BE CREATIVE WITH LIGHT.
AND WITH SYSTEM.

broncolor®
THE LIGHT

Dear reader

The company founded in 1958, has developed during the last 50 years with its three product brands broncolor, VISATEC and kobold to become a „Global Player" on the international market for professional lighting systems. Today, three business areas are being covered: professional photography, broadcast/TV and event. „50 LIGHT-YEARS AHEAD" was chosen as the company's anniversary slogan. This statement reflects also our commitment for the next 50 years.

The challenge of thoroughly addressing your needs and repeatedly surprising you with innovations is what motivates us. And light is our passion. Essentially, we have much in common. You face daily challenges, too. Every new assignment calls for different, refined, and surprising photographic solutions.

That's where we want to offer our support. We tap every single personal contact with your colleagues from all over the world and ask them how we can provide assistance in the form of solutions that will ultimately benefit the entire community in the studio and on location. This valuable input inspires our engineers as they push the technology to its limits with a living suite of broncolor innovations that become the global benchmark.

We are proud to present you in this brochure our high-end product the broncolor Scoro. Already at its launch, this studio flash device gained high recognition internationally. Its features in terms of charging time, flash duration, control range etc. are unequalled. Beyond the spirit of innovation, nothing has changed as regards the legendary quality and dependability

that you have come to expect of broncolor products in your everyday work. Every device that leaves our production facility has undergone exhaustive functionality tests. Where possible, innovations are compatible with previous generation products. Over the years, this systematically implemented philosophy has enriched the broncolor product line to such an extent that it leaves nothing to be desired in terms of operating convenience, longevity, value for money, and reliability. The objective stands.

At www.broncolor.com, you can find detailed information on the entire broncolor product line. You're the judge. Let the following pages acquaint you with the current broncolor product line. We look forward to the continued privilege of serving you – for many years to come.

Jacques Bron

broncolor
THE LIGHT

|| Jens Johnson, USA

© | Jean-Louis Wolff, China

broncolor.
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.

broncolor.
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.

broncolor.
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 loftiest 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.

broncolor.
the world is our home.
Quality generates acceptance. broncolor products have been embraced by the world's most professionally managed studios 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 numerous publications we produce. For details, see pages 57-58, or log on to our website at www.broncolor.com.

Once you have made a decision in favour of broncolor, we provide regular software updates to make sure your product retains its functionality as long as possible, in some cases even extending its capabilities. This approach allows us to actively protect your investment in the interest of a long-term partnership – a partnership that lets you and us join forces to shape the future of light in photography.

How important are joules for exposure?

The amount of light reaching the CCD chip is important. The parameter Ws (watt-seconds) – also called joules – 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 con-version 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 fulfil 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 proportion-ally with the squared distance, the expected f-stop cannot be cal-culated with this method. For flash systems, therefore, the guide number is a purely theoretical value and not a usable parameter. bron-color 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 re-flectors.

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 expo-sures is not identical, colour shifts are inevitable. broncolor flash sys-tems offer precise control of flash voltage. This outstanding repetitive precision is especially important for images using multishot 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 delib-erately variable) colour temperature over the entire control range. For users of digital imaging systems who need completely computer-con-trolled image acquisition, broncolor offers units that can be remotely radio-controlled from a PC or Macintosh.

|| Jean-Louis Wolff, China

The only effective way to define and compare technical equipment is to develop evaluation criteria that take into account both technical and economic aspects.

Charging time

A certain amount of electrical energy from the mains (AC or battery supply) is needed to charge the capacitors of a flash unit. The amount of time required for charging is determined by the capacity of the mains or the battery, and by the storage capacity of the built-in capacitors. The larger or more powerful the flash unit, the longer the time required for charging.

The time between the beginning of charge and the moment the „ready" light illuminates is called the charging time. According to DIN 19040, the ready light can come on when charging is only 70% complete, although varying results may be expected with such indicators. In broncolor units, the ready light comes on only with a 100% charge. Even the specification of the recycling time refers to 100% charge. This is the true time needed to guarantee the accurate repeatability to the photographer.

Flash duration

The flash does not have a constant intensity over its entire duration, but instead decreases as indicated by the curve (see sketch). At the beginning of its discharge, the flash emits high-intensity light, which decreases continuously to zero toward the end. A close examination of the

flash discharge curve reveals that although it possesses a fairly well defined beginning, it does not have a distinct end. Artificial definitions are therefore necessary so that curves of different durations can be compared. ISO* Standard 2827 defines two values for quoting discharge duration:

· The effective flash duration t 0.5 is defined as being the period during which the flash intensity exceeds 50% of its maximum. 50% of the flash power is produced after t 0.5 has been reached.

· The total flash duration t0.1 is defined as being the period during which the flash intensity exceeds 10% of its maximum. Once t0.1 is reached, the flash capacitor voltage drops and becomes too low to maintain a current in the flash tube, the flash ends.

The mathematical meaning of t 0.5 is quite accurate, while the photographic meaning is a little ambiguous. With 50% of the light emitted until t0.5, and still 50% of the power of the flash produced after t 0.5, one can't really say (only with knowledge of t 0.5) how long it needs to produce the total flash

power that impacts the picture sharpness. For this reason the ISO 2827 standard defines t 0.1 as the total flash duration. t 0.1 is significant from the photographic point of view and needs to be considered especially for fashion shootings when the task is to "freeze" motion in the pictures.

The following photographic benchmark test indicates the impact of the insufficient meaning of t 0.5:


t 0.5 = 1/600

t 0.1 = 1/600

With the same t 0.5 and t 0.1 value, the t 0.1 picture definitely has an advantage in comparison with the one above and shows a frozen movement. Photographers will consider t 0.1 figures when professional pictures are expected. Keeping short t 0.1 by maintaining a constant colour temperature is
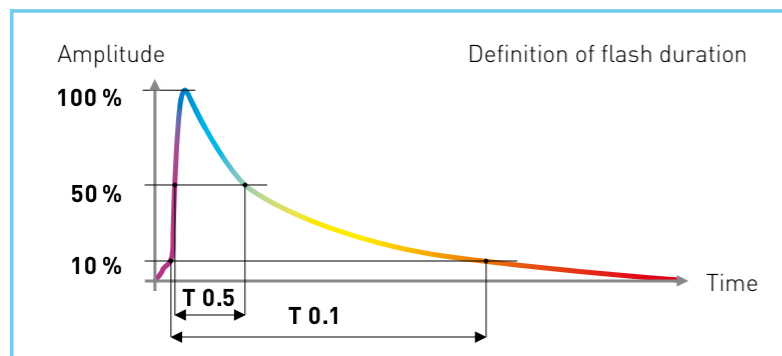
the main challenge for power pack manufacturers. broncolor's exclusive flash cut-off technology brings regarding t 0.1 one more added value to the customer: broncolor's technique reduces dramatically t0.1 durations in comparison to conventional flash unit techniques.

The figure below shows with the blue line the behaviour of the flash with the broncolor technique that consists in maintaining all flash capacitors activated and in cutting the flash off as soon as the chosen power level is reached. The blue area under the blue line corresponds to the selected flash power. The dark line corresponds to the behaviour of conventional flash units. The grey area under the dark line has the same size as the blue broncolor one, but is much longer in time.

broncolor t 0.1
conventional t 0.1
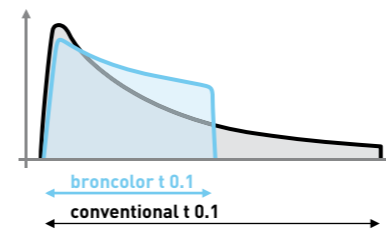
Unbeatable total flash durations up to t 0.1 = 1/12000 s are reached by the latest power pack Scoro. Thanks to this technique, broncolor units have up to 3 times shorter flash durations than those of other manufacturers.

This makes broncolor power packs the favourite units for shooting moving subjects, and provides the photographer with better sharpness and controllability .
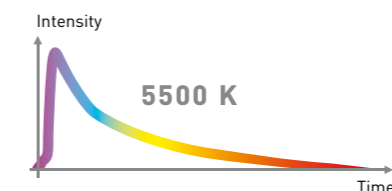
Colour Temperature

Constant colour temperature from one flash to another, and over time, is the first quality criteria of broncolor products. Maintaining the same picture quality over a shooting session is still the most economic way for the photographer to produce his images, despite post-production correc-

tions available today. Having the right colour temperature at the time of exposure avoids post-production corrections. This is the mission understanding of broncolor.

Constant colour temperature at any power level is also necessary in order to fulfil this mission. Again the technological lead of the broncolor cut-off technique offers the best performance for the customer. The 2nd generation cut-off technique, the patented Enhanced Colour Temperature Control (E.C.T.C) allows a perfect centring of the flash colour temperature around the daylight average value of 5500K.

By controlling the amplitude of the blue light part according to the warmer red part allowed by the cut-off, E.C.T.C manages to get within a range of +/- 50K a constant average colour temperature over the whole power setting range.

Intensity

5500 K

Time

Thanks to this exclusive technology broncolor offers up to 10 f-stop power variations with a constant colour temperature. There is no other technology that is able to compete with this performance. Such a constant colour temperature can be reached by others over only 4 f-stops.

The blue line illustrates this unique performance. With broncolor the available settings range from 0.1 to 10 f-stops covered by constant daylight colour temperature. Even the fast flash durations up to 1/5000 s (total flash duration t 0.1) are reached without reduction of the colour temperature performance. The economical solution of constant colour

temperature is now a reality with broncolor.

Kelvin

6000
5500
5000
4500

0.1 1 2 3 4 5 6 7 8 9 10

power f-stop
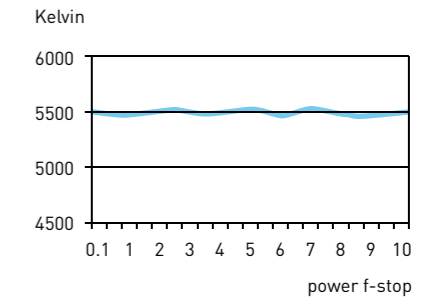
By varying the power level, by doing fast photography, by shooting sequences, by using multiple lamp heads, by working at full power, in any conditions, broncolor assures confidence regarding colour temperature, the professional power pack Scoro assists the photographer.

