W / 24 V: 34.216.00 (230 V)
20 W / 12 V: 34.217.00 (120 V)
for Ringflash C / Ringflash P

Power reflector for Ringflash C
33.125.00
slightly satiny inner surface coating

Soft reflector for Ringflash C
33.123.00
silver inside coating
incl. UV-coated protecting glass

Beauty reflector for Ringflash C
33.124.00
white inside coating
incl. UV-coated protecting glass

Honeycomb grid for Ringflash C
33.219.00
set of 3 pieces (fine, medium, coarse)

Honeycomb grid for Power reflector
33.189.00

Conversion set for Ringflash C
36.125.00
for conversion to Ringflash P

Conversion set for Ringflash P
36.126.00
for conversion to Ringflash C
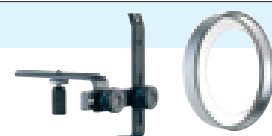
Pulso-Spot 4
32.425.XX (5500 K*)
max. 3200 J
37 × 29 × 25 cm (14,5 × 11,4 × 9,8″)
f-stop at 2 m (6 ½ ft)
distance, 100 ISO: 90
with fixing bracket, flash tube,
modelling lamp, Fresnel lens
(UV coating), light angle
adjustment range 15° – 40°,
cable 5 m (16 ft)
Weight with cable 8,25 kg (18,2 lb)

Flash tube 3200 J
34.344.00

Halogen modelling lamp 300 W / 230 V   34.223.XX
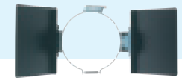with fuse

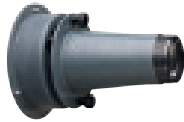**Halogen modelling lamp 250 W / 120 V**   34.221.XX
with fuse

**Barn door with 2 wings
for Pulso-Spot 4**
33.224.00

Optical snoot 150 mm for Pulso-Spot 4
33.620.55 (5500 K*)
150 mm (5,9″)
with 6 masks, gobo holder,
filter with holder

Templates for spot attachment
33.623.00
for Pulso-Spot 4, set of 4 pieces

Gobo set for spot attachment
33.625.00
for Pulso-Spot 4, set of 12 pieces

Sunlite Set for Pulso G / Unilite
33.162.00 (5500 K*)
max. 3200 J, f-stop at 2 m (6 ½ ft) distance, 100 ISO: 22 $^8/_{10}$
comprises:
1 U-shaped special flash tube, 1 clear protecting glass,
1 mat protecting glass, 1 barn door with 4 wings,
for effects similar to UV-sunlight

Litestick
32.451.00 (5500 K*)
max. 3200 J, 5,5 × 57 cm (2,1 × 22,4″), f-stop at 2 m (6 ½ ft) distance,
100 ISO: 45.7 (with reflector), 32 $^7/_{10}$ (without reflector),
with flash tube, removable reflector, stand adapter, cable 3,5 m (11 ½ ft)

Balloon
33.161.00
max. 3200 J
for Pulso G and Unilite lamps, monolights,
acrylic glass sphere, opal, Ø 50 cm (20″),
with black plastic socket and Pulso bayonet

*guarantees neutral colour reproduction

Lightbar 60 Evolution

32.351.XX (5500 K)

Flash energy max. 3200 J

f-stop at 2 m (6 ½ ft) distance, 100 ISO: 32 $^5/_{10}$

with "tunnel-shaped" Plexiglas diffuser,
interchangeable tilt head, fan, 2 flash tubes,
10 modelling lamps 20 W, cable 5 m (16 ft)

Dimensions (l×w×h) 58 × 12 × 13 cm (23 × 5 × 5")

Weight 3,6 kg (8 lbs)

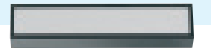**Barn doors for Lightbar /
Striplite 60 Evolution**

33.228.00
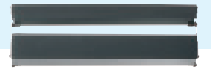
**Plexiglas cap mat,
for Lightbar 60 Evolution**

33.272.00

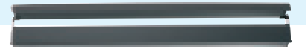**Striplite attachment
for Lightbar 60 Evolution**

33.274.00

Lightbar 120 Evolution

32.353.XX (5500 K)

