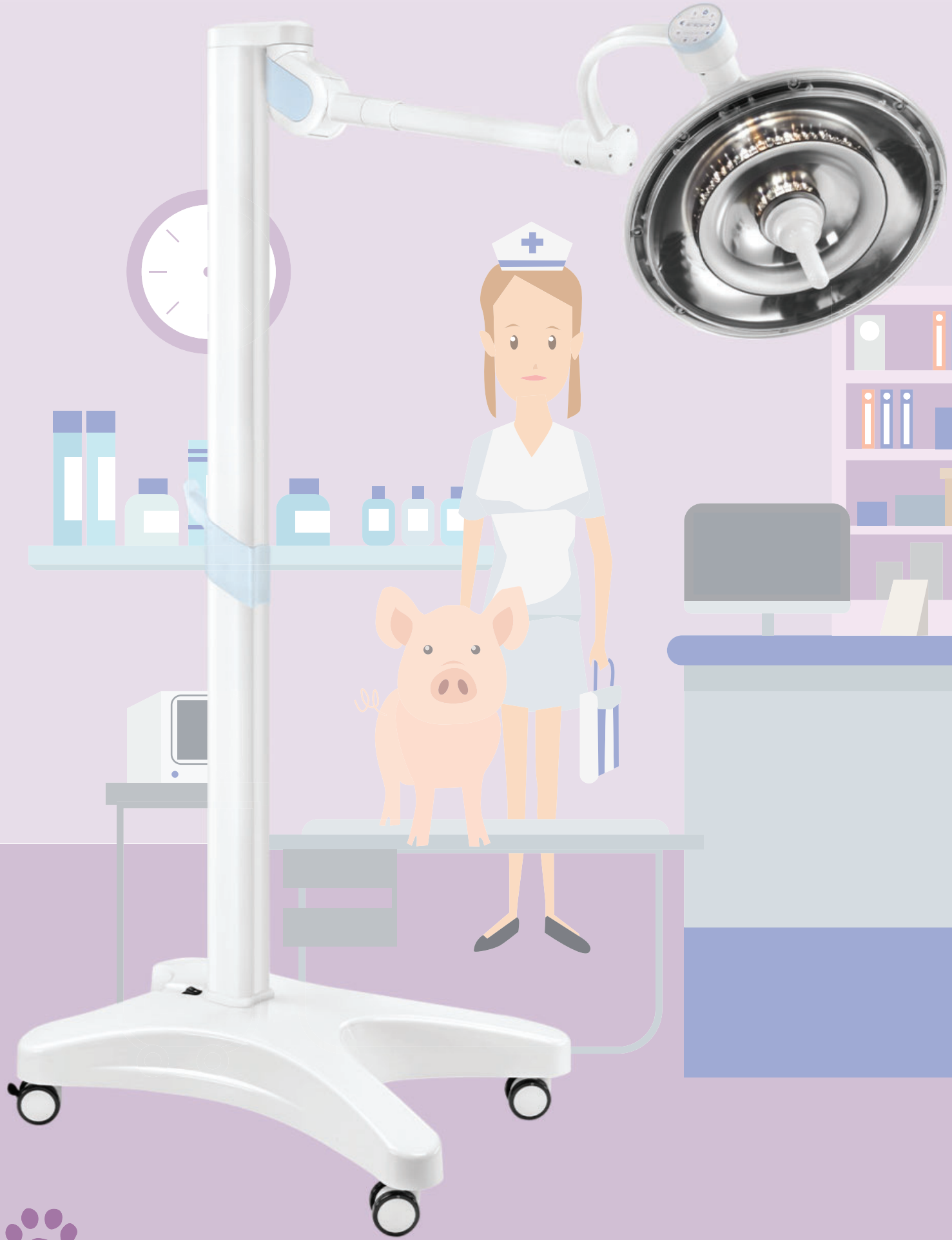
MASTIFF



MASTIFF VERSIONS AVAILABLE:

CEILING

(code **MASTIFFSO**)

DOUBLE - CEILING

(code **MASTIFFX2**)

CEILING
with double yoke

(code **MASTIFFSO + DY1**)

DOUBLE - CEILING
with double yoke

(code **MASTIFFX2 + DY2**)

MOBILE

(code **MASTIFFPI**)

MASTIFF

Strengthened by the result achieved in 2002 with the first LED surgical lamp in the world, in 2017 Rimsa presented to the public the first surgical lamp without any glare.

