

Features & Benefits

High resolution, user focusable optical system allowing detection of small temperature differences across the width of the product, providing optimum product quality through improved process control.

Designed for operation in harsh industrial environments – sealed to IP65 (NEMA4), where the ambient temperature is up to 150°C (302°F), ensuring maximum measurement availability and longer instrument life.

+ Plug and play installation via a single Ethernet cable connection, reducing installation time, costs and complexity.

+ Range of data output formats for easy connection to the process control system.



LSPHD Functions

- High definition thermal imaging from a combination of fast scan speeds (up to 150Hz) and high resolution optics (1000 samples per scan line).
- Streamed process data is available directly from the scanner via digital communications for direct integration into plant control systems.
- Analog and digital outputs can be connected via the ethernet link to provide flexible connectivity directly to process control systems.
- Optional analog and digital inputs to interface with external process sensors, e.g. process speed sensors, weld detectors and hot metal detectors



Typical LSP_{HD} installation

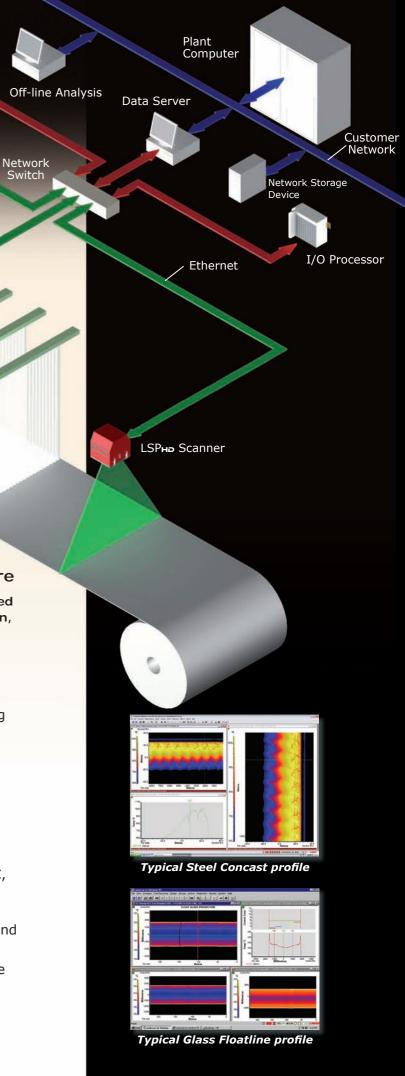
Control and Analysis Software

The LAND Data Server provides detailed temperature measurement information, analysis tools and product storage for product quality control purposes and subsequent analysis.

Software Features

LSP_н Scanner

- Simultaneous display and processing of multiple live data sources with historical data sources
- Automatic bad product rejection functions
- Flexible interface provides access to measured temperatures and processed data via a wide range of standard industrial interfaces, e.g. cross-platform TCP/IP protocol, OPC, analog signals or alarm outputs
- Optional support of multiple client workstations – accessing both live and historical data
- Off-line software available to provide access to historical data for quality control purposes



LSP_{HD} Applications

Industry	Application	Typical Temperature	Recommended
,		Measurement Range	Scanner
Comont	Potomy Kilne, Conveyore, Dryore	20 to 250 °C / 68 to 482 °F	LSP _{HD} 60
Cement	Rotary Kilns, Conveyors, Dryers	50 to 400 °C / 122 to 752 °F 100 to 600 °C / 212 to 1112 °F	LSPно 61 LSPно 62
0	Coment Aerbelt Colve	20 to 250 °C / 68 to 482 °F	LSP _{HD} 60
Conveyors	Cement, Asphalt, Coke	50 to 400 °C / 122 to 752 °F 100 to 600 °C / 212 to 1112 °F	LSPно 61 LSPно 62
		100 to 000 °C / 212 to 1112 °F	LJPHD 02
Class	Floatline, Automotive, Holloware,	150 to 750 °C / 302 to 1382 °F	LSPно 5FL & LSPно 50
Glass	Bending, Toughening/Tempering, Annealing, Solar Panels	500 to 1100 °C / 932 to 2012 °F	LSPно 52
	Hot Strip Mill - Roughing Mill		
Iron & Steel	Entry/Exit, Coil Box, Edge Heaters,		
	Continuous / Multi-strand caster	600 to 1400 °C / 1112 to 2552 °F	LSPнр 10
	Hot Plate Mill - Roughing Mill Entry/ Exit, Hot Leveller	700 to 1500 °C / 1292 to 2732 °F	LSPно 11
	Hot Beam Mill - Beam, Beam caster,		
	Jumping beam detection		
	Reheat Furnace Exit, Rod and Wire		
	Hot Strip Mill - Cooling Section		100.00
	Hot Plate Mill - Run-out table	200 to 850 °C / 392 to 1562 °F	LSPHD 20
	Continuous Annealing line (top of snout	300 to 1000 °C / 572 to 1832 °F	LSPHD 21
	before zinc pot) Annealing Furnaces	400 to 1200 °C / 752 to 2190 °F	LSPнь 22
	Galvanising and Galvanneal lines		
	Torpedo cars, Ladle safety, Coated steel	20 to 250 °C / 68 to 482 °F	LSPнр 60
	Galvanising lines (top roll position)	50 to 400 °C / 122 to 752 °F	LSPHD 61
		100 to 600 °C / 212 to 1112 °F	LSPHD 62
	Paint Coating Lines	50 to 350 °C / 122 to 662 °F	LSPнр 71
Non-wovens	Non-wovens (Paper rolls, webs)	20 to 600 °C / 68 to 1112 °F	LSPно 60, 61 & 62
	Polymer-based	50 to 350 °C / 122 to 662 °F	LSPнь 71
	PVC, Polycarbonates, Polypropylene,		
Plastics	Polyethylene, PET, Cellulose acetate	50 to 350 °C / 122 to 662 °F	LSPHp 71
	and Polystyrene, Thin Plastics,		
	Thermoforming		
	-	20 to 250 °C / 68 to 482 °F	LSPно 60
	Plastic Extruders, Thermoforming	50 to 400 °C / 122 to 752 °F	LSPHD 61
	,	100 to 600 °C / 212 to 1112 °F	LSPHD 62
Other	Cold Rolling, Coating Processes,		
Industries	Building Products	20 to 600 °C / 68 to 1112 °F	LSPно 60, 61 & 62
11144511105			

Intelligent Scanning

Intelligent scanning solutions aim to solve problems by providing more than just a measurement. LAND is able to provide a custom solution according to your requirements - this includes custom temperature ranges, application specific mountings and bespoke communications protocols.



Non-Contact Temperature Measurement Solutions

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For full details of all international offices and distributors please visit our websites









Thermal Imaging and Temperature Profiles for Continuous Process Monitoring and Quality Control

with industry leading... 150 Hz scan speed combined with 1000 samples per scan



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Infrared Linescanners