Flash energy max. 3200 J

f-stop at 2 m (6 ½ ft) distance, 100 ISO: 45 $^5/_{10}$

with "tunnel-shaped" Plexiglas diffuser,
interchangeable tilt head, fan, 4 flash tubes,
20 modelling lamps 20 W, 2 cables 2 × 5 m (16 ft)

Dimensions (l×w×h) 112 × 12 × 13 cm (44 × 5 × 5")

Weight 6,8 kg (15 lbs)

**Barn doors for Lightbar /
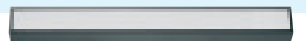Striplite 120 Evolution**

33.229.00

**Plexiglas cap mat,
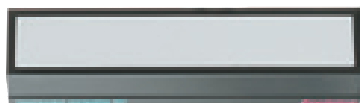for Lightbar 120 Evolution**

33.273.00

**Striplite attachment
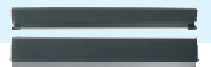for Lightbar 120 Evolution**

33.275.00

Striplite 60 Evolution

32.301.XX (5500 K)

Flash energy max. 3200 J

f-stop at 2 m (6 ½ ft) distance, 100 ISO: 32 $^1/_{10}$

with Plexiglas diffuser, interchangeable tilt head,
fan, 2 flash tubes, 10 modelling lamps 20 W,
cable 5 m (16 ft)

Dimensions (l×w×h) 58 × 12 × 13 cm (23 × 5 × 5")

Weight 3,6 kg (8 lbs)

**Barn doors for Lightbar /
Striplite 60 Evolution**

33.228.00

**Lightbar attachment,
Plexiglas cap mat,
for Striplite 60 Evolution**

33.272.00

**Honeycomb grid
for Striplite 60 attachment**

33.217.00

Striplite 120 Evolution
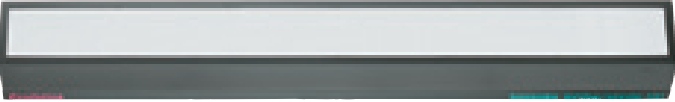
32.303.XX (5500 K)

Flash energy max. 3200 J

f-stop at 2 m (6 ½ ft) distance, 100 ISO: 45

max. 2 × 3200 J, with Plexiglas diffuser,

interchangeable tilt head, fan, 4 flash tubes,

20 modelling lamps 20 W, 2 cables 2 × 5 m (16 ft)

Dimensions (l×w×h) 112 × 12 × 13 cm (44 × 5 × 5¨)

Weight 6,8 kg (15 lbs)

**Barn doors for Lightbar /
Striplite 120 Evolution**

33.229.00

**Lightbar attachment,
Plexiglas cap mat,
for Striplite 120 Evolution**

**Honeycomb grid
for Striplite 120 Evolution**

33.218.00

Accessories

Halogen modelling lamp 20 W / 24 V

34.216.00

for Lightbar / Striplite 60 / 120 Evolution

230 V

Halogen modelling lamp 20 W / 12 V

34.217.0

for Lightbar / Striplite 60 / 120 Evolution

120 V

Boxlite 40

32.341.XX (5500 K)

Flash energy max. 3200 J

f-stop at 2 m (6 ½ ft) distance,

100 ISO: 22 $^3/_{10}$ (1600J)

with 2 flash tubes, 4 modelling lamps,

quick change head, cable 5 m (16 ft)

Dimensions (l×w×h) 30 × 40 × 15 cm (11,8 × 15,7 × 5,9¨)

(measurements without quick change head)

Weight 4,1 kg (9 lbs)

Modelling lamp 40 W for Boxlite 40

34.211.XX

Hazylight-Soft

33.513.00

f-stop at 2 m (6 ½ ft) distance,

100 ISO: 45 (3200J)

with white inside coating,
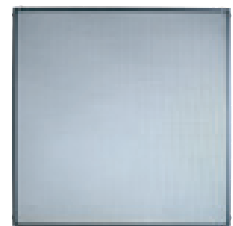
bracket and ring,

for Pulso G and Unilite lamps

Dimensions (l×w×h) 104 × 104 × 43 cm

(40 × 40 × 17¨),

Weight 16,9 kg (37,3 lbs)

