



COMPANY PROFILE

LAND / AMETEK[®]

AUTHORIZED DISTRIBUTER

WELCOME

“We extend a warm welcome to you as you explore Orion international your trusted partner in scientific innovation. Where scientific excellence meets innovation. Join us on a voyage of discovery, where we elevate standards and inspire progress. We're delighted to have you with us”

ABOUT ORION INTERNATIONAL

Orion International was found in 1987 with a goal of helping chemists become more productive by providing them with products that eliminate repetitive time consuming task. Orion International represents worlds renowned brand Land Ametek, Land Instruments International and Milestone. To maintain the highest possible level of quality, standards have been established for every phase of operation .The company delivers the industry broadest selection of high-end instruments, equipment, consumables and supplies. Its growing portfolio of products . The company also gives its customers the most convenient purchasing options.

Dedicated and knowledgeable sales team which understands the customers' needs and their business challenges and provides the most optimum and economical solutions.

Committed to constantly creating excellence, we are successfully forging ahead with the expansion of our services in the analytical industry both quantitatively and geographically. Beyond gathering a rich heritage of excellence



Company Overview

Orion International is the leading authority in process innovation, serving as the sole authorized distributor and service provider for the esteemed Land Ametek in Pakistan

SERVICES

We have a team of qualified sales, service and application support engineers factory trained in , UK, and other countries for installation, commissioning training maintenance and application support. We under-take maintenance contracts of equipments for , Cement Industries, Power Plants, Fertilizer, Oil & Gas Sector and Steel Industris.

All major cities like Karachi, Lahore and Islamabad have their local engineers. We have advanced and equipped workshop in Karachi head office where we cantroubleshoot instruments.

We have a training center for our customers in Karachi head office. We offer training courses to our customersfor preventive maintenance and calibration techniques of their instruments.



PARTNER WITH EXCELLENCE

“Orion International joined hands with Land Ametek to experience the rich history, unmatched expertise, and unwavering commitment to process operations that define our journey”

AUTHORIZED DISTRIBUTER OF LAND AMETEK



We represent world leading process equipments manufacturer Land Ametek and partner with them to provide total, value added and cost-effective services to our esteemed clientele

As the exclusive distributor for Land Ametek in Pakistan, we offer their comprehensive portfolio of world-class instruments and technologies. This partnership allows us to provide you with access to the latest advancements in process operations

A BIT ABOUT OUR PRINCIPAL

Land Ametek is the world's leading manufacturer of monitors and analyzer for industrial infrared non-contact temperature measurement, combustion efficiency and environmental pollutant emissions.

Founded in the UK in 1947, Land Instruments International Limited developed a reputation for producing innovative, resilient measurement technologies designed to operate in the most challenging conditions. Acquired by the Process & Analytical Instruments Division of AMETEK, Inc in 2006, today AMETEK Land is the premium supplier of product application solutions to world industries including steel making, glass making, minerals processing, hydrocarbon processing and thermal power generation.

Our success rests on award-winning technologies that push the limits demanded by the ever-increasing technical demands of global industry. Aligned with our expert knowledge, we meet the challenges of a wide range of applications, delivering process safety, process control and product quality our customers depend on.



OUR GOAL IS TO ESTABLISH AND MAINTAIN CUSTOMERS FOR LIFE

Orion International's engineers are experienced, certified and trained on your instrumentation. We have developed a technical and sales team, who are always seeking new challenges, tasks and queries to finish, fulfill and answer them. The team goal is to satisfy the customers need as quickly as possible. Training is very important to increase the productivity

Orion International offered trainings typically cover basic instrument theory, proper operation, technical specification, troubleshooting tips, product adjustments, optimization, and routine user level maintenance. Service level training is available to teach maintenance and troubleshooting skills to system operators or in house maintenance technicians



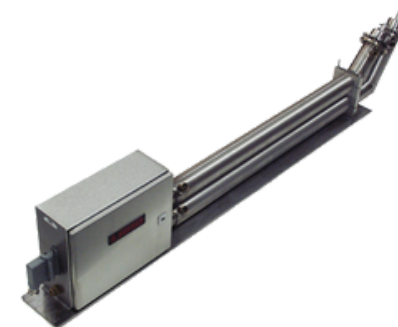
PRODUCT LIST

STEEL

(CONTINUED ON NEXT PAGE)

APPLICATION DEDICATED

Single spot non-contact thermometers designed for specific applications. Systems used: Stove Dome, Ladle Safety, Ladle Monitoring, Spray Chamber Probe, Furnace Temperature System, Understrip Temperature System, Roll Nip System, Galvanneal Strip Thermometer, Slag Detection System (outside of the US)



SPOT

Single spot non-contact pyrometers with multiple operating modes and outputs. M100 used at caster exit, crop shear and reheat furnace and R100 for heat treatment. In hot rolling mills, M100 used at rougher and finisher; M160 at pre coiler and coiler; and R100 at descaler, rougher and finisher.



SYSTEM 4

Single spot non-contact pyrometers with high accuracy and quick response. M05 model used for the blast furnace tap measurement; M1, R1, U1, V1 used for the caster exit, crop shear, rougher and finisher; M2 and M3 used at the coiler; M2 and U2 used at the continuous annealing line; and M1 Target Orbiter used at the Stelmor coiler.



