EXTOL 43160 Table Lamp with Magnifying Glass Instruction Manual

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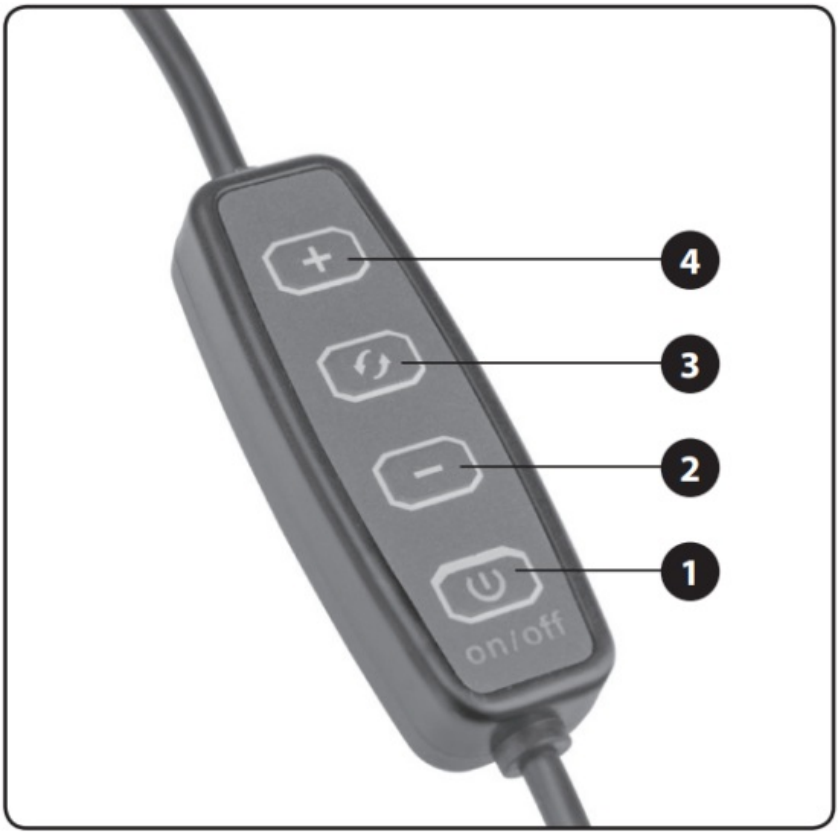
CONTROL BUTTON FUNCTIONS



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: extol.eu
Manufacturer: Madal Bal a. s., Průmyslová zóna Příluky 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, power bank with a minimum capacity of 10 000 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.

