

## Video light

## mecalight S500 BC



English instruction manual 09/2018/V1.2

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### Preface

Thank you for choosing a Metz quality product. We are pleased to welcome you as a customer. We understand that you're probably keen to start using your video light right away.

However, it is worth reading through this instruction manual to ensure that you are able to use the product properly.

## Information on the instruction manual and manufacturer

This manual will help you to safely use the mecalight S500 BC video light. Henceforth the video light will be referred to as "product" for short.

#### Keep this manual safe

A quick start guide and a safety sheet are included with the product.

- > Always keep these documents and the product together.
- > If you sell or otherwise pass on the product, please also include these instructions.

#### Symbols used in this document

Various elements in this instruction manual are indicated using symbols. These enable the following elements to be easily differentiated:

normal text

- > Operational steps
- List of the first level
- Tips provide additional information, such as the specifications of the product.

#### Manufacturer contact information

Metz mecatech GmbH Ohmstraße 55 D-90513 Zirndorf Tel.: +49-911-9706-0 Email: info@metz-mecatech.de Website: www.metz-mecatech.de

## Safety

#### Intended use

The video light mecalight S500 BC serves the flicker-free illumination of conventional video recordings or camera shots indoors and outdoors.

The mecalight S500 BC video light is not splashproof and may only be used in a dry environment.

Intended use also includes observing and following the instructions in the enclosed documents, especially the safety sheet

Reading and understanding these instructions form part of proper use, as well as observing and following the information within the instructions, particularly the safety instructions. Furthermore, the safety instructions and all other information in the instruction manuals of the camera and light devices used must also be observed. Any other use is explicitly considered improper use and will void warranty and liability claims.

#### Basic safety information

Avoid explosions in areas where there is a danger of explosions

The product does not feature explosion protection.

- Do not use the product in an environment where flammable gases or liquids, such as benzine, solvents etc. are present.
- > The product may not be used in these areas under any circumstances.
- > Only connect other devices to the product when outside of these areas.

#### Avoid the risk of suffocation

Small parts are included with the product. Children may swallow these small parts and choke.

• Ensure that the product and other parts of the photo or video equipment are kept out of the reach of children.

#### Avoid electric shock

Electric shock injuries can occur as a consequence of damage to the housing which exposes internal parts

- > Only use the product in good order and condition.
- > Have a damaged product repaired by a qualified technician.

#### Avoid dangers by attempting repairs yourself

Improper repairs can compromise your safety and jeopardise the proper functioning of the product.

> The product must only be repaired by qualified technicians.

#### Avoid damage to the eyes

The product can cause damage to the eyes.

> Never point the product directly at the eyes of people or animals.

Avoid environmental damage through improper disposal

Environmental damage through improper disposal possible.

- > Dispose of batteries in an environmentally sound manner according to local regulations.
- > Never dispose of batteries in household waste.

#### Avoid material damage and functional faults

Avoid material damage through use of an incorrect power supply

Use of power sources other than those specified in this manual may result in damage to the product.

> Only use the power sources recommended in this instruction manual.

Avoid material damage by dropping or knocking the product

Drops and bumps can damage the product.

> Ensure that the product is not dropped and is protected from impacts.

#### Avoid material damage from rain, steam, heat and humidity

S500 BC products are not splashproof.

Rain, steam, heat and humidity can damage the product.

- > Protect the product from being dripped on, splashed (e.g. rain) or exposed to steam.
- > Protect the product from excessive heat and high humidity.
- > Do not store the product in the glove box, on the dashboard or on the parcel shelf of your car.
- Store the product within the limits specified in the section "Technical data" with regard to humidity and temperature.

A sudden change in temperature can cause moisture to condense on the product, thus resulting in damage.

> Allow the product to acclimatise to the environment before switching it on.

Avoid material damage through improper carrying

- > Always support the camera and video light when carrying them.
- > Always transport the camera, video light and other equipment separately.

Avoid material damage through incorrect accessories

Using the product with incorrect accessories can lead to material damage.

> Only use the product with the accessories recommended in this instruction manual.

Avoid material damage through improper cleaning

Incorrect cleaning can cause damage to the product.

- > Only use a dry, soft cloth (e.g. microfibre cloth) to clean the product.
- > Do not use any harsh chemicals or solvents to clean the product.

