

i.safe MOBILE

**ZONE 1/21
CL I, II, III DIV 1**



**Capture, analyze
and document
thermal images**

IS-TC1A.1



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The set consisting of the thermal imaging camera IS-TC1A.1 and the industrial smartphone IS530.1 detects temperatures in the Ex-hazardous area from -40 °C to 330 °C in a matter of seconds. The thermal images and videos are processed and documented directly via the ISM interface of the IS530.1 smartphone.

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< IS-TC1A.1 >



ATEX approval: Ex-Zone 1/21
Ⓜ II 2G Ex ib IIC T4 G
Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: Ex-Zone 1/21
Ex ib IIC T4 G
Ex ib IIIC T135°C Db



NEC500 approval applied for:
Class I, II, III Division 1
Groups A B C D E F G T4

TECHNICAL FEATURES

Sensor resolution	200 (h) x 150 (v) 30000 Pixels FixFocus Digital zoom over app
Sensor sensitivity	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	IP67 MIL-STD 810H useable from -10 °C to + 60 °C



< IS530.1 >



Android™ 10



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 MFB1 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

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