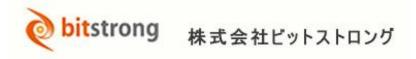
IrMonitor

Turnkey solution for Infrared Surveillance

- Early fire detection in waste bunkers
- Detection of burning parts on conveyor belts
- Critical vessel monitoring
- Steel laddle check
- Pipeline leakage detection
- Substation monitoring
- Flare monitoring



Application Examples

Detection of Burning parts on conveyor belts



Waste Bunker Monitoring



Flare Monitoring





Steel ladle Check



Substation Monitoring



Critical Vessel Monitoring

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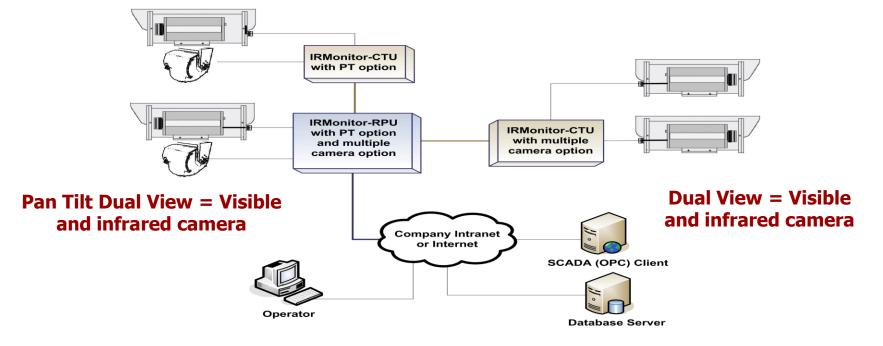
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System Description

Pan Tilt IR-Camera

Fixed IR-Camera



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Camera Options

IrMonitor Standard: Fixed mounted infrared camera

- IrMonitor Dual View: Fixed mounted visible and infrared cameras
- IrMonitor Standard PT: Pan Tilt infrared scan camera
- IrMonitor Dual View PT: Pan Tilt visible and infrared scan camera
- Accessoires: cooled housing, window air barrier, air purge for ex-proof, wiper, stainless steel housing, ex-proofed housing...



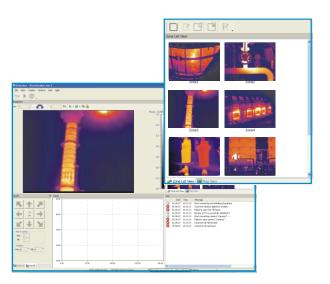


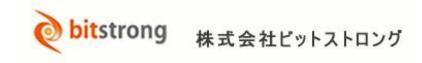




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Multiple Monitoring Zones per Camera Unlimited Number of ROIs per Zone Automated Evaluation and Alarm Generation Temperature Trend Analysis Automated Database Storage Storage of all Settings in Workspace Files Web based Backend for Customer Data Access

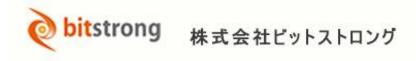




- Fail-Safe Design:
- Automatic self-test of the whole system by
- attached blackbody

Map view of the monitored area. Important Function for DXF-files (AutoCAD)





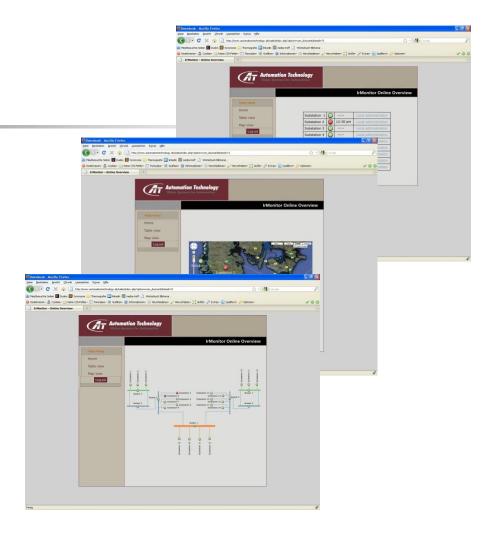
Interfaces for input devices like joysticks

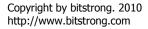
- or touchpanels
- Supports digital I/O for control and Alarming purposes with a variety of boards from National Instruments
- Multiple User Levels, Password protected

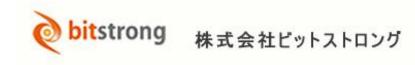




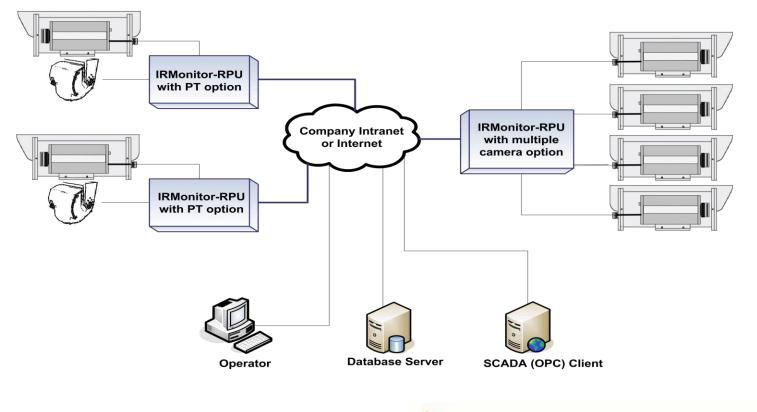
- Online overview for all
- IR camera terminals (SCADA)
- World-wide access
- Login for multiple user levels
- With table view
- and map view
- Direct forwarding to local system administration

