ZONE 2/22
CL I, II, III DIV 2

Capture, analyze and document thermal images

IS-TC1A.2

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The set consisting of the thermal imaging camera IS-TC1A.2 and the industrial smartphone IS530.2 detects temperatures in the Ex-hazardous area from -40 °C to 330 °C in a matter of seconds via the Seek Thermal app (free download in Google Play Store). The The thermal images and videos are processed and documented directly via the ISM interface of the IS530.2 smartphone.

i.safe MOBILE

DATASHEET

IS-TC1A.2

APPROVALS

ATEX approval: Ex-Zone 2/22
II 3G Ex ic IIC T4 Gc
II 3D Ex ic IIIC T135°C Dc

IECEx approval: Ex-Zone 2/22
Ex ic IIC T4 Gc
Ex ic IIIC T135°C Dc

UKCA approval: EX-Zone 2/22
II 3G Ex ic IIC T4 Gc
II 3D Ex ic IIIC T135°C Dc

NEC500 approval:
Class I Div 2 Groups A, B, C, D, T4
Class II Div 2 Groups F, G , T135°C
Class III Div 2

TECHNICAL FEATURES

Sensor resolution	200 (h) x 150 (v) | 30000 Pixels | FixFocus | Digital zoom over app
Sensor sensivity	65 mK (typical)
Frame rate	<9 Hz to 32 Hz
Scene dynamic range	-40 °C to 330 °C
Temperature accuracy	± 7 °C and 7 % (at 5 °C to 140 °C) | ± 10 °C and 10 % (at 140 °C to 330 °C)
Detection range	up to 300 m
Recognition range	up to 75 m
Identification range	up to 25 m
View range	35° (HFOV) | 26° (VFOV)
Dimensions	size: 112 x 82 x 50 mm | weight: 190 g
Power supply	over the connected mobile device
Communication	over the multi functional ISM interface of the IS530.1
Types of protection	IP68 | MIL-STD 810H | useable from -20 °C to + 55 °C

IS530.2

Android™ 13

4,5“ Gorilla Glass®
3. generation,
resolution 854 x 480 pixels

3600 mAh battery,
replaceable,
3,8 V, 13,68 Wh

Bluetooth® 5

GSM 850/900/1800/1900 MHz
WCDMA: UMTS B1/2/4/5/8
LTE-FDD: B1/2/3/4/5/7/8/12
with MFBI B13/14/17/20/25/
26/28A/28B/29/30/66
LTE-TDD: B38/B39/B40/B41
TD-SCDMA: B34/B39

Qualcomm Snapdragon SDM660 Octa-Core
Kryo Gold-Quad cores, 2,2 GHz
Kryo Silver-Quad cores, 1,8 GHz
4 GB RAM
64 GB internal memory

2,4 GHz + 5 GHz: IEEE 802.11
a/b/g/n/ac/e/k/r/h with hotspot
for max. 8 connections

The complete description you will find on our homepage: **www.isafe-mobile.com**

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Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

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