LIGHT WITHOUT GLARE

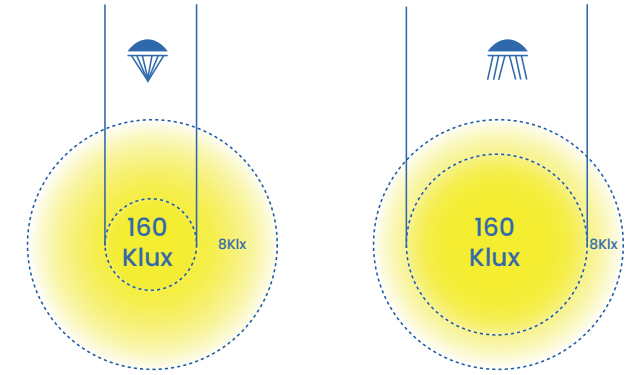
Thanks to the "2R" technology it was in fact possible to completely suppres the glare: the sensation of blindness created by looking at a highly luminous surface like a scialytic lamp.
The 2R technology is based on a double reflection optical collimation of the light rays coming from the LEDs, conveyed through an aspherical lens and afterwards projected onto two elliptical mirrors and filtered by a specially designed screen.
The use of this technology developed in collaboration with a national university, also allows for the maximization of the light emitting surface; the light emitting surface area matches the reflector's area.

COMPENSATION AREA

The risky effect of black spots resulting from direct glare is further reduced by the presence of a compensation area(1): an area with low light intensity around the surgical field that mitigates the visual transition from an area with high light intensity to a darker one.

MANEUVERABILITY

Mastiff has been conceived, designed and built to meet ergonomics and maneuverability requirements; the reflector was designed to allow a comfortable grip by the operator(2), the light intensity can be adjusted by the sterilizable handle(3) and then by the surgeon himself during the operation through a touch command.

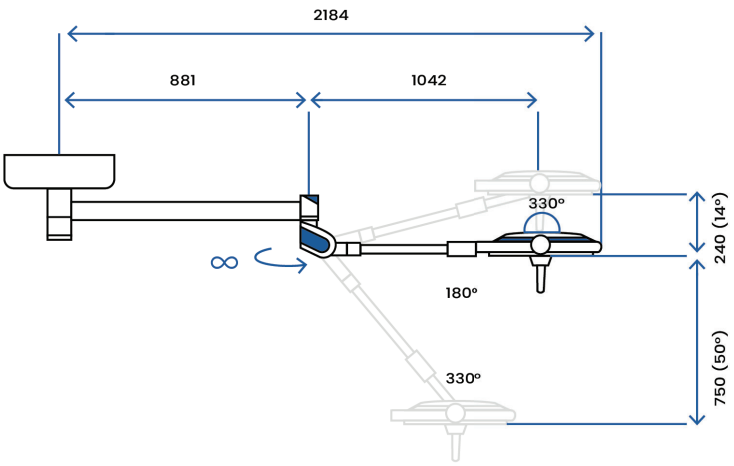


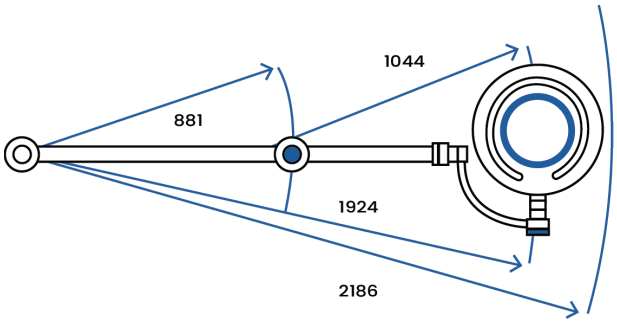
(1)Visualisation of the compensation area

(2) comfortable hand grip

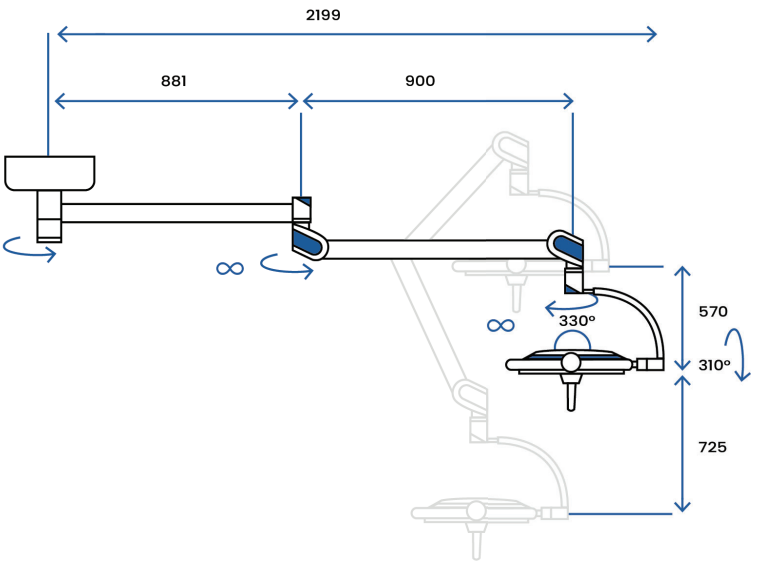
(3) sterilizable handle to adjust the light intensity and point the lamp

