Brandon Medical®
Member of REINSBERG® GROUP

Quasar® Qi

SMART Surgical Lights



Quasar Qi - expertly engineered and aligned with Brandon Medical's SMART philosophy

Designed for Consistent Performance and Longevity

Built on a proven platform, the system is engineered to deliver consistent performance across clinical environments while supporting future growth and innovation. Every element is designed to balance stability, flexibility and long-term value.

Standardisation
Consistent systems and interfaces

Modularity
Scalable configurations

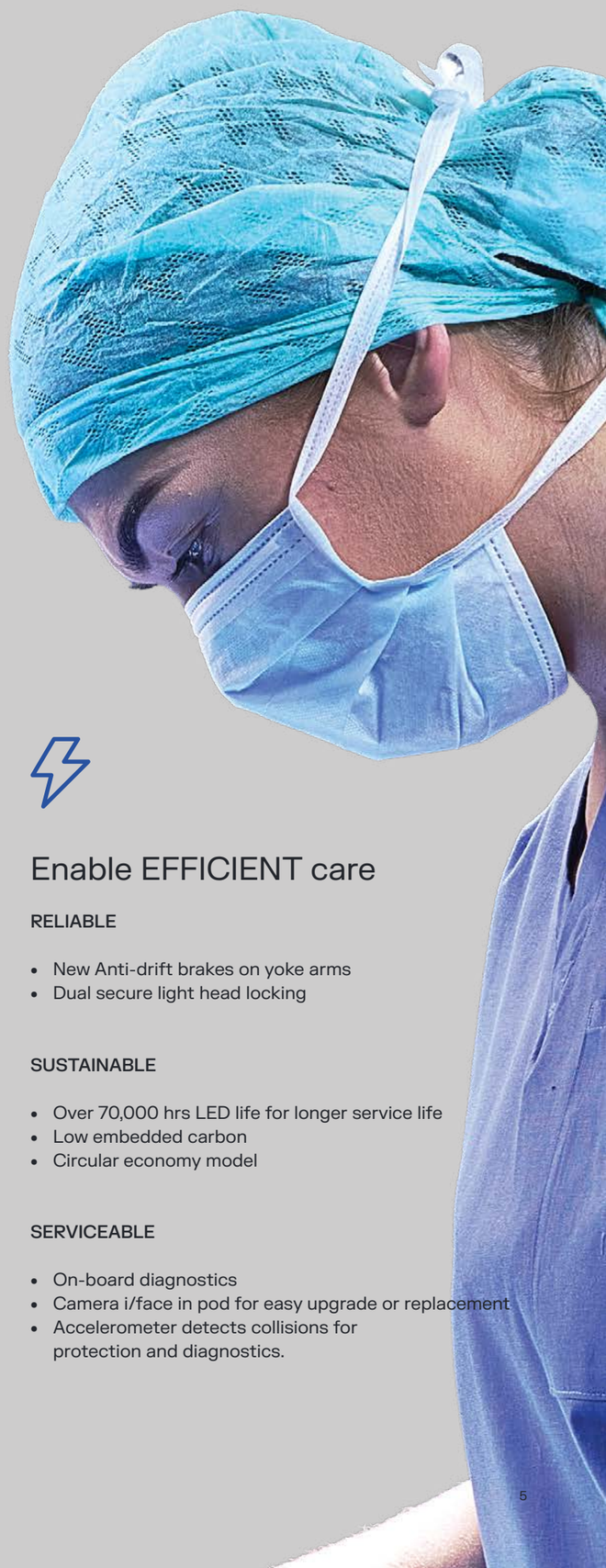
Adaptability
Supports evolving surgical techniques

Reliability
Proven engineering performance

Technology
Sensing, visibility, and connectivity

Qi transforms Brandon Medical's SMART principles into consistent performance, delivering the most significant evolution in operating lighting in a generation.

