broncolor

Satos Technical Data Sheet

Highlights:
- Flash colour temperature adjustable for each channel
- Timing functions adjustable for each channel (alternate, delay, sequence)
- Up to 120 flashes per second
- Multiple high power flashes with minimum time between flashes (0.008 s)
- Consistent flash colour temperature over the entire control range with full asymmetry
- Bidirectional communication with Pulso L lamp
- High-Speed-Sync (HSS)
- Flash, continuous light (LED) or mixed light

	Satos 1600	Satos 3200
Item number	31.070.XX	31.071.XX
Normal mode (Opt.)		
Flash energy	1600 Joules	3200 Joules
Aperture at 2m distance, ISO 100, P70 Normal reflector	64 $^2/_{10}$	90 $^4/_{10}$
Flash duration (min. | max. energy) The colourtemperature remains constant through the entire control range.	1/6000 s | 1/220 s	1/5400 s | 1/100 s
Speed mode		
Flash energy	650 Joules	1212 Joules
Aperture at 2m distance, ISO 100, P70 Normal reflector	32 $^9/_{10}$	64
Flash duration (min. | max. energy) In speed mode, the colour temperature is colder (+300K), however, consistent over the energy adjustment range.	1/8900 s | 1/1400 s	1/8100 s | 1/810 s
Shortest mode (t 0.1 min)		
Shortest possible flash duration For technical reasons, the colour temperature of the flash becomes more bluish, depending on flash energy.	1/28500 s	1/28500 s
Minimum time between flashes (applicable to all modes)	0.008 s	

All flash duration values are t 0.1

	Satos 1600	Satos 3200
Item number	31.070.XX	31.071.XX
Readiness indicator	Optical and acoustic (can be switched off), done at Achieving 100% of the selected energy	
Lamp connections	3	
Power distribution	Symmetrical and individually asymmetrical	
Adjustment range of the flash energy	over 10 apertures (2 – 12 | 1.5 - 1600J) in 1/10 or complete aperture intervals	over 11 apertures (2 - 13 | 1.5 - 3200J) in 1/10 or complete aperture intervals
Colour temperature (Flash)	Standard value (opt.): 5700K (tolerance +/- 50K) per channel adjustable from - 300K to + 600K (limitations depending on flash mode)	
LED Modelling light	2800K or 5500K full, low, proportional max. 90W per channel	
Flash triggering	Manual release button, photocell, RFS 2, synchronous cable	
Special functions ("timing")		
Alternate	Alternate enables "Ping-Pong triggering" of up to 12 flash heads	
Delay	Adjustable individually for each of the three Satos lamp channels (max. 50s)	

Sequence	Each of the three Satos lamp channels can be set to an individual sequence (max. 100) and individual interval (max. 10.0s)	
Additional functions	High-Speed-Sync (HSS), Strobo	
	Continuous light (with Pulso L)	
Colour temperature	2800 to 6800K in 50K intervals	
Colour rendering index (CRI)	typical >97	
Green / Magenta correction (color cast)	-25G to +25G (limitations at certain color temperatures)	
Dimmability	Apertures 2 to 13, in 0.1 intervals	
Update option	via USB port	
Display	5.7 inch, LCD, multi-touch, extremely robust cover glass	
Cognition Light	LED ring (Colors: blue, green, purple, yellow, turquoise)	
Cooling system	active (fan)	
Compatibility	Fully compatible: Pulso L lamp Modelling light only during power supply operation: Pulso G, Unilite, Picolite	
Menu language	English, German, French (more in preparation)	
Use	in dry environment	
Temperature range of use	-10°C to 40°C	
Storage temperature	-10°C to 50°C	
Power pack weight unequipped (with no power supplies or batteries, no power cable, no dust cover)	11.4kg (25.13lbs)	16.6kg (36.60lbs)
Power pack dimensions	L: 311mm (12.24in) W: 224mm (8.82in) H: 321mm (12.62in) incl. handle	L: 311mm (12.24in) W: 224mm (8.82in) H: 433mm (17.03in) incl. handle
Slide-in battery (type)	Li-Ion, 37V / 92Wh	
Slide-in battery (weight)	980g (2.16lbs)	
Slide-in battery (dimensions)	L: 233mm (9,20in)	W: 80mm (3.50in)	H: 35mm (3,80in)	
Slide-in battery (charging time when not in use)	approx. 60 minutes	
Slide-in power supply unit	48V / 400W	
Slide-in power supply unit (weight)	830g (1.82lbs)	
Slide-in power supply unit (dimensions)	L: 233mm (9,20in)	W: 80mm (3.50in)	H: 35mm (3,80in)	
Power pack power consumption	1800W	
Connected loads	230V 10A	120V 15A	100V 15A	
Warranty period	2 years from the date of purchase (for the first owner)	
Approvals	CE, FCC, UKCA, RoHS	

	Flash recharging time for max. energy ("recycling") *	Flashes at full power
Satos 3200 (4 batteries) **	1.92 s	approx. 240 (60 per battery)
Satos 3200 (2 batteries | 2 power supply units)	2.80 s	
Satos 3200 (3 batteries | 1 power supply unit)	2.50 s	
Satos 1600 (2 batteries) **	1.92 s	approx. 240 (120 per battery)
Satos 1600 (1 battery | 1 power supply unit)	3.74 s	

* batteries fully charged
** modelling light switched off

+++ Subject to typographical errors, mistakes and technical changes +++