

PRODUCT ANNOUNCEMENT

Introducing the Class I, Division 2 certified **TOUGHPIX DIGITHERM, US Edition**



AT A GLANCE

CorDEX Instruments introduces the TOUGHPIX DIGITHERM TP3rEx(US), a full featured compact, intrinsically safe, digital imaging camera. This latest edition of TOUGHPIX DIGITHERM, boasts the same core features of the ATEX certified option but with the additional benefit of holding **Class I, Division 2** certification by MET for the North American market.

With the ability to combine its 5MP digital image with its 80x60 thermal image, in real time, TOUGHPIX DIGITHERM TP3rEx(US) offers a best in class feature set, enabling not only standard digital camera operation but the added benefit of infrared temperature measurement.

TOUGHPIX DIGITHERM TP3rEx(US) offers users the ability to download images either via a removable 4GB Memory Card or on-board Wi-Fi technology. Supplied with the powerful CorDEX CONNECT reporting package, TOUGHPIX DIGITHERM TP3rEx(US) represents the ultimate in compact digital imaging camera technology intended for use in potentially hazardous (explosive) areas. With its removable & rechargeable battery pack (supplied) the end user can be confident that their TOUGHPIX DIGITHERM TP3rEx(US) is kept running around the clock, maximizing return on investment.

THE TOUGHPIX DIGITHERM TP3rEx(US) FEATURES

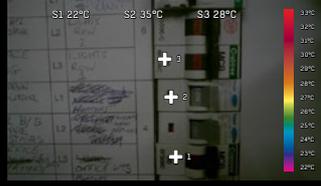
- Class I, Division 2 certified
- Adaptive Thermal Blending
- Alarm triggered image capture
- High Resolution CMOS Sensor
- LED Flash
- Removable/Upgradable Memory Card
- 4,800 Temperature Measurement Points
- CorDEX Enhanced Measurement Algorithms
- Removable/Rechargeable Battery
- Wi-Fi Enabled
- Lightweight & Compact

FEATURES AND BENEFITS



Alarm triggered recording

Simply set an alarm threshold and DIGITHERM monitors continuously until the alarm condition is met, then begins automatically recording both visual and thermal images at preset intervals.



Spot analysis

Place up to three spots at any location on the screen and receive live temperature data at each spot on the display.



Periodic save

Capture difficult process problems quickly and easily by saving visual and thermal images automatically every 30s, 1 min, 2 min and 5 min.



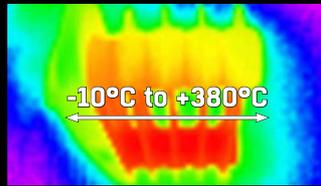
Box analysis

Measure the maximum, minimum and average temperature in a user defined box.



Lightweight and compact

Weighing in at only 13.4oz, DIGITHERM is light enough to be held in the palm of your hand, compact enough to fit into a work pocket whilst rugged enough to withstand harsh environments.



Enhanced Measurement Algorithms

Using CorDEX EMA, TOUGHPIX DIGITHERM can measure from 14°F to 716°F including complete radiometric parameter adjustment capability.



Adaptive Thermal Blending (ATB)

Select a high or low screen threshold and the camera will blend the thermal image into the digital image, at all items above or below the set point an invaluable tool for wide area temperature monitoring.



Removable memory card

TOUGHPIX DIGITHERM is supplied as standard with removable 4GB memory card and USB card reader. Simply remove the card, insert into a PC and download visual and thermal images directly, in an instant.

HOW IS THE CAMERA DIFFERENT TO PREVIOUS OFFERINGS?

Traditionally, CorDEX Instruments manufactured what is known as an "explosionproof" digital camera. This means that the camera electronics are housed within a camera shaped aluminium case which is carefully designed and tested to contain any explosion caused by the camera, within the body. Obviously in the unlikely event that this occurred the camera would be destroyed but the explosion would not continue out of the camera and into the facility.

To achieve an explosionproof certification, the camera shaped housing must be extremely strong, which, even with lightweight aluminium materials means that the camera is always heavy. Added to this, explosionproof cameras require flamepaths of particular shapes and lengths which allow the expanding gas caused by an explosion within camera to cool as it escapes the housing in a controlled manner.

These flamepaths and the rules associated with them mean that explosionproof cameras are always large and bulky.

Batteries are also a challenge with explosionproof designs. The explosionproof certification requirements do not allow batteries to be charged within the casing, so large entry points are required to remove the battery packs. Cell chemistry is also a challenge often requiring the use of aging NiMH technology which in turn can have an affect on runtime.

TOUGHPIX DIGITHERM TP3rEx(US) is very different, it's the first CorDEX Ex digital camera to be designed INTRINSICALLY SAFE, rather than explosionproof. This means that the explosionproof limitations do not apply as the camera is designed from the ground up to be "spark-safe", no part of the camera can cause a spark even the high capacity lithium ion battery pack.