Amplitude   Definition of flash duration

100 %

50 %

10 %

T 0.5   T 0.1   Time

Now that the technical terms have been explained, it is time to consider which criteria should be applied when evaluating flash units.

Criterion 1:
Perfect photographic results.
This is obviously the first priority. The most important prerequisites are:

· correct, controllable and reproducible colour reproduction by means of colour-neutral and UV-corrected flash tubes,
· stabilised flash intensity that always ensures the same amount of light,
· a "ready" indication at 100% charge,
· an extensive range of lamps and light shapers co-ordinated with the characteristics of the studio flash unit.

Criterion 2:
Service life and quality.
These are also critical factors in terms of quality evaluation. The service life of a flash system is determined by:

· the nature and dimensions of the capacitors and other power components that are used,
· the charging time, i.e. the duty cycle of the capacitors, which are subject to large temperature fluctuations during charging and discharging. The key issue here is that inexpensive components have a shorter service life and an increased risk of failure after even a brief period of use. This stands in contrast to mechanical systems, where the wear rate determines service life.

Criterion 3:
Electrical safety
Any electrical device can theoretically be hazardous if the manu-

facturer does not conscientiously observe every safety regulation. Increasing safety consciousness has naturally led to increasingly detailed and, in some cases, more stringent specifications. Safety is ensured when:

· international safety regulations are complied with,
· controls are protected from mechanical damage by recessed placement and by the use of impact resistant material.

Criterion 4:
Convenience.
For flash units, each user's evaluation will depend on the purpose of the unit and the photographer's subjective criteria. What one person regards as a luxury others will consider a necessity they cannot live without. When it is understood that more convenience usually also means more complexity and a higher price, the usefulness of individual convenience features can then be evaluated more objectively. All the same, there are certain attributes about which everyone agrees, including any characteristic that

· helps shorten working time,
· decreases or eliminates poor results or operator errors, and
· prevents damage.

Convenience right down the line.
broncolor equipment offers even more convenient features. For instance:

· the illuminated silicone push buttons on power packs with LED displays, which can easily

be operated even in a darkened studio, the useful extra functions of the Scoro and Grafit A range, the ability to adjust light delivery precisely to within one-tenth of a f-stop, and much more.
· broncolor lamps offer convenience that photographers will not want to do without.
· a bright halogen modelling lamp, maximised co-ordination between flash tube and modelling light coverage angles, plug-in flash tubes, UV-protecting glasses that guarantee neutral colour reproduction, a patented bayonet system that lets the user replace light shapers with one twist of the wrist, a cooling fan in every lamp and a built-in thermal circuit breaker. Convenience is especially appreciated when it does not carry an extra price tag but constitutes a standard feature in a carefully thought-out design. A simple example: the housings whose projecting edges or handles effectively protect the controls from damage.

Criterion 5:
Performance of the flash tubes.
Generally, the loading degree of a flash tube is determined according to the maximum energy (joules or watt-seconds) for each discharge. A 3200 J flash tube is configured for a maximum discharge of 3200 J. In the last few years, broncolor has developed even more powerful flash systems with shortened charge times. It has therefore become important to be well informed about the maximum load (joules or watt-seconds) of a flash tube during a specific length of time before assessing its performance.

This new approach involves the fact that the lamps and their flash tubes must undergo an exhaustive load test. broncolor takes this factor into account: broncolor flash tubes which are used with high-end flash lighting systems cover the performance demands without any restrictions.

RFS technology
RFS stands for "Radio Frequency System", broncolor's radio-based remote control. The RFS transmitter sends radio signals to trigger and remotely control appropriately equipped broncolor power packs and monolights. In this application, RFS replaces the conventional sync cable and infrared trigger. In combination with a computer and appropriate software, the broncolor RFS transceiver lets the user control and monitor the operation of studio units.

|| Robert Schlatter, Switzerland

High-powered flashlight systems always consist of a separate so-called power pack and one or more lamps. The advantages as compared with monolights are the ability to connect more than one lamp, a large selection of special lamps (e.g. area lamps, spots, etc.) and an extensive range of accessories. There are many models offering the right solution for every lighting task and every budget. broncolor power packs, lamps and accessories are (with a few exceptions) also compatible with current monolights and offer a power range from 3 J to 6100 J of flash energy.

The top-of-the-line Scoro A models offer individual power distribution, i.e. each lamp output can be controlled separately. broncolor's patented ECTC (Enhanced Colour Temperature Control) technology ensures absolute control of colour temperature and flash duration over the entire control range. Numerous programmable extra functions provide a very wide range of capabilities.

Scoro is for the first time a power pack that combines all the best features: Scoro is the fastest unit regarding recycling time, about twice as fast as all others. Scoro offers the shortest flash duration at any power level. Scoro offers the widest setting range with constant colour temperature.

The Verso A power pack is characterised by fast charging time, short flash duration and individual power distribution. The unit can optionally be powered from a rechargeable battery.

The lamp outlets of Topas A precision units are individually controllable. Automatic colour control stabilisation, an extremely wide control range and programmable flash sequences are the outstanding features of Topas A. Nano power packs are the ideal introduction to the broncolor system:

Nano 2 with symmetrical and Nano A4 with asymmetrical power distribution. The Mobil A2R mains-independent power pack offers light weight and a user-friendly plug-in rechargeable battery. The Mobil A2R is compatible with all broncolor flash units and lamps.

With all broncolor studio power packs, the modelling light can be set in proportion to the varying flash output of different power packs, and to the number of lamps. This allows the lighting situation to be evaluated in the correct proportion to the actual flash output. The robust housings protect the electronics during rough everyday use, and fan cooling as well as a safety thermostat prevent damage due to overheating. Modern microprocessortechnology controls the various functions and also monitors the capacitor voltage and modelling light operating voltage. Highly accurate flash voltage control makes broncolor power packs especially suitable for multi-shot digital photography. All models are equipped with a photocell and an infrared receiver, and offer a wide control range at 1/10 f-stop increments. Scoro A, Grafit A, Verso A, and Topas A are all RFS units: power packs fitted with an RFS interface can be triggered and remotely controlled with radio signals.

II Eric Johanson, USA

Because of the laws in some countries, the use of the broncolor radio system is not allowed. Therefore the power packs RFS version are also available in the version "plus" (that means with cable remote control). Apart from the cable connection between the power pack and the computer, the application in comparison with RFS is almost identical. For the version "plus" no RFS transmitter is available.

POWER PACKS

Scoro A2 | Scoro A4
- Automatic stabilisation of the colour temperature (ECTC) over the whole control range and up to 6 f-stops
- 3 lamp outlets, individual power output distribution over 3 channels
- Photocell, infrared and RFS receiver for flash triggering (can be switched off)
- Choice of flash duration and triggering delay
- Individual choice of the colour temperature shift
- Sequences (serial flashes)
- Powerful modelling light with 8 different proportionality levels
- Modern LCD
- Automatic adaptation to the respective mains voltage
- 8 memory functions

Scoro A2S | Scoro A4S
- Automatic stabilisation of the colour temperature (ECTC) over the whole control range and up to 6 f-stops
- 3 lamp outlets, individual power output distribution over 3 channels
- Photocell, infrared and RFS receiver for flash triggering (can be switched off)
- Choice of flash duration and triggering delay
- Individual choice of the colour temperature shift
- Sequences (serial flashes)
- Powerful modelling light with 8 different proportionality levels
- Modern LCD
- Automatic adaptation to the respective mains voltage
- 8 memory functions

		Scoro A2	31.040.XX **Standard mode**	**Scoro A4**	31.042.XX **Standard mode**
Flash energy		1600 J	3200 J
F-stop at 2 m (6 ½ ft.) 100 ISO, reflector P70		64 $^2/_{10}$	90 $^2/_{10}$
Flash duration on max. energy* t 0.1 (t 0.5)		1/265 s (1/760s)	1/132 s (1/390s)
Variation range of flash duration* t 0.1 (t 0.5)		1/150 - 1/8000 s (1/450 - 1/12000 s)	1/85 - 1/8000 s (1/240 - 1/12000 s)
Charging time at	230 V	0,03 - 1,1 s	0,03 - 2,2 s
(min. – max. energy)	120 V	with limitations	with limitations
	100 V	with limitations	with limitations
		Can be switched to slow charging mode	Can be switched to slow charging mode

		Speed mode	**Speed mode**
Flash energy		1200 J	2400 J
F-stop at 2 m (6 ½ ft.) 100 ISO, reflector P70		45 $^9/_{10}$	64 $^9/_{10}$
Flash duration t 0.1 on max. energy*		1/535 s	1/285 s
Variation range of flash duration t 0.1*		1/150 - 1/8000 s	1/85 - 1/8000 s
Charging time at	230 V	0,03 - 0,7 s	0,03 – 1,3 s
(min. – max. energy)	120 V	with limitations	with limitations
	100 V	with limitations	with limitations

Ready display	Visual and audible(can be switched off), signals when 100% of selected energy is reached	
Lamp outlets	3 main connectors with flash cut-off and ECTC	
Power output distribution	Symmetrical and individually asymmetrical	
Controls	Illuminated silicone keyboard, resistant to dust and scratches, wireless remote control of all functions	
Control range	over 9 f-stops	over 10 f-stops
	in $^1/_{10}$ or whole f-stop intervals. Displayed simultaneously in f-stops and joules	
Colour temperature	ECTC technology (Enhanced Colour Temperature Control) for consistent but also deliberately modified colour temperature	
Modelling light	Halogen max. 3 × 650 W at 200 - 240 V / Halogen max. 3 × 300 W at 100 - 120 V	
	Proportional to flash energy and "full" and "low" settings.	
	Proportionality adjustable to other broncolor power packs and monolights	
Additional functions	t 0.1, Sequence, delay, interval, colour temperature, alternation, stroboscopic, memory, etc.	
Flash release	Manual release button, photocell, infrared and RFS receiver (can be switched off), sync cable, IRX 2	
No. 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	8,1 kg (17,9 lbs)	11,3 kg (24,9 lbs)

*Flash duration and energy automatically regulated for optimum colour temperature. Minimum flash duration can be preselected.

