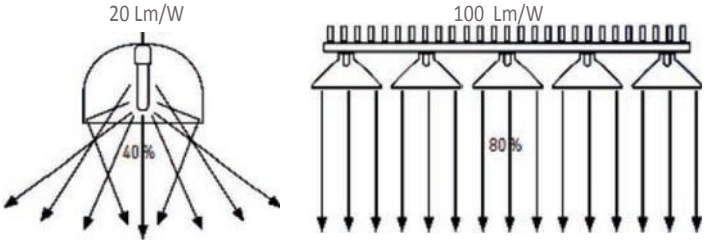
NEW ES-LED SERIE

Unique Features of ES-LED OT Lights

Efficient Focus of LEDs

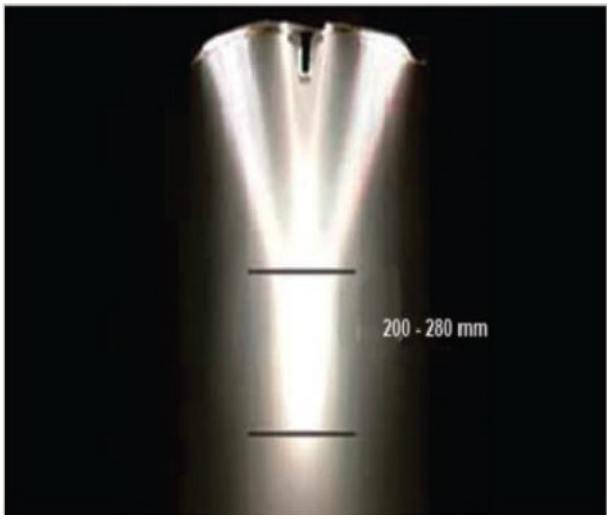


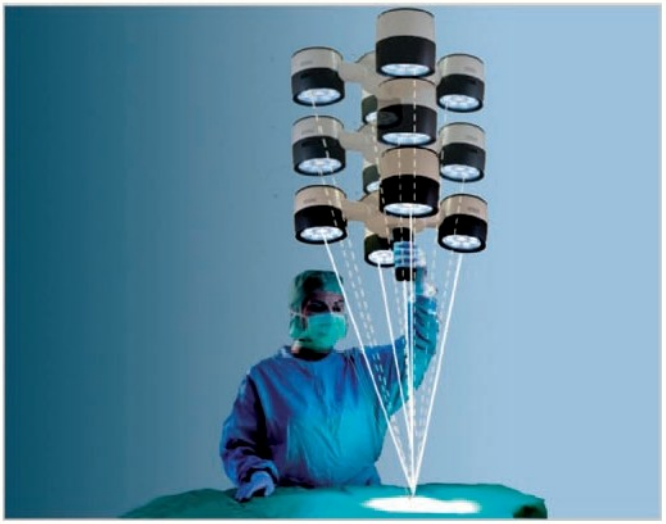
Conventional Light Source

LED light Source

Auto Focus

Due to high Focus Co-efflclent of LEDs, the beam formation takes piece at exactly 1 meter distance . Hence manual adjustment is eliminated;focus can be attained from any convenient angle by simple adjustment of distance of dome from site.





Beam Formation

ES- LED light produces high light intensity across the full illuminate area avoiding the variable contrast lighting and distractions,and offers uniform VISION for working area. Each Reflector generates homogeneous lighting for surface. This creates an Ideal depth of illumination, enabling the operator to work without the need to make the readjustments. Traditional Operating Theater lights create a high light intensity by squashing the light flux into the middle of the beam, creating a “hot-spot”. This high contrast'hot-spot’ gives a very blight central, leaving the rest of the field relatively dim in-comparison

Unique Features of ES-LED OT Lights

Laminar air flow compatibility and Compact design

The open design of the ES-LED lights reduces the Surface area that impedes the flow of air from the air supply ceilings, resulting in a less turbulent flow undemeath the light and thus controlling the contamination in the operating room. The shape of ES-LED's DOME assures the visual comfort and is particularly suitable for Laminar Flows. Lastly its compact design makes the ES-LED light specifically small, flat and streamlined which in turn gives it's distinctive and justifiably futuristic appearance.

Shadow Free illumination

Shadows exist in surgery, created by surgeon position, surgical team movement, equipment or the depth of a wound. The key is to minimize shadows so a surgeon always has the clearest possible view of the surgical site. ES-LED light ensures the relation between light body and light field diameter to perform an optimum illumination of the OT field in terms of area and depth. The ES-LED reflectors are designed to construct a number of light beams to dissolve the shadows.