Honeycomb grid for Hazylight-Soft

33.215.00

RFS 2.1

Number of work stations	99
Number of frequency channels	40
Frequency	2,4 GHz
Transmission time (transmitter to receiver)	0,425 µs
Operating distance outdoors	up to 200 m (656 ft)
Operating distance in closed rooms	up to 50 m (164 ft)
Max. trigger sequence per second	100
Power supply	RFS 2 transmitter: 3 V CR2450 battery
	RFS 2 receiver: USB power supplier
Dimensions (l×w×h)	6,8 × 3,9 × 2,5 cm (2,7 × 1,5 × 1")
Weight (incl. battery)	43 g (0,09 lb)

RFS 2.1 transmitter kit | 36.133.00　　　1 transceiver, 1 lithium button cell CR 2450, 1 sync cable for camera, 1 sheath

RFS 2.1 receiver kit | 36.134.00　　　1 transceiver, 1 base plate, 1 lithium button cell CR 2450, 1 sync cable for camera,
1 sync cable for flash unit, 1 USB power supplier for receiver-operation (incl. supplier),
1 car charging cable, 1 USB cable, 1 sheath

RFS 2.1 transmitter / receiver kit | 36.135.00　　　2 transceivers, 1 base plate, 1 lithium button cell CR 2450, 1 sync cable for camera,
1 sync cable for flash unit, 1 USB power supplier for receiver-operation (incl. supplier),
1 car charging cable, 1 USB cable, 2 sheaths

	Sender RFS	36.130.00
Comprises	Transmitter with lithium button cell, 1 sync cable
Power regulation	in $^1/_1$ and $^1/_{10}$ f-stops
Number of frequency channels	10
Operational distances: outdoors	30 – 50 m (98 – 164 ft)
Operational distances: in closed rooms	20 – 30 m (65 – 98 ft), possible range up to 300 m (984 ft)
Dimensions(l×w×h)	7,2 × 4,7 × 5,7 cm (2,5 × 1,8 × 2,2")
Weight	55 g (0,12 lbs)

	RFS transceiver	36.131.00
Comprises	Transceiver with base plate, 1 USB connection cable,
	1 sync cable, 1 data carrier with software
Power regulation	in $^1/_1$ and $^1/_{10}$ f-stops
Number of frequency channels	10
operational distances: outdoors	30 – 50 m (98 – 164 ft)
in closed rooms	20 – 30 m (65 – 98 ft), possible range up to 300 m (984 ft)
Dimensions (l×w×h)	8 × 5,6 × 5,2 cm (3,1 × 2,1 × 2")
Weight	105 g (0,23 lbs)
System requirements	requires a serial USB interface
Computer requirements	Apple Macintosh with OS 8.6 or higher (OS 9.1 or higher recommended), OS X,
	approx. 5 MB free memory space, or PC with Microsoft Windows 98 / WinMe / Win2000 /
	Windows XP / Vista, USB interface, approx. 5 MB free memory space

	HotShoe Adapter 2 in 1	36.137.00
Combines any two triggers from this list:	broncolor RFS, RFS 2, RFS 2.1, PocketWizard PlusX,
	Plus III and MultiMax (without any delay)

	IRX 2	36.116.00
	Infrared transmitter with 2 channels for cordless triggering,
	range approx. 50 m (160 ft), with 1 sync cable and 2 batteries 1.5 V