#### Design of warning notices

You will find the following warnings in this instruction manual:

▲ DANGER		
	Symbols or signs including the word DANGER indicate hazardous situations which, if not avoided, will result in death or serious injury.	

A WARNING		
	Symbols or signs including the word WARNING indicate hazardous situations which, if not avoided, could result in death or serious injury.	

	Symbols or signs including the word CAUTION indicate a hazardous situation which, if not avoided, could result in minor or moderate injury.	

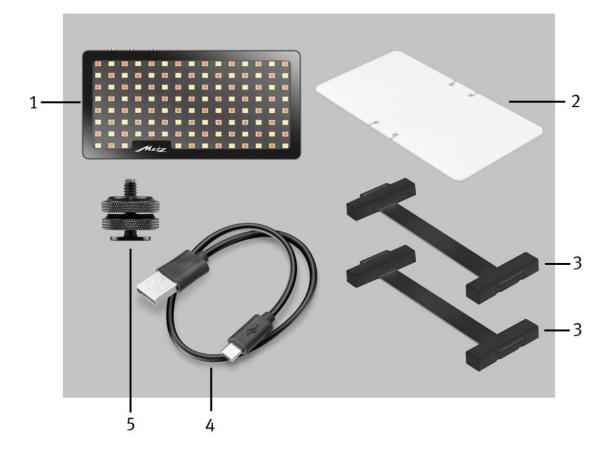
#### Design of warnings relating to material damage

ATTENTION!
These notices indicate situations which can lead to material
damage.

## Description

#### Components and what's you'll find in the box

The product is delivered packaged. The following components are included:



No.	Description
1	Video light
2	Diffuser panel
3	Bracket (2 pieces)
4	Micro USB cable
5	Mounting bracket (comprising mounting plate with threaded axle and
	2 knurled nuts)
	Quick start guide; not shown
	Safety sheet; not shown

The following diagram shows the product's components and operating elements.



No.	Name
1	Mode button (M)
2	Minus button ( - )
3	Plus button ( + )
4	Main switch, respectively on / off switch (POWER ON/OFF)
5	Micro USB port to connect an external power source
6	OLED display
7	117 dimmable LEDs (LED field) with adjustable colour temperature
8	Mounting bracket

#### Purpose and functions

The video light mecalight S500 BC serves the flicker-free illumination of conventional video recordings or camera shots indoors and outdoors.

The mecalight L500 BC video light is not splashproof and may only be used in a dry environment.

The brightness and the colour temperature can be set using the buttons on the upper side of the housing.

The video light is attached to the camera or tripod using the mounting bracket included. The mounting bracket can be screwed into the lower side of the housing using the 1/4" thread.

#### Technical data

Basic data		
Dimensions (W x H x D)	130 x 65 x 9,3 mm	
Dimensions (W x H x D), with mounting bracket attached	130 x 84 x 25 mm	
Dimensions (W x H x D), with diffuser panel and mounting bracket attached	130 x 84 x 27 mm	
OLED display dimensions (W x H)	23 x 12 mm	
Weight	135 g	
Weight of diffuser panel	17 g	
Power supply	built-in lithium ion rechargeable battery	
	or	
	with micro USB cable using a USB power supply or powerbank	
Light current	1000 lm, von 5% - 100% adjustable	
Colour temperature range	3.000–5.500 K, adjustable	
Beam angle	120°	
Threads	1 X 1/4"	

Area of use	
Humidity	<85%, non-condensing
Temperature	-5°C - +35°C
Temperature range during charging	0°C - +35°C

Ambient conditions for storage and transport	
Humidity	<85%, non-condensing
Temperature	-20°C - +60°C

Maximum operating time in continuous operation	
with built-in completely charged lithium ion rechargeable battery (in mint condition)*	approx. 60 minutes*

(\*) 100% brightness (POWER) and ambient temperature of approx. 20°C

The maximum operating time with a powerbank depends on the capacity of the powerbank (mAh).

#### > Test the video light's maximum operating time with the powerbank you use.

When connected to a USB power supply, the theoretical operating time is unlimited. The actual operating time depends on how warm the video light gets.

# Unpack product and check that all the stated parts are present

▲ DANGER	
Danger of suffocation if small parts or films are swallowed by small children.	
Make sure that the product's components and accessories are kept out of the reach of children.	
Dispose of the packaging in accordance with local regulations.	

