

# DIXION CONVELAR

SURGICAL LIGHTS

## HALOGEN:

*DIXION Convelar 1660 • 1670 single-light ceiling mounted*  
*DIXION Convelar 1655 • 1675 • 1677 dual-light ceiling mounted*  
*DIXION Convelar 1605 • 1607 mobile*

## LED:

*DIXION Convelar 1650 • 1670 single-light ceiling mounted*  
*DIXION Convelar 1655 • 1675 • 1677 dual-light ceiling mounted*  
*DIXION Convelar ceiling lights with built-in video system*  
*DIXION Convelar 1603 • 1605 • 1607 mobile*

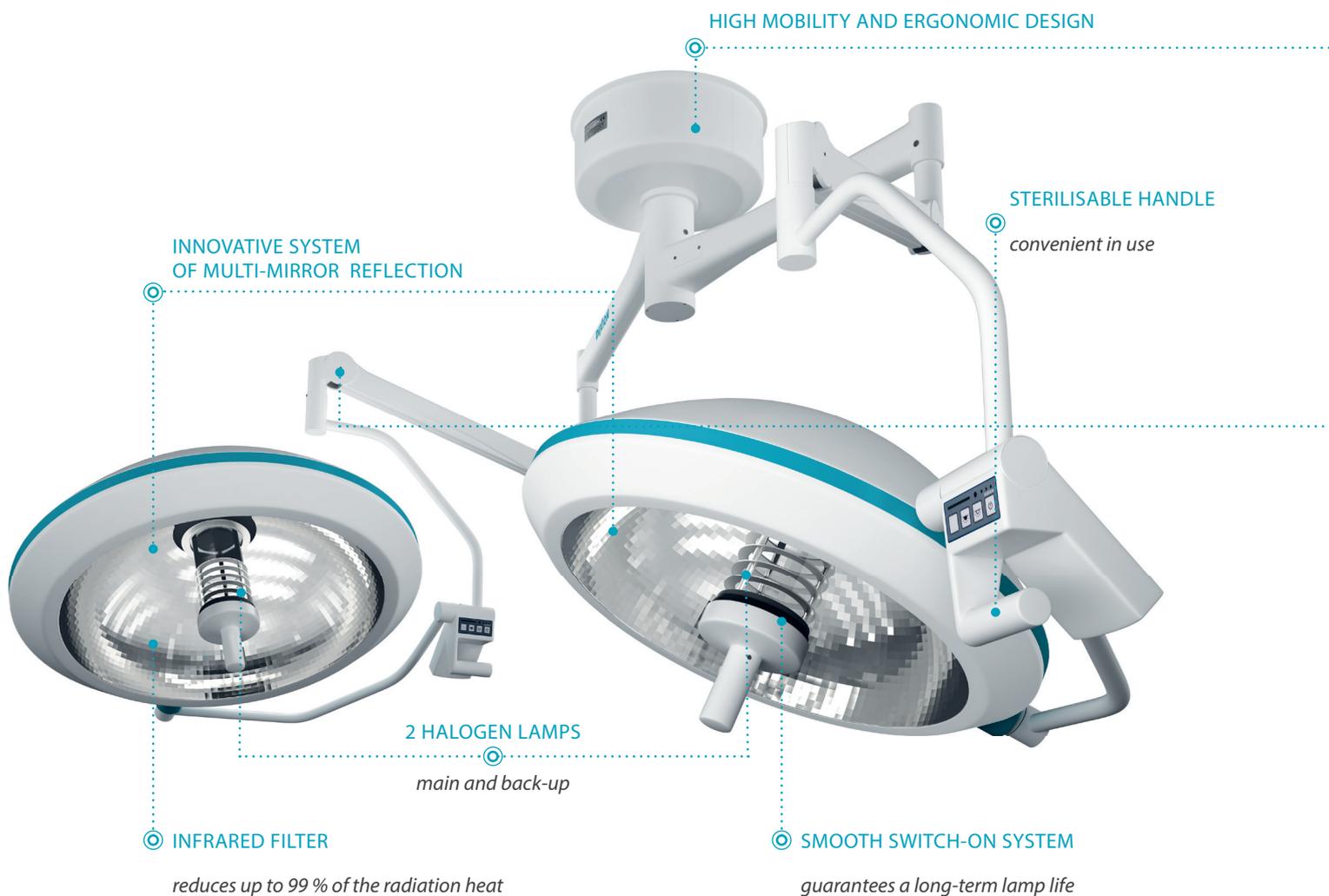


**DIXION**

# HALOGEN SURGICAL LIGHTS

Thanks to the wide variety of the Convelar product line, Dixon can offer different lighting solutions for all kinds of surgeries and diagnostic examinations. All Convelar lighting systems are divided into two main categories, according to the type of light source – LED and Halogen.

Multiple choices of pendant, wall-mounted and floor-standing lights are capable to meet requirements of all kinds of procedures. Excellent technical characteristics of our lights make them indispensable assistants for medical personnel.



A family of Halogen DIXION Convelar surgical lights is characterized by high reliability, space-conscious design, maximum shadowless illumination even at partial darkening and innovative system of multi-mirror reflection.

Multi-prism and multi-angle reflector can produce deep illumination of 60 beams without shadows. The illuminance of the light spot is more than 60000 lx with color temperature of 4250 K which makes colors of human body more visible and distinguishable during all kinds of surgeries. Control panel of the switch box was meticulously designed to ensure that illumination area doesn't move with the adjustment of light dome.

# LED SURGICAL LIGHTS

Universal mount was designed to provide maximum light coverage, for any operating room configuration. The cantilever is made of a new type of alloy which makes the structure light and easy move.

Sealed cover of the arms meets universal requirements for sterile rooms.



