

## Examination light marLED® E3 Mobile



Item no. 89-700-00-04

### 1 Mechanical design

Mobile KLS Martin LED examination light. Stable and secure base equipped with easy-moving, antistatic castors. The stable mobile stand with lockable castors provides for safe and convenient positioning of the light. Unrestricted movability is guaranteed by stop-free rotary joints and the cardanic suspension. The light head made of high-strength and impact-resistant plastic (PC/ABS) is completely closed and dust-tight. This ensures excellent resistance to mechanical stress. Thanks to the easy-moving, weight-balanced spring arm system, the light head can be easily adjusted in height.

### 2 Light system

Optimal illumination is guaranteed by the innovative and highly efficient LED light system. Special optical systems offer cold, white and shadow-free light. Excellent light properties and best color rendition are guaranteed by the use of high-quality LED technology. The light exit surface is made of highly scratch-resistant plastic to ensure high resistance to mechanical as well as chemical impact.

We reserve the right to make alterations.

Due to manufacturing and measuring tolerances, all data relating to lighting systems has a tolerance of +/- 5%.



### 3 Operation

The ON/OFF and brightness control buttons are directly integrated into the light head in the form of a membrane keypad. Together with the smooth surface design of the light head, this enables fast cleaning and wiping disinfection. To ensure easy positioning, the light head features an integrated handle. This handle component can be easily replaced with one of the following handle versions at the user's choice.

Optional handle elements:

Option 1: Sterilizable Handle

Option 2: Handle for Sterile Disposable Cover

Optional handle elements	Illustration	Item no.
<p><b>Option 1:</b> Light equipped with sterilizable handle for sterile operation.</p>		<p>89-700-05-04                      Handle adapter and                      2 x sterile handle</p>
<p><b>Option 2:</b> As an alternative, the light can be equipped with handle elements for the use of disposable handle covers.</p>		<p>89-940-02-04                      Handle for sterile covers</p> <p>89-940-20-04                      Sterile covers                      (100 pcs.)</p>

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Electrical Data		marLED® E3 Mobile
Power module		integrated into light head
Supply voltage, primary	V	100–240 VAC, 50–60 Hz
Power input at 220 – 240 VAC	VA	39
Power input at 100 – 130 VAC	VA	32
Power input, light sources	W	3 x 5
Anticipated LED service life	h	40,000
Starting performance		last setting
Focus / light field		fixed
Standby light		not required, 3 light sources available
Spare light sources		available from KLS Martin
Electronic system meets requirements acc. to		VDE/IEC
Classification acc. to MPG (Medical Devices Act / MDD)		I
Protection class acc. to IEC 60601		I
Degree of protection: suspension system		IP30
Degree of protection: light head		IP42
Conformity		CE

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Electrical Data		marLED® E3 Mobile
Central illuminance, electrically dimmable from/to	%	30–100%
Central illuminance at a distance of 1 m	lx	100,000
Light field diameter (d10, distance 1 m)	mm	170
Color temperature	K	4,300
Color rendering index (CRI) [Ra(1-8)]		95
Total radiation strength at max. lighting intensity	W/m <sup>2</sup>	364
Illumination depth (without refocusing) L1/L2 at 20% at 60%	mm	825 / 820 600 / 320
Working range from/to (without refocusing) at 20% at 60%	mm	175-1820 400-1320

Mechanical Data		marLED® E3 Mobile
Operating forces on light head	N	acc. to standard
Range of movement	mm	972
Spring arm height adjustment	mm	1312
Top position of light head	mm	2263
Bottom position of light head	mm	951
Force required for moving light head up/down	N	8
Force required for swiveling the light head	N	2
Weight	kg	19
Permissible ambient temperature range during operation	°C / °F	+5° to +40°C [41–104°F]
Storage temperature	°C / °F	-10° to +50°C [14–122°F]
Number of castors	pcs	4
Number of lockable castors	pcs	2
Castor diameter	mm	50