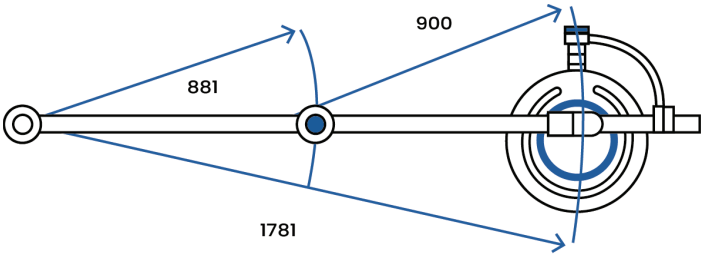
MASTIFFSO





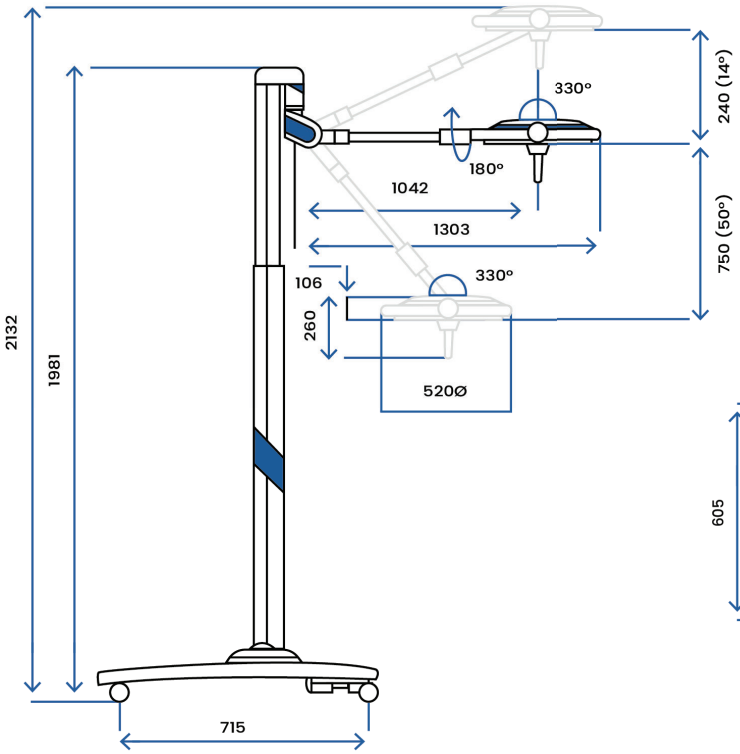
MASTIFFSO+DY1

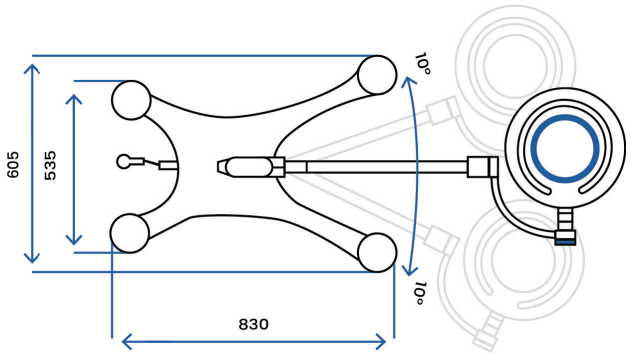




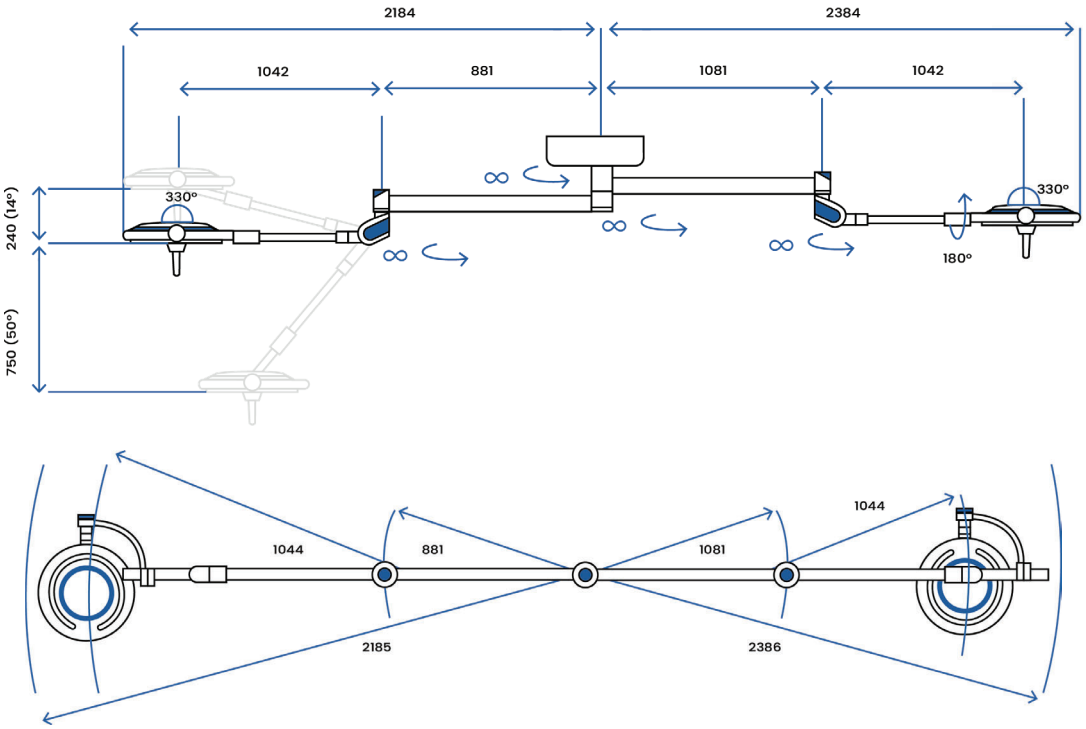
MASTIFFPI

unit of measurement: mm



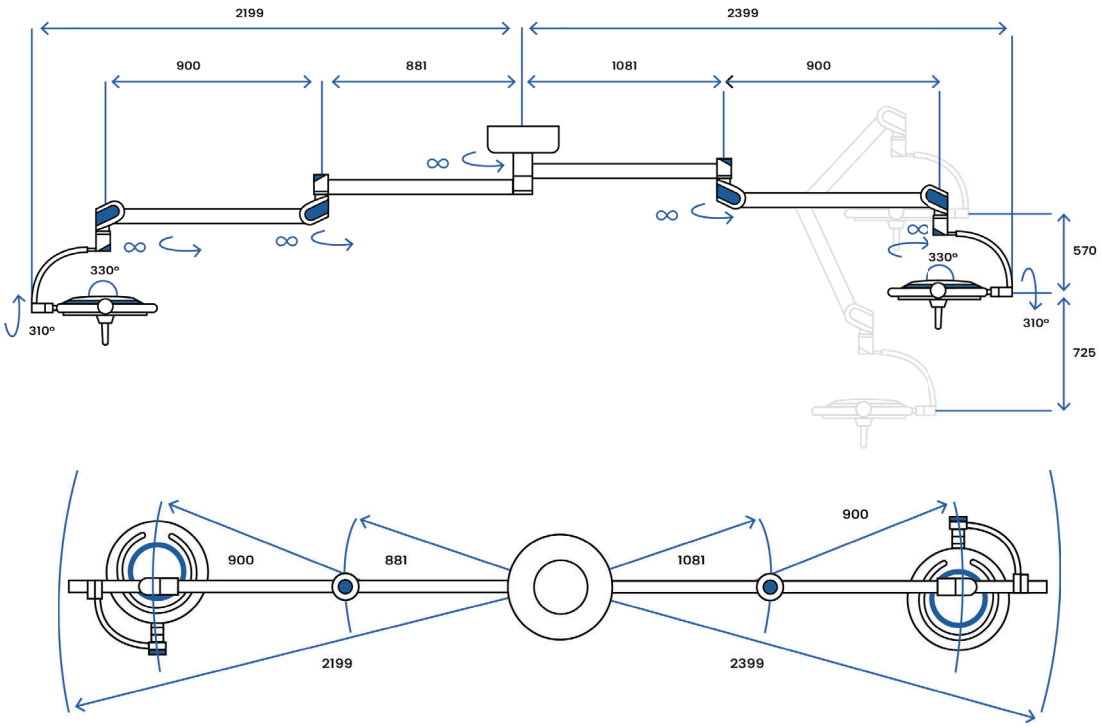


MASTIFFX2



unit of measurement: mm

MASTIFFX2+DY2



PERFORMANCES

Light intensity at 1 m distance (Ec)	Lux	160.000
Color temperature (7 selections)	K	3.800-5.000
Color rendering index (CRI)	Ra	96
Color rendering index R9		96
d10 light field diameter where illuminance reached 10% of Ec	mm	210
Diameter adjustment from - to -	mm	210-350
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	cm	49
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	cm	103
Max irradiance	W/m^2	580
Irradiance / illumination	mW/m^2lx	3,68
Luminous flux	Lm	1785

POWER CONNECTION DETAILS

Primary alternate voltage (ac)	V	100 - 240
Frequency	Hz	50/60
Elettrical absorption	W - VA	75 - 85
Light head diameter	cm	52
N. of LEDs	LED	84
Average LED life	hours	> 60.000