CAUTION!	
	Drops and bumps can damage the product.
	<ul> <li>Avoid knocking or dropping the product.</li> </ul>

- > Remove the product from the packaging.
- > Dispose of the packaging according to local regulations.
- > Check that all the stated parts are present (see Page 9).
- > Check to make sure there is no damage to any of the parts.
- > Please contact your specialist dealer if there is any damage.

The panel in front of the LEDs has a protective film on it to prevent scratches.

- > Remove the plastic film from the panel.
- > Dispose of the protective film according to local regulations.

### Prepare the product for use

Connecting a power supply

A WARNING
Risk of injury from an electric shock from a damaged housing.
<ul> <li>Only use the product in good order and condition.</li> </ul>
► Have a damaged product repaired by a qualified technician.

You have the option of operating the product using the following power sources:

- built-in lithium ion rechargeable battery (2,300 mAh).
- Connect USB Power Bank 5 V/ 2.1 A \* with high-quality fully-wired micro USB cable.
- Connect to the local power supply with a USB power supply 5 V/2.1 A\* with a high-quality fullywired micro USB cable.

\* The power sources mentioned are not included in the delivery.



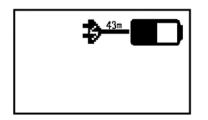
Only use the power sources indicated above. There is a risk of damaging the product when using other power sources.

#### Connecting a USB power supply

There is a micro USB port on the side of the video light. You can use a micro-USB cable to connect a USB power supply or a powerbank.

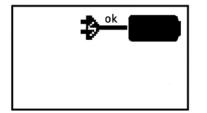
Neither a USB power supply nor a powerbank is included in the scope of delivery.

If the product is switched off, the internal rechargeable battery is charged via a connected external power supply.



In the OLED display the remaining charging time (ca.) in hours h respectively minutes m is shown between the plug symbol and the battery symbol.

In the case of a completely discharged battery the charging time, with a power source 5.0 V / 2.1 A (power supply / powerbank) and a high quality micro-USB cable ca. 1.6 hours (1.6h).



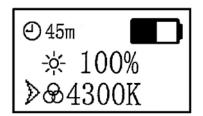
If the battery is fully charged a plug symbol showing the "ok" symbol and the symbol for the fully charged battery are displayed in the OLED display.

Separate the external power supply, respectively remove the charging cable in the micro-USB port, if the battery is fully charged and during periods of non-use.

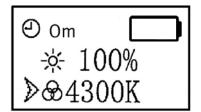
For use in the battery mode with maximum illumination time please completely charge the battery before using the product.

#### Operating with built-in battery

The maximum duration of use / illumination duration in battery mode is, among other things, dependant on the state of charging of the built-in battery and the brightness set. With a fully charged battery and maximum brightness the maximum illumination duration is approx. 60 minutes.



The approximate illumination duration is shown on the OLED display between the clock symbol (left) and the state of charging symbol (right), e.g. "45m" for approx. 45 minutes.



If the battery is fully discharged, the LEDs in the LED field on the front side go out. On the OLED display between the clock symbol and the symbol for the fully discharged battery the running time symbol displays "**Om**" (zero minutes).

Switch off the product by pressing the on / off button for approx. 2 seconds until the notifications on the OLED display are extinguished.

Afterwards charge the product's battery as soon as possible.

© Only store the product with a charged battery. For storage purposes the charging status of the battery should be 50 percent or higher.

Storing the product with a completely discharged battery can cause damage to the product and shorten the life of the battery.

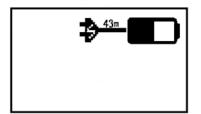
Separate the battery charger respectively the power supply from the product if the battery is fully charged or during longer periods of non-use. The permanent connection of an external power source when the battery is fully charged or during longer periods of non-use can shorten the life of the battery.

#### Operation with an external power source

When connected to a USB power supply, the theoretical operating time / illumination time is unlimited. The actual operating time / illumination time depends on how warm the video light gets.

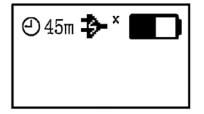
## When being operated with sufficient external power the clock symbol and the remaining illumination time are not shown in the OLED display.

- > Regularly check the status on the display during use.
- Switch off the product if a temperature warning (temperature too low or too high) is shown in the OLED display. See the images and symbols 12 and 9 at page 22, please.
- If this happens, wait until the video light has reached the recommended operating temperature before turning it on again.



