

# evonos



## evo\_LIGHT.

Examination Lights

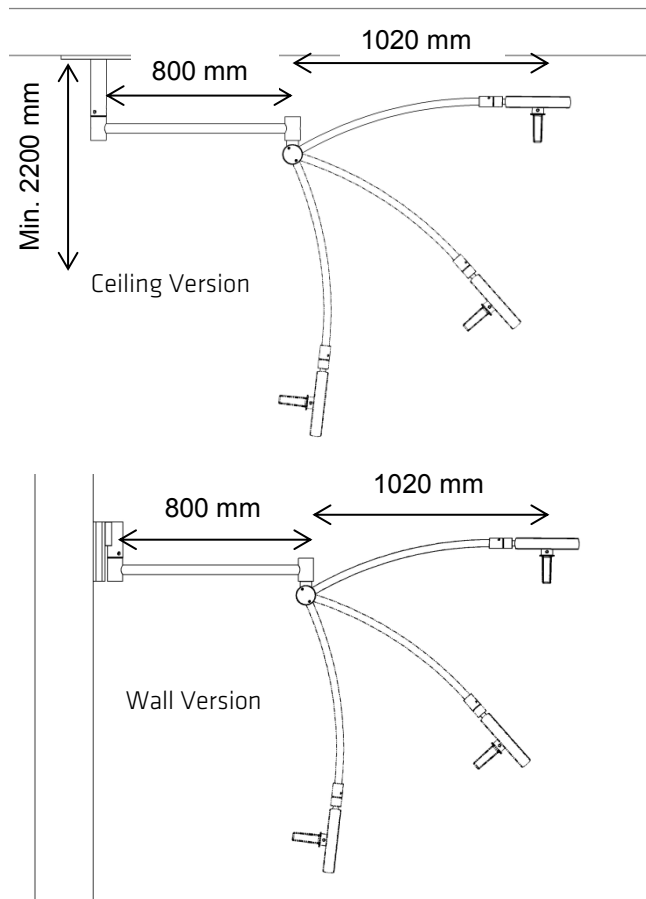
evo\_LIGHT 300

evo\_LIGHT 350

evo\_LIGHT 450



Mobile Version



Technical Data	evo_LIGHT 300	evo_LIGHT 350	Evo_LIGHT 450
Weight of leight head (kg)	2,5	3,0	4,5
Lifetime of LED light source (h)	>50.000	>50.000	>50.000
Power consumption (W)	14	14	32
Light intensity in 1m distance (klx)	80	100	130
Light field (mm)	170	170	170-220
Color rendering index Ra	≥96	≥96	≥96
Red rendering index R9	≥96	≥96	≥96
Increase of temperature at head height	<1°C	<1°C	<1°C
Color temperature (Kelvin)	4900	4900	4900
Certification	CE	CE	CE

Tolerance ±10%; technical specifications are subject to change

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## evo\_LIGHT.

Operating Lights

evo\_LIGHT 500

evo\_LIGHT 500+

evo\_LIGHT 700

## Monocoque Housing

designed, developed and exclusively made in Germany. The Monocoque housing is milled out of a solid piece of aluminium.

## Sensor Technology

A newly designed integrated control of the light - a capacitive touch control embedded into the toughened safety glass of the light head guarantees lifetime performance and absolute resistance against detergent and disinfectants.

Integrated Ambi-Light supports endoscopic operations. The full cardanic suspension guarantees perfect positioning.



## Highest Hygiene Standards

The innovative and unique manufacturing method of the evo\_LIGHT housing milled out of a solid piece of aluminium offers a surface without holes and screws. The foundation forms the ideal basis for perfect cleaning and hygiene.

Ideal laminar flow properties and aerodynamic design provide best cooling conditions for the LED's. The lean design at only 55mm offers one of the most elegant light heads in the market. Improved LED's provides best in Class temperature of 4900 Kelvin, offering a cool, bright and efficient illumination of the surgical field.



## Box of Bricks

We provide a Box of Bricks for local assembling and manufacturing of the evo\_LIGHT System. Please contact us.

