

Data sheet



Support arm system
ACROBAT SWING



Support arm system
with height stop



Support arm system
with height stop and
full cardanic
suspension

Features

- User-friendly display keypad**
- Electronic focussing (F)**
- Adjustment of light intensity**

Optional features

- Sterilizable handle - 200 sterilisation cycles**

Technical data

Type of device	Examination light
Class (according to MDR)	I
IP protection class (IEC 60529)	IP 42
Temperature (for transport and storage) ¹	-25 °C to +70 °C
Relative humidity (for transport and storage) ¹	5 % RH to 95 % RH
Air pressure (for transport and storage) ¹	700 hPa to 1060 hPa
Operating time	Continuous operation possible
Weight of light body incl. accessories	max. 2.4 kg / 5.3 lbs
Expected life ²	10 years

¹ Transport and storage conditions for lamp body and power supply unit.

² At the end of the expected (designed) service life, the lamp must be serviced more frequently for safe operation.

Lighting technical data

	Mach LED 130F	Mach LED 130	Mach LED 130 Plus
Central illuminance E_c (distance 1 m)	70,000 Lux	60,000 Lux	100,000 Lux
Light field diameter d10 (mm / in)	134 / 5.28	142 / 5.59	123 / 4.84
Light field diameter d50 (mm / in)	67 / 2.64	73 / 2.87	64 / 2.52
Remaining illuminance with one mask	0 %	0 %	0 %
Remaining illuminance with two masks	42 %	53 %	50 %
Remaining illuminance with tube	100 %	100 %	100 %
Remaining illuminance with tube and one mask	0 %	0 %	0 %
Remaining illuminance with tube and two masks	42 %	53 %	50 %
Depth of illumination (20% of E_c , L1+L2) (mm / in)	1664 / 65.51	1790 / 70.47	1680 / 66.14
Depth of illumination (60% of E_c , L1+L2) (mm / in)	595 / 23.43	775 / 30.51	654 / 25.75
Color rendering index R_a (type)	96	96	96
Color rendering index R_9 (type)	94	94	94
Color rendering index R_{13} (type)	97	97	97
Irradiance E_e (distance 1 m / 39.37 in)	258 W/m ² 0.166 W/in ²	234 W/m ² 0.151 W/in ²	366 W/m ² 0.236 W/in ²
Max. irradiance $E_{e,max}$ (distance 0.91 m / 35.83 in)	270 W/m ² 0.174 W/in ²	-	-
Max. irradiance $E_{e,max}$ (distance 0.85 m / 33.46 in)	-	252 W/m ² 0.163 W/in ²	-
Max. irradiance $E_{e,max}$ (distance 0.88 m / 34.66 in)	-	-	377 W/m ² 0.243 W/in ²
Ratio of irradiance (E_e / E_c)	3.69 (mW/m ²) /lx 0.0024 (mW/in ²) /lx	3.9 (mW/m ²) /lx 0.0025 (mW/in ²) /lx	3.66 (mW/m ²) /lx 0.0024 (mW/in ²) /lx
Focusable light field size (cm / in)	13 - 19 / 5.12-7.48	14 / 5.51 (fixed focus)	12 / 4.72 (fixed focus)
Color temperature (Kelvin)	4500	4500	4500
Temperature increase in the head area	0.5 °C	0.5 °C	0.5 °C
Luminous efficacy (efficiency)	271 lm/W	256 lm/W	273 lm/W
Number of LEDs	19	19	19
Working distance (cm / in)	70 - 140 / 27.59 - 55.12	70 - 140 / 27.59 - 55.12	70 - 140 / 27.59 - 55.12
Dimming range (%)	50 - 100	50 - 100	50 - 100
Dimming levels	5	5	5
Diameter of light body (cm / in)	33 / 12.99	33 / 12.99	33 / 12.99
Life-span of LEDs (hours)	60,000	60,000	60,000
Height adjustment (cm / in)	123 / 48.43	123 / 48.43	123 / 48.43

All technical data are subject to certain fluctuations. For production reasons, the actual values have a tolerance of $\pm 5\%$.