If the external power supply can supply the power required for the operation of the product, then the approximate remaining charging time for the battery is displayed on the OLED display between the plug symbol and the battery symbol in hours h respectively minutes m.

Theoretically the product's illumination time is unlimited (when being operated from a USB power supply) respectively depends the capacity of the powerbank connected.



If the external power supply <u>cannot</u> supply the power required for the operation of the product, then an X is displayed on the OLED display between the plug symbol and the battery charge status symbol for the battery.

The approximate remaining illumination time, with the battery charge, is displayed between the clock symbol and the plug symbol.

If this is the case, use another high quality micro-USB cable, respectively a USB power supply that can supply the required maximum power of 5 V / 2.1 A.

#### Mounting the product

Attach the product to the camera and adjust as required

You can attach the video light to the camera's hot shoe using the accessories included respectively the device mount. For this a thread is fitted to the bottom of the video light housing.

> Also observe the instructions in the camera's user manual.

Mounting the device holder

Mounting bracket consists of a mounting plate with threaded axle and 2 knurled nuts.

## Before fitting to the video light, the two knurled nuts must be screwed onto the device mount's threaded axle.

#### See illustration of page 9 / position No. 5

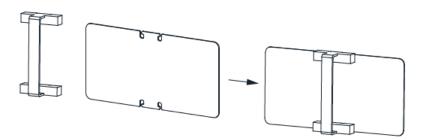
- First screw the device holder into the stand thread on the light and then clamp with the upper knurled nut.
- Then push the light with the mounting plate into the accessory shoe of the camcorder or camera.
- > Then clamp the device holder into the accessory shoe.

Securing the diffuser panel

The diffuser panel supplied with mecalight S500BC enables you to illuminate the subject evenly and softly.

Mount the diffuser panel as follows:

> First mount the silicon band onto the diffuser disc:



> Then push the diffuser disc with the silicone band onto the light:



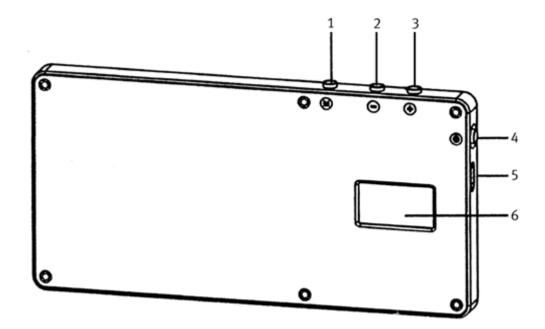
## Operating the product

	🛕 DANGER
$\mathbf{\mathbf{\hat{N}}}$	The product does not feature explosion protection.
	> Do not use the product in an environment where flammable gases or liquids, such as benzine, solvents etc are present.

<b>A</b> CAUTION	
The product can cause damage to the eyes.	
<ul> <li>Never point the product directly at the eyes of people or animals.</li> </ul>	

CAUTION!
Moisture can start to build if temperatures change dramatically.
<ul> <li>Allow the product to acclimatise to the environment before switching it on.</li> </ul>

#### Operating elements



No.	Operating elements
1	Mode button (M)
2	Minus button ( - )
3	Plus button ( + )
4	Main switch, respectively on / off switch (POWER ON/OFF)
5	Micro USB port to connect an external power source
6	OLED display

#### Product on and off

 To switch on press the on / off button (4) approx. 2 seconds until the notifications appear on the OLED display.

On the OLED display (6) the current setting for brightness in percent [%], the colour temperature in Kelvin [K], the battery charging status and the remaining running time [h / m] are displayed. The product is now running in standby mode.

#### 🖙 The LED field on the front does not light up in standby mode.

To switch off press the on / off button (4) approx. 2 seconds until the notifications on the OLED display go out.

Afterwards the product is completely switched off.

#### Switching the LED field on and off

- In standby mode briefly press the on / off button (4).
   The product switches to the active mode and LED field on the front lights up.
- > To switch off the LED field again briefly press the on / off button (4).
- After the LED field has been switched off the product again runs in standby mode.

To completely switch off the product, press the button (4) for approx. 2 seconds until the LED field and the information in the OLED display go out.

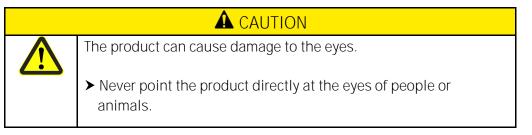
#### Setting the brightness and colour temperature

The product's brightness and colour temperature can be set, respectively changed, independent of each other.