Technical Data	evo_LIGHT 500	evo_LIGHT 500+	Evo_LIGHT 700
Weight of light head (kg)	14	14	18
Dimensions Ø (mm)	586x597x55	586x597x55	679x708x55
Lifetime of LED light source (h)	>50.000	>50.000	>50.000
Rotation	360°	360°	360°
IP Protection class	42	42	42
Power consumption (W)	35	35	42
Light intensity in 1m distance (klx)	130	160	160
Electronic brightness adjustment	40-130	40-160	40-160
Light field (d10) at illuminance at a distance of 1m (mm)	150-280	150-280	170-300
Electrical light field adjustment	Ja/Yes	Ja/Yes	Ja/Yes
Color rendering index Ra	96	96	96
Red rendering index R9	96	96	96
Depth of light field L1 + L2 (mm) 20%	1000	1000	900
Increase of temperature at head height	<1°C	<1°C	<1°C
Color temperature (Kelvin)	4900	4900	4900
Integrated camera (central position)	Optional HD	Optional HD	Optional HD
Certification	CE	CE	CE

Tolerance  $\pm 10\%$ ; technical specifications are subject to change

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## evo\_LIGHT.

Operating Lights

evo\_LIGHT 600

evo\_LIGHT 600+

evo\_LIGHT 800

## Monocoque Housing

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## Highest Hygiene Standards

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Ideal laminar flow properties and aerodynamic design provide best cooling conditions for the LED's. The lean design at only 55mm offers one of the most elegant light heads in the market. Improved LED's provides best in Class temperature of 4900 Kelvin, offering a cool, bright and efficient illumination of the surgical field.

## Fresnel Technology – Multi Colour

Multi-Color OR Light allows the adjustment of colour temperature during surgery, depending on surgical application and tissue colour sensitivity.

Technical Data	evo_LIGHT 600	evo_LIGHT 600+	Evo_LIGHT 800
Weight of light head (kg)	15	15	20
Dimensions Ø (mm)	585	585	690
Lifetime of LED light source (h)	>50.000	>50.000	>50.000
Rotation	360°	360°	360°
IP Protection class	42	42	42
Power consumption (W)	42	42	50
Light intensity in 1m distance (klx)	130	160	160
Electronic brightness adjustment (klx)	40-130	40-160	40-160
Light field (d10) at illuminance at a distance of 1m (mm)	150-250	150-280	170-300
Electrical light field adjustment	Ja/Yes	Ja/Yes	Ja/Yes
Color rendering index Ra	96	96	96
Red rendering index R9	96	96	96
Depth of light field L1 + L2 (mm) 20%	1000	1000	1000
Increase of temperature at head height	<1°C	<1°C	<1°C
Color temperature (Kelvin)	3500 - 5500	3500 - 5500	3500 - 5500
Integrated camera (central position)	Optional HD	Optional HD	Optional HD
Certification	CE	CE	CE

Tolerance ±10%; technical specifications are subject to change

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## evo\_LIGHT.

4k Camera System

## Technical Data

	HD-System	4k-Wireless-System
Image Device, Sensor	1/2.8-type Exmor CMOS	1/2.5 Type CMOS
Video Standards	1080p 50/60 Hz	4k 25/30 Hz progressiv
Lines x Gaps	1920 x 1080 Full HD	3840 x 2160 4k
Number of effective Pixels	approx. 2.38 Megapixels	approx. 8.51 Megapixels
Aspect Ratio	16 to 9	16 to 9
Minimum Illumination (50%)	1,4 Lux	1,6 Lux
Signal To Noise Ratio S/N	> 50 dB	> 50 dB
Zoom	10-times optical / 12-times digital → 120 x with optical zoom	20x times optical / 12 times digital → 240 times zoom
Focal distance	f = 3,8 mm (wide) up to 38 mm (tele)	f = 4,4 mm(wide) up to 88,4 mm (tele)
Electronic Shutter	1/1s to 1/10000 s, 22 steps	1/1s to 1/10000 s, 22 steps
Operating Temperature	0°C to 45°C	0 °C to 45 °C
Power Consumption	6 V ...12 V DC / 3,7 W	12V...42 V DC / 7 W
Minimum Working Distance	10 mm (wide end) 800 mm (tele end)	80 mm (wide end) 800 mm (tele end)
Power Supply	via OR light	via OR light
Picture Rotation	mechanical	automatical
Video Outputs	HDSDI	DVI-Connector (Signals HDMI 1.4 compatible)
Focus	Auto or Manual	Auto or Manual
Aperture	Auto or Manual	Auto or Manual
White Balance	Auto or Manual	Auto or Manual
Freeze Function	yes	yes
Transmission	Cable	Wireless HD-Standard, Lossless Transmission Frequency 60GHz
Weights Of Camera	1000g	1000g