		Scoro A2S	31.041.XX **Standard mode**	**Scoro A4S**	31.043.XX **Standard mode**
Flash energy		1600 J	3200 J
F-stop at 2 m (6 ½ ft.) 100 ISO, reflector P70		64 $^2/_{10}$	90 $^2/_{10}$
Flash duration on max. energy* t 0.1 (t 0.5)		1/265 s (1/760s)	1/132 s (1/390s)
Variation range of flash duration* t 0.1 (0.5)		1/150 - 1/8000 s (1/450 - 1/12000 s)	1/85 - 1/8000 s (1/240 - 1/12000 s)
Charging time	230 V	0,02 - 0,6 s	0,02 - 1,3 s
(min. – max. energy)	120 V	0,02 - 1,0 s	0,02 - 2,0 s
	100 V	0,02 - 1,1 s	0,02 - 2,2 s
		Can be switched to slow charging mode	Can be switched to slow charging mode

		Speed mode	**Speed mode**
Flash energy		1200 J	2400 J
F-stop at 2 m (6 ½ ft.) 100 ISO, reflector P70		45 $^9/_{10}$	64 $^9/_{10}$
Flash duration t 0.1 on max. energy*		1/535 s	1/285 s
Variation range of flash duration t 0.1*		1/150 - 1/8000 s	1/85 - 1/8000 s
Charging time	230 V	0,02 - 0,4 s	0,02 - 0,8 s
(min. – max. energy)	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), signals when 100% of selected energy is reached	
Lamp outlets	3 main connectors with flash cut-off and ECTC	
Power output distribution	Symmetrical and individually asymmetrical	
Controls	Illuminated silicone keyboard, resistant to dust and scratches, wireless remote control of all functions	
Control range	over 9 f-stops	over 10 f-stops
	in $^1/_{10}$ or whole f-stop intervals. Displayed simultaneously in f-stops and joules	
Colour temperature	ECTC technology (Enhanced Colour Temperature Control) for consistent but also deliberately modified colour temperature	
Modelling light	Halogen max. 3 × 650 W at 200 - 240 V / Halogen max. 3 × 300 W at 100 - 120 V	
	Proportional to flash energy and "full" and "low" settings.	
	Proportionality adjustable to other broncolor power packs and monolights	
Additional functions	t 0.1, Sequence, delay, interval, colour temperature, alternation, stroboscopic, memory, etc.	
Flash release	Manual release button, photocell, infrared and RFS receiver (can be switched off), sync cable, IRX 2	
No. 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	9,2 kg (20,3 lbs)	12,5 kg (27,6 lbs)

*Flash duration and energy automatically regulated for optimum colour temperature. Minimum flash duration can be preselected.

Verso A2 RFS
• Automatic stabilisation of colour temperature
• High repetitive precision for digital imaging
• Mains-independent operation with Power Dock (accessory)
• Individual power output distribution over 2 channels
• 3 lamp outlets
• Wide control range of the flash energy
• Flash release possible via radio and infrared
• Automatic flash release control
• Illuminated silicone keyboard and LCD-display, resistant to dust and scratches
• Sensibility of the photocell can be reduced
• Additional function flash sequences (flash series)
• Automatic adaptation to the respective mains power

Verso A4 RFS
• Automatic stabilisation of colour temperature
• High repetitive precision for digital imaging
• Mains-independent operation with Power Dock (accessory)
• Individual power output distribution over 2 channels
• 3 lamp outlets
• Wide control range of the flash energy
• Flash release possible via radio and infrared
• Automatic flash release control
• Illuminated silicone keyboard and LCD-display, resistant to dust and scratches
• Sensibility of the photocell can be reduced
• Additional function flash sequences (flash series)
• Automatic adaptation to the respective mains power
• Modification to RFS version possible

	Verso A2 RFS mains-operated │ 31.031.XX	Verso A2 RFS with Power Dock
Flash energy	1200 J	1200 J
f-stop at 2 m (6 1/2 ft) 100 ISO, Refl. P70	45 $^7/_{10}$	45 $^7/_{10}$
Flash duration t 0.1 (t 0.5) at 230 V	1200 J: 1/500 s (1/1500 s)	1200 J: 1/500 s (1/1500 s)
	600 J: 1/900 s (1/2500 s)	600 J: 1/900 s (1/2500 s)
	300 J: 1/1200 s (1/3500 s)	300 J: 1/1200 s (1/3500 s)
Charging time (230 V)	0,2 – 0,8 s	0,3 – 1,5 s (fully charged battery)
Ready display	visual and audible (can be switched off)	
Lamp outlets	3	3
Power output distribution	individual (asymmetrical)	
Control range flash energy	channel 1 (without using channel 2): over 7 f-stops,	
	channel 1 and 2 or channel 2: over 6 f-stops	
Modelling light (230 V)	halogen max. 3 × 650 W	halogen a total of max 650 W
Flash release	RFS transmitter, RFS transceiver (10 channels), IR-receiver and photocell (can be switched off),	
	sync cable, IRX 2, manual release button	
Radio	Operational distance outdoors up to 50 m (164 ft) (possible range up to 300 m/984 ft)	
	Operational distance in closed rooms up to 30 m (98,4 ft) (possible range up to 300 m/984 ft)	
Sync sockets	1	
Dimensions	29 × 18,5 × 31,5 cm (11,4 × 7,3 × 12,4")	
Weight	7,5 kg (16,5 lbs)	
Power requirements	200-240 V / 50 Hz, 110-120 V / 50-60 Hz, 100 V / 50 Hz	
Number of flashes per battery	fast charge: approx. 350 - 38'000	
charge (max./min. power)	normal charge: approx. 450 - 50'000	

	Verso A4 RFS mains-operated │ 31.033.XX	Verso A4 RFS with Power Dock
Flash energy	2400 J	2400 J
f-stop at 2 m (6 1/2 ft) 100 ISO, Refl. P70	64 $^7/_{10}$	64 $^7/_{10}$
Flash duration t 0.1 (t 0.5) at 230 V	2400 J: 1/250 s (1/750 s)	2400 J: 1/250 s (1/750 s)
	1200 J: 1/450 s (1/1250 s)	1200 J: 1/450 s (1/1250 s)
	600 J: 1/600 s (1/1700 s)	600 J: 1/600 s (1/1700 s)
Charging time at fast charge (230 V)	0,3 - 1,7 s	0,3 - 3,2 s (fully charged battery)
Ready display	visual and audible (can be switched off)	
Lamp connections	3	3
Power output distribution	individual (asymmetric)	
Control range of flash energy	channel 1 (without using channel 2): over 7 f-stops	
	channel 1 and 2 or channel 2: over 6 f-stops	
Modelling light (230 V)	halogen max. 3 × 650 W	halogen a total of max 650 W
Flash release	RFS transmitter, RFS transceiver (10 channels), IR-receiver, photocell (can be switched off),	
	sync cable, IRX 2, manual release button	
Radio	Operational distance outdoors up to 50 m (164 ft) (possible range up to 300 m/984 ft)	
	Operational distance in closed rooms up to 30 m (98,4 ft) (possible range up to 300 m/984 ft), IRX 2	
Sync sockets	1	
Dimensions	29 × 18,5 × 38 cm (11,4 × 7,3 × 15")	
Weight	10,4 kg (22,9 lbs)	
Power requirements	200-240 V / 50 Hz, 110-120 V / 50-60 Hz, 100 V / 50 Hz	
Number of flashes per battery	fast charge: approx. 180 - 19'000	
charge (max./min. power)	normal charge: approx. 240 - 25'000	

Accessories

Power Dock for Verso A2/A4 RFS power pack
36.124.00
Enables mains-independent operation with Verso A2 and A4.
To be docked on the bottom of the power pack.
30,8 × 18,5 × 22,9 cm (12 × 7,3 × 9")
12,3 kg | 27 lbs

Accessories

Power Dock for Verso A2/A4 RFS power pack
36.124.00
Enables mains-independent operation with Verso A2 and A4.
To be docked on the bottom of the power pack.
30,8 × 18,5 × 22,9 cm (12 × 7,3 × 9")
12,3 kg | 27 lbs

■ POWER PACKS

Grafit A RFS
- Automatic regulation of flash duration for optimum colour temperature.
- Constant colour temperature (5500 K) over the complete control range (CTC)
- Preselection of flash duration possible
- High repetitive precision for digital imaging
- Individual power output distribution for each lamp outlet
- Flash release possible via radio and infrared
- Remote control via radio
- Automatic flash release control
- Display in f-stops and joules (joules switchable to %)
- Illuminated silicone keyboard and LED-display, resistant to dust and scratches
- Different additional functions and user-friendly menu operation

Topas A RFS
- Automatic stabilisation of colour temperature (Topas A2 and A4)
- Highest repetitive precision for digital imaging
- Individual power output distribution for each lamp outlet
- Wide control range of the flash energy
- Flash release possible via radio and infrared
- Automatic flash release control
- Illuminated silicone keyboard and LED-display, resistant to dust and scratches
- Additional function flash sequences (flash series)
- Automatic adaptation to the respective mains power (Topas A2/A4)