Engineered to Improve Performance, Safety and Sustainability



EMPOWER your surgery

PROTECT your Health

- Surgical Air Quality Index
- To measure and warn of surgical smoke
- To warn of NOx and VOCs
- To warn of excessive noise levels

IMPROVE Surgical Outcomes

- Infection Risk Rating
- To measure temperature in the surgical zone
- To measure particuates that might transport microbes (entrainment)
- To identify over-occupancy (CO_2)

MANAGE your Environment

- Actionable warnings
- Control of the surgical zone, not the room
- Real-time information and warnings

See with CLARITY

COMFORTABLE

- Red Boost to aid tissue visualiation
- Comfort Halo
- Shadow compensation

PRODUCTIVE

- Pre-sets for specific procedures and people
- Full range of HD cameras and monitors
- Ambient light that is dimmable and in 3 colours

SAFE

- Over illumination warning (overlapping beams)
- 160,000 Lux
- Near Perfect Colour Rendition (Ra, R9 and R15)
- Control of the surgical zone, not the room
- Real-time information and warnings

Operate safely with EASE

COMFORTABLE

- Intiutive controls and displays
- Easy to position with yoke handle that rotates with your wrist
- Multi-function sterile handle with gesture controls

PRODUCTIVE

- Local display of environmental data and warnings
- Wall control panel, optimised for gloved hands (with haptic feedback)
- Sync functions for light heads and controls

INFECTION CONTROL

- Easy to clean (virtual handles, smooth surfaces, no dirt traps, anti-scratch lens)
- Anti-microbial coatings
- Designed for Ultra Clean Ventilation

Enable EFFICIENT care

RELIABLE

- New Anti-drift brakes on yoke arms
- Dual secure light head locking

SUSTAINABLE

- Over 70,000 hrs LED life for longer service life
- Low embedded carbon
- Circular economy model

SERVICEABLE

- On-board diagnostics
- Camera i/face in pod for easy upgrade or replacement
- Accelerometer detects collisions for protection and diagnostics.

