

# VERSO A2 and A4

Versatile in the studio  
and on location



# Versatile in the studio and on location

**The high-end power packs Verso A mean no compromises. Neither in the studio nor on location.** With three individually (asymmetrically) controllable lamp connections, very short charging times and flash durations, a control range up to 8 f-stops, a bright modelling light and the extremely capable Power Dock, the Verso A2 and Verso A4 do it all.

## HIGH ENERGY – PERFECTLY DISTRIBUTED

The Verso A2 puts out a total of 1200 joules – enough light output for practically any photographic application. If more light is needed, the more powerful Verso A4 with 2400 J is now available (technical data appear in brackets). The high efficiency of broncolor light shapers ensures that all the power reaches the subject or model as intense, beautiful light.

The flash energy can be distributed between two channels and among a maximum of three lamp connections. Channel 1 defines the light emitted by the lamp connected to outlet 1. The output on channel 2 can be adjusted independently, and this energy in turn is distributed symmetrically to lamps 2 and/or 3.

Thanks to this circuitry, the Verso offers a power control range of up to eight (!) f-stops, from 1200 down to 9.4 J [2400 to 18.8 J].

That corresponds in turn to a 1:128 contrast ratio. Are both lamp base connections of channel 2 engaged, even a minimum power of 4.7 J [9.4 J]

can be reached. The asymmetry extends to an incredible seven f-stops. The energy per channel can be adjusted to within 1/10 of an f-stop.

The extremely wide control range of the Verso A lets you shoot stills at tiny apertures or with very selective sharpness. And for on location shots, the ambient light can be allowed to dominate or the contrast can be precisely tuned at low output settings.

## NO WAITING

When the Verso A2 is operated on mains power, it charges to full capacity in less than a second (1.7 sec for Verso A4 at 230V). Even at maximum output, its cycle time is faster than most professional digital cameras. That also means lots of time saved for multi-shot applications! When using the Power Dock the charging time remains well below 2 seconds (1.5 sec at maximum output).



Verso A2 RFS with Power Dock



Verso A4 RFS

II MARKUS KLINKO, USA



### SHORT FLASH TIMES

The flash pulse duration is equally impressive: even at full power (1200 J) the flash discharge of the Verso A2 lasts no more than 1/1500 sec (t 0.5). Even without additional lamps, an internal capacitor cut-off shortens the flash duration even further as soon as power is reduced. Reducing the output by two f-stops (setting 8 / 300 J) yields a flash time of only 1/3500 sec (t 0.5). When used in combination with high-powered broncolor light shapers, even fast-moving subjects can be captured without the slightest motion blur and at reasonable working apertures. Verso gives you short flash

discharge times regardless of the power source – mains or with Power Dock!





### ALWAYS THE RIGHT LIGHT

The Verso A not only recharges extremely quickly, it also provides exactly the same quality and quantity of light every time. Even with the rapid flash sequences of a fashion shoot, every flash has absolutely identical brightness. Flash voltage is stabilised to within 0.5% to prevent incorrect exposures (and the resulting colour shifts) even in multi-shot images. The colour temperature remains constant, varying by only  $\pm 100^\circ$  Kelvin over a range of four full f-stops.

### NEVER SIT IN THE DARK

Like all broncolor power packs, the Verso A also includes a sophisticated management of the modelling light. Mains operated it disposes over a total of six proportionality settings and adapts to any broncolor power pack or monolight. The characteristics and contrast of the modelling light precisely match those of the final image photographed with flash. Verso A supplies a maximum of 3 x 650 W (halogen 230 V). With the Power Dock the user receives a bright modelling light of a total of 650 W. To reduce stress on the battery, the time until automatic shutoff of the modelling light can be set arbitrary. The modelling light also serves as an additional flash monitor: the DIM function reduces its brightness during recharging and also decreases the demand on low-amperage mains. An audible flash monitor (buzzer) can also be activated.

Another broncolor innovation is the Ringflash C with modelling light. Ten halogen lamps of 20 W each, arranged in a ring, supply a total of 200 W and are powered by the Verso A. That lets photographers focus accurately (without additional lights), see the actual lighting characteristics, eliminate unwanted reflections and practically rule out any "red-eye" effects.