	Grafit A2 RFS | 31.169.XX	Grafit A4 RFS | 31.179.XX
Flash energy	1600 J	3200 J
f-stop at 2 m (6 1/2 ft) 100 ISO, Refl. P70	64 ^{2}/$_{10}$	90 ^{2}/$_{10}$
Flash duration t 0.1 (t 0.5)	1/150 - 1/7500 s (1/450 – 1/12'000 s)	1/80 – 1/7500 s (1/240 – 1/12'000 s)
Charging time (230 V)	0,03 – 1,3 s	0,04 – 2,6 s
Ready display	visual and audible (can be switched off)	
Lamp outlets	3	3
Power output distribution	individual (asymmetrical)	individual (asymmetrical)
Control range flash energy	outlet 1 and 2: over 6 ^{7}/$_{10}$ f-stops, outlet 3: over 4 f-stops, alternatively in ^{1}/$_{10}$ or ^{1}/$_3$ f-stop intervals	
Modelling light (230 V)	halogen max. 3×650 W, proportional, adjustable to other broncolor flash units with different power	
Flash release	RFS transmitter, RFS transceiver, IR-receiver, photocell (can be switched off), manual release button, sync cable, IRX 2	
Sync sockets	1	1
Remote control	by radio from a computer with integrated 10-channel RFS interface, up to 20 units per channel, 4 storage spaces for lighting situations	
Radio	operational distance outdoors up to 50 m (possible range up to 300 m) operational distance in closed rooms up to 30 m (possible range up to 300 m)	
Dimensions	28,8×18×31,2 cm (11,3×7×12,2")	28,8×18×40,8 cm (11,3×7×16")
Weight	8 kg (17,6 lbs)	11 kg (24,2 lbs)
Power requirements	200-240 V / 50 Hz switchable to 120 V/60 Hz */**, 110-120 V / 60 Hz switchable to 230 V/50 Hz* 100 V / 50 Hz switchable to 230 V/50 Hz*	

* longer charging time, no interval-setting possible, ** Charging up to max. 9 instead of 10

	Topas A2 RFS | 31.173.XX	Topas A4 RFS | 31.174.XX	Topas A8 RFS Evolution | 31.183.XX
Flash energy	1600 J	3200 J	6100 J*
f-stop at 2 m (6 1/2 ft) 100 ISO, Refl. P70	64 ^{2}/$_{10}$	90 ^{2}/$_{10}$	128
Flash duration t 0.1 (t 0.5)	1600 J: 1/300 s (1/1000 s) 1000 J: 1/400 s (1/1300 s) 600 J: 1/500 s (1/1600 s)	3200 J: 1/150 s (1/600 s) 2200 J: 1/200 s (1/800 s) 1000 J: 1/300 s (1/1300 s)	6100 J: 1/50 s (1/230 s) 3050 J: 1/150 s (1/600 s) 1525 J: 1/300 s (1/1200 s)
Charging time (230 V)	0,4 – 1,8 s	0,4 – 3,4 s	0,5 – 5,2 s
Ready display	visual and audible (can be switched off)		
Lamp outlets	2	2	4
Power output distribution	individual (asymmetrical)	individual (asymmetrical)	individual (asymmetrical)
Control range flash energy	over 5 f-stops expandable to 7,3 f-stops	over 5 f-stops expandable to 8,2 f-stops	over 4 f-stops expandable to 6 f-stops
Modelling light (230 V)	halogen max. 2 × 650 W, proportional, adjustable to other broncolor flash units with different power		
Flash release	RFS transmitter, RFS transceiver, IR-receiver, photocell (can be switched off), manual release button, sync cable, IRX 2		
Sync sockets	1	1	1
Remote control	by radio from a computer with integrated 10 channel RFS interface, up to 10 units per channel		
Radio	operational distance outdoors up to 50 m (possible range up to 300 m) operational distance in closed rooms up to 30 m (possible range up to 300 m)		
Dimensions	28×16,3×27,2 cm (11,3×6,4×10,7")	28×16,3×32,2 cm (11,3×6,4×12,6")	28×16,3×51,7 cm (11,3×6,4×20,3")
Weight	5,8 kg (12,7 lbs)	8 kg (17,6 lbs)	15,6 kg (34,4 lbs)
Power requirements	200-240 V / 50 Hz**, 110-120 V / 50-60 Hz, 100 V / 50 Hz		

* 6100 with Pulso 8 lamp / 2 x 3050 J (4 x 1525 J) with Pulso G, Unilite or Pulso Twin
** Power requirements apply only to Topas A8 Evolution

POWER PACKS

Nano
- High repetitive precision for digital imaging
- Asymmetrical power distribution (Nano A4)
- Large control range of the flash energy
- Flash release also possible via infrared
- Automatic flash release control
- Keyboard resistant to scratches and LED-display
- Additional flash sequences (flash series)
- Version 230 V is a dual voltage unit

Mobil A2R
(incl. rechargeable plug-in battery and charger)
- High repetitive precision for digital imaging
- Flash release also possible via infrared
- Variable settings of the on time of the modelling light
- Simple exchange of rechargeable battery by plug-in procedure
- Slow charge to protect the battery
- Illuminated silicone keyboard and LED-display, resistant to dust and scratches
- Automatic switch-off of the power pack after selectable waiting time
- Automatic adaptation to the respective mains power
- 3 different power distributions: symmetrical, 70/30% and 80/20%

	Nano 2 | 31.151.XX	**Nano A4** | 31.172.XX
Flash energy	1200 J	2400 J
f-stop at 2 m (6 1/2 ft) 100 ISO, Refl. P70	45 $^7/_{10}$	64 $^7/_{10}$
Flash duration t 0.1 (t 0.5)	1200 J, 100%: 1/200 s (1/650 s) 600 J, 50%: 1/300 s (1/1050 s)	1700 J, 70%: 1/180 s (1/500 s), 2400 J, 100%: 1/150 s (1/400 s), 700 J, 30%: 1/250 s (1/1000 s)
Charging time (230 V)	0,25 – 1,4 s	0,25 – 2,4 s
Ready display	visual and audible (can be switched off)	
Lamp outlets	2	2
Power output distribution	symmetrical	asymmetrical
Control range flash energy	over 4 f-stops expandable to 6 f-stops	over 4 f-stops expandable to 6,7 f-stops
Modelling light (230 V)	halogen max. 2 × 650 W, proportional, adjustable to other broncolor flash units with different power	
Flash release	infrared receiver and photocell (can be switched off), sync cable, IRX 2, manual release button	
Sync sockets	1	1
Dimensions	23,5 × 15,7 × 27 cm (9,2 × 6,2 × 10,6")	28 × 16,3 × 27,2 cm (11 × 6,4 × 10,7")
Weight	5 kg (11 lbs)	6,5 kg (14,3 lbs)
Power requirements	200-240 V / 50-60 Hz, 110-120 V / 50-60 Hz, 100 V / 50 Hz	

	Mobil A2R | 31.011.XX
Flash energy	1200 J
f-stop at 2 m (6 1/2 ft) 100 ISO, Refl. P70	45 $^6/_{10}$
Flash duration t 0.1 (t 0.5)	1 lamp: 1/230 s (1/680 s) 2 lamps: 1/360 s (1/1100 s) by symmetrical distribution
Charging time	quick charge: 0,8 – 2,9 s
Ready display	visual and audible (can be switched off)
Lamp outlets	2
Power distribution	symmetrical / asymmetrical 50/50 %, 70/30 %, 80/20 %
Control range flash energy	over 6 f-stops in 1/10 f-stops
Modelling light	halogen (12 V) max. 2 x 100 W on time setting limited to 20 s to protect the rechargeable battery. If desired , also longer - up to 80 s
Flash release	infrared receiver and photocell (can be switched off), RFS transceiver, manual release button, sync cable, IRX 2
Number sync sockets	1
Dimensions	24 × 15,2 × 29,4 cm (9,4 × 6 × 11,6")
Weight	9,2 kg (20,3 lbs)
Power requirements (charger)	110-120 V, 50/60 Hz
Number of flashes per battery	fast charge: approx. 130 normal charge: approx. 170

Accessories

Charger
36.128.XX
7,5 × 6,5 × 10,5 cm (3 × 2,6 × 4,1")
incl. connection cable for rechargeable battery

Rechargeable plug-in battery
36.127.00
21 × 11,5 × 13 cm (8,3 × 4,5 × 5,1")

Connection cable
34.113.00
for cigarette lighter
for Mobil A2R

Mobil A2R Travel Kit
31.021.XX
consists of:
1 battery-powered Mobil A2R power pack
1 rechargeable plug-in battery
1 Mobilite 2 small lamp
1 charger
1 sync cable, 5 m (16 ft)
1 travel bag

Bag for Mobil A2R Travel Kit
36.512.00

The Minicom monolight is ideal as an introduction to the broncolor system or as a supplementary unit. It offers a short flash duration, large control range and excellent repetitive precision. The sensitivity of the photocell can also be reduced. Minipuls C 200 is a high-power monolight that is perfect for lighting larger sets. Its features include a continuous control range and a visual flash monitor.
broncolor monolights cover the power spectrum from 10 J to 1500 J, and are also available as kits. They are equipped with a powerful halogen modelling light that is proportional when broncolor power packs are used. Thanks to the integrated Pulso bayonet with its release catch, light shapers can be

rotated 360° and exchanged quickly and securely. Accessories are compatible and can be used with broncolor power packs and lamps. All models are fitted with a photocell and an infrared receiver. Minicom is also available in a RFS version, units equipped with a RFS interface can be triggered and remotely controlled with radio signals.

broncolor 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.