 The selection of the desired setting for the brightness and colour temperature is done using the mode button (M) respectively (1).

By repeatedly pressing the mode button (M) (1) you can switch between, respectively select, the setting for brightness [%] and colour temperature [K].

The actual selection is displayed by a pointer symbol (>) on the OLED display.



#### Adjusting the brightness

- ➤ To set the brightness of the LED field, press the mode button M (1) so often until the selection pointer (>) on the OLED display is next to the brightness symbol (sun). The brightness of the LED field can be set between 5% and 100% in increments of 5%.
  - To increase the brightness [%] repeatedly press the plus button (3) or keep the plus button (3) pressed down.
  - To decrease the brightness [%] repeatedly press the minus button (2) or keep the minus button (2) pressed down.

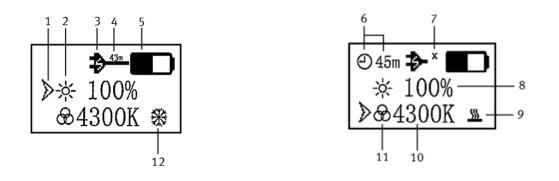
Adjusting colour temperature

- To set the colour temperature [K] of the LED field, press the mode button M (1) so often until the selection pointer (>) on the OLED display is next to the colour temperature symbol (circles). The colour temperature of the LED field can be set between 3,000 K and 5,500 K in increments of 100 K.
  - To increase the colour temperature [K] repeatedly press the plus button (3) or keep the plus button (3) pressed down.
  - To decrease the colour temperature [K] repeatedly press the minus button (2) or keep the minus button (2) pressed down.

## The setting for the brightness and the colour temperature can be done in standby mode as well as in the active mode when the product's LED field is switched on.

The settings made are again available after the product has been switched off and back on again.

### OLED display symbols



No.	Description / meaning of the symbols
1	Selection pointer for the setting of brightness / colour temperature
2	Brightness symbol
3	Plug symbol; external power supply connected
4	Possible remaining charging time for the battery in hours (h) or minutes (m). During charging, if the battery i <b>s fully charged "ok" is displayed.</b>
5	Battery charging status
6	Possible remaining illumination time in hours (h) or minutes (m)
7	Warning of inadequate external power supply
8	Brightness set in percent [%]
9	Warning of over-temperature> switch off the product!
10	Colour temperature set in Kelvin [K]
11	Colour temperature symbol
12	Warning of low-temperature> switch off the product!

## After use

#### Switch off the product

> To switch off the product press the on / off button for approx. 2 seconds.

The LEDs and the OLED display will turn off. The recently used settings and options will be saved.

#### Disassembling the product

CAUTION!	
	Dropping or knocking the product can result in damage.
	► Avoid knocking or dropping the product.

Remove the diffuser panel before transporting or storing the product.

- > Detach the diffuser panel from the device.
- > Keep the diffuser panel protected from being scratched, bent or knocked.
- > Remove the video light and device mount from the hot shoe adapter.
- > Remove the mounting bracket from the video light.
- ► Keep all parts dry and protected from damage.

## Caring for and cleaning the product

CAUTION!
Incorrect cleaning can cause damage to the product.
Do not use any harsh chemicals or solvents to clean the product.
➤ Only clean the product as described in this manual.

Maintain/clean the product as follows:

- > Detach the product from the camera.
- > Disconnect the product from the external power source.
- Remove dirt, moisture, fluids, saltwater etc using a dry, soft cloth (e.g. a microfibre cloth).
- > Contact your dealer if you are unable to remove dirt in this way.

#### Battery care

> Disconnect the product from the battery charger once the battery is fully charged.

Leaving the product attached to an external power supply or charger, when permanently not in use, can shorten the battery life.

- Do not charge the battery outside the permitted temperature range (0°C +35°C), the product can otherwise be damaged or the battery life shortened.
- The battery can discharge over longer periods of non-use. Consequently the product can possibly no longer be switched on. For this reason charge the battery after longer periods of non-use.
- IS The battery should be charged at least every three months. For longer storage purposes the charging status should be 50 percent or higher. Storing a discharged battery for longer periods can shorten the battery life.
- If the battery charging status display shows incorrect values in the OLED display, we recommend that you completely discharge the battery or the product and afterwards fully recharge. This corrects the battery charging status display.
- The built-in battery has limited lifespan and should only be replaced by the manufacturer. If, after a few years, the battery performance drops significantly, get in touch with your specialist dealer.

