

i.safe MOBILE



OPERATING MANUAL
SAFETY INSTRUCTIONS

IS-TC1A.M1

MODEL MTC1A01

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Template: TEMPMM01REV10

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This Operating Manual complies with these standards:

IEC 60079, IEC 82079, ANSI Z535.6

Diese Bedienungsanleitung erfüllt die Anforderungen der folgenden Normen:

IEC 60079, IEC 82079, ANSI Z535.6

A decorative graphic on the right side of the page consists of several overlapping, light gray hexagonal outlines arranged in a honeycomb-like pattern.

ENGLISH

› READ AND UNDERSTAND THE INSTRUCTIONS

▲ PROTECT YOUR LIFE AND READ THE OPERATING MANUAL

This Operating Manual is part of the device **IS-TC1A.M1 (model MTC1A01)**. This Operating Manual provides important information for safe use of the device.

- › Before using the device, read this Operating Manual carefully and pay particular attention to the "Safety" section and the warnings highlighted with the warning symbol. ▲
- › Make sure you have access to this Operating Manual when you need it. You can find the current Operating Manual at **www.isafe-mobile.com/en/support/downloads**
- › Follow all instructions given on the device and on the packaging.
- › Follow local safety regulations.

› INTENDED USE

The **IS-TC1A.M1** is an intrinsically safe, rugged Thermal Camera for use in explosion hazardous areas of Zone 1, 21, 2, 22, M1 and M2, according to directive 2014/34/EU, 1999/92/EC and IECEx. In combination with the **IS530.M1** the **IS-TC1A.M1** can record and display temperatures.

Only use the device as described in this Operating Manual. Any other use is considered improper and can lead to death, severe injuries and damage to the device.

The manufacturer **i.safe MOBILE GmbH** does not assume any liability for damage caused by improper use. The warranty expires in the event of improper use.

WARRANTY

You can find the warranty conditions at **www.isafe-mobile.com/en/support/service**

EX MARKINGS

› ATEX:

- Ⓜ I M1 Ex ia I Ma
- Ⓜ II 2G Ex ib IIC T4 Gb
- Ⓜ II 2D Ex ib IIIC T135°C Db
- EU Type Examination Certificate:
EPS 22 ATEX 1 011 X
CE-designation: CE 2004

› IECEx:

- Ex ia I Ma
- Ex ib IIC T4 Gb
- Ex ib IIIC T135°C Db
- IECEx Certificate: IECEx EPS 22.0003X

› ANZEx (Australian/New Zealand):

- Ex ia I Ma
- Ex ib IIC T4 Gb
- Ex ib IIIC T135°C Db
- ANZEx Certificate:23.2002X

› Temperature range:

- 20°C ... +55°C (EN/IEC 60079-0)
- 10°C ... +50°C (EN/IEC 62368-1)

› Manufactured by:

- i.safe MOBILE GmbH**
- i_Park Tauberfranken 10
- 97922 Lauda-Koenigshofen
- Germany

EU DECLARATION OF CONFORMITY

You will find the EU declaration of conformity at the end of this Operating Manual or at **www.isafe-mobile.com/en/support/downloads**

› DEVICE OVERVIEW



- 1) **HOLDER:** Holder for IS530.M1.
- 2) **PLUG:** Connecting IS530.M1.
- 3) **MAGNETIC CHARGER PORT:** Connection for the i.safe PROTECTOR 3.0 Magnetic Charger Cable (included in the IS530.M1 package) for charging the IS530.M1.
- 4) **THERMAL CAMERA:** Recording temperatures.

› SAFETY

Read the "Safety" section of this Operating Manual carefully before using the device. If you do not follow these instructions or do not understand them, this could lead to death, severe injuries and damage to the device.

USER

Only trained users who are qualified in the use of Ex devices in explosion hazardous areas and who have read and understood this Operating Manual may use this device.

EX-RELEVANT SAFETY REGULATIONS

Use of this device assumes that the operator observes the conventional safety regulations and has read and understood Operating Manual, Safety Instructions and certificate. When used in explosion hazardous areas, the following Safety Instructions must also be complied with:

- » To ensure the IP-protection, it has to be ensured that all gaskets are present and functional. There must be no large gap between the two halves of the housing.
- » The device must be securely fastened to the ISM interface when used in ex-hazardous areas.
- » The device may not be exposed to any aggressive acids or alkalis.
- » The device shall be protected from the exposure of oils, greases and hydraulic fluids.

- » The device may only be used in zones 1, 21, 2, 22, M1 and M2.
- » The device must be protected from impacts with high impact energy, against excessive UV light emission and high electrostatic processes.
- » Only accessories approved by **i.safe MOBILE GmbH** may be used.

USE IN EXPLOSION HAZARDOUS AREAS

DANGER

Improper use can result in death or severe injuries!