### THE VERSO A WORKS ANYWHERE

The Verso A can be operated on any mains voltage from 100 to 230 volts. Even better: it instantly and automatically adapts to the incoming voltage. It even handles voltage fluctuations of up to  $\pm 10\%$ !

The Verso A is constructed from sturdy aluminium and its side panels are also covered with hard rubber. Even rough treatment in the studio or on location can't touch it.

On mains power, any broncolor lamp made from 1972 on can be used with a Verso A! That's over 30 years of system compatibility. Because broncolor power packs are "lamp-independent", Verso A works even with older lamp heads and \*special effect lamps. For battery operation, full compatibility with e.g. Pulso G, Unilite, Ringflash etc. is guaranteed.



\* Please ask for our brochure "broncolor Special Effect Lamps" and "Ringflash C and P"

## ACCENT ON USER-FRIENDLINESS

The high-tech Verso A power packs are a standout when it comes to simple operation: every function can be controlled, directly and without complex submenus, using the dust- and scratch-resistant front panel and its illuminated silicone buttons.

When the power output is increased, the revolutionary fast charging system ensures that just fractions of a second later, you can work at the energy you just selected. When power is reduced, the internal discharge system makes sure that the very next

exposure is correct and not too bright.

The infrared receiver can be switched off and the sensitivity of the photocell can be reduced moreover: no more surprise flashes due to flickering fluorescent tubes or other environmental interference! The bright ready display may be dimmed.

If multiple flashes are needed in order to build up a certain quantity of light or for stroboscopic effects, the sequence can be pre-programmed in the power pack. Effective fan cooling prevents the



- |   |  |                                       |   |
|---|--|---------------------------------------|---|
| 1 Main switch (on/off)                            | 8 Digital power display for flash energy channel 1 | 13 Infrared and RFS receiver (on/off) | 20 Dimmer (modelling light switched off during charging) (on/off) |
| 2 Fuse  | 9 Digital power display for flash energy channel 2 | 14 Modelling light (on/off)           | 21 Sequence (up to 50 flashes per sequence)                       |
| 3 Sync socket                                     | 10 Power selector channel 1                        | 15 Ready display                      | 22 Additional functions (aux)                                     |
| 4 Antenna (RFS only)                              | 11 Power selector channel 2                        | 16 Test key                           | 23 Address for remote control (unit)                              |
| 5 Lamp outlet channel 1                           | 12 Photocell/slave (on/off)                        | 17 Proportional modelling light       | 24 IR receiver  |
| 6 Lamp outlet channel 2                           |  | 18 Charging speed (normal/fast)       | 25 Photocell  |
| 7 Battery-operated warning signal (50, 10 and 5%) |  | 19 Acoustic ready buzzer (on/off)     |   |





unit from overheating even during long series of high-intensity flash discharges.

retrieves them immediately after disconnection from mains power or after switching off and on again.

Another feature is the Verso A's ability to save the channel power output settings as well as the specifically selected functions; it

**ALMOST UNLIMITED CAPACITY**

The Power Dock, which lets the Verso A2 and A4 operate far away from a mains power outlet, has an incredible energy storage capability: With fast charging and at full flash output, it provides power for about 350 discharges (180 discharges for Verso A4)! With normal charging, 450 flashes are available even at 1200 J (respectively 240 flashes at 2400 J).

At reduced power there is an approximately reciprocal in-

crease in the number of possible exposures: about 900 at 600 J, 1,800 at 300 J, etc. Theoretically, more than 50,000 flashes can be produced on each battery charge with the Verso A2. An internally powered processor ensures battery management and monitors the modelling light.

An integrated display gives a precise indication (in 10% increments) of the battery charge level. If the Power Dock ever runs down, it can be rapidly recharged with

the built-in charger. The power pack can not only operate but also recharge at any voltage from 100 to 230 volts. At 230 volts, approximately 80% of charge capacity is attained after only three hours.

As a practical feature for travelling, the Power Dock is equipped with a transport cover to protect the contacts.



