



TORONTECH™

## Surgical Lights ToronLight™ Series



TORONTECH.COM



# Surgical Lights – ToronLight™

LED Surgical Light - ToronLight™ 1500S (Single), ToronLight™ 1700S (Single), ToronLight™ 1700D (Double), ToronLight™1200E (Examination), ToronLight™ 1500M (Mobile)

## Standards, Licenses & Certificates:

Health Canada Medical Device Establishment License

CE 93/42/EEC

EN ISO 13485: 2012 + AC: 2012

FDA QSR 21 CFR 820 (cGMP)

ToronLight™ is the state-of-the-art surgical light, designed and manufactured according to the highest industry standards. The surgical light provides exceptional site illumination to create the optimal environment for even the most critical situations.

ToronLight™ also considerably reduces energy consumption, operating with LEDs that generate no heat whatsoever. Emitting cool light helps to create a more comfortable work environment, ensuring that OR staff are not overheated during long surgeries.

The slim compact light head is mounted on a mechanical arm, enabling the operator to adjust its positioning within an exceptionally large envelope of movement. The arm mechanism has 7 axes of rotation to illuminate the patient from any angle. Reflectors effectively remove shadows from the surgical site to clearly illuminate the work area at all times while maintaining a large depth of field. This solution also requires very little maintenance due to long-lasting, energy saving LEDs.



**ToronLight™1500S (Single)**



**ToronLight™1700D (Double)**



**ToronLight™1700S with Camera and Monitor**



**ToronLight™1700+1500**

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**ToronLight™1200E (Examination)**



**ToronLight™1500M (Mobile)**

## Features:

- LEDs are safe and reliable, with an expected life of 50,000 hours.
- The light source is inherently cold, eliminating the danger of tissue dehydration during surgery.
- A high Color Rendering Index of 95 facilitates a highly realistic visual of tissue color.
- Two groups of LEDs with different color temperatures make it possible to customize output intensity and color temperature, adjusting the color in 5 stages while also keeping the color temperature of the light constant.
- Advanced reflector design enables the operator to focus the light on the operation area in an ultra narrow beam, thus minimizing the stray light to ensure there is no strain on the surgeon's eyes.
- Slim, compact, and powerful light head

## Technical Specifications

Description	Toronlight™ Models		
	Toronlight™ 1700	Toronlight™ 1500	Toronlight™ 1200
Diameter (mm)	700	500	200
Illumination (Lux)	60,000 – 160,000	40,000 – 90,000	40,000 – 50,000
Color Temperature (k)	3,500 – 5,000	3,500 – 5,000	3,500 – 5,000
Color Rendering Index (Ra)	85 - 95	85 - 95	≥ 90
Ratio of Radiation Illumination (mW/m <sup>2</sup> lux)	< 3.6	< 3.6	< 3.6
Diameter of light spot (mm)	120-350	120-350	150
Light Depth (mm)	> 1400	> 1400	> 500
Shadowless Rate %	98	78	-
LED Quantity	126	58	14
LED Working Life (h)	> 50,000	> 50,000	> 50,000



**ToronLight™ Control Panel**



**Optional Battery for ToronLight™1500M**



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