




EXTOL LIGHT 43160 Magnifying Desk Lamp User Manual

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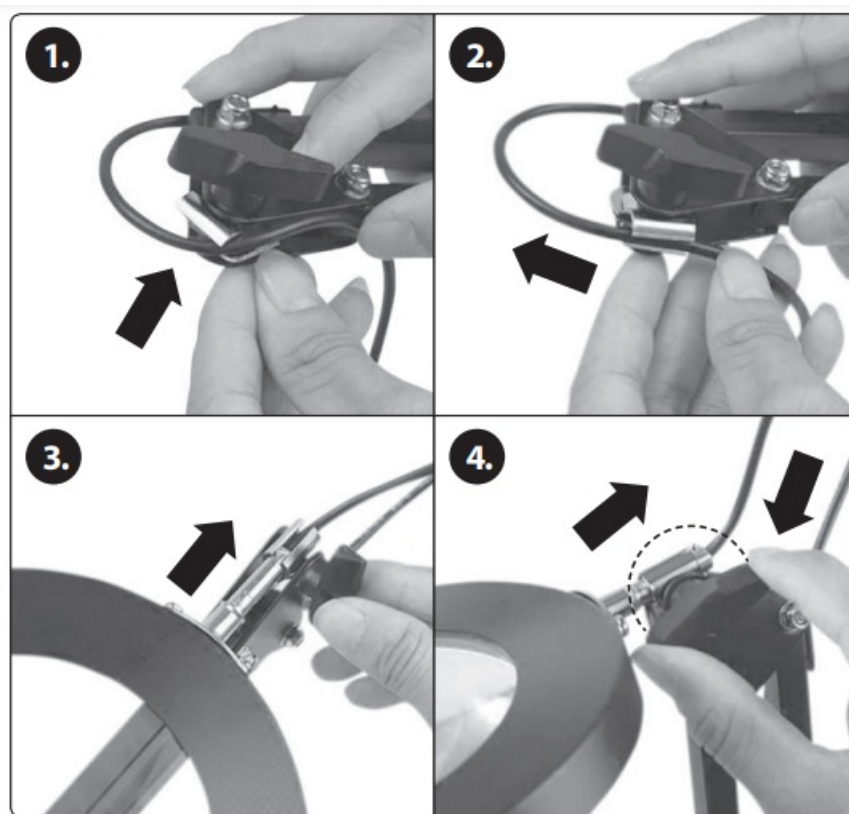
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EXTOL LIGHT 43160 Magnifying Desk Lamp



HOW TO USE



Obr. 1 / 1.ábra / Abb. 1 / Fig. 1



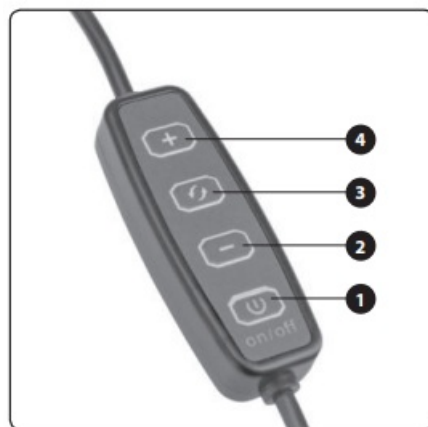
Obr. 2 / 2.ábra / Abb. 2 / Fig. 2

ANGLES



Obr. 3 / 3.ábra / Abb. 3 / Fig. 3

CONTROL BUTTON FUNCTIONS



Obr. 4 / 4.äbra / Abb. 4 / Fig. 4

1. On-Off
2. Reduce light intensity
3. Change light colour (cold white – daylight white – warm white)
4. Increase light intensity

Introduction

Dear customer,

Thank you for the confidence you have shown in the Extol® brand by purchasing this product. This product has been tested for reliability, safety and quality according to the prescribed norms and regulations of the European Union. Contact our customer and consulting centre for any questions at: www.extol.eu

Manufacturer: Madal Bal a. s., Průmyslová zóna Přiluky 244, 76001 Zlín, Czech Republic Date of issue: 27. 4. 2021

Features

- The desk lamp with magnifying glass is powered using a USB socket (computer, power adapter with USB plug, powerbank with a minimum capacity of 5000 mAh).
- Adjustable light colour: cold white (7,500 K) – daylight white (4,500 K) – warm white (2,900 K)
- Light intensity control +/- (1 to 10 levels of intensity).
- The light is located on an easily adjustable arm.
- The arm with the light can be inserted into the base located on the surface of the table or into a table clamp that is clamped to the board of the table. The base has a tray area for small items and has a rubber pad underneath.