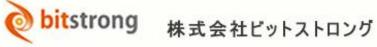






IRMonitor Remote Procesing Units (RPUs)

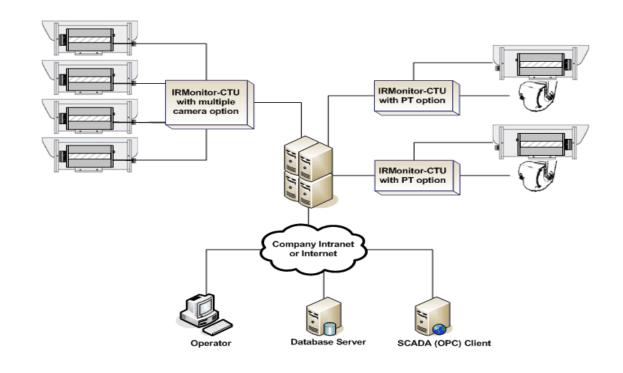




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IRMonitor Packages

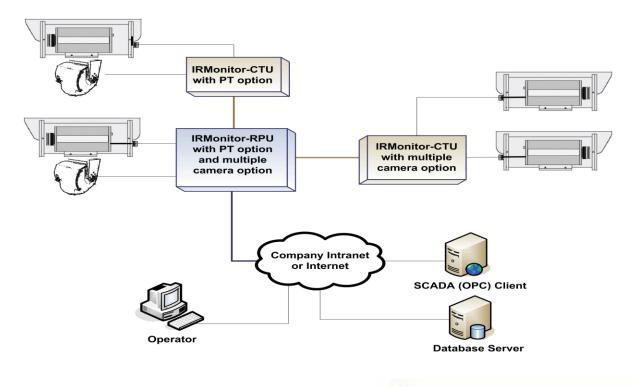
System Configuration with IRMonitor Central Computing Unit (CCU)





IRMonitor Packages

System Confiuration with IRMonitor RPU + CU Extesion





Monitoring of Waste Bunkers and Storage Areas

- Automated Detection of open fires and pockets of embers
- One Camera + PT per storage area
- User defined monitoring zones
- Fail safe design

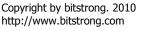


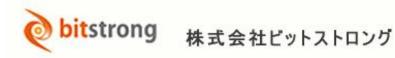


Monitoring of Waste Bunkers and Storage Areas

- Automated Detection of open fires and pockets of embers
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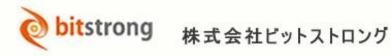




Monitoring of Waste Bunkers and Storage Areas

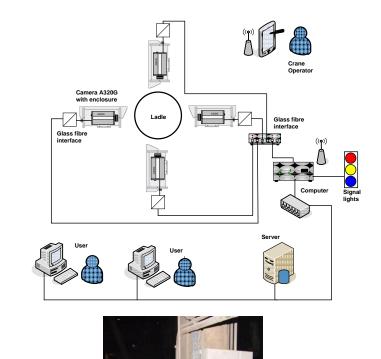
- Automated Detection of open fires and pockets of embers
- One Camera + PT per storage area
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- Fail safe design



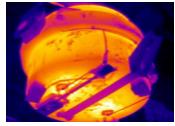


Steel Ladle Inspection

- Ladle inspection with four A cameras
- Running 7 / 24h
- Refractory repair only when necessary
- Saves time and money
- Increased Safety









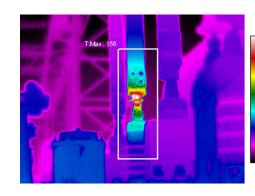
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Substation Monitoring

- Automated Detection of Failures in critical Components of Substations
- Prevents Short Circiuts, Overloads and Burn Outs
- One Camera + PT per storage area
- User defined monitoring zones
- Fail safe design





149.5°C

18,9°C

100

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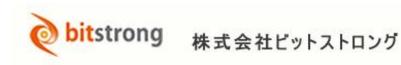
Other Applications

Critical Vessel Monitoring

Automated Monitoring of Flares



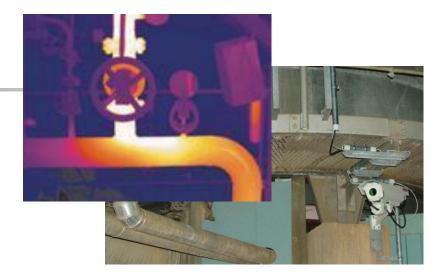
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Other Applications

- Leakage Detection in
- Petrochemistry



Fire Detection in Tunnels and Mines