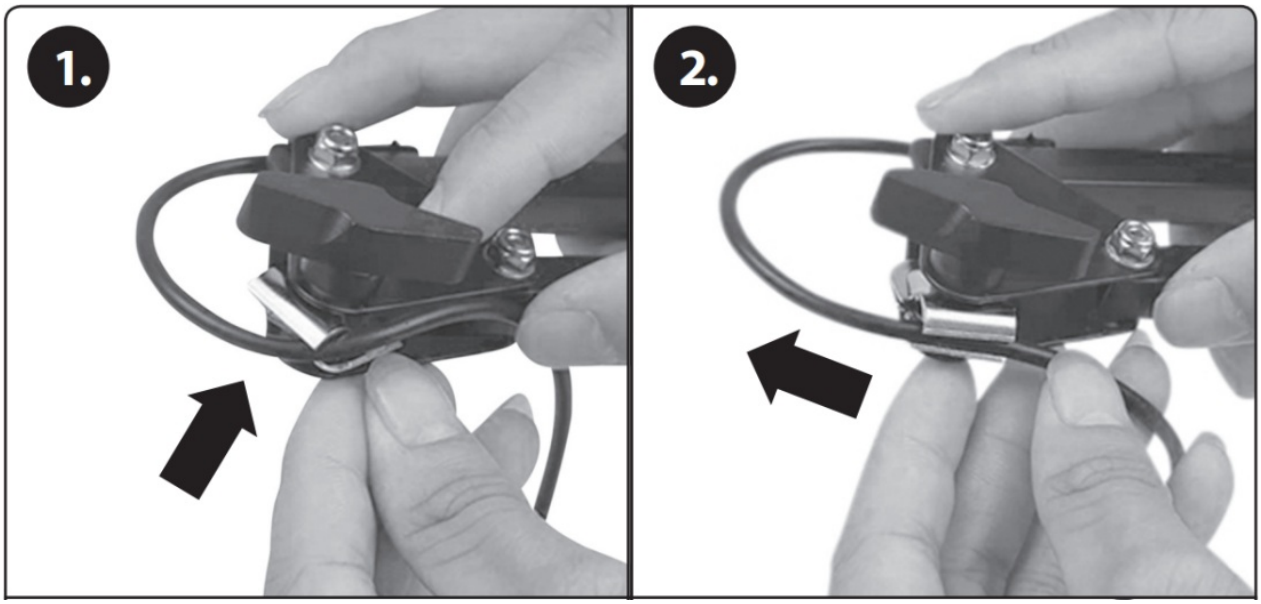
Technical specifications

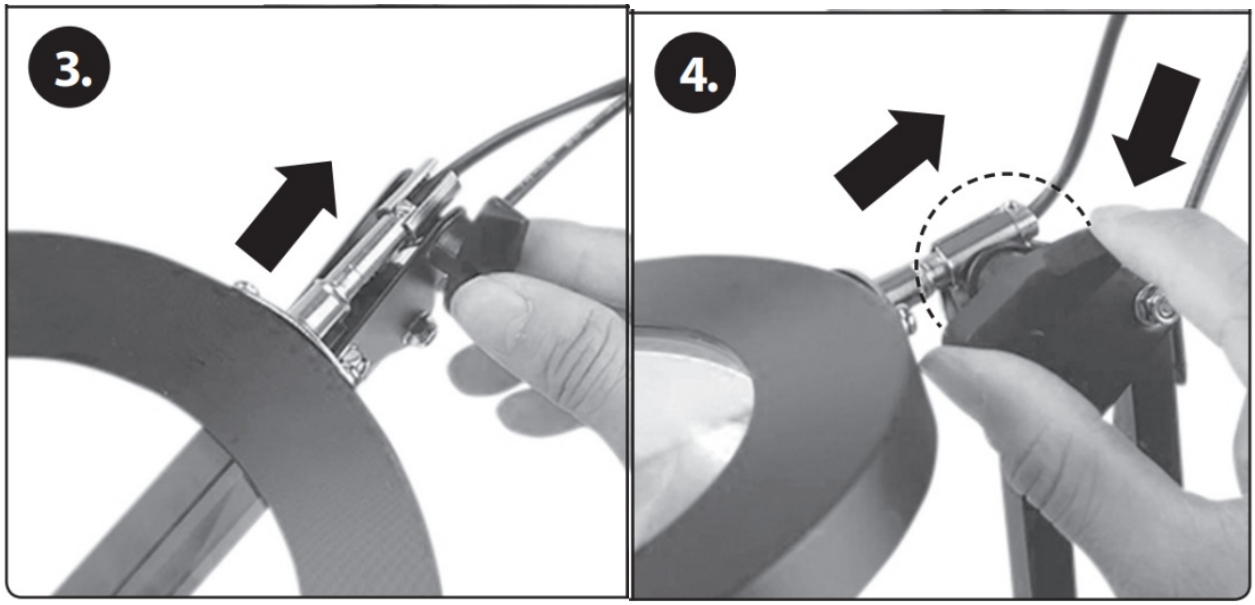
Model/order number	**43160** (black color) **43161** (white color)
Power supply	5 V DC (USB); min. required capacity of a power bank is 10 000 m Ah
Rated power input	≤7,6 W
Luminous flux 1)	2400 lm / Φuse 706 lm (97° narrow cone)
External diameter of the magnifying glass collar	15.5 cm
Diameter of the 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
Illumination 15 cm below the light	6000 lux
Illumination 50 cm below the light	1300 lux
Magnification	5×
Length of power cord	150 cm
Light intensity control	YES
Adjustable light colour	cold white – neutral white – warm white