- |                                      |   |
|--------------------------------------|---|
| 26 Fan cooling                       | 32 Quick release fastener, right                      |
| 27 Mains cable socket                | 33 Charge state display Power Dock (charging battery) |
| 28 Holder for quick release fastener | 34 Mains cable socket (charging battery)              |
| 29 Transport cover                   | 35 Centring pins                                      |
| 30 Holder for quick release fastener | 36 Quick release fastener, left                       |
| 31 Contact plug                      |   |



MISSHN

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동천

부동산

주차금지  
P  
Kumkang

### **VERSO A2 RFS / A4 RFS**

The Verso A is also available in an RFS (Radio Frequency System) version, which allows the power pack to be triggered using radio signals. This has a number of advantages compared with the IR synchronisation system that is customarily built in: thin partition walls no longer block the signal, triggering is effortless even in dark or very large studios, and IR radiation present in the vicinity can no longer cause unintentional triggering.

Using the very compact camera transmitter, the power output of the Verso A can be controlled in whole f-stops or 1/10 f-stop increments.

### **VERSO A2 / VERSO A4**

- High-end performance – even when battery-operated
- Very short charging time and flash duration
- Larger flash energy control range up to max. 8 f-stops
- Powerful modelling light even when battery-operated
- Asymmetric power distribution over 2 channels
- Automatic stabilisation of colour temperature
- High repetitive precision for digital photography
- Automatic adaptation to the respective mains voltage
- Flash release also via radio (optional) and infrared possible
- Option RFS



Verso A – finally a power pack that adjusts to the way I work instead of the other way around.

Whether it's in the studio or on location, whether working off the mains or cable-free, the Verso A always delivers its power in an unbeatably short time – even on a battery and at full output, it takes only 1.5 seconds. The short flash durations are ideal for any situation and the extremely wide control range gives me the liberty to choose my working aperture. Last but not least, the free asymmetry and the abundant selection of broncolor accessories overcome all the technical hurdles that formerly got in the way of my creative work.

Eric Victor, MOMENTUM STUDIO Pty Ltd, Australia

[www.momentumstudio.com.au](http://www.momentumstudio.com.au)

# broncolor System

## POWER PACKS



Grafit A2 / RFS  
31.166.XX / 31.169.XX  
Grafit A4 / RFS  
31.176.XX / 31.179.XX



Verso A4 / RFS  
31.032.XX / 31.033.XX  
Verso A2 / RFS  
31.030.XX / 31.031.XX  
Power Dock  
for Verso A2 / A4 / RFS  
36.124.00



Topas A2 / RFS  
31.168.XX / 31.173.XX  
Topas A4 / RFS  
31.178.XX / 31.174.XX  
Topas A8 Evolution / RFS  
31.184.XX / 31.183.XX  
Mobil  
31.010.XX

## LAMPHEADS



Pulso G  
32.115.XX 1600 J  
Pulso G  
32.116.XX 3200 J  
Unilite  
32.113.XX 1600 J  
Unilite  
32.114.XX 3200 J  
Pulso Twin  
32.117.XX  
Pulso 8  
32.118.XX  
Picolite  
small lamp  
32.021.00  
Mobilite  
small lamp  
32.011.00

Reflectors are not included

## EFFECT LAMPS



Ringflash C  
32.462.XX  
Ringflash P  
32.461.XX  
Litestick  
32.451.00  
Balloon  
33.161.00

