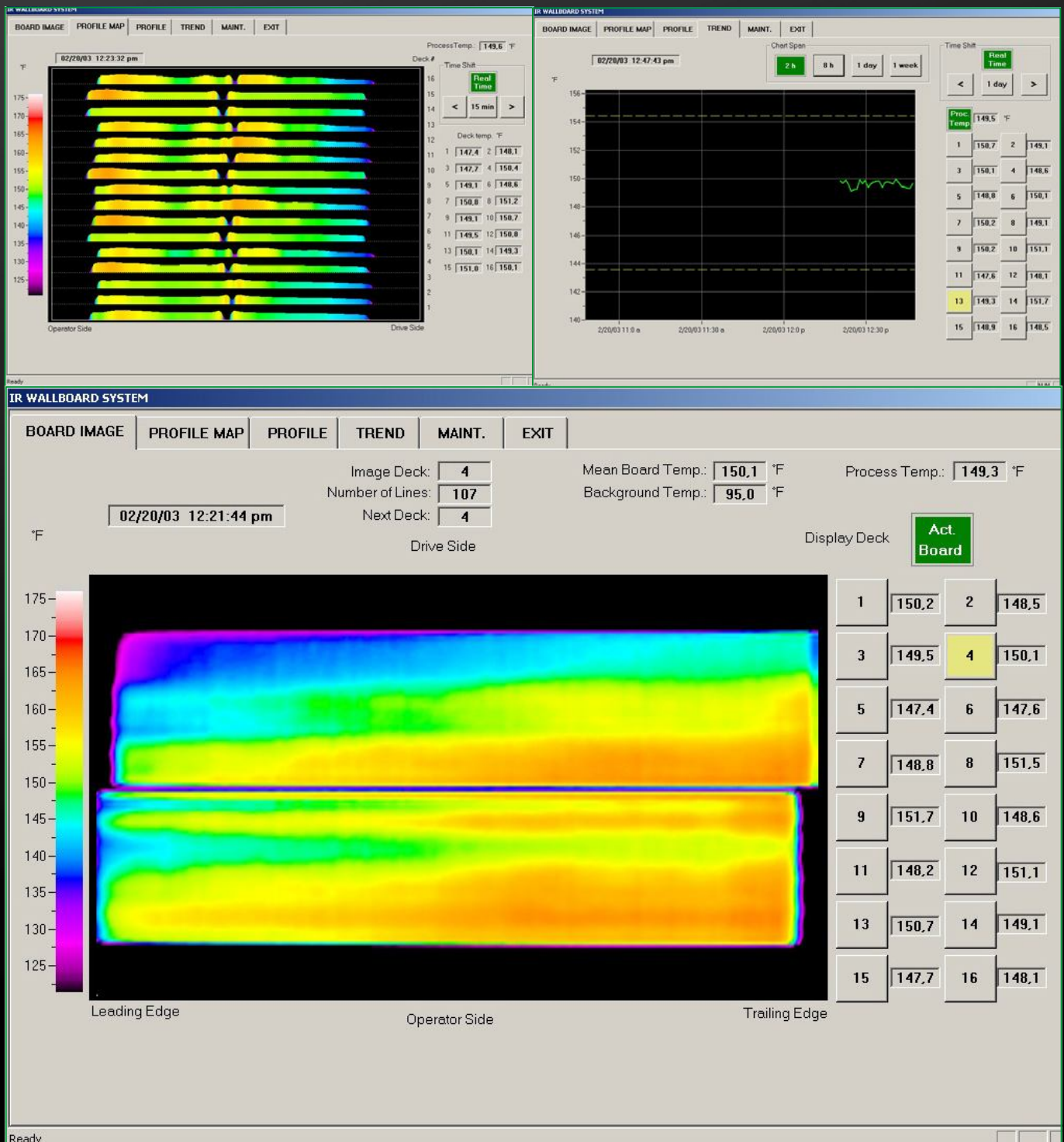


PYROLINE WBS

Infrared Line Camera System for Gypsum Applications



PYROLINE WBS – IR Line Camera System for Gypsum Applications

Complete System including Line Camera, Control PC, Console Cabinet, I/O Components and Software

It is of high importance to homogeneously keep the temperature and moisture distribution uniform on the gypsum plate during the hardening process. Varying conditions would lead to tears or even complete cracks in the plates. Because it is not humanly possible to fully realize minute differences in temperature and moisture distribution, the use of special sensor-devices and measuring processes are necessary to exactly define the problem areas. The infrared line camera system **PYROLINE WBS** including the software **IR-WBS** allows a quick recording of surface temperatures on the complete plate.

Features

- Detection of temperature differences < 0.5 °C
- Permanent use in harsh industry environments
- Console cabinet including control PC and TFT touchscreen
- Application specific software IR-WBS

Software IR-WBS

- Real-time IR image of the gypsum plates
- Profile view for up to 16 dryer (current and historical)
- Profile view of single plates (current and historical)
- Display of temperature trends for process and plate temperature
- Storage of profiles and trends
- Editable product list
- Easy operation via touchscreen
- Password protected user levels



Technical Data – Uncooled Infrared Line Camera PYROLINE 128L protection and 256L protection

	PYROLINE 128L protection	PYROLINE 256L protection
Sensor	Uncooled pyroelectric linear array (128 or 256 Pixel)	
Temperature ranges ^{1,2}	50 °C to 550 °C	50 °C to 550 °C (256L/256 Hz), 150 °C to 800 °C (256L/512 Hz)
Spectral range	8 µm to 14 µm	
Optics ¹	40°, 60°, 90° ⁵ (optics with motor or manual focussing)	
NETD ³	0.5 K/1.5 K	0.5 K/1.5 K (256L/256 Hz), 0.5 K/2 K (256L/512 Hz)
Measurement frequency	internal 256 Hz, selectable: 256 Hz, 128 Hz, 64 Hz, 32 Hz,...	internal 256 Hz, selectable: 256 Hz, 128 Hz, 64 Hz ... (256L/256 Hz) internal 512 Hz, selectable: 512 Hz, 256 Hz, 128 Hz ... (256L/512 Hz)
Response time	internal 8 ms, selectable 2/measurement frequency	internal 8 ms, selectable 2/measurement frequency (256L/256 Hz), internal 4 ms, selectable 2/measurement frequency (256L/512 Hz)
Measurement uncertainty	2 K (object temperature < 100 °C) or 1 K + 1 % of measured value in °C	2 K (object temperature < 100 °C) or 1 K + 1 % of measured value in °C, 1 K + 1 % vom Messwert in °C (256L/512 Hz)
Interfaces ⁴	Gigabit or Fast Ethernet, galvanically isolated digital inputs (trigger) and digital outputs (alarm)	
Power supply	12 V to 36 V DC, approx. 7 VA	
Camera housing	Industry protection housing IP65, stainless steel, with air purge unit and water cooling, diameter 110 mm, length 280 mm, without mechanical mounting and connections, weight approx. 4.2 kg	
Operating temperature	-10 °C to 50 °C (without water cooling), -25 °C to 150 °C (with water cooling)	

¹ Others on request. ² Specifications for black body radiator and ambient temperature 25 °C. ³ Noise equivalent temperature difference at 32 Hz and maximum measurement frequency. ⁴ Dependend on configuration. ⁵ NETD increase by factor 2.



We are certified
for many years
according to
ISO 9001

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