The values for the color temperature can have deviations of ± 200 K.

Electrical data

Protection class/-type	I
Input voltage	24 V DC
Power consumption	16 W
Current	0.7 A max.

Mains power supply 60 W

Input voltage (primary)	100-240 V AC, 50/60 Hz
Current (primary)	1.5 A max.
Output voltage (secondary)	24 V DC
Output power (secondary)	60 W

**Mains power supply 40 W
(mobile version)**

Input voltage (primary)	100-240 V AC, 50/60 Hz
Current (primary)	1.2 A max.
Output voltage (secondary)	24 V DC
Output power (secondary)	40 W

Mechanical data

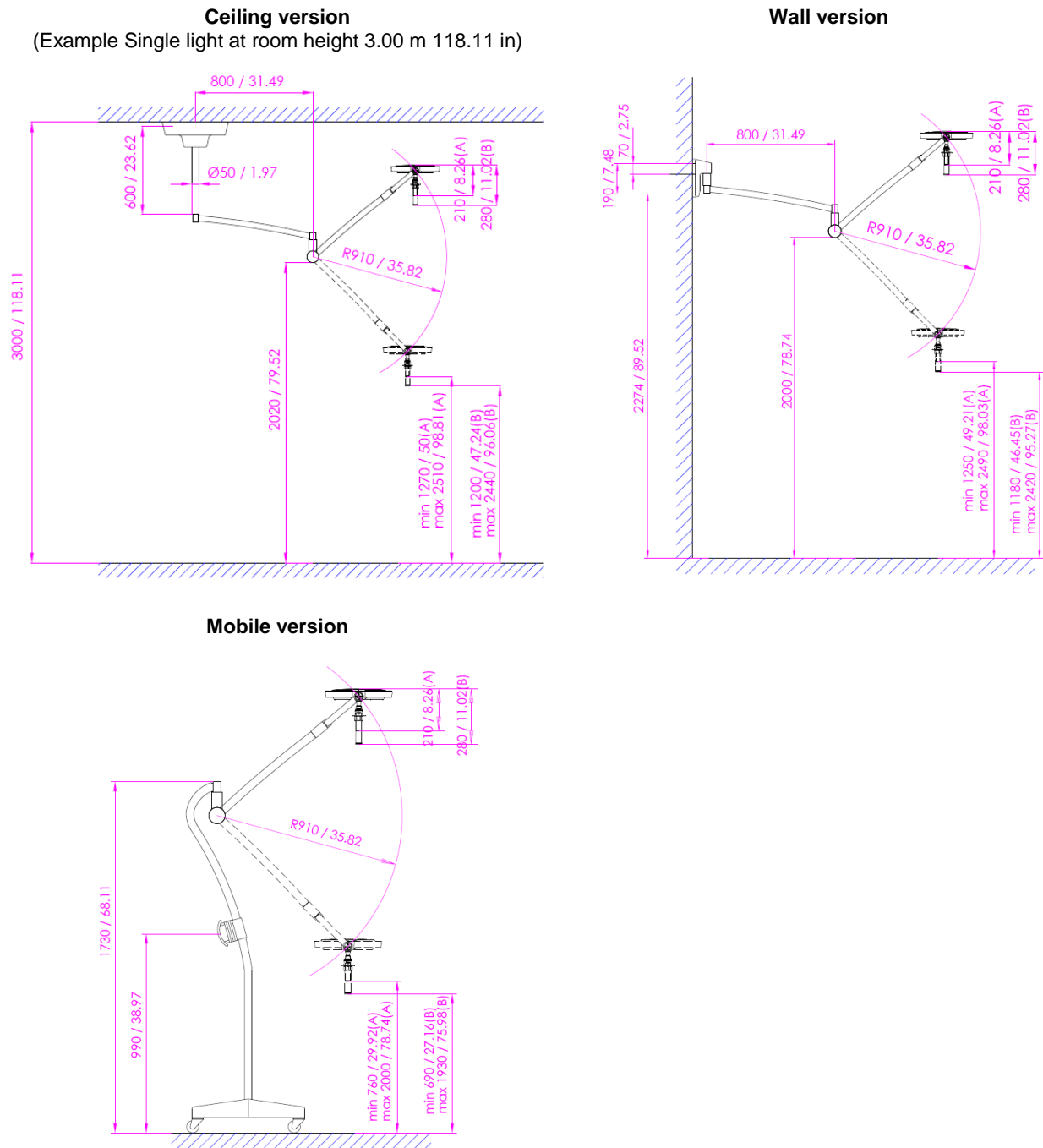
<p> Joints on cardanic bows rotatable by 430° ($\pm 215^\circ$), on spring arm > 360° without stop Rotatability on ceiling tube/flange tube of single suspension: > 360° without stop Rotatability on 2-fold standard axis: - Lower mounting pin : > 360° without stop - Upper mounting pin : 300° ($\pm 150^\circ$) Rotatability on stand tube of mobile stand: 60° ($\pm 30^\circ$) Height adjustment: - Spring arm Swing: 1230 mm / 48.43 in - Spring arm Acrobat 2000: 1180 mm 46.46 in </p>
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Support arm system ACROBAT SWING (all measurements in mm / in)

