

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 colour 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)	over 11 apertures (2 - 13 1.5 - 3200J)	
	in 1/10 or complete aperture intervals	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)		
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)		

Colour temperature	Additional functions	High-Speed-Sync (HSS), Strobo		
Colour rendering index [CRI] Green / Magenta correction (color cast) Dimmability Apertures 2 to 13, in 0.1 intervals Update option Update option Usu USB port Display String, LCD, multi-touch, extremely robust cover glass Cognition Light Cooling system Compatibility Menu language Use English, German, French (Imore in preparation) Use Fully compatible: Pulso L lamp Modelling light only during power supply operation: Pulso 6, Unilite, Picolite Menu language Use In dry environment Temperature range of use Storage temperature Power pack weight unequipped (with no power supplies or batteries, no power cable, no dust cover! Power pack dimensions L: 311mm [12.24in] W: 224mm [8.82in] H: 321mm [12.62in] incl. handle Slide-in battery (type) Slide-in battery (weight) Slide-in battery (dimensions) L: 233mm [9,20in] W: 80mm [3.50in] H: 35mm [3,80in] Slide-in power supply unit (weight) Slide-in power supply unit (weight) Slide-in power supply unit (weight) Slide-in power supply unit (dimensions) L: 233mm [9,20in] W: 80mm [3.50in] H: 35mm [3,80in] Power pack power consumption Connected loads 230V 10A 120V 15A 100V 15A				
Green / Magenta correction (color cast) Dimmability Apertures 2 to 13, in 0.1 intervals Update option Display S.7 inch, LCD, multi-touch, extremely robust cover glass Cognition Light Congrition Light Congratibility Fully compatible: Pulso L lamp Modelling light only during power supply operation: Pulso G, Unitite, Picolite Menu language Bengature Fully compatible: Pulso L lamp Modelling light only during power supply operation: Pulso G, Unitite, Picolite English, German, French (more in preparation) Use In dry environment Temperature range of use Storage temperature Power pack weight unequipped (with no power supplies or batteries, no power supplies or batteries, no power cable, no dust cover) Power pack dimensions L: 311mm (12.24in) W: 224mm (8.82in) H: 321mm (12.62in) incl. handle Slide-in battery (type) Slide-in battery (dimensions) L: 233mm [9,20in] W: 80mm (3.50in] H: 35mm (3,80in) Slide-in power supply unit 48V / 400W Slide-in power supply unit (dimensions) L: 233mm [9,20in] W: 80mm (3.50in] H: 35mm (3,80in) Power pack power consumption Connected loads 230V 10A 120V 15A 100V 15A	Colour temperature			
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 English, German, French [more in preparation] Use In dry environment Temperature range of use Storage temperature Power pack weight unequipped [with no power supplies or batteries, no power cable, no dust cover] Power pack dimensions L: 311mm [12.24in] L: 311mm [12.24in] W: 224mm [8.82in] H: 321mm [12.62in] incl. handle Stide-in battery (type) Stide-in battery (weight) Stide-in battery (dimensions) L: 233mm [9,20in] W: 80mm [3.50in] H: 35mm [3,80in] Stide-in power supply unit [dimensions] Stide-in power supply unit [dimensions] L: 233mm [9,20in] W: 80mm [3.50in] H: 35mm [3,80in] Power pack power consumption Connected loads 230V 10A 120V 15A 100V 15A	Colour rendering index (CRI)	typical >97		
Update option	Green / Magenta correction (color cast)	-25G to +25G (limitations at certain color temperatures)		
Display Cognition Light Cooling system Compatibility Fully compatible: Pulso L lamp Modelling light only during power supply operation: Pulso 6, Unilite, Picolite Menu language English, German, French (more in preparation) Use In dry environment Temperature range of use Storage temperature Power pack weight unequipped (with no power supplies or batteries, no power cable, no dust cover) Power pack dimensions L: 311mm [12.24in] W: 224mm [8.82in] H: 321mm [12.62in] incl. handle Slide-in battery (type) Slide-in battery (weight) Slide-in battery (dimensions) L: 233mm [9,20in] W: 80mm [3.50in] H: 35mm [3,80in] Slide-in power supply unit Slide-in power supply unit (ewight) Slide-in power supply unit (ewight) Slide-in power supply unit (leight) Slide-in power supply unit (ewight) Slide-in powe	Dimmability	Apertures 2 to 13	, in 0.1 intervals	
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Menu language	Compatibility			
Use				
Temperature range of use	Menu language	English, German, French (more in preparation)		
Storage temperature		in dry environment		
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Connected loads 230V 10A 120V 15A 100V 15A	1 11 2			
		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 +++