RFS 2 and 2.1 are not compatible with RFS

		Siros 400 (S) / 800 (S)	Litos lamp / MobiLED	Unilite lamp	Pulso G lamp	Pulso-Twin lamp	Picolite with Pulso adapter	Ringflash P lamp
Reflectors	Standard reflector L40	🟢	🟢				🟢	
	Standard reflector P70	🟢	🟢	🟢	🟢 3	🟠	🟢	
	Standard reflector P65	🟢	🟢 1	🟢 1	🟢 3	🟢	🟢	
	Narrow angle reflector P45	🟢	🟢	🟢	🟢 3	🟠	🟢	
	Narrow angle reflector P50	🟢	🟢 1	🟢 1	🟢 3	🟢	🟢	
	Softlight reflector P	🟢	🟢	🟢	🟢	🟢	🟢	
	Beauty Dish reflector	🟢	🟢	🟢	🟢	🟢	🟢	
	Wide angle reflector P120	🟢	🟢	🟢	🟢	🟢	🟢	
	PAR reflector	🟠 2	🟢 6	🟢 6	🟢 6			
	P-Travel reflector	🟢	🟢	🟢	🟢	🟢	🟢	
	Conical snoot	🟢	🟢	🟢	🟢	🟢	🟢	
	UV attachment	🟢 7	🟢 7	🟢 7	🟢 7	🟢 4		
	Umbrella reflector	🟠	🟢	🟢	🟢	🟠		
	Spot attachment	🟠	🟢	🟢	🟢			
	Sunlite-Set		🟢	🟢	🟢			
	broncolor Flooter	🟢	🟢	🟢	🟢	🟢 2		
	Mini-Satellite			🟢 5	🟢	🟢	🟢	
	Satellite Staro	🟢	🟢	🟢	🟢	🟢 4	🟢 1	
	Para 88 reflector / P Kit	🟢 7	🟢	🟢	🟢	🟢	🟢	🟢
	Para 133 reflector / P Kit	🟢 7	🟢	🟢	🟢	🟢	🟢	🟢
	Para 177 / 222	🟢 7	🟢	🟢	🟢	🟢	🟢	🟢
Softboxen	35 × 60	🟢	🟢	🟢	🟢	🟢	🟢 1	
	60 × 60	🟢	🟢	🟢	🟢	🟢	🟢 1	
	60 × 100	🟢	🟢	🟢	🟢	🟢	🟢 1	
	100 × 100	🟢	🟢	🟢	🟢	🟢	🟢 1	
	30 × 120	🟢	🟢	🟢	🟢	🟢	🟠	
	90 × 120	🟢	🟢	🟢	🟢	🟢	🟠	
	30 × 180	🟢	🟢	🟢	🟢	🟢	🟠	
	120 × 180	🟢	🟢	🟢	🟢	🟢	🟠	
Softbox Flex	70 × 70	🟢	🟢	🟢	🟢	🟢	🟢	
Octaboxen	Ø 75	🟢	🟢	🟢	🟢	🟢	🟢 1	
	Ø 150	🟢	🟢	🟢	🟢	🟢	🟢 1	
Beautybox 65	Ø 65	🟢	🟢	🟢	🟢	🟢	🟢	
Special effect lamps	Balloon	🟢	🟢	🟢 8	🟢 8	🟢 8	🟢	
	Hazylight-Soft			🟢	🟢			

🟢 recommended combination
🟠 not recommended combination

1 centre-focus light
2 non-optimized illumination
3 adjustable illumination, heavily centre-focused till uniform
4 up to 3200 J
5 with Unilite holder 35.213.00
6 with mat protecting glass 34.340.00
7 remove protecting glass
8 no modeling light

Basic M stand

35.105.00
Air-cushionened (AC) with
three sections
Adjustable from 91 to 244 cm
(35.8 to 96 "),
Stud 16 mm (0.6 "),
weight 1.5 kg (3.3 lbs)

Super boom

35.140.00
boom arm with counter-weight,
length 210 cm (7 ft),
with holder (35.146.00)
for steel stand
weight 9,9 kg (22 lbs)

Junior stand AC

35.100.00
air cushioned (AC), with 2 height
extensions, adjustable from
90 to 250 cm (3 – 8 ft),
and $^3/_8$" threaded bolt 16 mm,
weight 1,25 kg (2,7 lbs)

Mini-Flamingo stand

35.170.00
stand on casters with platform
for power pack as counter-weight,
crank handle and cable suspension,
arm length 107 cm (3,4 ft),
max. height 260 cm (8,5 ft),
incl. broncolor threaded bolt,
lamp adapter and angle adapter,
weight 24 kg (53 lbs)

Senior stand AC

35.110.00
air cushioned (AC), with 2 height
extensions, adjustable from
110 to 260 cm (3,6 – 8,1 ft),
and $^3/_8$" threaded bolt 16 mm,
weight 2,1 kg (4,6 lbs)

Flamingo stand

35.210.00
stand on casters with platform
for power pack and container
for counter-weight, crank handle
and cable suspension,
arm length 150 cm (5 ft),
max. height 325 cm (10 ft)
weight 43 kg (95 lbs)