Minimum clear room height for single light

Light body	Ceiling version	Wall version
Mach LED 130/130F/130 Plus with standard handle (A) (mm / in)	2570 / 101.18	2570 / 101.18
Mach LED 130/130F/130 Plus with sterilizable handle (B) (mm / in)	2570 / 101.18	2570 / 101.18

Technical drawings



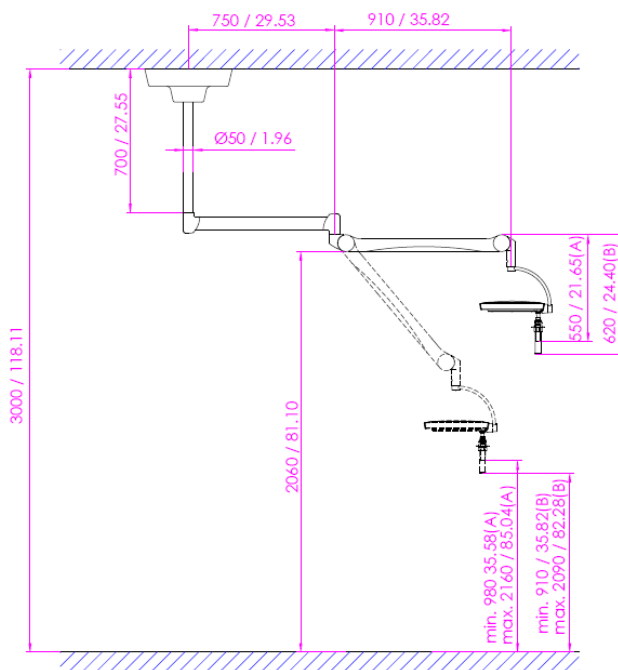
**Support arm system with height stop and option for full cardanic suspension
(all measurements in mm / in)**