DIXION Convelar LED surgical lights use multiple LEDs to produce shadowless 60 cm deep illumination. Light intensity of light spots is higher than 60000 lx, providing color temperature close to natural sunlight with 3500 – 5000 K.

Switch box is equipped with LCD touch screen which makes all light adjustments easy and quick. Design of the arms ensures smooth movement of the lights and secure fixation at any angle.

# CEILING MOUNTED SINGLE — LIGHT SYSTEMS

## DIXION CONVELAR 1660 DIXION CONVELAR 1670



## DIXION CONVELAR 1650 LED DIXION CONVELAR 1670 LED



### TECHNICAL DATA

Model	Convelar 1660	Convelar 1670
Type of light source	Halogen	
Dome diameter	620 mm	700 mm
Illuminance	120 kLx	140 kLx
Color temperature	4250 K	
Light field diameter	≥ 150 mm	150 – 300 mm
Illumination depth	700 mm	
Range of arm movement	1800 mm	
Multi-mirror	3200	3800
Temperature rise	< 10 °C	
Back-up lamp switch-on	< 0.3 sec.	
Power	150 W	

### TECHNICAL DATA

Model	Convelar 1650 LED	Convelar 1670 LED
Type of light source	LED	
Dome diameter	500 mm	
Illuminance	120 kLx	160 kLx
Color temperature	3 500 – 5 000 K	
Light field diameter (adjustable)	120 – 350 mm	
Illumination depth	800 mm	
Lifespan of light sources	> 50 000 h	
Power	58 W	126 W
Color rendering index	85 – 96	

# CEILING MOUNTED DUAL – LIGHT SYSTEMS

DIXION CONVELAR 1655  
DIXION CONVELAR 1675  
DIXION CONVELAR 1677



DIXION CONVELAR 1655 LED  
DIXION CONVELAR 1675 LED  
DIXION CONVELAR 1677 LED



## TECHNICAL DATA

Model	Convelar 1655	Convelar 1675	Convelar 1677
Type of light source	Halogen		
Dome diameter	500 mm/ 500 mm	700 mm/ 500 mm	700 mm/ 700 mm
Illuminance	60 kLx/60 kLx	140 kLx/60 kLx	140 kLx/140 kLx
Color temperature	4250 K		
Light field diameter	≥ 120 mm	150 – 300 mm	150 – 300 mm
Illumination depth	700 mm		
Range of arm movement	1800/1800 mm		
Multi-mirror	2250/2250	3800/2250	3800/3800
Temperature rise	< 10 °C		
Back-up lamp switch-on	< 0.3 sec		
Power	150 W		