Minicom
• High repetitive precision for digital imaging
• Large control range of the flash energy
• Flash release also possible via radio (optional) and infrared
• Automatic flash release control
• Illuminated silicone keyboard and LED-display, resistant to dust and scratches
• Additional flash sequences (flash series)
• Sensitivity of the photocell can be reduced
• Automatic adaptation to the respective mains power
• Dual voltage unit
• Modification to RFS version possible

	Minicom 40	31.405.XX	Minicom 80	31.415.XX
Flash energy	300 J	600 J
f-stop at 2 m (6 1/2 ft) 100 ISO, Refl. P70	22 $^5/_{10}$	32 $^5/_{10}$
Flash duration t 0.1 (t 0.5)	1/900 s (1/2500 s)	1/420 s (1/1500 s)
Charging time (230 V)	0,3 – 0,9 s	0,4 – 1,4 s
Ready display	visual and audible (can be switched off)	
Control range flash energy	over 4 f-stops, in $^1/_{10}$ f-stop intervals, switchable to 5 f-stops	
Modelling light (230 V)	halogen max. 300 W	
Flash release	infrared receiver and photocell (can be switched off), sync cable, manual release button	
Sync sockets	2	2
Dimensions	28,6 × 15,4 × 19,4 cm (11,2 × 6 × 7,6¨)	28,6 × 15,4 × 19,4 cm (11,2 × 6 × 7,6¨)
Weight	3 kg (6,6 lbs)	3,3 kg (7,2 lbs)
Power requirements	200-240 V / 50-60 Hz, 100-120 V / 50-60 Hz	

	Minicom 40 RFS	31.406.XX	Minicom 80 RFS	31.416.XX
Flash release	infrared receiver and photocell (can be switched off), sync cable, manual release button and by radio	
Sync sockets	2	2
Remote control	by radio from a computer with integrated 8-channel RFS interface, up to 8 units per channel, 4 storage spaces for lighting situations	
Operational distance outdoors	up to 30 m / 98,4 ft (possible range up to 300 m/984 ft)	
Operational distance in closed rooms	up to 20 m / 64 ft (possible range up to 300 m/984 ft)	

Accessories

Flash tube 600 J for Minicom 40/80
34.307.00

Protecting glass
34.336.00

Halogen modelling lamp 300 W / 120 V
34.234.XX
with fuse

Protecting glass, mat
34.337.00

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

Bag for Minicom 40 and 80
36.503.00: for 3 monolights and accessories
36.504.00: for 2 monolights and accessories
36.512.00: for 1 monolight and accessories

Because of the laws in some countries, the use of the broncolor radio system is not allowed. Therefore the power packs RFS version are also available in the version "plus" (that means with cable remote control). Apart from the cable connection between the power pack and the computer, the application in comparison with RFS is almost identical. For the version "plus" no RFS transmitter is available.

Minipuls C200

• High repetitive precision for digital imaging
• High flash power
• Large control range of the flash energy
• Flash release also possible via infrared
• Automatic flash release control
• User-friendly controls

Powerbox 900

• A battery solution for mains-independent and mobile work
• makes it possible to work outside in favourable weather conditions
  with studio equipment
• Maximum energy output of 900 J (charge) and 450 W (power supply)
• Suitable for broncolor monolights
• Easy, fast recharge via normal mains supply within 3 hours

Minipuls C200	31.449.XX	
Flash energy	1500 J
f-stop at 2 m (6 1/2 ft) 100 ISO, Reflector P70	64
Flash duration t 0.1 (t 0.5)	1/250 s (1/1000 s)
Charging time (230 V)	0,6 – 2,4 s
Ready display	visual
Control range flash energy	continuous over 4 f-stops
Modelling light (230 V)	halogen max. 650 W
Flash release	infrared receiver and photocell (can be switched off), sync cable, manual release button
Sync sockets	1
Dimensions	49,5 × 12 × 19,5 cm (19,4 × 4,7 × 7,6˝)
Weight	4,5 kg (9,9 lbs)
Power requirements	200-240 V / 50-60 Hz, 110-120 V / 50-60 Hz

Accessories

Flash tube 1500 J
34.310.00

Protecting glass
34.336.00

Halogen modelling lamp 300 W / 120 V
34.225.XX
with fuse

Protecting glass, mat
34.337.00

Halogen modelling lamp 650 W / 240 V
34.226.XX
with fuse

Bags for Minipuls C200
36.507.00: for 2 monolights and accessories
36.508.00: for 3 monolights and accessories

Powerbox 900	56.302.00
Energy	Max 900 J, for charge
Power output	Max 450 W, for power supply
Voltage	230 V / 50 Hz
	120 V / 60 Hz
Ready display	Unit is switched on
Energy outlets	1 for the battery power supply
	1 for the user
Power requirements for broncolor	Powerbox 230 V: Gerät 200-240 V / 50 Hz
and VISATEC units	Powerbox 120 V: Gerät 100-120 V / 50-60 Hz
Power output distribution	After use, 900 J however as maximum
Controls	info LEDs
Number of flashes per fully charged battery	Depends on the monolight utilised and on the power level (see details in table below)
Dimensions (L×W×H)	21,5 ×14 × 20,5 cm (8,5 × 5,5 × 8˝)
Weight	7 kg (15,4 lbs)

Standard values with a new battery:

	Minicom 40	Minicom 80	Minipuls C200
Max. flash energy	300 J	600 J	900 J
Number of flashes without modelling light	240	120	50
Min. flash energy	18 J	37 J	93 J
Number of flashes without modelling light	2900	1450	400

broncolor monolights are also available as kits. The complete
Kits have a large assortment and are also reliable on location,
easily transportable and have powerful light sources.

Minicom Basic Kit
31.490.XX
comprises:
1 Minicom 80, 1 P-Travel reflector, 1 umbrella reflector,
1 umbrella white, 1 sync cable 5 m, 1 bag, 1 stand

Minicom Basic Kit RFS
31.494.XX

Scope of delivery same as Minicom Basic Kit, and in RFS version incl. RFS transmitter

Minicom Classic Kit
31.492.XX
comprises:
1 Minicom 80 and 2 Minicom 40, 2 P-Travel reflectors, 1 barn door for P-Travel,
1 Pulsoflex C 60x100, 1 Sync cable 5 m, 1 bag, 1 stand bag, 3 stands

Minicom Classic Kit RFS
31.496.XX

Scope of delivery same as Minicom Classic Kit, and in RFS version incl. RFS transmitter

Minicom Expert Kit
31.493.XX
comprises:
3 Minicom 80, 2 P-Travel reflectors, 1 barn door for P-Travel,
1 umbrella reflector, 1 umbrella silver, 1 Pulsoflex C 60 x100,
1 IRX 2, 1 sync cable 5 m, 1 bag, 1 stand bag, 3 stands

Minicom Expert Kit RFS
31.497.XX
Scope of delivery same as Minicom Expert Kit,
and in RFS version incl. RFS transmitter (instead of IRX 2 transmitter)

Minicom Travel Kit
31.491.XX
comprises:
2 Minicom 40, 2 P-Travel reflectors,
1 barn door for P-Travel, 1 sync cable 5 m,
1 bag, 1 stand bag, 2 stands

Minicom Travel Kit RFS
31.495.XX

Scope of delivery same as Minicom Travel Kit, and in RFS version incl. RFS transmitter

Minipuls Location Kit 2
31.454.XX
comprises:
2 Minipuls C200
grey protection caps,
2 P-Travel reflectors,
1 sync cable 10 m,
1 bag, 1 stand bag, 2 stands

Minipuls Location Kit 3
31.456.XX
comprises:
3 Minipuls C200
2 P-Travel reflectors,
1 barn door for P-Travel,
1 umbrella reflector, 1 umbrella silver,
1 Pulsoflex C 60 x 100, 1 IRX 2,
1 bag, 1 stand bag, 3 stands

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

The extensive range of lamps meets every photographer's needs for creative light management. The lamp is a 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 reflector, uniform illumination with a defined reflector axis, a good match between the emission characteristics of the flash and modelling light, optimum colour temperature and much more. broncolor Pulso G, Unilite, Pulso Twin and Pulso 8 lamps all have compact dimensions, a bright halogen modelling light, fan cooling, a thermal circuit breaker and plug-in flash tubes. Thanks to the integrated Pulso bayonet with its release catch, light shapers can be rotated 360° and exchanged quickly and securely. Twin lamps allow the energy of two power packs to be concentrated onto one lamp, directing as much as 6100 J to a single Pulso 8 flash tube. The Picolite and Mobilite 2 small lamps use their own accessories and, with a Pulso adapter, can also be fitted with lightweight broncolor reflectors and accessories. For customised lighting, users can select from a wide range of light shapers with accessories. A variety of accessories and stands enhance the handling convenience of all broncolor lamps.

broncolor lamps are supplied with flash tube 5900 K, halogen modelling lamp, UV-coated protecting glass 5500 K (guarantees neutral colour reproduction) and transparent protection cap.

|| Andy Earl, UK

Pulso G 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)
• Front focusing device
• Quick release bracket
• Automatic locking mechanism of the light shaper (rotatable 360°)
• Integrated tilt head with locking lever for an optimal breaking effect
• 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 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

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°)
• Built-in tilt head with locking lever for an optimal breaking effect
• 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 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

Accessories

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

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

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

Halogen modelling lamp 650 W / 240 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 lamp
• Corresponding emission characteristics of flash tubes and modelling light
• Plug-in flash tube with 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
Length lamp cable	2 × 5 m	2 × 16 ft
Dimensions	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

Accessories

Flash tube 2x3200 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

Pulso 8 lamp
• Corresponding emission characteristics of flash tubes and modelling light
• Plug-in flash tube with 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 8 lamp | 32.118.XX

Flash energy	max. 6400 J
Modelling light (230 V)	halogen max. 650 W
Length lamp cable	7,5 m	24 ft
Dimensions	Ø 12 × 31 × 20 cm (4,7 × 10,4 × 7,8")
Weight (with cable)	3,35 kg (7,4 lbs)
Stand support	for bolts 12 mm, $^3/_8$" thread and bolts 16 mm

Accessories

Flash tube 6400 J incl. protecting glass
34.328.00
for Pulso 8

Halogen modelling lamp 650 W / 240 V
34.226.XX
with fuse

Picolite small lamp

- 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 adaptation to the respective mains power supply
  (after exchange of the halogen modelling lamp)