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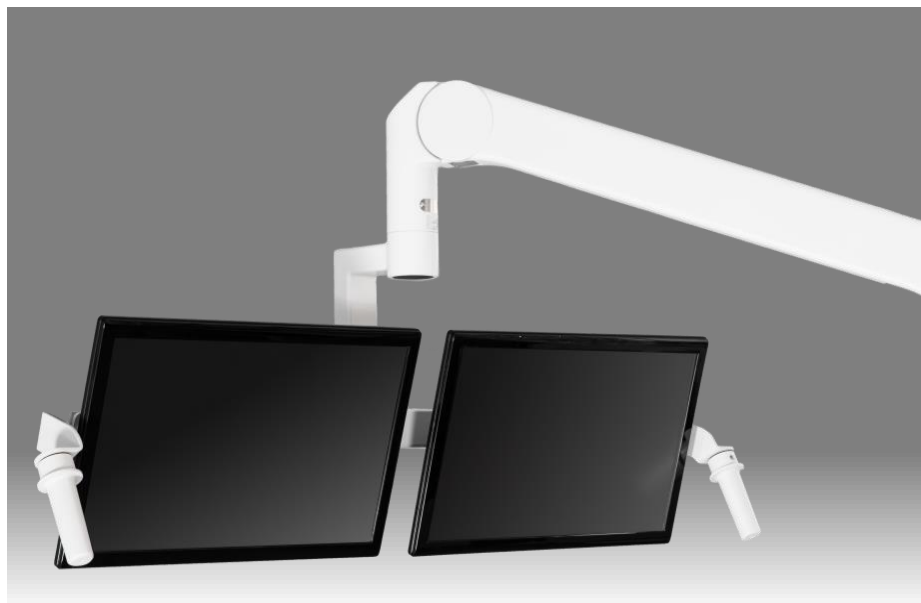
evo\_LIGHT.

Monitor Yoke

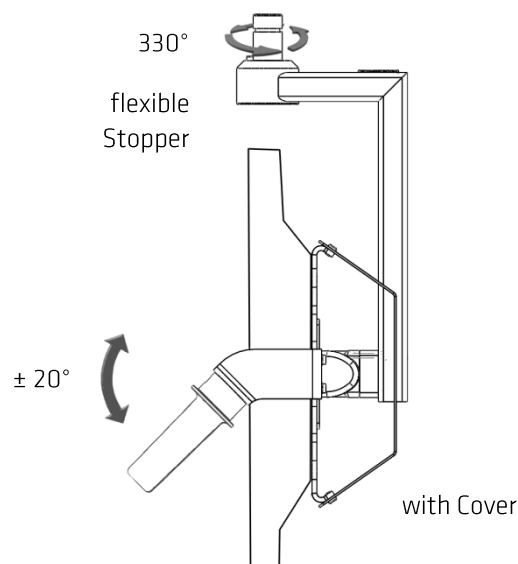
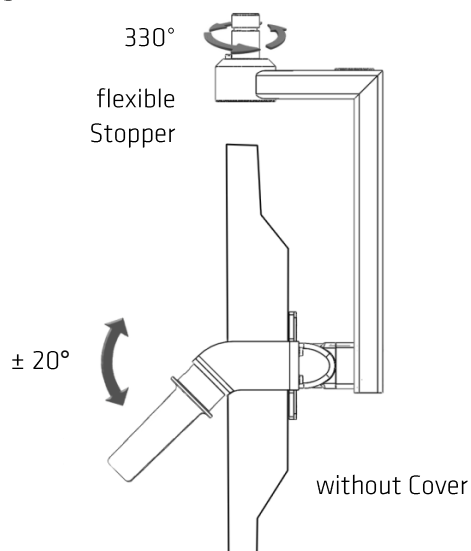
The evo\_LIGHT Monitor Yoke is available as a single yoke and a double yoke. Both versions are available with **cover**.



Single Version



Double Version



### Technical Data

	Single Yoke	Double Yoke
Monitor size	21 - 32 inch	21 - 32 inch
compatible with	VESA 100	VESA 100
Adjustment tilt angle	$\pm 20^\circ$	$\pm 20^\circ$
max. Monitorweight	18 kg	18 kg
sterilizable handle	Yes	Yes
internal cable routing	Yes	Yes

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