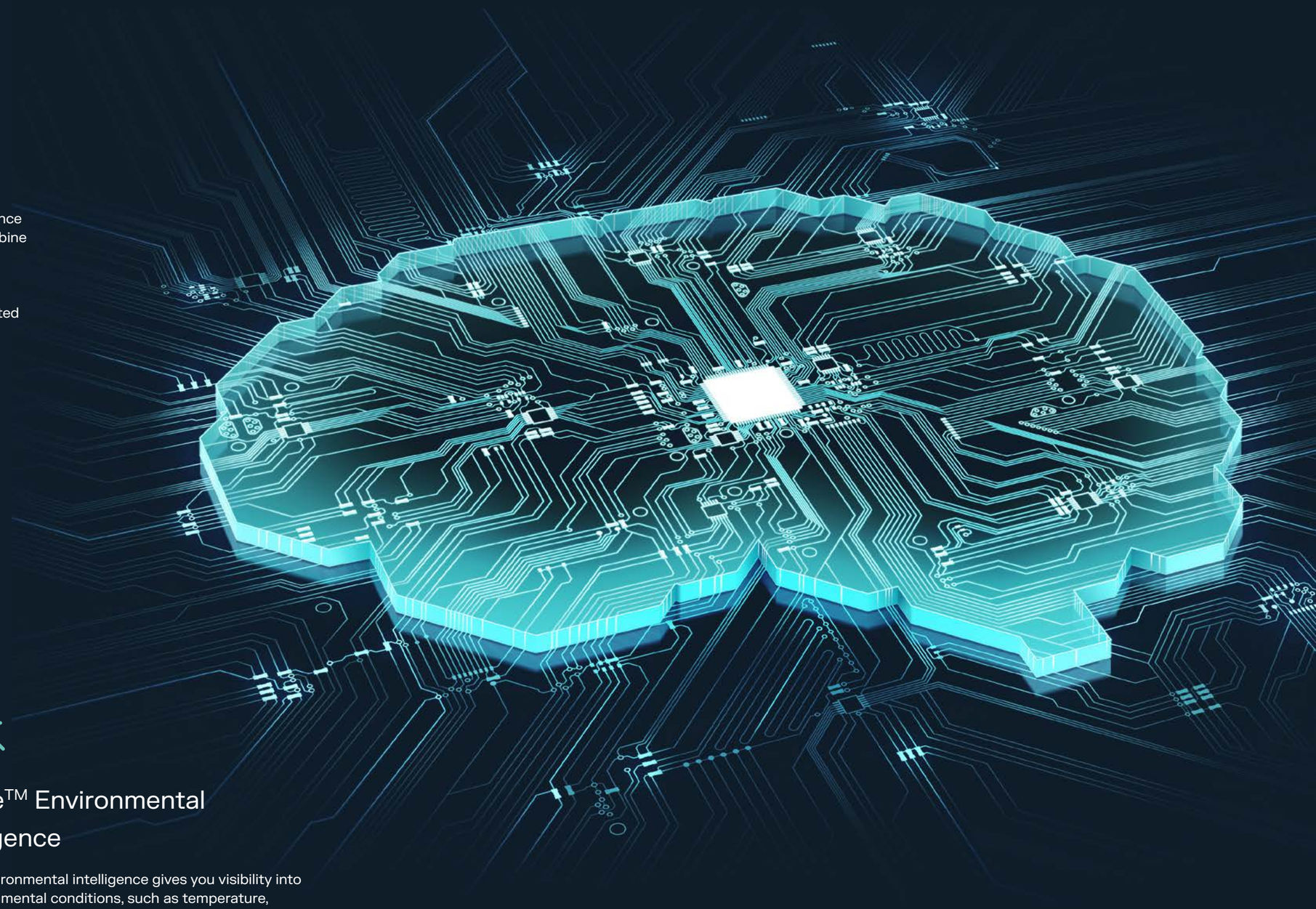
From Illumination to Intelligence

Control Where It Matters Most

Every surgical success relies on consistent lighting, climate, and performance - Qi ensures you never have to compromise. Quasar Qi is designed to combine advanced optical performance with real-time environmental awareness to support controlled surgical conditions.

Quasar Qi represents the next generation of surgical lighting. This integrated approach meets the evolving demands of modern surgical practice.

Built on the proven performance of Quasar eLite,
Qi introduces two core technologies:



iLite™ Optical Intelligence

iLite optical intelligence provides stable, high-quality illumination across the surgical field. Redesigned optics deliver consistent illumination, depth, and visual clarity.

iSense™ Environmental Intelligence

iSense environmental intelligence gives you visibility into key environmental conditions, such as temperature, humidity, and air quality, that would otherwise go unnoticed. The built-in Qi60 sensing suite provides continuous monitoring of operating room conditions. On Qi60 configurations, iSense monitors: Air quality (particulates, volatile organic compounds - VOCs, nitrogen oxides - NOx), CO_2 (carbon dioxide), noise levels (sound intensity), surgical smoke, temperature, and humidity (moisture in the air).

Clear visual indicators on the surgical light wall controller provide instant feedback on key environmental conditions, helping teams maintain awareness and respond to changes as they occur. Environmental data can also be integrated with iTCP (intelligent Theatre Control Panel), UCV (Ultra Clean Ventilation) and HVAC (Heating, Ventilation and Air Conditioning) systems, supporting a more controlled and consistent operating room environment.

Make the invisible visible. Control the environment. Improve surgical performance.

iSense Environmental Intelligence

Environmental Awareness, Made Visible and Actionable

Qi60 configurations continuously monitor:

- Air quality (particulates, volatile organic compounds - VOCs, nitrogen oxides - NOx)
- CO_2 levels (carbon dioxide)
- Noise levels (sound in decibels)
- Surgical smoke
- Temperature
- Humidity (air moisture)

This provides:

- Visibility of environmental factors associated with surgical conditions
- Awareness of changes that may require intervention
- Clear feedback without additional equipment or alarms

When Quasar Qi60 with iSense™ is integrated with iTCP, UCV and HVAC systems, its environmental data can support a more responsive operating environment. Real-time sensor information gives teams clearer visibility of changing conditions, can inform adjustments to ventilation, airflow and environmental settings, and can support automated control loops — enabling faster responses, more consistent control and greater confidence in maintaining protocol-driven operating conditions.