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 cm / inches	Ø 8 × 20,5 × 13,5 cm (3,1 × 8 × 5,3")
Weight kg / lbs (with cable)	1,25 kg (2,7 lbs)
Stand support	for bolts 12 mm, $^3/_8$" thread and bolts 16 mm

Accessories

Flash tube 1600 J
34.308.00

Halogen modelling lamp 150 W / 120 V
34.202.00

Halogen modelling lamp 150 W / 230 V
34.201.00

Protecting glass for Picolite
34.332.00
Protecting glass, mat for Picolite
34.335.00

Mobilite 2 small lamp

- 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

Mobilite 2 small lamp	32.012.00	
Flash energy	max. 1600 J
Modelling light (12 V)	halogen 100 W
Length lamp cable	3,5 m | 11 ft
Dimensions	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

Accessories

Flash tube 1600 J
34.308.00

Halogen modelling lamp 100 W / 12 V
34.203.00
with fuse

Protecting glass for Mobilite 2
34.332.00
Protecting glass, mat for Mobilite 2
34.335.00

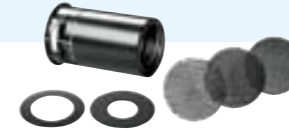**Barn door with 4 wings**
33.244.00

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˚
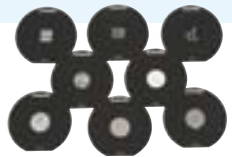
Projection attachment
33.641.00
100 mm, with mat protecting glass,
3 aperture masks, 4 integrated templates

Gobo set 8 pieces
33.642.00
for projection attachment

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

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

Stand clamp for twin articulated arm
32.912.00

Lamp extension cable
34.150.00
3,5 m (11 ft)

**Picolite/Mobilite 2 adapter
for Satellite Evolution**
35.214.00

The slightly textured open reflectors are characterised by homogeneous light distribution, although a controlled centre emphasis can be achieved using focussable 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)

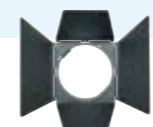**Honeycomb grid extremely
narrow for P70**
33.202.00

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

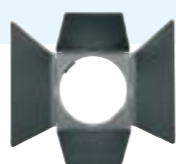**Narrow angle reflector P45**
33.104.00
optimised for Pulso G
and Unilite lamps
Ø 29,5 × 35,3 cm (11,6 × 13,9˝)

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

**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

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
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
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˝)

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

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

UV attachment
Ø 183 × 145 mm (Ø 7,2 × 5,7˝)
0.74 kg (1.6 lb)
Lamp angle approx. 50°

broncolor offers two types of softboxes
The compact Pulsoflex C series and the more extensive Pulsoflex EM range, comprising softboxes with wide projecting rims that help direct the light more precisely and limit spillage. Both models provide almost completely homogeneous illumination, which in some sizes can be refined even further with intermediate diffusers. Here as well, a centre emphasis can be achieved and accurately controlled by using focussable Pulso G lamps.

Pulsoflex EM (Easy Mount)

33.406.00	50	×	50	cm	20	×	20˝
33.407.00	80	×	80	cm	32	×	32˝
33.408.00	110	×	110	cm	44	×	44˝
33.415.00	35	×	60	cm	14	×	24˝
33.416.00	55	×	95	cm	22	×	38˝
33.417.00	80	×	140	cm	32	×	56˝
33.424.00	30	×	110	cm	12	×	44˝
33.425.00	40	×	155	cm	16	×	62˝

Incl. diffuser, rods and transport bag, excl. adapter ring
With broncolor HMI F575.800 lamps from edge length 80 cm (32˝) only.

Pulsoflex C

33.441.00	70	×	70	cm	28	×	28˝
33.442.00	100	×	100	cm	40	×	40˝
33.445.00	150	×	150	cm	60	×	60˝
33.443.00	60	×	100	cm	24	×	40˝
33.444.00	35	×	120	cm	14	×	48˝
33.446.00	80	×	140	cm	32	×	56˝

Incl. diffuser, rods and transport bag, excl. adapter ring
With broncolor HMI F575.800 lamps from edge length 80 cm (32˝) only.

Accessories

Adapter ring for Pulsoflex C/EM
33.400.00
(not for broncolor HMI F575.800 lamp)

Adapter ring for Pulsoflex C/EM for operation with broncolor HMI F575.800 lamp
43.100.00
with integrated reflector, for increased centred light concentration
(can be defocused with the Pulso G lamp)

**Intermediate diffuser
for Pulsoflex EM 80 × 80**
33.410.00

The classic lighting device
broncolor offers umbrellas in two sizes (82 cm and 102 cm diameter). Umbrellas are available in three different versions: transparent and with white or silver coating.

Umbrella silver
33.459.00: Ø 82 cm (32˝)
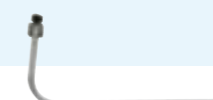33.452.00: Ø 102 cm (40˝)

Umbrella white
33.460.00: Ø 82 cm (32˝)
33.453.00: Ø 102 cm (40˝)

Umbrella transparent
33.454.00
Ø 102 cm (40˝)

Accessories

Umbrella bracket for Pulso-Twin, Pulso G and Pulso 8 lamps with standard reflector P70
33.490.00

Umbrella reflector for Pulso G and Unilite lamps and for Minicom
33.496.00

SPECIAL REFLECTORS

Para 170 FB
33.484.00
3200 J
f-stop at 2 m / 6 $^1/_2$ ft. (10 m / 33 ft)
distance, focused: f 128 $^3/_{10}$ (45 $^5/_{10}$),
dimensions (without stand)
open Ø 170 × 125 cm (67 × 49")
closed Ø 28 × 95 cm (11 × 37")
weight 8,7 kg (19 lbs)
incl. bag, suspension ropes

Para 220 FB
33.485.00
3200 J
f-stop at 2 m / 6 $^1/_2$ ft. (10 m / 33 ft)
distance, focused: f 128 $^3/_{10}$ (32 $^8/_{10}$),
dimensions (without stand)
open Ø 220 × 160 cm (86,6 × 63")
closed Ø 28 × 120 cm (11 × 47")
weight 9,1 kg (20 lbs)
incl. bag, suspension ropes

Para 220 Soft FB
33.487.00
3200 J
f-stop at 2 m / 6 $^1/_2$ ft. (10 m / 33 ft)
distance, focused: f 32 $^5/_{10}$ (11 $^1/_{10}$),
dimensions (without stand)
open Ø 220 × 160 cm (86,6 × 63")
closed Ø 28 × 120 cm (11 × 47,3")
weight 10,8 kg (23,8 lbs)
incl. bag, suspension ropes

Para 330 FB
33.486.00
3200 J
f-stop at 2 m / 6 $^1/_2$ ft. (10 m / 33 ft)
distance, focused: f 90 $^8/_{10}$ (32 $^9/_{10}$),
dimensions (without stand)
open Ø 330 × 240 cm (130 × 95")
closed 32 × 160 cm (12,6 × 63")
weight 12,1 kg (26,6 lbs)
incl. suspension ropes
(without bag)

Stands are not included

Accessories

Diffuser no. 1 (small*)
Para 170 FB: 33.479.00
Para 220 FB: 33.464.00
Para 330 FB: 33.469.00

Diffuser no. 2 (medium*)
Para 170 FB: 33.480.00
Para 220 FB: 33.465.00
Para 330 FB: 33.470.00

Diffuser no. 3 (large*)
Para 170 FB: 33.481.00
Para 220 FB: 33.466.00
Para 330 FB: 33.471.00

Extension adapter for Para FB
33.476.00

Tilt head with crank handle for Para FB
33.477.00

Bag for 3 diffusers for Para FB
36.551.00

*Diffusion degree

Mini-Satellite
33.152.00
f-stop at 2 m (6 ½ ft.) distance,
100 ISO with 3200 J: f 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 Evolution
33.150.00
f-stop at 2 m (6 ½ ft.) distance,
100 ISO with 3200 J: f 180 $^7/_{10}$,
parabolic reflector Ø 88 × 25 cm (35 × 14")
incl. bracket, protecting glass mat UV,
additional reflector, creates very
concentrated light,
light angle adjustment range
18°- 30° (2 m | 6 ½ ft distance)
10°- 20° (3 m | 10 ft distance)

Satellite Staro
33.151.00
f-stop at 2 m (6 ½ ft.) distance,
100 ISO with 3200 J: f 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: f (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

SPECIAL EFFECT LAMPS

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	f: 45 $^1/_{10}$ (3200 J) with soft reflector: f: 45 $^6/_{10}$ (3200 J)
Cooling	stabilised with 2 fans
Dimensions with support (W × H × D)	23,1 × 28,6 × 18 cm (9,1 × 11,3 × 7,1″)
Weight with cable 5 m / 16.4 ft	2,7 kg (6 lbs)

Ringflash P (for Para 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	32.461.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 170 FB: 128 $^2/_{10}$ (45 $^4/_{10}$)
	with Para 220 FB: 128 $^2/_{10}$ (32 $^7/_{10}$)
	with Para Soft 220 FB: 32 $^8/_{10}$ (11 $^1/_{10}$)
	with Para 330 FB: 90 $^7/_{10}$ (32 $^8/_{10}$)
Cooling	stabilised with 2 fans
Dimensions with support (W × 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 170 FB / 220 FB / Soft 220 FB / 330 FB

Accessories

Halogen modelling lamp
20 W/ 24 V: 34.216.00 (200-240 V)
20 W/ 12 V: 34.217.00 (100-120 V)
for Ringflash C / Ringflash P

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

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

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

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: f: 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)

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

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: f 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 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: f:45.7 (with reflector), f 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 resp. max. 575 W with HMI,
 for Pulso G and Unilite lamps, monolights and HMI F575.800,
acrylic glass sphere, opal, Ø 50 cm (20″),
with black plastic socket and Pulso bayonet

