CAMERA SOLUTION
FOR USE IN ATEX ZONE 1 / CLASS 1 DIV 1
A PICTURE IS WORTH A THOUSAND WORDS. THIS IS OFTEN TRUE - EVEN IN HAZARDOUS AREAS.

Taking a high resolution photo or full HD video of a fault or malfunction, and sending it directly to the control centre can streamline the actions needed to correct the fault, reducing the time to a fix, and potentially reducing the risk to the plant and people.

Until now, „Ex“ cameras intended for use in hazardous areas have been expensive, heavy, a potential security risk, and often limited in functionality. With the introduction of Smart-Ex® Camera, these limitations disappear.

OTHER ADVANTAGES INCLUDE

- Video Functionality:
  - Full HD, 1920 x 1080 px (rear camera),
  - HD, 1280 x 720 px (front camera)
- Battery 3600 mAh, Stand by time up to 1000 hours
- Integrated GPS and RFID: attach a geo-location reference to the pictures/videos, aiding future diagnosis / correction tasks
- Small, lightweight and extremely robust
- ATEX / IECEx / NEC approval: can be used in almost any hazardous area around the world
- Programmable Hardware keys of the Smart-Ex® Camera to trigger the camera / video recording

When combined with MDM (Mobile Device Management) or „Kiosk mode“ software, Smart-Ex® Camera offers a more prudent investment and future-proof option compared to traditional „Ex“ cameras. Such software is used to limit the access to specific functions on the device.

And, when combined with Bluetooth „BLE“, such as the ecom Loc-Ex 01, Smart-Ex® Camera can be configured to automatically disable the camera in sensitive plant locations, and re-enable the camera in authorised areas - providing the convenience of a camera without the business risk.
**PERFORMANCE**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Android™ 4.4, KitKat</td>
</tr>
<tr>
<td>Standard image capture resolution</td>
<td>8 MP auto focus rear, max. 3264 x 2448 px photos 1 MP fixed focus front</td>
</tr>
<tr>
<td>Sensor</td>
<td>CMOS</td>
</tr>
<tr>
<td>Video resolution</td>
<td>Full HD, 1920 x 1080 px (rear camera), HD, 1280 x 720 px (front camera)</td>
</tr>
<tr>
<td>Zoom</td>
<td>Digital zoom</td>
</tr>
<tr>
<td>Processor</td>
<td>Chipset MSM8926 1.2 GHz Quad core</td>
</tr>
<tr>
<td>Flash</td>
<td>Yes</td>
</tr>
<tr>
<td>User memory</td>
<td>12 GB</td>
</tr>
</tbody>
</table>

**PHYSICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen size</td>
<td>4.0 inch</td>
</tr>
<tr>
<td>Display</td>
<td>Corning Gorilla® Glass 2 with Glove Touch, Outdoor Visibility</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 370 g</td>
</tr>
<tr>
<td>Battery Type</td>
<td>Embedded</td>
</tr>
<tr>
<td>Capacity</td>
<td>3600 mAh; Stand by time up to 1000 hours</td>
</tr>
<tr>
<td>Cell type</td>
<td>Li-Ion</td>
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<tr>
<td>Ambient temperature</td>
<td>-20°C ... +55°C</td>
</tr>
<tr>
<td>IP</td>
<td>68</td>
</tr>
</tbody>
</table>

**CERTIFICATION**

- **ATEX**
  - Ex II 2G Ex ib IIC T4 Gb IP64
  - Ex II 2D Ex ib IIC T135 °C Db IP64
  - Mining (Smart-Ex® 01M) I M1 Ex ia I Ma IP64

- **IECEx**
  - Ex ib IIC T4 Gb IP64
  - Ex ib IIIC T135 °C Db IP64
  - Mining (Smart-Ex® 01M) Ex ia I Ma IP64

- **NEC & CEC**
  - Class I, Division 1, Groups A-D T4
  - Class II A, III, Division 1, Groups E-G T4

- **KC - Korean Zulassung**
  - Ex ib IIC T4
  - Ex ib IIIC T135°C

- **NCC (Brasilien)**
  - Ex ib IIC T4 Gb IP64
  - Ex ib IIIC T135 °C Db IP64

**FEATURES**

- Intrinsically Safe Camera, the Smart-Ex® Camera
- 8 MP Rear Camera with LED-Flash and torchlight function
- 1 MP Front Camera
- Camera to capture assets and faults
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