Casters for Senior stand

35.111.00
set of 3 pieces

Hazylight stand

35.200.00
stand on casters with platform
for power pack, counter-weight
and cable suspension
arm 85 cm (2,6 ft)
max. height 270 cm (9 ft)
weight 38 kg (84 lbs)

XXL stand AC

35.114.00
air cushioned (AC), with 3 height
extensions as well as
stand casters, adjustable from
144 – 455 cm (4,7 – 14,9 ft),
stand mount 28 mm (1,1"),
$^3/_8$" threaded bolt 16 mm,
weight 8 kg (17,6 lbs)

Striplite holder
35.216.00
for Flamingo stand

Double bolt (A)
35.297.00
Ø 16 mm

Bolt (B)
38989.00
Ø 16 mm $3/8$" et $1/4$" internal thread

Recommended fastening of stand	Para FB 330	Para 177 / 222	Para 88 P kit	Para 88 reflector	Para 133 eflector	Para 133 P kit	Siros 400(S) / 800(S)	Litos MobiLED	Unilite	Lamps Pulso G und Pulso Twin	broncolor Flooter	Pulso-Spot 4	Boxlite 40	Hazylight-Soft	Lightbar / Striplite 60/120 Evolution	Picolite / Litestick
JJunior stand with bolt 16 mm 35.100.00			○	○	○	○	●	●	●	●	○	○	●		●	●
Basic M Stativ with bolt 16 mm 35.105.00							●	●	●	●	●	●	●	●	●	●
Senior stand with bolt 16 mm 35.110.00			●	●	○	○	●	●	●	●	●	●	●		●	●
XXL Stand with bolt 16 mm 35.114.00 and with pod Ø 28 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●
Super boom 35.140.00				○				●	●	●			●		●	●
Mini-Flamingo stand 35.170.00		●	●	●	●	●	● B	B	B	B	B		●			B
Flamingo stand 35.210.00														●		
Hazylight stand 35.200.00														●		
Stands of other brands with pod Ø 16 mm			A	A	A	○ A	A	A	A	A	A	A	A		A	
with pod Ø 28 mm	●	●	●	●	A	●					●	●				

● No further holder necessary   **A-B** Holder necessary   ○ Fastening is not recommended
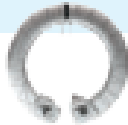
broncolor lamps and monolights are supplied with flash tube
5900 K, halogen modelling lamp, UV-coated protecting
glass 5500 K (guarantees neutral colour reproduction) and
transparent protection cap.
You will find all the spare parts on www.broncolor.com

Siros 400 / 800 / 400S (Page 27)

Flash tube 400/800 J to Siros
34.360.00

Halogen modelling lamp 300 W / 120 V
34.260.00

Protecting glass
34.369.00
5900 K

Unilite, Pulso G (Page 31)

Flash tube 1600 J
34.322.00

Flash tube 3200 J
34.324.00

Halogen modelling lamp 300 W / 120 V
34.225.XX Pulso G / 34.234.XX Unilite
with fuse

Halogen modelling lamp 650 W / 230 V
34.226.XX Pulso G / 34.235.XX Unilite
with fuse

Protecting glass
34.336.00

Protecting glass, mat
34.337.00

Pulso Twin (Page 33)

Flash tube 2 × 3200 J
34.327.00
with fuse

Halogen modelling lamp 650 W / 230 V
34.226.XX
with fuse

Halogen modelling lamp 250 W / 120 V
34.221.XX
with fuse

Picolite (Page 34)

Flash tube 1600
34.308.00

Halogen modelling lamp 150 W / 230 V (Picolite)
34.201.00
with fuse

Halogen modelling lamp 150 W / 120 V (Picolite)
34.202.00
with fuse

Halogen modelling lamp 100 W / 12 V
34.203.00
with fuse

Protecting glass
34.332.00

Protecting glass, mat
34.335.00

Ringflash P / C (Page 46) **Lightbar / Striplite** (Page 48 – 49)

Halogen modelling lamp 20 W / 24 V
34.216.00
230 V

Halogen modelling lamp 20 W / 12 V
34.217.00
120 V

Pulso Spot 4 (Page 47)