## REFLECTORS AND ATTACHMENTS



Standard reflector P65  
33.106.00  
Standard reflector P70  
33.107.00

Reflector P-Travel  
33.103.00

Reflector PAR  
33.113.00

Soft reflector  
for Ringflash C  
33.123.00

Optical snoot 150 mm  
5500 K for Pulso-Spot 4  
33.620.55

Pulso adapter  
for Mobilite / Picolite  
33.501.00

Narrow angle reflector P45  
33.104.00  
Narrow angle reflector P50  
33.105.00

Softlight reflector P  
33.110.00

Wide angle reflector P120  
33.112.00

Spot attachment  
33.640.00

Conical snoot  
33.120.00

Attachment with 3 honeycomb  
2 aperture masks for Mobilite  
33.204.00

## SPECIAL REFLECTORS



Satellite Staro  
33.151.00

Satellite Evolution  
33.150.00

Mini-Satellite  
33.152.00

Para 170 FB  
33.484.00

Para 220 FB  
33.485.00

Para 330 FB  
33.486.00

Stands are not included

## SOFTBOXES



Pulsoflex C  
35 x 120  
33.444.00

Pulsoflex C  
60 x 100  
33.443.00



Pulsoflex EM  
30 x 110  
33.424.00

Pulsoflex EM  
35 x 60  
33.415.00



Mobil Studio Booster  
36.120.XX



Nano 2  
31.151.XX  
Nano A4  
31.172.XX

## MONOBLOCKS



Minicom 40 / RFS  
31.405.XX / 31.406.XX



Minicom 80 / RFS  
31.415.XX / 31.416.XX



Minipuls C200  
31.449.XX

Reflectors are not included

## SPECIAL ACCESSORIES



Transmitter RFS  
36.130.00



Transceiver RFS  
36.131.00



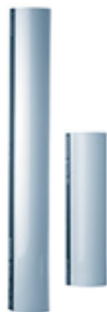
Infrared transmitter IRX 2  
36.116.00



Boxlite 40  
32.341.XX



Picobox  
33.128.00



Lightbar 120 Evolution  
32.353.XX  
Lightbar 60 Evolution  
32.351.XX



Striplite 120 Evolution  
32.303.XX  
Striplite 60 Evolution  
32.301.XX



Hazylight-Soft  
33.513.00



broncolor Floorer  
32.431.00



Pulso-Spot 4  
32.425.XX



Following spot  
Profil 15/42  
32.437.XX



Projection attachment  
for Picolite  
33.641.00



Barn door with 4 wings  
for Mobilite / Picolite  
33.244.00



Barn door with 4 wings  
for P 65, P 45 and PAR  
33.246.00  
Barn door with 4 wings  
for P 70  
33.247.00



Honeycomb grids for Ringflash C,  
Set of 3 pcs.  
33.219.00



Honeycomb grids for P 50,  
Set of 3 pcs.  
33.205.00  
Honeycomb grids for P 65, P 45  
and PAR, Set of 3 pcs.  
33.206.00  
Honeycomb grids for P 70,  
Set of 3 pcs.  
33.207.00



Honeycomb grids for  
Mobilite / Picolite



Fresnel spot attachment  
for Mobilite / Picolite  
33.631.00



Barn door with  
2 wings for P 70  
33.227.00



Sunlite-Set  
33.162.00



Pulsoflex C  
70 x 70  
33.441.00



Pulsoflex C  
80 x 140  
33.446.00



Pulsoflex C  
100 x 100  
33.442.00



Pulsoflex C  
150 x 150  
33.445.00

Adapter ring and stands  
are not included

## UMBRELLAS



Umbrella silver Ø 82 cm  
33.459.00  
Umbrella silver Ø 102 cm  
33.452.00  
Umbrella transparent Ø 102 cm  
33.454.00  
Umbrella white Ø 82 cm  
33.460.00  
Umbrella white Ø 102 cm  
33.453.00