Suturing Light for convenient post-operative procedure

When the lights are turned off a low intensity radiant beam is emitted so that suturing process can be carried out in great comfort and without time delay.

Multi Lens System

Good Visibility and the homogeneous illumination at the surgical site are the key elements during the operation. Therefore ES-LED has design its Multi-lens system based on the individual optical lens principia. Since each LED's has its own convergent lens, each creates its own light field. It distributes the emitted light volume uniformly in the operating room.

ES-LED ECO/M Mobile Configuration

Technical data	ES-LED ECO/M
Reflector System	4
Illumination Intensity	100000 Lux
LED Service Life	40000 Hours
Colour Temperature	5200 K
Colour Rendering Index	90 Ra
Temperature Increase in Surgoen's head area	< 2° C
Index Light Spot	220 - 280 mm
Brightness Adjustment	Nearly 0% - 100% From Panel.
Power	230 VAC / 50 / 60 Hz

Classification

Model Name	**ES-LED ECO/M**
Power	230 VAC / 50 / 60 Hz
Available upon special request	110V/50~60Hz
Note : power supply is defaulted as standard configuration. please make comment on special request for 110V and mention clearly in Purchase Order. Shipment date for special request might be later then standard please contact our salesperson to confirm.	
Certification	CE Mark, ISO 9001 and ISO 13485
Standard Followed	ISO 9001-2008, EN ISO 13485:2003 / AC 2007 BS EN 980-2008, BS EN 45014-98, BS EN ISO 14971:2009, BS EN 45014 -98, EN 62366:2008, IEC 60601-1-2-2007,IEC 60601-1-4

Packing / Packaging List

- Dome
- Sterilized Handle
- Control Panel
- Mobile Arms

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ISO 9001
ISO 13485

ES-LED ECO/C Ceiling Configuration

Technical data	ES-LED ECO/C
Reflector System	4
Illumination Intensity	100000 Lux
LED Service Life	40000 Hours
Colour Temperature	5200 K
Colour Rendering Index	90 Ra
Temperature Increase in Surgoen's head area	< 2° C
Index Light Spot	220 - 280 mm
Brightness Adjustment	Nearly 0% - 100% From Panel.
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Classification

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ES-LED ECO/CC Ceiling Configuration

Technlcal data	ES-LED ECO/CC Twin
Reflector System	4 + 4
Illumination Intensity	100000 Lux + 100000 Lux
LED Service Life	40000 Hours
Colour Temperature	5200 K
Colour Rendering Index	90 Ra
Temperature Increase in Surgoen's head area	< 2° C
Index Light Spot	220 - 280 mm
Brightness Adjustment	Nearly 0% - 100% From Panel.
Power	230 VAC / 50 / 60 Hz

Classification

Model Name	**ES-LED ECO/CC** Twin
Power	230 VAC / 50 / 60 Hz
Available upon special request	110V/50~60Hz
Note : power supply is defaulted as standard configuration. please make comment on special request for 110V and mention clearly in Purchase Order. Shipment date for special request might be later then standard please contact our salesperson to confirm.	
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ES-LED NOVA/M Mobile Configuration

Suitability For Laminar Air Flow

Special Easy Focusing arrangement

Technical data	ES-LED NOVA/M
Reflector System	4
Illumination Intensity	140000 Lux
LED Service Life	50000 Hours.
Colour Temperature	5500 K.
Colour Rendering Index	90 Ra
Temperature increase in Surgeon's head area	< 2 ° C
Index Light Spot	200 - 250 mm
Brightness Adjustment	Nearly 0%- 100% From Panel or Remote Control.
Power	230 VAC/ 50/60 Hz.

Classification

Model Name	**ES-LED NOVA/S**
Power	230 VAC / 50 / 60 Hz
Available upon special request	110V/50~60Hz
Note : power supply is defaulted as standard configuration. please make comment on special request for 110V and mention clearly in Purchase Order. Shipment date for special request might be later then standard please contact our salesperson to confirm.	
Certification	CE Mark, ISO 9001 and ISO 13485
Standard Followed	ISO 9001-2008, EN ISO 13485:2003 / AC 2007 BS EN 980-2008, BS EN 45014-98, BS EN ISO 14971:2009, BS EN 45014 -98, EN 62366:2008, IEC 60601-1-2-2007,IEC 60601-1-4

Packing / Packaging List

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- Sterilized Handle
- Control Panel
- Remote Control
- Mobile Arms

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ES-LED NOVA/C Ceiling Configuration