## TECHNICAL DATA

Model	Convelar 1655 LED	Convelar 1675 LED	Convelar 1677 LED
Type of light source	LED		
Dome diameter	500 mm/ 500mm	500 mm/ 700mm	700 mm/ 700mm
Illuminance	120 kLx + 120 kLx	120 kLx + 160 kLx	160 kLx + 160 kLx
Color temperature	3 500 – 5 000 K		
Light field diameter (adjustable)	120 – 350 mm		
Illumination depth	800 mm		
Power	58 W +58 W	126 W +58 W	126 W +126 W
Color rendering index	85 – 96		

# FLOOR STANDING MOBILE SURGICAL LIGHTS

## DIXION CONVELAR 1605 DIXION CONVELAR 1607



## DIXION CONVELAR 1603 LED DIXION CONVELAR 1605 LED DIXION CONVELAR 1607 LED



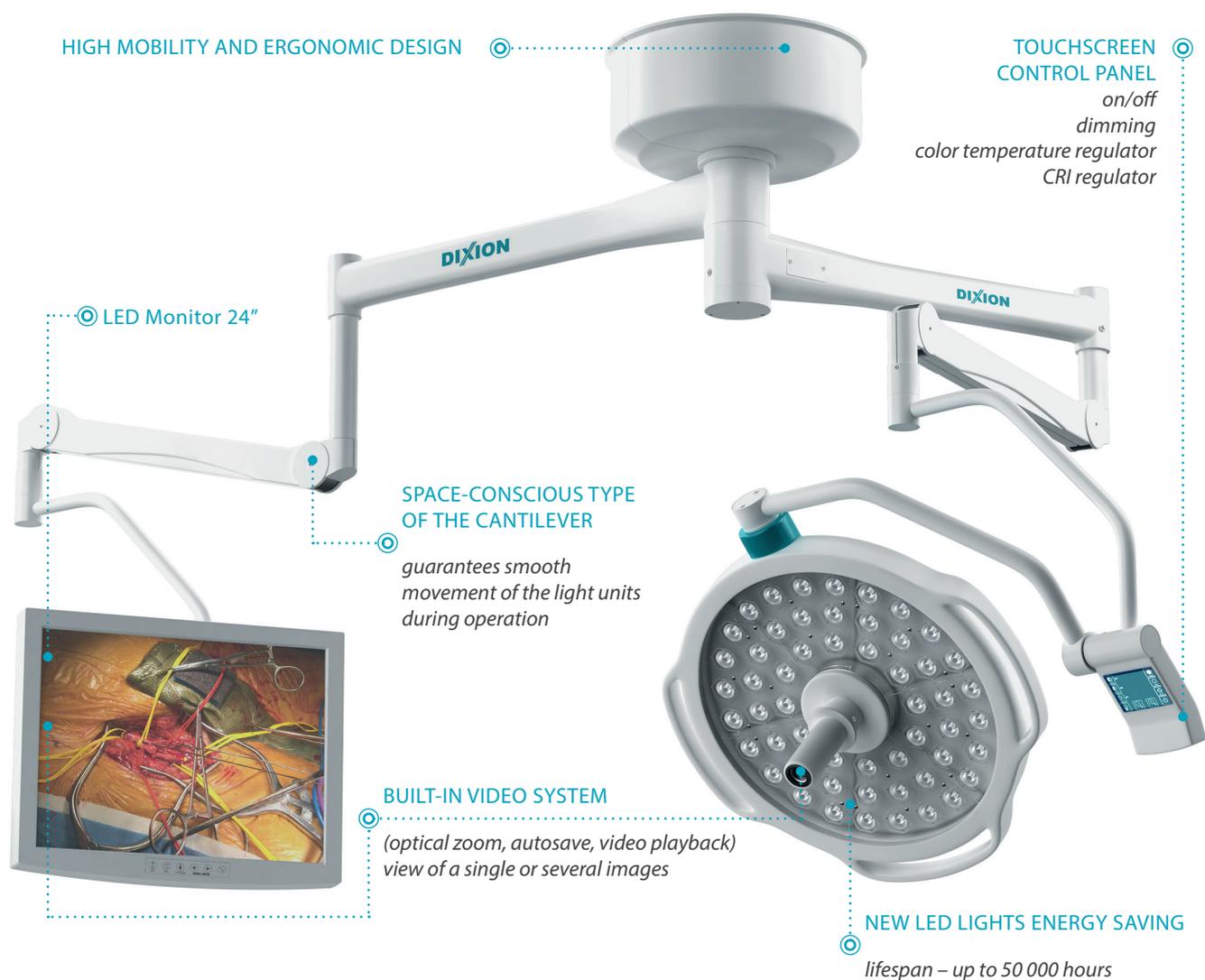
### TECHNICAL DATA

Model	Convelar 1605	Convelar 1607
Type of light source	Halogen	
Dome diameter	500 mm	700 mm
Illuminance	60 kLx	140 kLx
Color temperature	4250 K	
Light field diameter	≥ 150 mm	150 – 300 mm
Illumination depth	700 mm	
Multi-mirror	2250	3800
Temperature rise	< 10 °C	
Back-up lamp switch-on time	< 0.3 sec	
Power	110 W	

### TECHNICAL DATA

Model	Convelar 1603 LED	Convelar 1605 LED	Convelar 1607 LED
Type of light source	LED		
Dome diameter	260 mm	500 mm	700 mm
Illuminance	60 kLx	120 kLx	160 kLx
Color temperature	3 500 – 5000 K		
Light field diameter	150 mm	120-350 mm	120 – 350 mm
Illumination depth	≥ 500 mm	≥ 1400 mm	≥ 1400 mm
Power	25 W	58 W	126 W
Color rendering index	≥ 90	85 – 98	85 – 98