- » Only use the device in explosion hazardous areas of zones 1, 21, 2, 22, M1 and M2 or outside of explosion hazardous areas.
- » Only connect the device outside explosion hazardous areas to the ISM interface of the **IS530.M1**.
- » Before entering an explosion hazardous area with the device,
 - make sure that the device is securely fastened to the ISM interface of the **IS530.M1**,
 - make sure that no gap can be seen between the two halves of the device,
 - make sure the device is not damaged,
 - make sure that all the labels on the device are readable.
- » If you use the device in an explosion hazardous area, read and follow the instructions in the "Possible User Errors" section.
- » Switch off the device immediately and leave the explosion hazardous area without delay if
 - malfunctions occur on the device,
 - you have damaged the housing of the device,
 - you have exposed the device to excessive loads,
 - the labels on the device are no longer readable.

» POSSIBLE USER ERRORS

DANGER

Improper use can result in death or severe injuries! Follow the instructions below:

- » Do not modify the device structurally.
- » Do not expose the device to high temperatures.
- » Do not expose the device to strong UV radiation.
- » Do not expose the device to processes with high electrical charges.
- » Do not expose the device to aggressive acids or bases.

When working in explosion hazardous areas, please note:

- » Do not loosen the screws on the device.
- » Do not open any interface cover.
- » Do not charge the **IS530.M1**.
- » Do not open the device.
- » Do not damage the device.

» SCOPE OF DELIVERY

Your device packaging contains the following:

- » 1 x **IS-TC1A.M1**
- » 1 x Operating Manual Safety Instructions
- » 1 x Screwdriver

» INSTALLATION

⚠ DANGER

Improper use can result in death or severe injuries! Only connect the device outside explosion hazardous areas to the ISM interface of the **IS530.M1**.



- » Unscrew the cover of the ISM interface (1) located on the **IS530.M1**.
- » Push the **IS530.M1** completely into the holder (2) of the device.
- » Attach the plug on top of the ISM interface (3).
- » Fix the plug by pressing the rounded end of the plug (4).
- » Tighten the screw (5).
- » Check whether the plug is correctly and firmly attached to the ISM interface.

The device can now be used together with the **IS530.M1** in explosion hazardous areas.

» INITIATION

NOTE:

The following information applies to **IS-TC1A.M1** in combination with the **IS530.M1**.

- » Download and install the **Seek Thermal** application from the Google Playstore.
- » Open the **Seek Thermal** application at the **IS530.M1** and you can start immediately.

› CHARGING THE IS530.M1

You can charge the **IS530.M1** via the magnetic charger port on the **IS-TC1A.M1**.

DANGER

An incorrect procedure in explosion hazardous areas poses risk of death or severe injuries! Only charge the **IS530.M1** outside of explosion hazardous areas. Do not charge the **IS530.M1** in the vicinity of flammable substances.

NOTICE

Incorrect charging can cause damage to the device.

- › Follow the instructions in the „Charging“ section of the **IS530.M1** operating manual.
- › Only charge the **IS530.M1** using the **i.safe PROTECTOR 3.0** Magnetic Charger Cable (included in the **IS530.M1** package).
- › Connect the **i.safe PROTECTOR 3.0** Magnetic Charger Cable to the magnetic charger port on the **IS-TC1A.M1**.

› POSSIBLE DEVICE PROBLEMS

You can find information on possible device problems and how to rectify them at **www.isafe-mobile.com/en/support/service** under the menu item **“FAQ”**.

If you have any further questions, please contact the **i.safe MOBILE** repair service at **www.isafe-mobile.com/en/support/service**

› MAINTENANCE/REPAIR

The device itself has no serviceable parts.

WARNING

Incorrect repairs present a risk of explosion or fire, which can result in death or severe injuries! Do not open the device or carry out any repairs yourself.

- › Contact the **i.safe MOBILE** repair service at **www.isafe-mobile.com/en/support/service** if the device is not working normally, if the device needs to be repaired or if a replacement part is required.

RETURN SHIPMENT

Contact the **i.safe MOBILE** repair service at **www.isafe-mobile.com/en/support/service**

› DISTRIBUTION PARTNER

You can find the specialist distribution partner responsible for your country at **www.isafe-mobile.com/en/contact**

› CLEANING

NOTICE

Incorrect cleaning can cause damage to the device. Please note the following when cleaning:

- › Do not use chemical agents for cleaning.
- › Clean the device with a soft, moistened antistatic cloth.

› STORAGE

NOTICE

Incorrect storage can cause damage to the device. Store the device at ambient temperatures between +5 °C to +35 °C (41 °F to +95 °F) and a humidity between 10 % to 60 %.

› RECYCLING

NOTICE

Incorrect disposal of electronic products, batteries and packaging material puts the environment at risk. Please note the following when disposing of items:

- › DO NOT throw away batteries with household waste.
- › Always dispose electronic products, batteries and packaging material at the appropriate collection points. This way, you prevent uncontrolled waste disposal and promote the recycling of material resources.