Flash tube 3200 J
34.344.00

Halogen modelling lamp 250 W / 120 V   34.221.XX
with fuse

Halogen modelling lamp 300 W / 230 V   34.223.XX
with fuse

Litos (Page 32)

Flash tube 2400 J
34.313.00

Halogen modelling lamp 300 W / 230 V
34.233.XX
with fuse

Protecting glass
34.339.00

Protecting glass, mat
34.340.00

Boxlite 40 (Page 49)

Modelling lamp 40 W
34.211.XX

MobiLED (Page 32)

Flash tube 1600 J
34.308.00

Protecting glass
34.339.00

Protecting glass, mat
34.340.00

Beauty Dish bag
36.516.00
for Beauty Dish and P-Soft
Dimensions: 54 × 22 cm (21,2 × 8,5 ")

Flash bag 1
36.531.00
for Siros
Weight: 1.35 kg (2,2 lbs)
Dimensions:
45 × 20 × 23 cm (17,7 × 7,8 × 9 ")

Outdoor trolley backpack for Senso and Move
36.519.00
Weight: 5 kg (11 lbs)
Dimensions: 56 × 41 × 27 cm (22 × 16,1 × 10,6 ")

Flash bag 2
36.532.00
for Siros, Para 88 and Para 133
Weight: 3.5 kg (6,6 lbs)
Dimensions: 106 × 20 × 24 cm (41,7 × 7,8 × 9,4 ")

Move 1200 L protective bag
36.520.00
Weight 0.9 kg (1,9 lbs)
Dimensions: 24 × 19 × 30 cm (9,4 × 7,5 × 11,8 ")

Flash bag 3
36.533.00
for Siros
Weight: 4.5 kg (8,8 lbs)
Dimensions: 103 × 21 × 37 cm
(40,5 × 8,2 × 14,5 ")

Move 1200L Battery Pouch
36.552.00
for standalone use with continuous
light adapter and MobiLED head
Weight: 0.2 kg (0,4 lbs)
Dimensions: 21 × 14 × 7 cm (8,2 × 5,5 × 2,7 ")

Accessory bag
36.535.00
for Siros
Weight: 1.25 kg (1,25 lbs)
Dimensions: 102 × 14 × 20 cm
(40,1 × 5,5 × 7,8 ")

Sync cable
34.111.00: 5 m (16 ft)
34.112.00: 10 m (32 ft)

Custom length lamp cable (per meter)
34.159.00 Pulso G / Unilite

Lamp extension cable for MobiLED
34.150.00: 3,5 m (11 ft)
34.155.00: 10 m (32 ft)

Trolley bag (foldable)
36.521.00
for Para 177 / 222
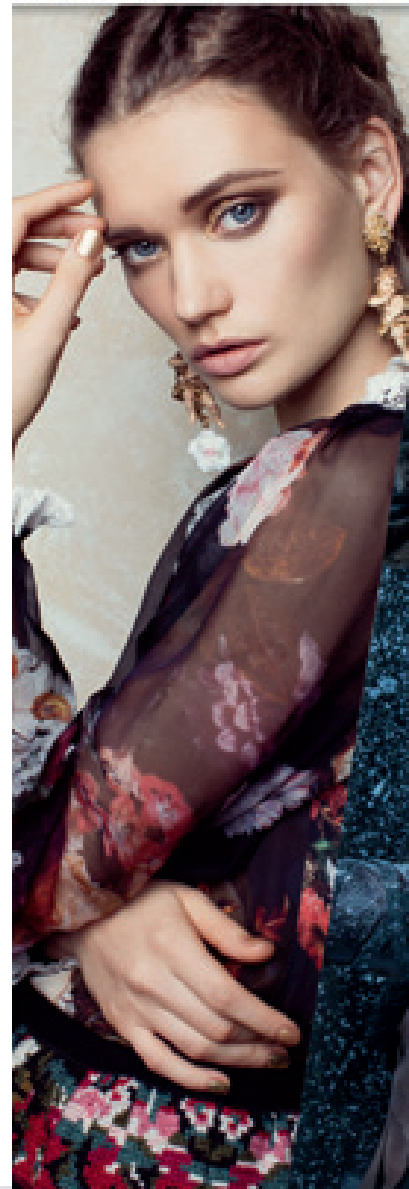Dimensions: 123 × 40 × 42 cm (48,4 × 15,7 × 16,5 ")
Weight: 2.55 kg (4,4 lbs)