Technical specifications

- Model/order number 43160
- Power supply 5 V DC (USB); min. required capacity of a powerbank is 5000 mAh
- Rated power input 7.0 W
- Luminous flux 1) 2400 lm / Φ_{use} 209.99 lm (97° narrow cone)
- External diameter of the magnifying glass collar 15.5 cm
- Diameter of the magnifying glass 10.5 cm
- Total length of the arm 70.5 cm
- Diameter of the round base on the table 19 cm
- Weight with the base 2.0 kg
- Luminous flux 15 cm below the light 9000 lm
- Luminous flux 50 cm below the light 1300 lm
- Magnification 5×
- Length of power cord 150 cm
- Light intensity control YES
- Adjustable light colour cold white – neutral white – warm white

The luminous flux value of 2400 lm was measured inside a sphere with a white surface with an internal diameter of 2 m at a distance of 1 m from the detector so that the loss of light generated by the light source is minimised. Useful luminous flux Φ_{use} with the lower value is the luminous flux determined according to the new directive (EU) 2019/2020, where a light source is located inside a dark room of dimensions 12 × 4.5 m at a distance of 8 m from the detector, whereby losses occur by the value compared to the measurement inside the sphere with the white surface.

Assembling the desk lamp

- Assembling the desk lamp for use is illustrated in fig. 1 and fig. 2. The technical design of the arm enables very flexible positioning.

Powering the desk lamp

- The desk lamp is intended to be powered via a USB port on a computer, USB power adapter or powerbank (the powerbank must have a minimum capacity of 5000 mAh – see below). For safety reasons, no other type of el. power supply with different output parameters may be used.
- It is also possible to power the lamp using a USB adapter with an output current of 1 A.
- If necessary, the lamp may be powered using a USB adapter connected to the 12 V socket in a vehicle, both while the engine is running, when the socket is powered via the alternator, as well as with the engine turned off, when the socket is powered via the car battery (if the battery is sufficiently charged). Powering the lamp without the engine running may result in the car battery being quickly discharged, therefore, when powering the lamp from a 12 V car battery start the engine of the vehicle.

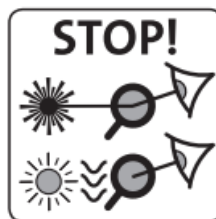
WARNING

INFORMATION ABOUT POWERING THE LAMP FROM A POWERBANK OR SIMILAR DEVICES, E.G. FROM A POWER TOOL BATTERY VIA A USB ADAPTER (ADAPTER WITH A USB PLUG).

- When using a powerbank with a capacity less than 5000 mAh, the lamp may not function correctly or the lamp may turn off entirely, however, when used with a powerbank with a capacity of 5000 mAh and greater the lamp works properly as when powered using a USB power adapter or the computer.

Safety notice

- The magnifying glass focuses direct sunlight into a narrow point and may ignite flammable items, which is important to take into consideration when the lamp is located by a window into which direct sunlight is shining and the magnifying glass is near to flammable items. When not using the lamp, please secure it so that a fire cannot result.



- Never use the lamp to view bright sources of light, the sun, laser beams, since this presents a risk of blindness or eye damage!

Meanings of markings

MEANINGS OF MARKINGS ON THE LAMP

EXTOL® Item No. **43160**

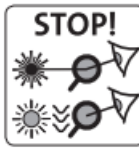
Φ 2400 lm | Φ_{use} 209,9 lm (97°)





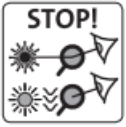

2900 K | 4500 K | 7500 K | 97°

5 V $\overline{\text{---}}$ USB | 7W












Produced by

Madal Bal, a.s. • Prům. zóna Přiluky 244 • CZ-760 01 Zlín




	It meets the respective EU harmonisation legal directives.
	At the end of its lifetime, do not throw the lamp out into communal waste because it contains substances that are hazardous to the environment but instead, hand over at a electrical waste collection point. You will receive information from your vendor or at your local town council office.
	Powering from a USB port.
	The lamp is intended for indoor use.
	Never use the lamp to view bright sources of light, the sun, laser beams, since this presents a risk of blindness or eye damage!
	The magnifying glass focuses direct sunlight into a narrow point and may ignite flammable items if they are in the near vicinity underneath the magnifying glass. This presents a fire hazard. Locate the lamp so that a fire cannot occur!