You can obtain further information from regional waste disposal companies, state authorities or the **i.safe MOBILE** service centre responsible for your country or region at www.isafe-mobile.com/en/support/service

› TRADEMARKS

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DEUTSCH

› ANWEISUNGEN LESEN UND VERSTEHEN

⚠ SCHÜTZEN SIE IHR LEBEN UND LESEN SIE DIE BEDIENUNGSANLEITUNG

Diese Bedienungsanleitung ist Teil des Geräts **IS-TC1A.M1 (Modell MTC1A01)**. Die Bedienungsanleitung liefert wichtige Informationen für eine sichere Verwendung des Geräts.

- › Lesen Sie vor der Verwendung des Geräts diese Bedienungsanleitung sorgfältig durch und beachten Sie insbesondere den Abschnitt „Sicherheit“ und die mit dem Warnsymbol hervorgerufenen Warnhinweise. ⚠
- › Sorgen Sie dafür, dass Sie bei Bedarf Zugriff auf diese Bedienungsanleitung haben. Die aktuelle Bedienungsanleitung finden Sie unter www.isafe-mobile.com/de/support/downloads
- › Beachten Sie alle Anweisungen auf dem Gerät und auf der Verpackung.
- › Befolgen Sie die örtlichen Sicherheitsvorschriften.

CONTACT/SERVICE CENTRE

FOR FURTHER QUESTIONS PLEASE CONTACT OUR SERVICE CENTRE:

- » **i.safe MOBILE GmbH**, i_Park Tauberfranken 10, 97922 Lauda-Koenigshofen, Germany
- » **support@isafe-mobile.com**
- » **<https://support.isafe-mobile.com>**

EU DECLARATION OF CONFORMITY



EU – Declaration of Conformity

EU – Konformitätserklärung

according to directive 2014/34/EU, 2014/30/EU, 2011/65/EU (2015/863/EU)

nach Richtlinie 2014/34/EU, 2014/30/EU, 2011/65/EU (2015/863/EU)

The company i.safe MOBILE GmbH declares under its sole responsibility that the product to which this declaration relates is in accordance with the provisions of the following data, directives and standards:

Die Firma i.safe MOBILE GmbH erklärt in alleiniger Verantwortung, dass Ihr Produkt auf welches sich diese Erklärung bezieht, den nachfolgenden Daten, Richtlinien und Normen entspricht:

Name & address of the manufacturer in the EU <i>Name & Anschrift des Herstellers innerhalb der europäischen Gemeinschaft</i>	i.safe MOBILE GmbH i_Park Tauberfranken 10 97922 Lauda – Koenigshofen Germany
Description of the device <i>Beschreibung der Geräte</i>	Explosion protected thermal camera <i>Explosiongeschützte Wärmebildkamera</i> type / <i>Typ</i> : IS-TC1x.M1 model / <i>Modell</i> : MTC1A01
Ex – marking <i>Ex – Kennzeichnung</i>	Ⓔ I M1 Ex ia I Ma Ⓔ II 2G Ex ib IIC T4 Gb Ⓔ II 2D Ex ib IIC T135°C Db
Type examination certificate 2014/34/EU issued by <i>Baumusterprüfbescheinigung 2014/34/EU ausgestellt durch</i>	EP5 22 ATEX 1 011 X Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96 86842 Tuerkheim, Germany identification number / <i>Kenn-Nummer</i> : 2004
Applied harmonized standards <i>Angewandte harmonisierte Standards</i>	EN IEC 60079-0:2018; EN 60079-11:2012
Conformity statement 2014/30/EU issued by <i>Konformitätsaussage 2014/30/EU ausgestellt durch</i>	Shenzhen Morlab Communications Technology Co., Ltd. FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, Guangdong, China
Applied harmonized standards <i>Angewandte harmonisierte Standards</i>	EN IEC 61326-1:2021

EU DECLARATION OF CONFORMITY

<p>Conformity statement 2015/863/EU amending 2011/65/EU issued by <i>Konformitätsaussage 2015/863/EU ergänzt 2011/65/EU ausgestellt durch</i></p> <p>Applied harmonized standards <i>Angewandte harmonisierte Standards</i></p>	<p>Shenzhen Morlab Communications Technology Co., Ltd. FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China</p> <p>IEC 62321-3-1: 2013; IEC 62321-5: 2013; IEC 62321-4: 2013 + A1: 2017; IEC 62321-7-1: 2015; IEC 62321-7-2: 2017; IEC 62321-6: 2015; IEC 62321-8: 2017</p>
<p>CE Marking <i>CE-Kennzeichnung</i></p>	<p>CE2004</p>

 i.safe MOBILE

Lauda – Koenigshofen 27.10.2022



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