

# CorDEX

## INSTRUMENTS

SAFETY IN FOCUS

### TC7000

Intrinsically Safe Thermal Imaging Camera



- » ATEX/IECEx Certified for Zone 1, 2, 21, 22 & M2 explosive areas
- » No waiting for hot work permits with intrinsically safe design
- » Perform safe electrical inspection with RFID compatibility to CorDEX Intelligent IR Windows
- » Find the smallest defects with the high resolution 320 x 240 IR detector

## INTRINSICALLY SAFE RADIOMETRIC THERMAL IMAGING CAMERA FOR HAZARDOUS AREAS

**The TC7000** - Thermography in hazardous (explosive) areas? No hot work permit? Go right ahead with the only certified intrinsically safe radiometric thermal imaging camera, TC7000 from CorDEX Instruments.

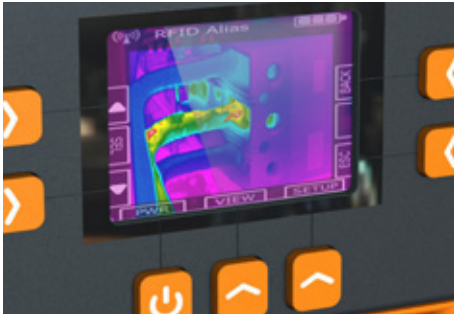
Tough, bright and unstoppable, TC7000 is the thermal imaging camera of choice for oil/gas, mining and hazardous dust environments where safety cannot be compromised.

Check out refractory lining in crackers and heaters, missing or damaged pipe insulation, steam traps, motors, bearings, gearboxes, shaft misalignment, trace heating, flares, tank levels, condenser fins, heat exchangers, pumps, pipe and valve leakage, poor lubrication.





Swivel the lens to minimise screen reflections and comfortably access high and low areas



See hot spots easily with the clear and bright 3.2" Backlit Display.



Download images and data through the USB connection to CorDEX CONNECT™ reporting and predictive maintenance software.

Authorised distributor

Certificate Information	
ATEX / IECEx Certificate No	TRAC12ATEX0037X / IECEx TRC 12.0019X
ATEX / IECEx Certificate Types	» Ex ib IIC T4 Gb Tamb -10°C to +40°C (Vapor) » Ex ib IIIC T200°C Db Tamb -10°C to +40°C (Dust) » Ex ib I Mb (Mining)
Temperature Information	
Measurement Range	-4°F to 1112°F (-20°C to +600°C)
Accuracy	± 2°C or 2% of reading
Imaging	
Image Frequency	9Hz
Detector	320 x 240 uncooled microbolometer
Thermal Sensitivity/NETD	50mK
Spectral Range	8µm to 14µm
Field of View (FOV)	25° x 20.5°
Spatial resolution (IFOV)	1.38 mrad
Minimum focus distance	≈ 4" (10cm)
Lens	F 1.2
Image Capture	
File Storage	8GB
File Formats	CDX (Radiometric) JPEG (Non-radiometric)
Voice Annotation	YES
RFID Tag Reader	» Operates with 13.54MHz passive tags » Detection range up to 5cm (1.9in) » Supports ISO/IEC15693-2, ISO/IEC18000-3 tag formats
General	
Operating Temperature	-4°F to 104°F (-20°C to +40°C)
Storage Temperature	-40°F to +158°F (-40°C to +70°C)
Display	3.2" Backlit LCD
Software	CorDEX CONNECT (Included)
Batteries	3 x MN1500 primary cell

#### TC7000 is supplied complete as standard with:

- » Intrinsically Safe Thermal Imaging Camera
- » 3 x MN1500 primary Cells
- » Hard carry case
- » Wrist strap
- » 5 x RFID Tags
- » USB communication wand
- » Documentation CD

Why not visit CorDEX Instruments website for the latest news and downloads, or even come and join our CorDEX Instruments Community and learn more about the technology CorDEX Instruments provide.



CorDEX Instruments reserve the right to make changes to the instrument at anytime and without notice. \*Check operations maintenance manual for compatibility.

For more information and customer testimonials, contact...



**CorDEX Instruments Ltd**  
Unit 1, Owens Road,  
Skippers Lane Industrial Estate,  
Middlesbrough,  
Cleveland TS6 6HE