Flash tube 3200 J
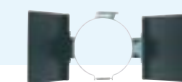34.344.00

Halogen modelling lamp 300 W / 220 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

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

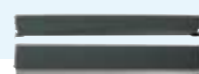*guarantees neutral colour reproduction

Lightbar 60 Evolution
32.351.XX (5500 K)
max. 3200 J
f-stop at 2 m (6 ½ ft) distance, 100 ISO: f 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 58 × 12 × 13 cm (23 × 5 × 5˝)
Weight 3,6 kg (8 lbs)

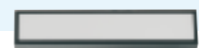**Barn doors for Lightbar/
Striplite 60 Evolution**
33.228.00

**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)
max. 2 × 3200 J,
f-stop at 2 m (6 ½ ft) distance, 100 ISO: f 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 112 × 12 × 13 cm (44 × 5 × 5˝)
Weight 6,8 kg (15 lbs)

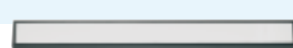**Barn doors for Lightbar/
Striplite 120 Evolution**
33.229.00

**Plexiglas cap mat,
for Lightbar 120 Evolution**
33.273.00

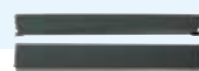**Striplite attachment
for Lightbar 120 Evolution**
33.275.00

Striplite 60 Evolution
32.301.XX (5500 K)
max. 3200 J
f-stop at 2 m (6 ½ ft) distance, 100 ISO: f 32 $^1/_{10}$,
with Plexiglas diffuser, interchangeable tilt head,
fan, 2 flash tubes, 10 modelling lamps 20 W,
cable 5 m (16 ft)
Dimensions 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)
f-stop at 2 m (6 ½ ft) distance, 100 ISO: f 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 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**
33.272.00

**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
200-240 V

Halogen modelling lamp 20 W / 12 V
34.217.0
for Lightbar/Striplite 60/120 Evolution
100-120 V

Boxlite 40
32.341.XX (5500 K)
max. 1600 J
f-stop at 2 m (6 ½ ft) distance,
100 ISO: f 22 $^3/_{10}$ (1600J)
with 2 flash tubes, 4 modelling lamps,
quick change head, cable 5 m (16 ft)
Dimensions 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: f 45 (3200J)
with white inside coating,
bracket and ring,
for Pulso G and Unilite lamps
Dimensions 104 × 104 × 43 cm
(40 × 40 × 17˝),
Weight 16,9 kg (37,3 lbs)

Honeycomb grid for Hazylight-Soft
33.215.00

RFS transmitter

36.130.00
Transmitter with Lithium button cell, 1 sync cable, 10 channels,
with power regulation in $1/1$ and $1/10$ f-stops.

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 7,2 × 4,7 × 5,7 cm (2,5 × 1,8 × 2,2")
Weight 55 g (0,12 lbs)

RFS transceiver

36.131.00
Transceiver with base plate,
1 USB connection cable, 1 sync cable, 1 data carrier with software,
10 channels, with power regulation in $1/1$ and $1/10$ f-stops.

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 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

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

Remote control Servor d

36.204.00
for Grafit A to control main functions: on/off, power selection,
modelling light on/off, photocell/IR on/off, individual control of lamps,
4 memory functions, test flash, without battery 9 V
Dimensions 12 × 6,5 × 22 cm (4,7 × 2,6 × 8,7")

Accessories

Battery 9V

36.409.00
for Servor d

Ni-Cd battery 9V

36.419.00
for Servor d

		Monolight Minipuls C200	Monolight Minicom 40/80	Unilite lamp	Pulso G lamp	Pulso-Twin lamp	Pulso 8 lamp	Picolite/Mobilite 2 with Pulso adapter	broncolor HMI F575.800
Reflectors	Standard reflector P70	●	●	●	● 4	○	○	●	● 5
	Standard reflector P65	● 1	● 1	● 1	● 4	●	●	●	● 5
	Narrow angle reflector P45	●	●	●	● 4	○	○	●	3
	Narrow angle reflector P50	● 1	● 1	● 1	● 4	●	●	●	● 4
	Softlight reflector P	●	●	●	●			●	●
	Beauty Dish reflector	●	●	●	●			●	
	Wide angle reflector P120	●	●	●	●	●	●		●
	PAR Reflector	○	○	○	●				●
	P-Travel	●	●	●	●	●	●	●	●
	Conical snoot	●	●	●	●	●	●	●	
	UV attachment	●	●	●	●	● 7	● 7		
	Umbrella reflector	●	●	●	●				
	Spot attachment	●	●	●	●				
	Sunlite-Set	●	●	●	●				
	broncolor Flooter	●	●	●	●	● 3	●		●
	Satellite Evolution	● 11	● 11		●			● 8	●
	Mini-Satellite			● 12		●			●
	Satellite Staro	●	●	●	●	● 7	● 7	● 1	10
Pulsoflex EM	50 x 50	●	●	●	●	●	●	● 1	
	80 x 80	●	●	●	●	●	●	● 1	9
	110 x 110	●	●	●	●	●	●		9
	35 x 60	●	●	●	●	●	●	● 1	
	55 x 95	●	●	●	●	●	●	● 1	
	80 x 140	●	●	●	●	●	●		9
	30 x 110	●	●	●	●	●	●		
Pulsoflex C	40 x 155	●	●	●	●	●	●		
	70 x 70	●	●	●	●	●	●	● 1	
	100 x 100	●	●	●	●	●	●	● 1	9
	150 x 150	●	●	●	●	●	●		9
	60 x 100	●	●	●	●	●	●	● 1	
	80 x 140	●	●	●	●	●	●		9
	35 x 120	●	●	●	●	●	●		
Special effect lamps	Balloon	●	●	●	●	●	●	●	●
	Hazylight-Soft			●	●				●

● recommended combination
○ not recommended combination

1 centre-focus light
2 uniform illumination
3 non-optimized illumination
4 adjustable illumination, heavily centre-focused till uniform
5 adjustable illumination, centre-focused till uniform
6 only with additional reflector 43.101.00
7 up to 3200 J
8 with mat protecting glass and adapter 35.214.00
9 only with adapter ring 43.100.00
10 use without Plexiglas diffuser
11 with mat protecting glass and adapter 35.229.00
12 with Unilite holder 35.213.00

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
1,25 kg (2,7 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
2,1 kg (4,6 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
8 kg (17,6 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
24 kg (53 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)
43 kg (95 lbs)

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

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)
38 kg (84 lbs)

Casters for Senior stand
35.111.00
set of 3 pieces

Bag for stands, empty
for 3 Junior stands
36.551.00

Bag for stands, empty
for 3 Senior stands
36.552.00

Threaded nipple (A)
25.200.00
with $^3/_8$″ external and internal thread
for stands of other brands

Threaded bolt (B)
25.210.00
with $^3/_8$″ external thread
for Junior and Senior stand

Pulso lamp holder (C)
35.146.00
for Super-boom

Hazylight-Soft holder (D)
35.215.00
for Flamingo stand

Striplite holder (E)
35.216.00
for Flamingo stand

Bolt for quick change head (F)
35.298.00
with $^3/_8$″external and internal thread
for stands of other brands, broncolor fit

Bolt for quick change head (G)
35.299.00
for stands of other brands, Foba fit with cone inset
of 18 mm diameter and $^3/_8$″ external and internal thread

Threaded bolt (H)
35.409.00
with $^3/_8$″ external and internal thread
for Mini-Hazylight stand for Unilite and Pulso lamps

Threaded bolt (I)
35.504.00
with $^3/_8$″ external thread
for pantograph for Unilite and Pulso lamps

Threaded bolt (K)
35.505.00
with $^3/_8$″ external thread for pantograph
for Pulso-Spot 4 and broncolor Flooter

Double bolt (M)
35.297.00
Ø 16 mm

Threaded bolt for Junior/Senior stand
35.507.00

Schedule

Schedule	Unilite	Minicom 40/80 Minipuls C200	Lamps Pulso G und Pulso Twin	broncolor HMI F575.800	broncolor Flooter	Pulso-Spot 4	Boxite	Hazylight-Soft	Lightbar/Striplite 60 Evolution	Lightbar/Striplite 120 Evolution	Satellite Evolution and Staro	Picolite / Mobilite 2 Litestick	Para FB
Junior stand 35.100.00	●	●	●	●	○	○	●		●	○	○	●	○
Senior stand 35.110.00	●	●	●	●	●	●	●		●	●	○	●	○
Compuls stand 35.113.00		●	●	●	●	●	●	○	●	●	●	●	●
Super boom 35.140.00			C	C			C		C	○		C	
Mini-Flamingo stand 35.170.00	H	H	H	H	H	●					●	H	●
Flamingo stand 35.210.00							D						
Hazylight stand 35.200.00							●						
with 3/8″ thread — Stands of other brands	F	F	F	F	F	F	F		F	F	F	F	
with cone inset Ø 16 mm	I, M	I, M	I, M	I	I	I	I		I, M	I, M	I	I, M	
with cone inset Ø 18 mm	G	G	G	G	G	G	G		G	G	G	G	G
with cone inset Ø 28 mm					●	●	●				●		●

● No further holder necessary   A-M Necessary holder   ○ 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.