Environmental data monitored by Quasar Qi60 with iSense™ is displayed on the surgical light wall control

When Conditions Change During Surgery, You Know

Supporting Control of Conditions Linked to Surgical Outcomes and Patient Care

Quasar QI60 iSense™ environmental intelligence presents key environmental information clearly, helping surgeons and surgical teams identify changes as they occur and respond appropriately throughout a procedure.

Infection Risk Indicators

Helps you see environmental conditions linked to surgical site factors, identify when conditions change, and manage airflow and occupancy.

Surgical Smoke Detection

Monitors surgical smoke and particulate levels, helping teams respond to reduced visibility while maintaining awareness of airborne contaminants associated with surgical smoke exposure.

Noise Monitoring

Provides awareness on environmental noise levels, helps reduce distractions, and supports focus.

Air Quality Assessment

Tracks VOCs, particulates, and NOx, supports consistent environmental conditions, and helps identify potentially negative contributing factors.

Human-Centred Design for Surgical Teams

Quasar Qi is designed to help you stay focused, work consistently, and use it easily during procedures.

iLite Optical Platform

The iLite optical platform delivers wide, uniform illumination with reduced visual strain, supporting clear visibility throughout procedures.

Its precision-balanced arms and lightweight build make positioning smooth. Intuitive controls let you adjust quickly without losing focus.

iSense Integration

By integrating iSense, teams gain continuous environmental awareness without alarms or disruptions, benefitting from timely, relevant information that supports strong decision-making.

Qi helps keep workflows efficient, reduces interruptions, and maintains consistent working conditions that support safe clinical practice.





Ergonomics & Movement

Controlled Positioning, Minimal Effort

Qi's optimised weight and precision-balanced arms support effortless, precise positioning and stable placement throughout procedures.

Multiple Points of Rotation

Flexible articulation supports precise positioning across the full surgical field.

Lightweight Lamp Head

Designed for effortless repositioning with minimal physical effort during procedures.

Stable Positioning

Precision-balanced arms hold position reliably once set, reducing the need for readjustment.



The gesture-controlled central sterile handle enables adjustment of field size, intensity, and colour temperature without leaving the sterile field.

This helps maintain control of positioning and continuity during procedures.

Clarity in Critical Moments

Visual Performance – Lighting Intelligence

Qi brings together outstanding optical performance, environmental awareness, and human-centred design in one platform.



- Enhanced optical engineering
- Patented Red Boost™
- Improved Fat Beam uniformity
- Automatic shadow cancellation (Qi60 iSense & Qi30 iSense)
- Wider colour benefits
- Depth of illumination
- Comfort halo
- Long-term illumination without heat generation

Shadow Cancellation

Consistent clarity, even under obstruction.



The iLite optical platform uses distributed LEDs to under-light hands and instruments, providing:

- Minimal need for repositioning
- Reduced shadowing
- A clear, uninterrupted field

On Qi60 and Qi30 iSence models, **automatic shadow control**, powered by range-finding sensors, further optimises illumination in real time.

Colour Temperature Benefits

Qi's adjustable colour temperature offers clinicians full flexibility.



Lighting tailored to your workflow

Select from warmer or cooler lighting options	Easily adjust lighting during procedures
Flexible illumination accommodates individual preferences	

Surgical teams can choose the type of lighting they prefer, whether it's warmer or cooler - simply, intuitively and without having to interrupt their workflow. Greater choice, greater control, with the lighting designed to match the procedure.

Red Boost™

Fine-tune the view to suit you.

As part of the iLite™ optical platform, Brandon Medical's patented Red Boost™ technology allows you to increase the red content of the surgical light independently of colour temperature.

This gives you greater flexibility to tailor the light to your visual preference and can help with tissue differentiation.

