



**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 via the Seek Thermal app (free download in Google Play Store). The thermal images and videos are processed and documented directly via the ISM interface of the IS530.1 smartphone.

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# i.safe MOBILE

IS-TC1A.1



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



IECEx approval: Ex-Zone 1/21  
Ex ib IIC T4 Gb  
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

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



IS530.1



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](http://www.isafe-mobile.com)

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