Suitability For Laminar Air Flow

Special Easy Focusing arrangement

Technlcal data	ES-LED NOVA/C
Reflector System	4
Illumination Intensity	140000 Lux
LED Service Life	50000 Hours
Colour Temperature	5500 K.
Colour Rendering Index	90 Ra.
Temperature Increase in Surgoen's head area	< 2° C
Index Light Spot	200 - 250 mm
Brightness Adjustment	Nearly 0% - 100% From Panel or Remote Control
Power	230 VAC / 50 / 60 Hz

Classification

Model Name	ES-LED NOVA/C
Power	230 VAC / 50 / 60 Hz
Available upon special request	110V/50~60Hz
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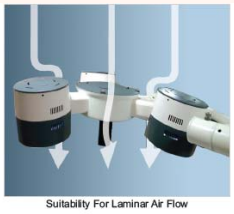
ES-LED NOVA/Cc Ceiling Configuration



Suitability For Laminar Air Flow

Special Easy Focusing arrangement

	ES-LED NOVA/Cc
Reflector System	4 + 3
Illumination Intensity	140000 Lux + 90000 Lux
LED Service Life	50000 Hours
Colour Temperature	5500 K.
Colour Rendering Index	90 Ra
Temperature Increase in Surgoen's head area	< 2° C
Index Light Spot	200 - 250 mm
Brightness Adjustment	Nearly 0% - 100% From Panel or Remote Control
Power	230 VAC / 50 / 60 Hz

Classification

Model Name	ES-LED NOVA/Cc
Power	230 VAC / 50 / 60 Hz
Available upon special request	110V/50~60Hz
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ES-LED NOVA/CC Ceiling Configuration

Suitability For Laminar Air Flow

Special Easy Focusing arrangement

Technlcal data	ES-LED NOVA/CC
Reflector System	4 + 4
Illumination Intensity	140000 Lux + 140000 Lux
LED Service Life	50000 Hours
Colour Temperature	5500 K.
Colour Rendering Index	90 Ra
Temperature Increase in Surgoen's head area	< 2° C
Index Light Spot	200 - 250 mm
Brightness Adjustment	Nearly 0% - 100% From Panel or Remote Control
Power	230 VAC / 50 / 60 Hz

Classification

Model Name	ES-LED NOVA/CC
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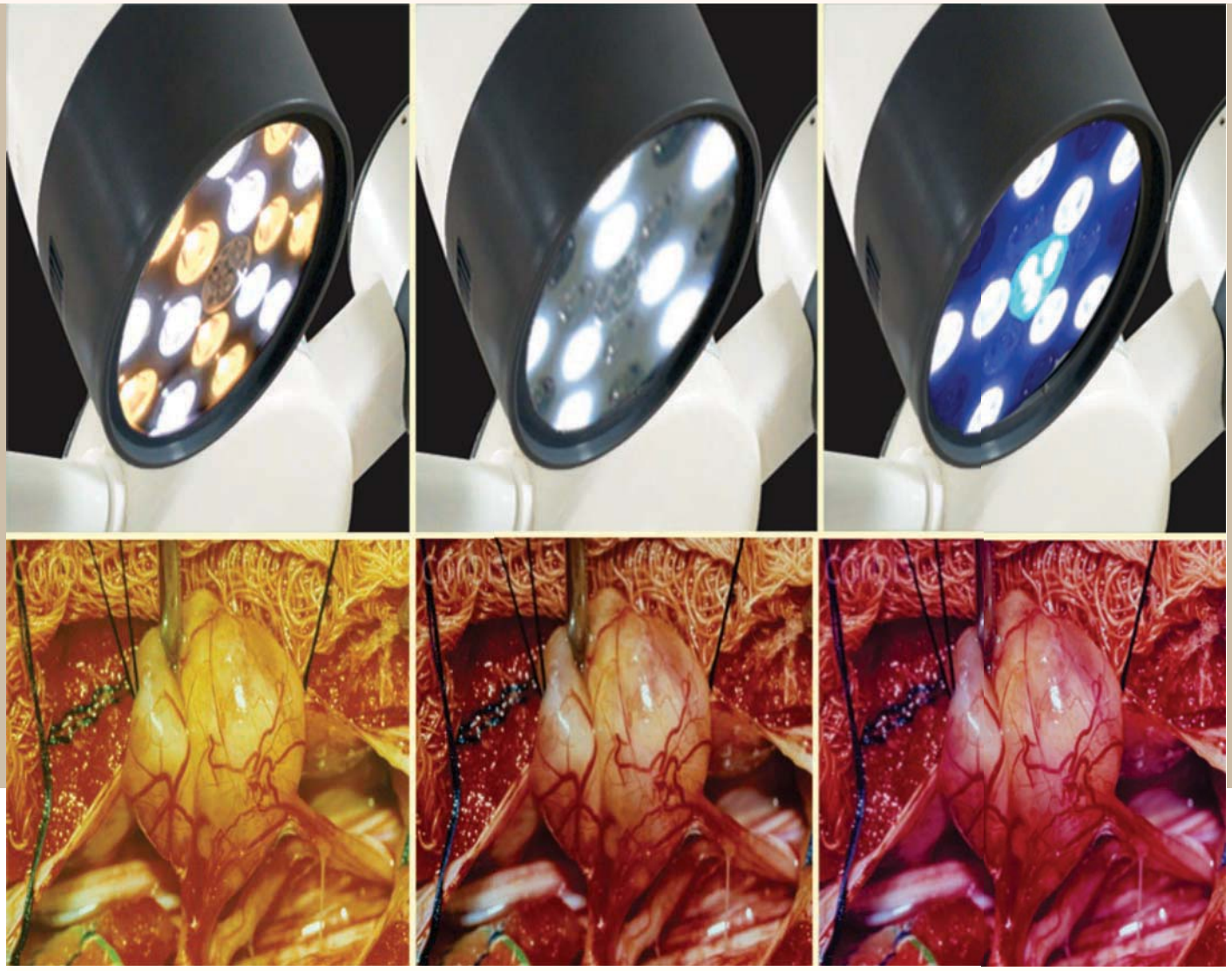
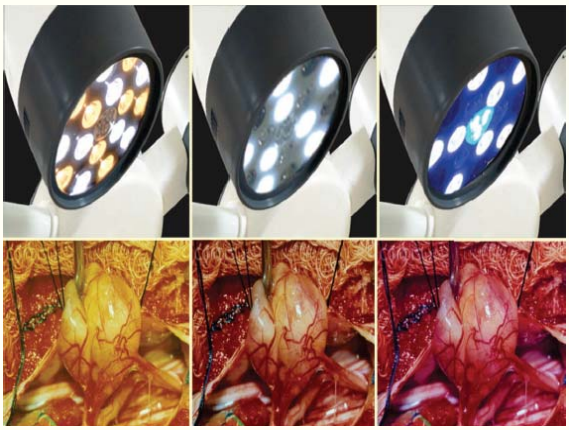
Colour Serles