Adjustable red emphasis	Tailored to your visual preference	Can help with tissue differentiation
Independent of colour temperature	A dedicated hard button makes Red Boost selection immediate and intuitive.	

Comfort Halo

A soft corona at the beam edge helps reduce harsh contrast between the illuminated surgical field and the surrounding area, supporting visual comfort during procedures.



Multi-Light Intensity Awareness

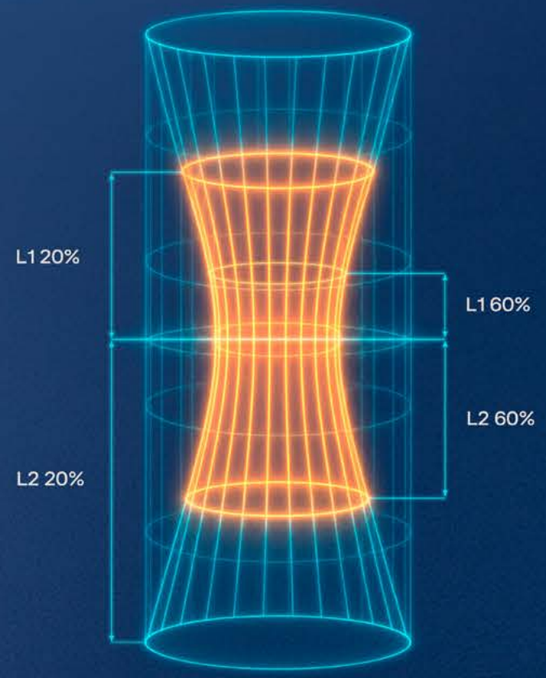
When more than one Qi light is operating at high intensity and each detects an object at approximately one metre, the system provides a warning to increase awareness when multiple lights are being used together.

- Clear feedback without interrupting workflow
- Supports greater awareness of lighting conditions
- Automatic warning during high-intensity multi-light use

Depth of illumination

Exceptional Depth of Illumination

Quasar Qi delivers exceptional depth of illumination, reaching **2,100 mm at 20% illuminance - with L1 at 630 mm** and **L2 at 1,470 mm**- and maintaining **1,100 mm at 60% illuminance**, with L1 at **400 mm and L2 at 700 mm**. This places Qi at the premium end of surgical lighting performance, sustaining effective illumination deep into the surgical field while reducing the need for repositioning.



Fat Beam Technology,

Wide, uniform illumination with exceptional clarity.

Fat Beam is a core feature of the iLite optical platform, delivering wide, uniform illumination with exceptional clarity:

- High intensity across the full beam width
- Large illuminated areas
- Reduced need for repositioning
- Smooth, comfortable lighting without glare
- Stable illumination of large wound sites
- Reduced eye strain

Better visibility. Better workflow. Better surgery.