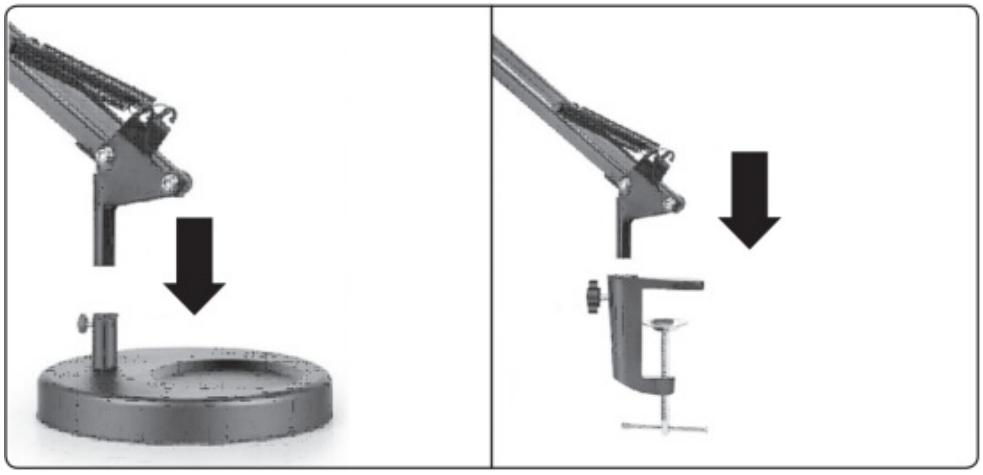
1. The luminous flux value of 2400 lm was measured inside a sphere with a white surface with an internal diameter of 2 m at a distance of 1 m from the detector so that the loss of light generated by the light source is minimized. Useful luminous flux Φuse with the lower value is the luminous flux determined 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

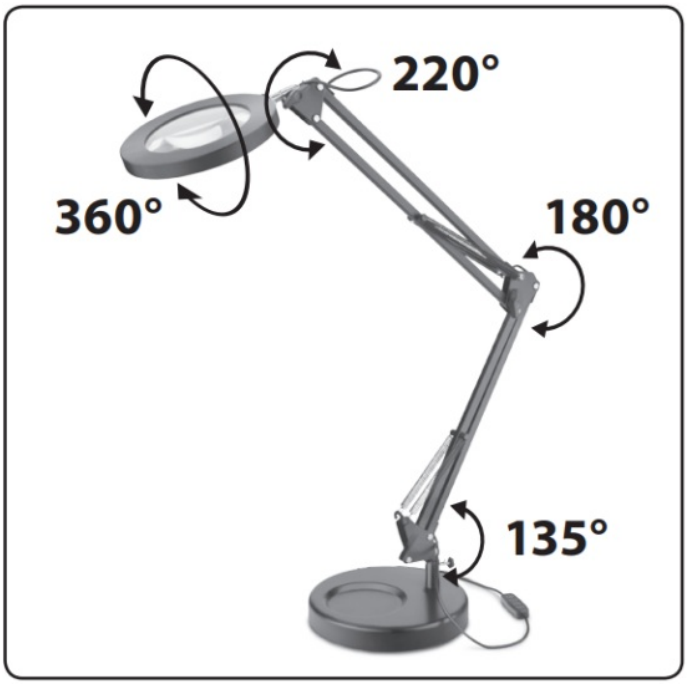
- Assembling the desk lamp for use is illustrated in fig. **1 and fig. 2**.







The technical design of the arm enables very flexible positioning **(fig. 3)**.



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.

ATTENTION WHEN POWERING THE LAMP USING THE POWERBANK

- When using a powerbank with a capacity of **5000 mAh** and more – up to **10 000 mAh**, the lamp may not work entirely correctly and may suddenly turn off after a short time or it may not be possible to increase light intensity. However, with power banks that have a capacity of **10 000 mAh** and more, the light source will function properly in the same way as when powered using a USB power adapter or computer. The reason for this is that the electronic battery protection on powerbank with a lower capacity will not supply the lamp with sufficient electrical current. This is not a fault of the lamp, but rather protection of power banks with a lower battery capacity.