MEANINGS OF MARKINGS ON THE PACKAGING

Parameter	Lamp model 43160
This product contains a light source with energy efficiency class	F
Ec (kWh/1000 h)	Ec 7 kWh/1000 h
Useful luminous flux Φ_{use} (lm)	Φ_{use} 209.99 lm (97° narrow cone)
 Correlated colour temperature (K)	2900 K (warm white) 4500 K (daylight white) 7500 K (cold white)
 Colour consistency in multiples of the MacAdams ellipse	5.8
 Half-peak divergence angle (°)	35° (69 cd)
 Power supply parameters	5 V DC (USB)
Lifetime L_{70B50} (h)	L_{70B50} 14 300 h
Power input when turned on P_{on} (W)	7.05 W
 Colour rendering index	83
 Only for indoor use	YES
 Dimmable light source	YES
 Electrical waste symbol	At the end of its lifetime, the product must not be disposed of together with communal waste, but must be handed over at a waste collection facility for unusable electrical equipment because it contains substances that are hazardous to the environment.
The product contains a non-replaceable built-in light source. The light source cannot be replaced due to the requirement for compactness of the light source and the design of the light source as such.	  
Hg The product does not contain mercury	0.0 mg

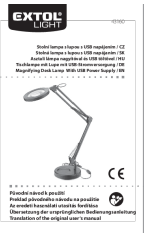
PRODUCT INFORMATION SHEET

Name or trademark of the supplier	Extol®
Address of the supplier	Madal Bal a.s. Průmyslová zóna Přiluky 244, 760 01 Zlín
Model identification number	43160
TYPE OF THE LIGHT SOURCE	
Used type of the light source	LED
Light source socket type (or other electrical interface)	No socket. Built-in LED power source.
Directional or non-directional light source	Directional (DLS)
Mains or non-main light source	Mains (MLS)
Connected light source (CLS)	NO
Colour adjustable source	YES
Bulb	None
Dimmable	YES

Light source with high brightness	NO
Glare guard	NO
GENERAL PRODUCT PARAMETERS	
Energy efficiency class	F
El. power consumption in turned on state (kWh/1000 h)	7.0 kWh / 1000 h
Useful luminous flux $\Phi_{\text{use}}(\text{lm})$	$\Phi_{\text{use}} 209.9 \text{ lm}$ narrow cone (97°)
Correlated colour temperature (K)	2,900 K (warm white) 4,500 K (daylight white) 7,500 K (cold white)
Power input when turned on $P_{\text{ON}}(\text{W})$	7.05 W
Power input in stand-by mode $P_{\text{sb}}(\text{W})$	—
Power input in stand-by mode when connect to a communications network (P_{net}) for CLS (W)	—
Colour rendering index CRI	83
External dimensions (external \varnothing of magnifying glass collar)	15.5 cm
Spectral composition of radiant flux in the range 250- 800 at full power output	
Information about equivalent power input YES/NO If YES, equivalent power input (W)	NO/-(W)
Trichromatic coordinates (x and y)	0.4287 0.3851
DIRECTIONAL LIGHT SOURCE PARAMETERS	
Maximum luminosity (peak luminosity) (cd)	69 cd (35°)
Half-peak divergence angle	97°

PARAMETERS FOR LED AND OLED LIGHT SOURCES	
Colour rendering index value R9	0
Survival factor	92.8%
Ageing factor	96%
PARAMETERS FOR LED AND OLED MAINS LIGHT SOURCES	
Basic harmonic function power factor (cos j)	0.93
Colour consistency in multiples of the MacAdams ellipse	5.8
Claim that the LED light source substitutes for a light bulb without a special power ballast. If YES then claim about substitution (W)	-/- (W)
Flicker evaluation parameter (PstLM)	—
Stroboscopic visibility measure (SVM)	—

Documents / Resources

	<p>EXTOL LIGHT 43160 Magnifying Desk Lamp [pdf] User Manual 43160, Magnifying Desk Lamp, Desk Lamp, Magnifying Lamp, Lamp</p>
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References

- [E | Extol.cz](#)
- [Extol](#)
- [E | Extol.hu](#)
- [EXTOL - náradie pre remeselníkov, domácich majstrov aj profesionálov](#)