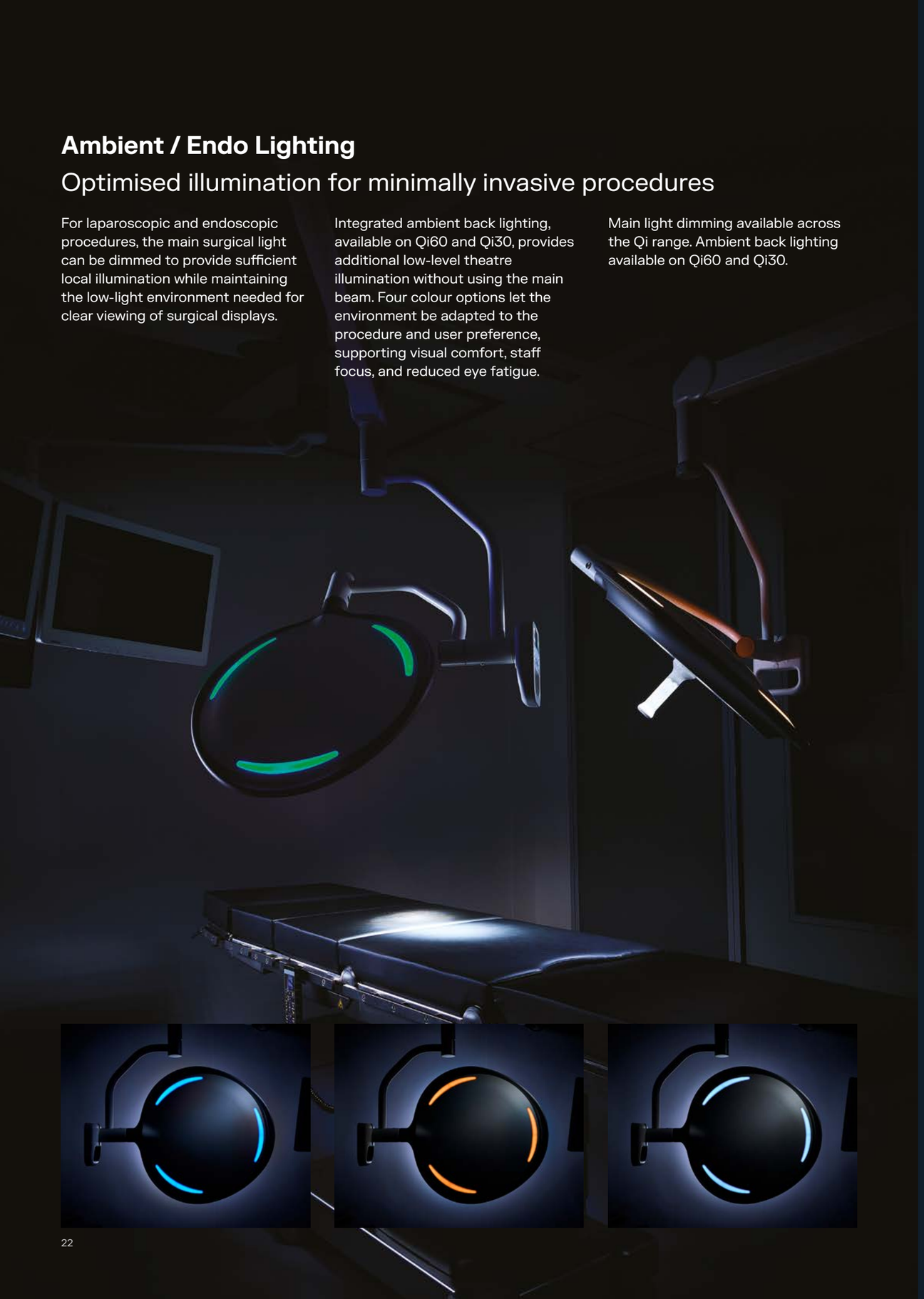
Ambient / Endo Lighting

Optimised illumination for minimally invasive procedures

For laparoscopic and endoscopic procedures, the main surgical light can be dimmed to provide sufficient local illumination while maintaining the low-light environment needed for clear viewing of surgical displays.

Integrated ambient back lighting, available on Qi60 and Qi30, provides additional low-level theatre illumination without using the main beam. Four colour options let the environment be adapted to the procedure and user preference, supporting visual comfort, staff focus, and reduced eye fatigue.

Main light dimming available across the Qi range. Ambient back lighting available on Qi60 and Qi30.





Quasar® Qi

Audio-Video

HD-SDI Camera System ‘Inside’

Quasar® Qi can be personalised to include optional features such as HD Cameras that are fully embedded into the lamp head. The HD-SDI system produces outstanding picture quality on large monitors and provides as foundation for Brandon Medical’s Symposia® systems. Optional 4K cameras are available as part of Symposia® as well.

Elimination of ‘Visual Banding

High definition cameras can detect the modulation frequencies of LED lights. This causes visual horizontal bands on the display monitors.

Quasar® Qi eliminates visual bands by accurately synchronising the frequencies of the LED modulation and the shutter speed of the HD camera system.