Safety notice

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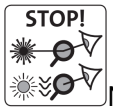
The magnifying glass focuses direct sunlight into a narrow point and may ignite flammable items, which is important to take into consideration when the lamp is located by a window into which direct sunlight is

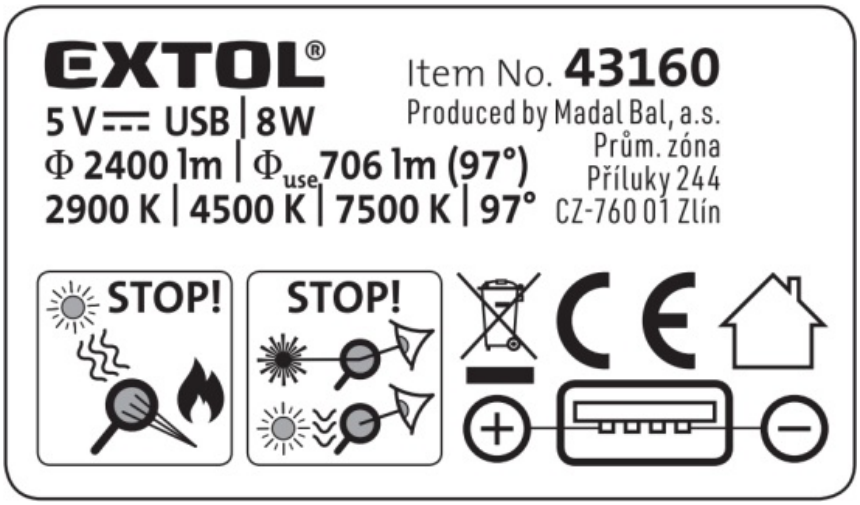
shining and the magnifying glass is near to flammable items. When not using the lamp, please secure it so that a fire cannot result.

- 

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

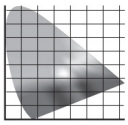
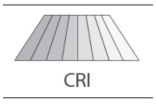
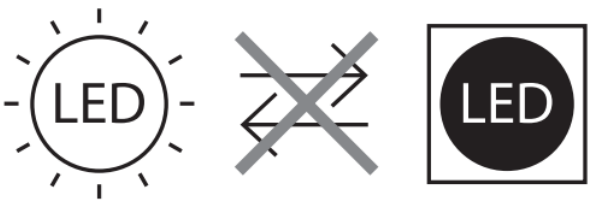
MEANINGS OF MARKINGS ON THE LAMP



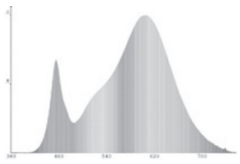
CE	It meets the respective EU harmonization legal directives.
	At the end of its lifetime, do not throw the lamp out into communal waste because it contain s substances that are hazardous to the environment but instead, hand over at a electrical w aste collection point. You will receive information from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

Table 1

MEANINGS OF MARKINGS ON THE PACKAGING

Parameter	Lamp model 43160, 43161
This product contains a light source with energy efficiency cl ass	F
Ec (kWh/1000 h)	Ec 8 kWh/1000 h
Useful luminous flux Φuse (lm)	Φuse 706 lm (97° narrow cone)
 Correlated colour temperature (K)	2900 K (warm white) 4500 K (daylight white) 750 0 K (cold white)
 Colour consistency in multiples of the Mac Adam s ellipse	5.8
 Half-peak divergence angle (°)	35° (69 cd)
 Power supply parameters	5 V DC (USB)
Lifetime L70B50 (h)	L70B50 14 300 h
Power input when turned on PON (W)	≤ 7.6 W
 Colour rendering index	86
 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 cont ains substances that are hazardous to the enviro nment.
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 lig ht source as such.	
Hg The product does not contain mercury	0.0 mg