# CEILING MOUNTED SURGICAL LIGHTS WITH BUILT-IN VIDEO SYSTEM



HIGH MOBILITY AND ERGONOMIC DESIGN

TOUCHSCREEN CONTROL PANEL

on/off  
dimming  
color temperature regulator  
CRI regulator

LED Monitor 24"

SPACE-CONSCIOUS TYPE OF THE CANTILEVER

guarantees smooth movement of the light units during operation

BUILT-IN VIDEO SYSTEM

(optical zoom, autosave, video playback)  
view of a single or several images

NEW LED LIGHTS ENERGY SAVING

lifespan – up to 50 000 hours

CAMERA	SR-10A
Resolution	210 Mapixel; 1920(H) x 1080(V)
Communication mode	RS232
Sensor type	1/2.9" CMOS
Scan mode	Progressive Scan
Communication protocols	HITACHI +
Lens	
Automatic diaphragm	Support
Optical lenses	10X f=5mm~50mm
Field angle	H: 47°(W)~5.3°(T); V: 35.6°(W)~3.96°(T)
General	
Dimensions	56(W)* 56(H)* 110(L) mm
Work Temperature/humidity	-10 °C~50 °C, 10 % RH~60 % RH
Power supply	DC 12V±10%
Power consumption	5W MAX
Net weight	270g

For additional technical information and quotation, please contact your sales manager or our sales team.

All products comply with: MDD 93/42/EEC and 2007/47/EEC.

All products and product specifications are subject to change without prior notice to improve reliability, function, design or otherwise.

**DIXION**



# DIXION

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