Symposia View® Monitor Carrier

Symposia-View Single Vesa
Symposia-View Single Vario
Symposia-View Duo Swivel
Symposia-View Duo Swivel Tilt
Symposia-View Space
Port & Cemor



Optimised Infection Control

Qi lampheads are designed for the strictest infection prevention:

- Smooth, sealed surfaces
- Anti-bacterial materials
- Easy to disinfect
- Minimal split lines
- Enclosed camera housing

Engineered for theatre-grade hygiene.



Wall Control & Workflow

Quasar Surgical Light Control (7” touchscreen).

- Clear symbol-based UI
- Up to 99 user profiles
- Sync control for multi-light setups
- Real-time sensor display (iSense)
- Quick adjustments outside the sterile field

When specified with iSense technology, the wall control also displays real-time environmental status, giving the team at-a-glance feedback on air quality, noise and smoke.

Designed to eliminate complexity and support efficient OR workflows.



Operate Efficiently

Low energy use, a long lifecycle, and scalable systems support long-term performance and efficiency. Qi is designed to work smart, last and grow with your theatre. This helps lower ownership costs and boost performance.

Quasar Qi applies the SMART philosophy through a modular, scalable platform that adapts to any operating room, from single- to multi-arm configurations, while seamlessly integrating with cameras and digital systems to future-proof installations.

It combines energy-efficient, long-life performance with consistent high output, reducing running costs and environmental impact while ensuring reliability over time.

Sustainability

Low power consumption	CO_2 Low CO_2 footprint
70,000 hours LED life	No harmful chemicals

160,000 lux intensity guaranteed for product lifetime

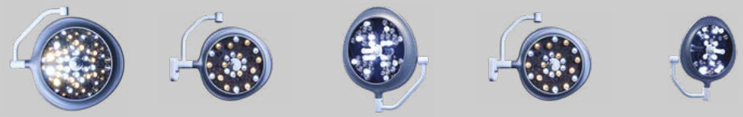
Sustainable, efficient, and dependable.

Quasar®
Technical Data



Light Quality Characteristics	Qi60	Qi30	Qi40	Qi30	Qi20
	iSense Range		iLite Range		
Illuminance @1m (klx)	160	160	160	160	140
Colour Temp Variable (°K)	3300-5500	3300-5500	3800-5500	3300-5500	3600-5200
CRI Ra	99	99	99	99	99
CRI R9	99	99	99	99	99
CRI R13 (Skin)	98	98	98	98	98
CRI R15 (Coloured Skin)	97	97	97	97	97
Lightfield Diameter D50 (mm)	130-210	100-160	140-210	100-160	100-160
Lightfield Diameter D10 (mm)	235-375	200-320	240-360	200-320	190-320
Light Uniformity Ratio D50/D10	0.6	0.5	0.6	0.5	0.5
Comfort halo (mm@1m)	1300	1300	1300	1300	1300
L1+L2 @ 20% (mm)	2100	1660	2100	1660	1580
L1+L2 @ 60% (mm)	1100	870	1100	870	790
LED Life (hours)	>70,000	>70,000	>70,000	>70,000	>70,000

Surgical Space Sensing & Control	Qi60	Qi30	Qi40	Qi30	Qi20
	iSense Range		iLite Range		
Overlapping Beam Warning	✓	✓	✓	✓	✓
Surgical Space Sensing & Control	✓	✓	✗	✗	✗
User-Configurable Active Shadow Management	✓	✗	✗	✗	✗
Temperature Sensing in Zone	✓	✗	✗	✗	✗
Humidity Sensing in Zone	✓	✗	✗	✗	✗
Surgical Smoke Detection	✓	✗	✗	✗	✗
Contaminated Air Detection	✓	✗	✗	✗	✗
Heightened Infection Risk	✓	✗	✗	✗	✗
Dangerous/Intrusive Noise	✓	✗	✗	✗	✗