Umbrella reflector  
33.496.00



Pulsoflex EM  
40 x 155  
33.425.00



Pulsoflex EM  
50 x 50  
33.406.00



Pulsoflex EM  
55 x 95  
33.416.00



Pulsoflex EM  
80 x 140  
33.417.00



Pulsoflex EM  
80 x 80  
33.407.00



Pulsoflex EM  
110 x 110  
33.408.00

# Technical Data Verso A2



mains power operation



battery operation

<b>Flash energy</b>	1200 J	
<b>f-stop at 2 m (6.6 ft) distance 100 ISO, reflector P70</b>	45 7/10	
<b>Flash duration t 0.1 (t 0.5) at 230 V</b>	1200 J: 1/500 s (1/1500 s) 600 J: 1/900 s (1/2500 s) 300 J: 1/1200 s (1/3500 s)	
<b>Charging time at fast charge (for 100% of selected energy)</b>	0,2 - 0,8 s (200-240 V) 0,2 - 0,9 s (110-120 V) 0,3 - 1,0 s (100 V)	0,3 - 1,5 s (fully charged battery)
	Can be switched to normal or fast charging mode.	
	Automatic adaptation to the respective mains voltage. (Voltage fluctuations up to +/- 10% do not cause any restriction).	
<b>Ready display</b>	Visual and audible (can be switched off), signals when 100% of selected energy is reached	
<b>Lamp base connections</b>	3	
<b>Power output distribution</b>	individual (asymmetric)	
<b>Controls</b>	Illuminated silicone keyboard resistant to dust and scratches, LED as well as two LCD-displays	
<b>Control range of flash energy</b>	Channel 1 (without using channel 2): over 7 f-stops in 1/10 f-stop intervals [1:128] Channel 1 and 2 or channel 2: over 6 f-stops in 1/10 f-stop intervals [1:64]	
<b>Maximum asymmetry</b>	6 f-stop increments channel 1: level 9 / channel 2 (1 lamp base): level 3 7 f-stop increments channel 1: level 9 / channel 2 (2 lamp bases): level 3	
<b>Modelling light (halogen)</b>	<b>Equipment</b> 200 - 240 V: Halogen max. 3 x 650 W  100 - 120 V: Halogen max. 3 x 300 W  Proportional to flash energy and „full“ and „low“ settings.  Proportionality adjustable to other broncolor power packs and monoblocs and their various output ratings	<b>Equipment</b> 200 - 240 V: Halogen max. 1 x 650 W 2 x 300 W 3 x 150 W 100 - 120 V: Halogen max. 2 x 300 W 3 x 150 W  Variable settings of the on time to protect the rechargeable battery: between 1 min. and 20 min.  <b>Exception</b> Setting of the on time between 1 min. to 7 min. if used with 1 x 650 W or 2 x 300 W
<b>Additional functions</b>	<ul style="list-style-type: none"> <li>- Sequences (flash series) up to 50 flash releases</li> <li>- Sensitivity of the photocell can be reduced</li> <li>- Visual ready display can be dimmed</li> <li>- Option automatic switch-off of the power pack in battery operation (settings from 10 min. to 99 min.)</li> </ul>	
<b>Flash release</b>	Manual release button, photocell (can be switched off), infrared receiver (can be switched off), sync cable, FCM 2, IRX2	
<b>Sync sockets</b>	1	
<b>Dimensions (L x W x H)</b>	290 x 185 x 315 mm / 11.4 x 7.3 x 12.4" (power pack)	308 x 185 x 229 mm / 12.1 x 7.3 x 9" (Power Dock)
<b>Weight power pack</b>	7,5 kg / 16.5 lbs	
<b>Weight Power Dock</b>	12,3 kg / 27.1 lbs	
<b>Stabilised flash voltage</b>	+/- 0.5%	
<b>Power requirements</b>	200-240 V / 50 Hz: 10 A 110-120 V / 50-60 Hz: 16 A 100 V / 50 Hz: 16 A	
<b>No. of flashes per fully charged battery</b>		Fast charge: approx. 350 at full output Normal charge: approx. 450 at full output
<b>Standards</b>	UL 122, EC-standard 73/23, 89/336 and 99/5	

## Verso A2 RFS

<b>Flash release</b>	Transmitter RFS, transceiver RFS (10 channels), manual release button, photocell (can be switched off) infrared receiver (can be switched off) sync cable, FCM 2, IRX2
<b>Radio (RFS)</b>	Operational distance outdoors up to 50 m (164 ft), operational distance in closed rooms up to 30 m (98.4 ft), range up to 300 m (984 ft)

