

DUAL-DOME CEILING LED SURGICAL LIGHT · 160,000 LUX PER HEAD · 144 LEDs · LCD TOUCH

PCB-DCL-60



ABOUT THE PCB-DCL-60

Twin-dome ceiling illumination for the modern OR.

The **PCB-DCL-60 Dual-Dome Ceiling LED Surgical Light** delivers full operating-room illumination from two matched ceiling-mounted domes. Each dome carries **72 high-output LEDs** with proprietary multi-point optics for a **60,000 – 160,000 lux** adjustable spot and an illumination depth above **1,400 mm** — the standard for general, vascular, cardiothoracic and emergency surgical theaters.

An **aluminum-alloy shell with upgraded internal heat-dissipation** keeps each module cool over long procedures. The arc-shaped lamp holder design uses **multi-point light sources** for 360° uniform illumination with no ghosting — even if part of the dome is blocked, the overlapping beams from the other LED modules fill in the field.

Each dome is independently positioned by a **light-weight suspension arm**. The integrated **LCD touch panel** synchronously adjusts LUX, CCT (3,500 – 5,000 K) and CRI (Ra 85 – 97). **Available options:** wall control, wireless remote and built-in battery backup.

SPECIFICATIONS

Built to operating-room standards.

MODEL

PCB-DCL-60

CONFIGURATION

Dual-head · ceiling mount

ILLUMINATION INTENSITY

**60,000 – 160,000 lux per head
(adjustable)**

COLOR TEMPERATURE

3,500 – 5,000 K (adjustable)

COLOR RENDERING (RA)

85 – 97

HEAT TO LIGHT RATIO

< 3.6 mW/m²·lux

ILLUMINATION DEPTH

> 1,400 mm

LIGHT SPOT DIAMETER

120 – 300 mm (adjustable)

LED QUANTITY

72 per head · 144 total

LED SERVICE LIFE

> 50,000 hours

MOUNT TYPE

Ceiling · dual head

SHELL MATERIAL

**Aluminum alloy · enhanced heat
dissipation**

SPRING ARM

**Light-weight · independent per
dome**

HANDLE

Sterile center handle per dome

CONTROL

LCD touchscreen on each yoke

TOUCH PARAMETERS

LUX / CCT / CRI / on-off

ENDOSCOPE MODE

Special low-intensity for MIS

CIRCUIT DESIGN

**Parallel groups · independent
fail-safe**

PROTECTION

Over-voltage auto cut-off

LENS DESIGN

**Proprietary multi-point ·
uniform 360°**

POWER

Mains AC

OPTIONAL

**Wall control · wireless remote ·
battery backup**

CERTIFICATIONS

CE · ISO 9001 · ISO 13485

KEY FEATURES

Engineered for every surgical theater.



72 LEDs PER DOME · MULTI-POINT OPTICS

Each dome carries 72 high-output LEDs with proprietary lenses. Overlapping beams from multiple modules create a uniform 360° light spot with no ghosting — even with partial obstruction.



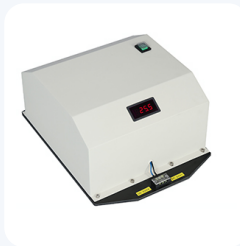
LCD TOUCHSCREEN CONTROL

User-friendly LCD touchscreen panel mounted on each yoke. Synchronously adjust **LUX, CCT and CRI** in real time. On/off and endoscope mode with one tap.



LIGHT-WEIGHT SUSPENSION ARM

Each dome has its own light-weight, flexible suspension arm for effortless angling and positioning. Smooth rotation through 360° — both domes can be independently positioned around the surgical field.



BATTERY BACKUP (OPTIONAL)

Built-in battery backup system ensures continuous illumination during mains-power failure. Critical for life-saving procedures and surgical safety. **Available as factory option.**



WIRELESS REMOTE (OPTIONAL)

Wireless remote control for sterile contactless operation. Adjust LUX, CCT, CRI and switch endoscope mode from across the OR — ideal for scrubbed personnel.



PARALLEL CIRCUIT FAIL- SAFE

Each LED group runs on an independent parallel circuit. If one group fails, the remaining modules continue uninterrupted — the procedure is never compromised. Over-voltage protection auto-cuts power at fault.

PCB Medical · Kentucky (USA)

Industrial Park Av, Suite 30
Louisville, Kentucky 40041 · Tel. (502) 333-0006

www.pcbmedical.net

Asia Headquarters

PCB Medical · China
2103 Citic Tower · Changsha