Physical Features	Qi60	Qi30	Qi40	Qi30	Qi20
	iSense Range		iLite Range		
Front Screen	Hard coated polycarbonate		Hard coated polycarbonate		
Light Head Diameter (mm)	690	600	690	600	600
Ingress protection	IP54	IP54	IP54	IP54	IP54
Light Head Synchronisation	✓	✓	✗	✗	✗
Smart On-Board Service Diagnostics	✓	✓	✓	✓	✓
Self-Healing Electronics	✓	✓	✓	✓	✓
Long-Life brakes	Standard on all central axes and cardanic yoke arms		Standard on all central axes and cardanic yoke arms		
Sustainability	Low embedded carbon and end-of-life recycling		Low embedded carbon and end-of-life recycling		

Advanced Features	Qi60	Qi30	Qi40	Qi30	Qi20
	iSense Range		iLite Range		
Red Vision Boost Technology	✓	✓	✓	✓	✓
Ambient Lighting	Dimmable*	Dimmable*	✗	✗	✗
Endo mode	5% of max intensity	5% of max intensity	5% of max intensity	5% of max intensity	5% of max intensity
User Defined Profiles	Up to 99	Up to 99	✗	✗	✗
No. Touch Gesture Controls	Field size Intensity Colour	Field size Intensity Colour	✗	✗	✗
Infection Control	Antibacterial coatings on keypads and external handles, no exposed fasteners, smooth and continuous surfaces for easy cleaning				

Quasar Qi - The Light That Brings Intelligence to the Theatre

Quasar Qi is more than just a light. It is the most significant evolution in operating lighting in a generation.

iSense Environmental Intelligence

iSense environmental intelligence continuously monitors the theatre environment, including air quality, surgical smoke, CO_2, noise, temperature, and humidity. It turns this data into clear, actionable signals.

iLite Optical Intelligence

iLite optical intelligence gives you exceptional clarity with a wide, uniform beam, enhanced red definition, shadow management, and cool, glare-free illumination.

Together, they provide the surgical team with complete awareness of the field and its surroundings.

iSense

Qi60 iSense
Environmental sensor suite

160,000 Lux

- Large 108 Premium LEDs
- Full iSense™ Environmental Sensing
- Double and Single Cardanic Options
- Integrated Camera Option

iSense

Qi30 iSense
Optical sensor suite

160,000 Lux

- Medium Premium Head
- Full lighthead synchronisation
- Double and Single Cardanic Options
- Full iSense™

iLite

Qi40
Pure optical focus

160,000 Lux

- Large Premium Head
- No iSense™ Sensing
- Double & Single Cardanic Options
- Integrated Camera Ready

iLite

Qi30
Medium optical focus

160,000 Lux

- Medium Premium Head
- No iSense™ Sensing
- Double & Single Cardanic Options
- Compact Footprint

iLite

Qi20
Medium satellite

140,000 Lux

- Medium Premium Head
- No iSense™ Sensing
- Double & Single Cardanic Options
- Ideal Satellite / Tandem

Clarity. Control. Confidence.



Engineering, Safety & Manufacturing
Engineered for Safety. Built to Last.

MADE IN BRITAIN CE

REINSBERG® GROUP

Reinsberg Group encompasses European companies specializing in providing high-quality solutions in healthcare. Under the unified umbrella brand, the group manages companies such as the German Medifa & Rein Medical GmbH, the UK-based Brandon Medical, the Polish FAMED Zywiec & ALVO Medical or the Swiss Schaerer Medical Schweiz AG. The group helps its companies grow and become active, reliable, and dynamic partners for the public and commercial sectors on the global market.

By combining several synergistic effects, Reinsberg Group can focus more on strengthening science and research, thereby expanding a portfolio of goods and services. The holding structure enables partner companies to respond more quickly to market needs and explore new investment opportunities within the healthcare sector.

The goal of Reinsberg Group is to build a powerful MedTech Group of European based medical manufacturers, which globally provide their customers with superior yet affordable hospital solutions and products from one source. Reinsberg Group is part of the private investment company BHM group.

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ISO 9001 Certified

ISO 13485 Certified

MADE IN BRITAIN

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