Minimum clear room height for single light

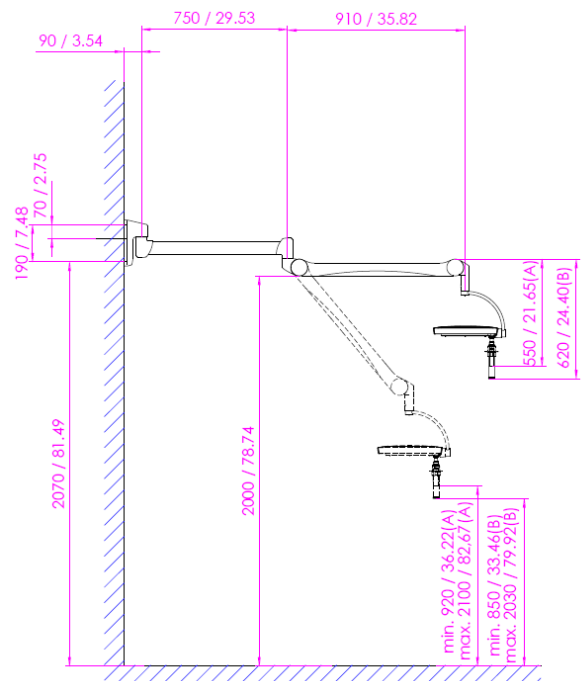
Light body	Ceiling version	Wall version
Mach LED 130/130F/130 Plus with standard handle (A) (mm / in)	2570 / 101.18	2570 / 101.18
Mach LED 130/130F/130 Plus with sterilizable handle (B) (mm / in)	2640 / 103.94	2640 / 103.94

Technical drawings

Ceiling version
(Example Single light at room height 3.00 m / 118.11 in)



Wall version



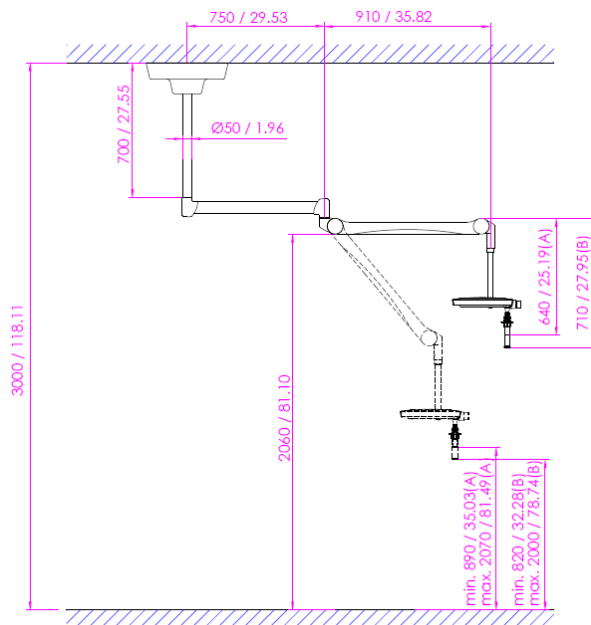
Support arm system with height stop and full cardanic suspension (all measurements in mm / in)

Minimum clear room height for single light

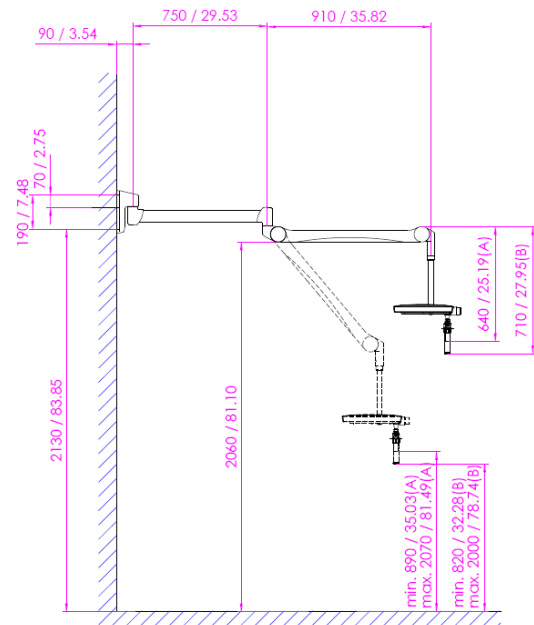
Light body	Ceiling version	Wall version
Mach LED 130/130F/130 Plus with standard handle (A) (mm / in)	2660 / 104.72	2660 / 104.72
Mach LED 130/130F/130 Plus with sterilizable handle (B) (mm / in)	2730 / 107.48	2730 / 107.48

Technical drawings

Ceiling version
(Example Single light at room height 3.00 m / 118.11 in)



Wall version



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Subject to technical modification

