

**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

|                             |                                                                             |
|-----------------------------|-----------------------------------------------------------------------------|
| <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>  | 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 B1/2/4/5/8/12  
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](http://www.isafe-mobile.com)