Lamp extension cable for lamps up to max. 3200 J
34.151.00: 5 m (16 ft)
34.152.00: 10 m (32 ft)

Extension cable Litos
34.153.00: 5 m (16 ft)
34.154.00: 10 m (32 ft)

LARA JADE   BENJAMIN VON

The Future of Photography before Your Very Eyes

GEN ▶▶NEXT
▌▐ broncolor

The concept behind broncolor's Gen NEXT is easy – broncolor equips the emerging generation of young professional photographers with innovative lighting systems for photography and videography and sets them the following task: convince us with your photos! The creative results are placed on broncolor's Gen NEXT Blog online and are intended serve as inspiration for a new generation of photographers.

Gen NEXT Project
broncolor not only offers young pros the opportunity for professional development, but also the chance to shape the future of photography.

CRISTINA OTERO   GONZAGA MANSO   YULIA GORBACHENKO   LAURI LAUKKANEN   ANITA ANTI

broncolor Workshops – 2 Days Pure Creativity

creative workshop

broncolor offers several two-day workshops for the «People» and «Products» sectors; the basic principle is similar for both courses. While the «Products» workshops concentrate on photographing objects, the «People» workshops deal with the subjects full-body, beauty and portrait photography. On the first day the instructor demonstrates and explains the various lighting techniques with the aid of a photo model. The second day is devoted to group work with one model for each group.

In small groups the very intensive exchange of knowledge and experience between the participants, and mutual inspiration combine to promote a creative atmosphere. The objective of these courses is to introduce the photographers to new possibilities and ideas so that they can react faster, more efficiently and, above all, better to the challenges of their everyday professional lives.

Besides digital small and medium-format cameras, our professional photo studio has the entire range of broncolor flash equipment available. The concept is subject to continual review. You can see the latest versions on our website.
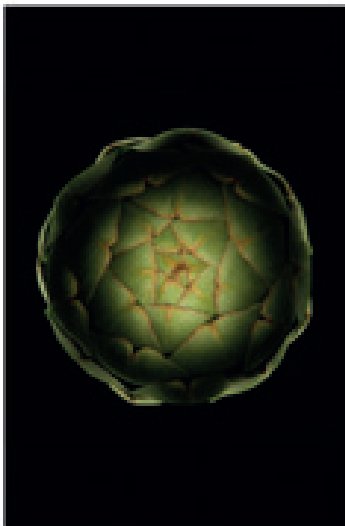
The illumination of the artichoke does show darker areas (almost black) but no shadows. To get a shadowless light, you might want to try a Ringflash which would, however, not work in this situation - the illumination would be very even.
A Picolite with the narrowest grids would be precise enough to light only a very small part of the object, but it would create dominant shadows. So, the Picolite rotates around the artichoke (like a ringflash!) and fires constantly. 10 flashes hit the centre, 20 the periphery. In a dark studio, the camera remains open long enough for all 30 "exposures" to reach the sensor. In this way, the qualities of a Ringflash and a Picolite are combined.

© „how to" by Urs Recher (broncolor)

The picture is shot with a medium format camera and a focal length of 120 mm. The exposure time was 32 s and the aperture f/32.
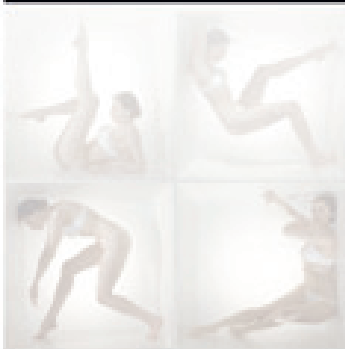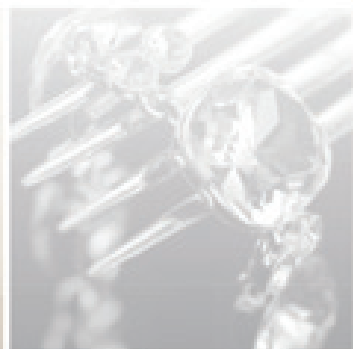
## broncolor's HOW TO – Learning with broncolor was never easier

„How To" explains very simply the numerous possibilities and applications of broncolor light modifiers. In each case the concept consists of a beautiful picture, the lighting set-up, visualised with a graphic diagram, the camera settings, and an explanation of the exposure.