Variable Colour Temperature

The colour temperature can be varied in multiple steps from 3800 K to 6800 K in steps of 200 K. A very wide range range of possible 20 options is provided. Light with a higher colour temperature improves the ability to concentrate, which allows the surgeons to have optimum visual conditions depending on the extent of perfusion of the surgicalsite. A better contrast can also be achieved by changing the light colour temperature in accordance with the tissue type and the structure of the OT light field.

ES-LED COLOR/M Mobile Configuration



Technical data	COLOR/M
Reflector System	4
Illumination Intensity	140000 Lux
LED Service Life	50000 Hours.
Colour Temperature	3800 K - 6800 K Variable
Colour Rendering Index	Variable
Temperature increase in Surgeon's head area	< 2 ° C
Index Light Spot	200 - 250 mm
Brightness Adjustment	Nearly 20% - 100% From Panel or Remote Control

Classification

Model Name	ES-LED COLOR/M
Power	230 VAC / 50 / 60 Hz
Available upon special request	110V/50~60Hz
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ES-LED COLOR/C Ceiling Configuration

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Illumination Intensity	140000 Lux
LED Service Life	50000 Hours
Colour Temperature	3800 K - 6800 K variable.
Colour Rendering Index	Variable
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Index Light Spot	200 - 250 mm
Brightness Adjustment	Nearly 20% - 100% From Panel or Remote Control

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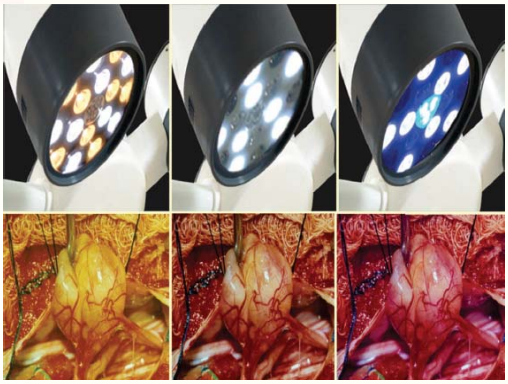

	ES-LED COLOR/CC
Reflector System	4 + 4
Illumination Intensity	140000 Lux + 140000 Lux
LED Service Life	50000 Hours
Colour Temperature	3800 K - 6800 K variable.
Colour Rendering Index	Variable
Temperature Increase in Surgoen's head area	< 2° C
Index Light Spot	200 - 250 mm
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