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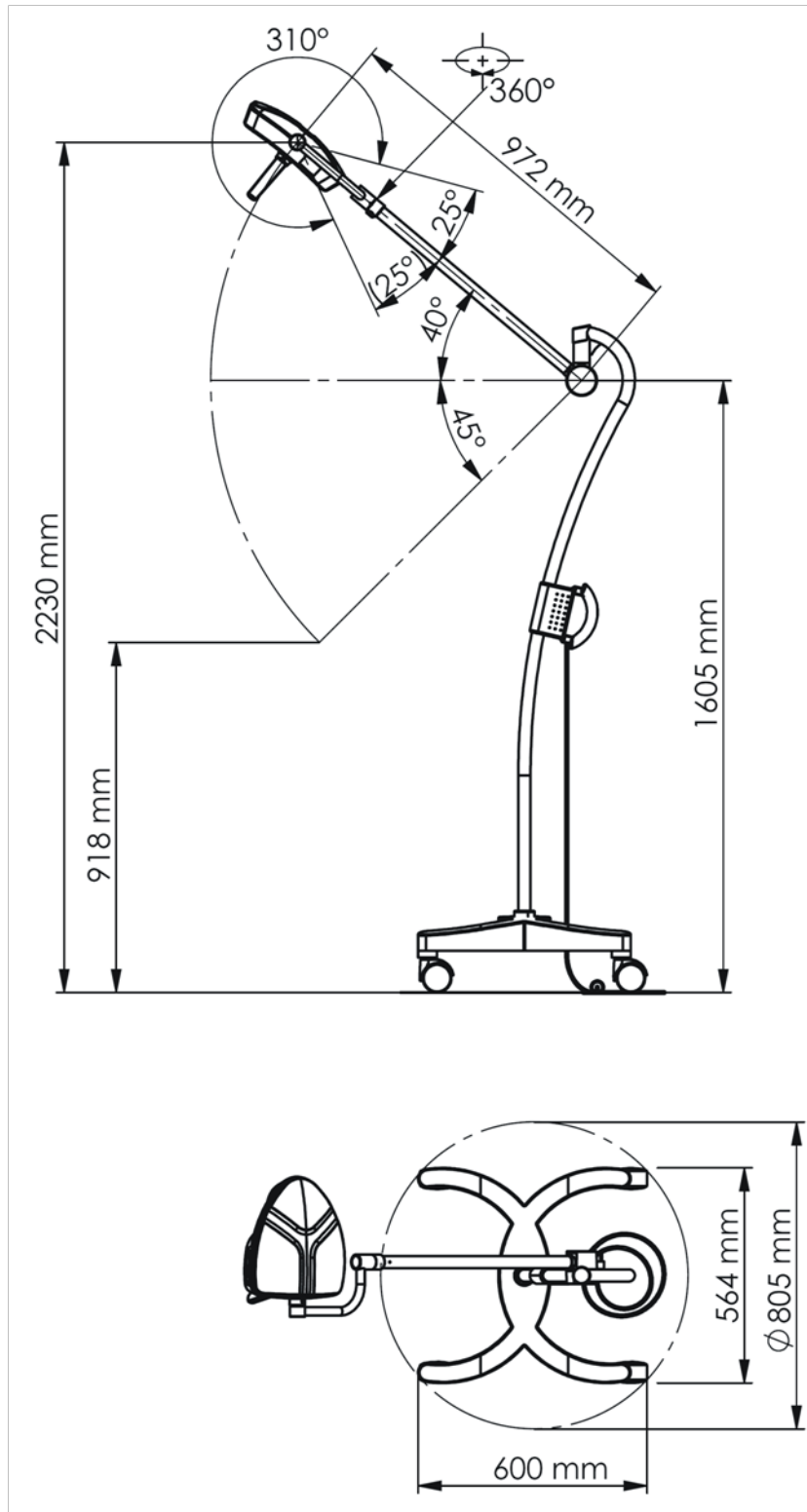
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Mechanical Data		marLED® E3 Mobile
Light head height (w/o sterile handle)	mm	acc. to standard
Light housing dimensions	mm	ca. 300 x 310

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Technical drawing:



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