All the examples can be called up on our website under "How To". You can either let yourself be inspired by the examples or, very specifically, search for examples with the appropriate light modifier. Several of the "How To" examples have been filmed to give an even more detailed insight into how that particular image was created. The videos can be called up on the website, or on our Youtube channel.

broncolor publishes new examples at frequent intervals. Follow us on social media, such as Facebook or Twitter; you will then be notified automatically when a new example is available.

http://www.bron.ch/broncolor/how-to
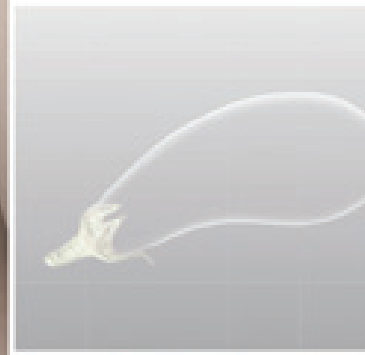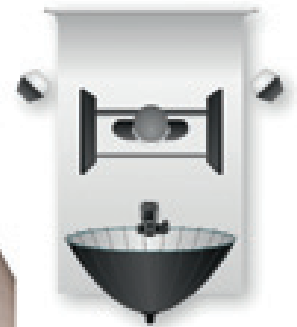
Compatibility, getting started, expansion

The broncolor modular system includes monolights, power packs, lamps and accessories, which are mutually compatible. This facilitates the start with the broncolor system, as you always will be able to enlarge it step by step and adopt it to your individual requirements. Combination with earlier broncolor equipment is virtually unrestricted.

The broncolor system

Output, easy to handle, microprocessor control system, and quick flash series – no matter what criterion makes you buy a flash system. Amongst the broncolor system you will find the units completely in line with your lighting requirements. They let you advance into new applications and succeed with motion shots. Various lamps and a wide selection of reflectors, area lights and accessories give you ample latitude in your visions of lighting and creativity.

Warranty

All broncolor equipment is characterised by high quality standards. All equipment – with the exception of flash tubes, modelling lamps, rechargeable batteries, textiles and parts subject to wear – carry a 2-year warranty.

Ordering power supplies

broncolor equipment can be supplied for various voltages and frequencies. Please replace the last two digits "XX" of the item number by the code number for your rated voltage.

Power supply	Code
100 V 50 Hz	.01
100 V 60 Hz	.02
110 V 50 Hz	.03
110 V 60 Hz	.04
115 V 50 Hz	.05
115 V 60 Hz	.06
117 V 60 Hz	.07
120 V 60 Hz	.08
220 V 50 Hz	.10
230 V 50 Hz	.11
240 V 50 Hz	.12
240 V 60 Hz	.13
220 V 60 Hz	.14
200 V 50 Hz	.15
200 V 60 Hz	.16

Special brochures

Please ask your broncolor representative for detailed special brochures relating to individual broncolor products and services.

A multitude of successful photographers is internationally active and makes demands, at the different shooting locations, to rent a broncolor flashlight system, quickly and without complications. And also, often in combination with a professional rental studio.

Bron Elektronik AG offers, in cooperation with its distributors in the various countries, an international rental service, broncolor worldlight. This network precisely meets those requirements. broncolor flashlight systems can be rented in 34 countries in more than 120 rental locations. In certain countries you also have the possibility of renting a broncolor equipped studio.

broncolor worldlight offers you:

• the possibility to rent the desired broncolor flashlight equipment, quickly and without complications

• to temporarily expand your own flashlight equipment, at short notice – for example for a complex shoot
• to use special effect lamps and light shapers for demanding light effects
• to test broncolor equipment before purchasing
• always the latest and state-of-the-art flash equipment

For further information, please contact your local broncolor dealer or us, directly. A country specific list of our rental studios is available on our website under:

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