## Storing and transporting the product

CAUTION!	
	Storing or transporting the product incorrectly can cause damage.
	<ul> <li>Only transport and store the product as described in this manual.</li> </ul>

- Always transport the product in such a way that it is protected from impacts, bumps and humidity.
- > Observe the conditions in the "Technical data" section when transporting the product.
- Disconnect the product from other parts of the photo equipment and from the power supply before transportation over long distances.
- > Before storing charge the product's battery to 50 percent or more.

Information on the permitted temperature and humidity ranges can be found in the "Technical data" section.

## Battery disposal

Batteries must not be disposed of in household waste! Please dispose of used batteries through a battery return system.

Only return dead batteries.

Generally, batteries are dead when the device no longer functions properly after prolonged use of the batteries.

The battery poles should be covered with an adhesive strip to protect against short - circuiting.

Germany: As a consumer you are legally obliged to return used batteries. You can dispose of your old batteries wherever they were purchased. Alternatively you can also dispose of them at the public oints in your city or area.



ols can be found on batteries containing harmful substances:

- Pb = battery contains lead
- Cd = battery contains cadmium
- Hg = battery contains quicksilver
- Li = battery contains lithium

## Disposing of the product

#### In Europe

- Discard the product's packaging according to material. Use your local waste disposal facilities for paper, cardboard and lightweight packaging.
- Dispose of the product and used batteries separate to household waste. For information on collection points which accept old devices free of charge, contact your local or city authority.



Your Metz product was designed and manufactured with highquality materials and components that are recyclable and reusable. This symbol means that electrical and electronic equipment must

be disposed of separately from household waste at the end of its service life.

Please dispose of this device at your local collection centre or recycling centre.

Please help to preserve the environment which we live in.

Note: Within the framework of the CE mark, the correct function was tested during the EMC test.

#### Outside of Europe

- Dispose of the product in accordance with the local regulations applicable at the location in question.
- > Please contact your specialist dealer if in any doubt.

## Warranty conditions

#### Federal Republic of Germany

- 1 The warranty conditions solely apply to purchases made in the Federal Republic of Germany.
- 2 In other countries, the warranty regulations of the respective country or warranty regulations of the seller shall apply.
- 3 The following conditions are only valid for private use.
- 4 The warranty period 24 months begins upon the conclusion of the purchase contract or the day on which the device is delivered to the buyer (end customer).
- 5 Warranty claims can only be asserted when accompanied by proof of purchase date in the form of the original sales receipt issued automatically by the seller.
- 6 We ask you to return defective devices together with the purchase receipt either via the specialist dealer or directly to the company Metz mecatech GmbH, Central Customer Services, Ohmstraße 55, D-90513 Zirndorf, Germany in a safe and secure manner with a detailed description of the complaint. Outward and return shipping is at the risk of the buyer.
- 7 The warranty is based on devices which become defective due to a recognized error in fabrication or the materials used and which are subsequently repaired or replaced, should repairing the device entail disproportionate expense. Further liability, particularly for damage which did not arise on the basis of the device itself, is excluded. This shall not apply in the case of intentional acts or gross negligence for which the assumption of liability is mandatory. Warranty services do not extend the warranty period and replaced or improved parts do not establish a new warranty period.
- 8 Improper handling and interventions by the buyer or third parties cause warranty obligations and all other claims to expire. The warranty furthermore excludes damage or faults caused by non - compliance with the instruction manual, mechanical damage, expended batteries, force majeure or water/lightning etc. Furthermore, the warranty does not cover wear, consumption or excessive use. This particularly affects the following parts: contacts.
- 9 These warranty conditions do not affect the buyer's warranty claims against the seller.

Metz mecatech GmbH Ohmstraße 55 D-90513 Zirndorf www.metz-mecatech.de

### Contact for service requests

 Should any problems arise when using the product, contact your dealer or the manufacturer immediately:

Metz mecatech GmbH Ohmstraße 55 D-90513 Zirndorf Tel.: +49-911-9706-0 E-Mail: info@metz-mecatech.de Website: www.metz-mecatech.de

Metz mecatech hereby declares that this device is in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC. In accordance with the R&TTE directive 1999/5/EC, the conformity declaration can be found at:

www.metz-mecatech.de

Subject to technical changes and errors.