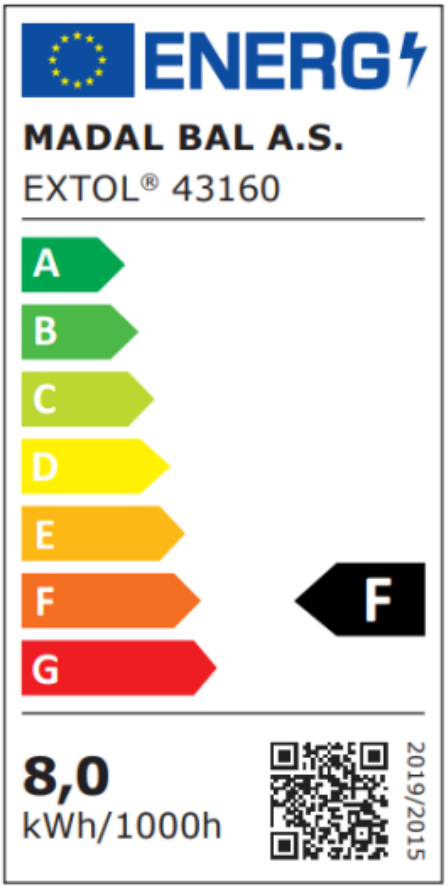
PRODUCT INFORMATION SHEET

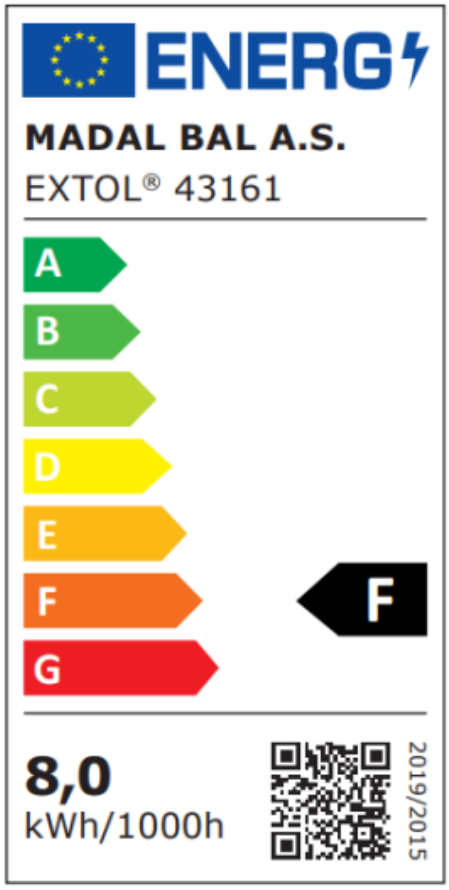
Name or trademark of the supplier	Extol®
Address of the supplier	Madal Bal a.s. Průmyslová zóna Příl uky 244, 760 01 Zlín
Model identification number	**43160, 43161**
TYPE OF THE LIGHT SOURCE	
Used type of the light source	LED
Light source socket type (or other electrical interface)	No socket. Built-in 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)	8.0 kWh / 1000 h
Useful luminous flux fuse(lm)	fuse 706 lmnarrow cone (97°)
Correlated colour temperature (K)	2,900 K (warm white) 4,500 K (daylig ht white) 7,500 K (cold white)
Power input when turned on PON(W)	≤ 7.6 W
Power input in stand-by mode Psb (W)	–
Power input in stand-by mode when connect to a communications network (Pnet) for CLS (W)	–
Colour rendering index CRI	86
External dimensions (external Æ of magnifying glass collar)	15.5 cm
Spectral composition of radiant flux in the range 250- 800 at full power o utput	
Information about equivalent power input YES/NO If YES, equivalent po wer input (W)	NO/-(W)
Trichromatic coordinates (x and y)	0.42870.3851
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	96 %
Ageing factor	93 %
PARAMETERS FOR LED AND OLED MAINS LIGHT SOURCES	
Basic harmonic function power factor (cos f)	0.93
Colour consistency in multiples of the Mac Adams 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)	–

ENERGY LABELS





EXTOL® LIGHT

Documents / Resources

	EXTOL 43160 Table Lamp with Magnifying Glass [pdf] Instruction Manual 43160, 43161, 43160 Table Lamp with Magnifying Glass, 43160, Table Lamp with Magnifying Glass, Magnifying Glass

References

- Extol
- | Extol.cz
- Extol
- | Extol.hu
- User Manual