Minicom 40/80 (Page 25)

Flash tube 600 J
34.307.00

Halogen modelling lamp 300 W / 120 V
34.234.XX
with fuse

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

Protecting glass
34.336.00

Protecting glass, mat
34.337.00

Minipuls C200 (Page 26)

Flash tube 1500 J
34.310.00

Halogen modelling lamp 300 W / 120 V
34.225.XX
with fuse

Halogen modelling lamp 650 W / 240 V
34.226.XX
with fuse

Protecting glass
34.336.00

Protecting glass, mat
34.337.00

Unilite, Pulso G (Page 32)

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 / 240 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
incl. protecting glass

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

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

Pulso 8 (Page 33)

Flash tube 6400 J
34.328.00
incl. protecting glass

Halogen modelling lamp 650 W / 240 V
34.226.XX
with fuse

Picolite (Page 34)

Flash tube 1600 J
34.308.00

Halogen modelling lamp 150 W / 230 V
34.201.00

Halogen modelling lamp 150 W / 120 V
34.202.00

Protecting glass
34.332.00

Protecting glass, mat
34.335.00

Mobilite 2 (Page 34)

Flash tube 1600 J
34.308.00

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 42) Lightbar/Striplite (Page 44-45)

Halogen modelling lamp 20 W / 24 V
34.216.00
200-240 V

Halogen modelling lamp 20 W / 12 V
34.217.00
100-120 V

Pulso Spot 4 (Page 43)

Flash tube 3200 J
34.344.00

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

Halogen modelling lamp 300 W / 220 V
34.223.XX
with fuse

Boxlite 40 (Page 45)

Modelling lamp 40 W
34.211.XX

Continuous light is a special concern for everyone who takes photographs or motion pictures. broncolor HMI is the solution. These continuous light sources function as an alternative, or a powerful supplement, to natural daylight. Pioneering technology and 40 years of know-how are the special features of broncolor HMI continuous light sources. Ultramodern circuitry and high-quality components guarantee the ultimate in functional reliability even in difficult conditions.

The extremely small dimensions of the arc allow unprecedented lighting precision. The broncolor HMI bulb is single-ended. The light is electronically stabilised and completely flicker free – critical features for slow-motion filming and high-speed cameras and also for effortless imaging with electronic scanning cameras. In combination with its WYSIWYG (what you see is what you get) continuous output, it is perfect for digital photography and subsequent image processing.

broncolor HMI lamps are equipped with the time-tested Pulso bayonet with unlocking button. Reflectors can be quickly exchanged and rotated 360°. The wide range of accessories in-

cludes most Pulso reflectors, Flooter, Pulsoflex (HMI version) and a number of area lamps.

broncolor's HMI system uses commercially available lamps. Thanks to broncolor's high-power igniter they can be struck immediately even when hot, so full light output is available at any time and with no waiting. broncolor HMI has three levels of protection: an electronically monitored protecting glass, a safety thermostat and the earthing indicator together guarantee the ultimate in reliability.

A broncolor HMI lamp emits three times as much light as a halogen lamp with the same rating. Despite their intensity, HMI lamps are compact and lightweight. The ballasts and lamps together weigh less than 6 kg and are easy to transport. The HMI system can be perfectly used for painting with light to illuminate large areas for long exposures. As a continuous light source at daylight colour temperature, it is ideal for designing wipe effects – just like outdoors. broncolor HMI is the continuous light that delivers the right accents.

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broncolor HMI 575.800

Electronic ballast unit HMI 575.800
41.102.XX
Electronic ballast unit for the daylight lamp broncolor HMI F575.800;
flicker-free operation, dimmer 100% - 60%, thermal protection,
recognition of the set power level of the connected lamp; automatic adaptation
to the respective mains voltage from 90 V – 265 V, with mains cable
dimensions: 26,8 × 18,4 × 11,2 cm (10,6 × 7,2 × 4,4¨) , weight: 2,6 kg (5,7 lbs)

Lamp HMI F575.800
42.104.00
Lamp HMI F575.800 for ballast unit, f-stop at 2m (6 1/2 ft.) distance 100 ISO,
standard reflector P70 for $^1/_{60}$ f: 8 (575 W) / f: 8 $^5/_{10}$ (800 W), focusable,
selector switch for 575 or 800 W lamp, hot restrike ignition,
bayonet adapter with automatic locking device for diverse broncolor light shapers;
power supply voltages 90 - 265 V, protection cap for transport, cable 3,5 m,
without lamp 575 or 800 W
dimensions: 32 × 12 × 19,8 cm (12,6 × 4,7 × 7,8¨), weight: 2,6 kg (5,7 lbs)

Parabol reflector for HMI F575.800
43.103.55 (5500 K)
43.103.59 (5900 K)
with 4 PAR lenses with various coverage angles
(7°× 8°, 9°× 21°, 26°× 56°, 47°× 47°),
Barn doors 33.227.00 / 33.247.00 can be used

**Adapter ring with integrated
reflector for Pulsoflex C/EM**
43.100.00

**Lamp 575 W
for HMI F575.800 lamp**
44.100.00

**Lamp 800 W
for HMI F575.800 lamp**
44.104.00

Lamp extension cable
44.200.00
7.5 m / 24.6 ft
for HMI F575.800

**Protecting glass
for HMI F575.800**
44.101.55

**Protecting glass, mat,
for HMI F575.800**
44.102.55

Light shapers for HMI F575.800

Reflectors

Standard reflector P70	33.107.00	Page 36	Wide angle reflector P120	33 112.00	Page 37
Standard reflector P65	33.106.00	Page 36	P-Travel	33.103.00	Page 37
Narrow angle reflector P45	33.104.00	Page 36	Reflector PAR	33.113.00	Page 36
Narrow angle reflector P50	33.105.00	Page 36	Softlight reflector P-Soft	33.110.00	Page 37

Softboxes

Pulsoflex EM 80 × 80 cm	33.407.00	Page 38	Pulsoflex C 100 × 100 cm	33.442.00	Page 38
Pulsoflex EM 110 × 110 cm	33.408.00	Page 38	Pulsoflex C 150 × 150 cm	33.445.00	Page 38
Pulsoflex EM 80 × 140 cm	33.417.00	Page 38	Pulsoflex C 80 × 140 cm	33.446.00	Page 38
Adapter ring for Pulsoflex C/EM and broncolor HMI F575.800 lamp	43.100.00	Page 38			

Special Reflectors

Para 170 FB	33.484.00	Page 40	broncolor Flooter	32.431.00	Page 41
Para 220 FB	33.485.00	Page 40	Satellite Evolution	33.150.00	Page 41
Para Soft 220 FB	33.487.00	Page 40	Satellite Staro	33.151.00	Page 41
Para 330 FB	33.486.00	Page 40	Mini-Satellite	33.152.00	Page 41

Special Effect Lamps

Hazylight-Soft	33.513.00	Page 45	Balloon	33.161.00	Page 43

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

**Bag for Minicom
Travel Kit**
36.504.00
ext: 59 × 27 × 49 cm (23 × 11 × 19")
int: 54 × 20 × 43 cm (21 × 8 × 17")
for 2 monolights and accessories

Lamp cable per running meter
34.159.00

**Bag for Minipuls
Location Kit 2**
36.507.00
ext: 58 × 26 × 58 cm (23 × 10 × 23")
int: 53 × 20 × 52 cm (21 × 8 × 20")
for 2 monolights and accessories

**Lamp extension cable
for Mobilite 2 / Picolite**
34.150.00
3,5 m / 11 ft

**Bag for Minipuls
Location Kit 3**
36.508.00
ext: 73 x 25 x 57 cm (30 × 11 × 22")
int: 68 x 20 x 50 cm (27 × 8 × 20")
for 3 monolights and accessories

**Lamp extension cable
for lamps up to max. 3200 J**
34.151.00: 5 m (16 ft)
34.152.00: 10 m (32 ft)
(not compatible with
Topas A8 RFS Evolution)

**Bag for Mobil A2R Travel Kit
and Minicom Basic Kit**
36.512.00
ext: 52 × 36 × 20 cm (21 × 14 × 8")
int: 50 × 34 × 16 cm (20 × 13 × 6")
for 1 Mobil A2R power pack
and 2 Mobilite 2 lamps

Pulso wall adapter
36.900.00
(with bayonet)

**Bag for 3 Junior stands
or 3 diffusers for Para / Para FB**
36.551.00

**Bag for Minicom
Classic/Expert Kit**
36.503.00
(suitable for power packs
with accessories)

Bag for 3 Senior stands
36.552.00

**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, 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 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.

creative
workshop

**broncolor lighting courses –
now for digital photography too.**
Creative lighting, precision, inspiration, style and emotion – even in the age of digital photography, none of these facets have lost in importance. broncolor offers workshops for professional and semi-professional photographers, as well as for advanced amateurs.

The broncolor workshops emphasise hands-on solutions which are developed in small groups of two to four participants. Under the guidance of an experienced photographer you will realize demanding shots, including photographic topics – such as glass, chrome-plated steel, textiles, atmospheric stills, as well as special effects – such as running water and multiple-light setups.

Experienced difficulties arising from the set tasks, and their solutions, will then be discussed. Classic photographic challenges will be explained along with the latest photographic techniques. Controllable flash durations and colour temperature, as well as a variety of filter methods are further topics of the course. In short: you benefit from tips, tricks and techniques for your everyday work.

In small groups, mutual inspiration and experience contribute to a creative atmosphere. Additionally, you have the chance to experiment with the extensive range of broncolor lighting equipment and to become acquainted with the wide assortment of light shapers. The purpose of the course is to provide photographers with new capabilities and ideas so they can react faster, more efficiently, and most of all, more effectively to the everyday challenges of the profession.

**broncolor Creative Workshops –
2 and 3 days.**
broncolor offers workshops of 2 and 3 days, the basic principle of both is identical. Whilst the 2-day workshop concentrates on the realization of product photography, the 3-day course devotes the extra day to the topic fashion and portrait photography. The instructor will explain the specific aspects, accompanied by demonstrations with a model, or shots in the group.

Our professionally equipped photographic studio (130 m^2) has up to four complete workstations. In addition to digital and analogue medium and large format cameras, the entire broncolor flashlight assortment is available to the participants.

The concept is being continuously revised. See our website for the latest version.

[O] II Helge Kirchberger, Austria

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 co-operation 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

www.broncolor.com/Worldlight Rental

worldlight
RENT A SYSTEM BY **broncolor**

Panji Indra, Indonesia

broncolor®
THE LIGHT

Bron Elektronik AG
CH–4123 Allschwil / Switzerland
www.bron.ch