# Technical Data Verso A4



mains power operation



battery operation

<b>Flash energy</b>	2400 J	
<b>f-stop at 2 m (6.6 ft) distance 100 ISO, reflector P70</b>	64 7/10	
<b>Flash duration t 0.1 (t 0.5) at 230 V</b>	2400 J: 1/250 s (1/750 s) 1200 J: 1/450 s (1/1250 s) 600 J: 1/600 s (1/1700 s)	
<b>Charging time at fast charge (for 100% of selected energy)</b>	0,3 - 1,7 s (200-240 V) 0,3 - 1,8 s (110-120 V) 0,3 - 1,9 s (100 V)	0,3 - 3,2 s (fully charged battery)
	Can be switched to normal or fast charging mode. Automatic adaptation to the respective mains voltage. (Voltage fluctuations up to +/- 10% do not cause any restriction).	
<b>Ready display</b>	Visual and audible (can be switched off), signals when 100% of selected energy is reached	
<b>Lamp base connections</b>	3	
<b>Power output distribution</b>	individual (asymmetric)	
<b>Controls</b>	illuminated silicone keyboard resistant to dust and scratches, LED as well as two LCD-displays	
<b>Control range of flash energy</b>	Channel 1 (without using channel 2): over 7 f-stops in 1/10 f-stop intervals (1:128) Channel 1 and 2 or channel 2: over 6 f-stops in 1/10 f-stop intervals (1:64)	
<b>Maximum asymmetry</b>	6 f-stop increments channel 1: level 9 / channel 2 (1 lamp base): level 3 7 f-stop increments channel 1: level 9 / channel 2 (2 lamp bases): level 3	
<b>Modelling light (halogen)</b>	<b>Equipment</b> 200 - 240 V: Halogen max. 3 × 650 W  100 - 120 V: Halogen max. 3 × 300 W  Proportional to flash energy and „full“ and „low“ settings.  Proportionality adjustable to other broncolor power packs and monoblocs and their various output ratings.	<b>Equipment</b> 200 - 240 V: Halogen max. 1 × 650 W 2 × 300 W 3 × 150 W  100 - 120 V: Halogen max. 2 × 300 W 3 × 150 W  Variable settings of the on time to protect the rechargeable battery: between 1 min. and 20 min.  <b>Exception</b> Setting of the on time between 1 min. to 7 min. if used with 1 × 650 W or 2 × 300 W
<b>Additional functions</b>	- Sequences (flash series) up to 50 flash releases - Sensitivity of the photocell can be reduced - Visual ready display can be dimmed - Option automatic switch-off of the power pack in battery operation (settings from 10 min. to 99 min.)	
<b>Flash release</b>	Manual release button, photocell (can be switched off), infrared receiver (can be switched off), sync cable, FCM 2, IRX2	
<b>Sync sockets</b>	1	
<b>Dimensions (L x W x H)</b>	290 × 185 × 380 mm / 11.4 × 7.3 × 15" (power pack)	308 × 185 × 229 mm / 12.1 × 7.3 × 9.0" (Power Dock)
<b>Weight power pack</b>	10,4 kg / 22.9 lbs	
<b>Weight Power Dock</b>	12,3 kg / 27.1 lbs	
<b>Stabilised flash voltage</b>	+/- 0,5 %	
<b>Power requirements</b>	200-240 V / 50 Hz: 10 A 110-120 V / 50-60 Hz: 16 A 100 V / 50 Hz: 16 A	
<b>No. of flashes per fully charged battery</b>		Fast charge: approx. 180 at full output Normal charge: approx. 240 at full output
<b>Standards</b>	UL 122, EC-standards 73/23, 89/336 and 99/5	

## Verso A4 RFS

<b>Flash release</b>	Transmitter RFS, transceiver RFS (10 channels), manual release button, photocell (can be switched off), infrared receiver (can be switched off), sync cable, FCM 2, IRX2
<b>Radio (RFS)</b>	Operational distance outdoors up to 50 m (164 ft), operational distance in closed rooms up to 30 m (98.4 ft), range up to 300 m (984 ft)

broncolor power packs are the result of many years of broncolor experience and cutting-edge technology. Carefully selected components and robust design guarantee maximum reliability even under difficult conditions. broncolor offers a 2-year factory warranty. broncolor: your best investment for the future. Made in Switzerland.

**broncolor**<sup>®</sup>  
THE LIGHT

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