CYCLOPS L

Handheld non-contact spot pyrometers with high accuracy. C100L used in coke oven battery flues; C055L used for the blast furnace iron stream; C390L used for the reheat furnace using dirty fuels.



LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 11 used at the caster exit; LSP-HD 10 used at the crop shear, rougher, and finisher; LSP-HD 21 used at the coiler, continuous annealing and hot dip galv line snout; LSP-HD 61 used at the top roll.



PRODUCT LIST

STEEL

(CONTINUED ON NEXT PAGE)

ARC IMAGER

Low temperature, rugged process thermal imager. Used for ladles, refractory wear and safety.



4500 MKIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216. Installed on the stack or on a duct leading to the stack.



NIR IMAGER

High temperature process imager providing high resolution images. Used at the caster exit and crop shear.



NIR-B

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used in natural gas fired reheat furnaces.



4200+

High speed linescanner providing detailed thermal images. LSP-HD 11 used at the caster exit; LSP-HD 10 used at the crop shear, rougher, and finisher; LSP-HD 21 used at the coiler, continuous annealing and hot dip galv line snout; LSP-HD 61 used at the top roll.



4650-PM

Continuous measurements of low-level particulate matter (PM) concentration in stacks and ducts where there are no condensed water droplets. Can be used as a PM-CEMS or PM-CPMS. (Available in the US and China only)



PRODUCT LIST

STEEL

LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for stack emission monitoring



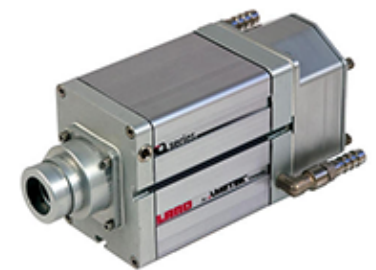
9100

Crosstack, in-situ carbonmonoxide monitor for direct continuous measurement to provide efficientcombustion control of any boilersystem.



IQ SERIES/SOLONET

Single spot thermometers with high accuracy and are cost efficient. IQ R and IQ 1 used at the caster exit, crop shear, rougherand finisher; IQ 2 used for continuous annealing lines.



ALUMINIUM

SPOT AL EQS

Single spot non-contact pyrometers with three measurement modes for extrusion, quench and strip. Used at extruder, quench and strip mills.



ARC IMAGER

Low temperature, rugged process thermal imager. Used in the cold rolling mill.



PRODUCT LIST

PLASTICS

LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 60 used for thermoforming; LSP-HD 61 used for extruders and PET Preforms; and LSP-HD 71 used for thin plastics.



GLASS

(CONTINUED ON NEXT PAGE)

APPLICATION DEDICATED

Single spot non-contact pyrometers designed for specific applications. Model FG for forehearths; FLT5A for floatline lehrs; Vapor Deposition Monitoring - VDT.

IQ SERIES/ SOLONET

Single spot thermometers with high accuracy and are cost efficient. IQ 5 used at the tin bath

SYSTEM 4

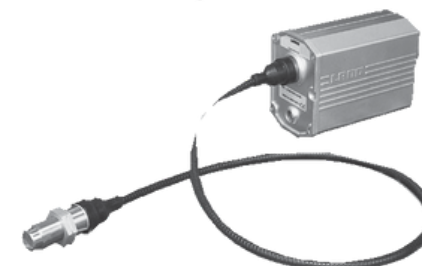
Single spot non-contact pyrometers with high accuracy and quick response. M1 used in the melt tank; M1 Fiberoptic used at the refiner, canal and gob; M5 and U5 used at the tin bath

CYCLOPS L

Handheld non-contact spot pyrometers with high accuracy. C100L used for the melt tank port arch and bridge wall.

LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 50 used on the lehr and for tempering operations



PRODUCT LIST

GLASS

4650-PM

Continuous measurements of low-level particulate matter (PM) concentration in stacks and ducts where there are no condensed water droplets. Can be used as a PM-CEMS or PM-CPMS. (Available in the US and China only)

NIR-B GLASS

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view.

Used in the melt tank

4200+

Accurate and stable opacity monitor for non-compliance applications. Used for stack gas emissions.

4500 MKIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216. Used for stack gas emissions.

LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for stack emission monitoring

WDG 1200-1210

Insitu oxygen probe for combustion optimization, featuring integrated control and display electronics. Mounted on the stack.



PRODUCT LIST

POWER GENERATION AND INDUSTRIAL BOILERS

(CONTINUED ON NEXT PAGE)

CDA INCINERATOR PYROMETER

Single spot non-contact pyrometers designed for measurement of the atmosphere temperature in waste incinerators

HOT SPOT IR

High speed linescanner which detects small hot inclusions on coal conveyors. Also available in ATEX version

FTI-EB

A process thermal imager used for coal fired boilers to check boiler tube and refractory deterioration and burner performance.

4200+

Accurate and stable opacity monitor for non-compliance applications. Used in ducts leading to the stack.

4500 MKIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216. Installed on the stack or on a duct leading to the stack

4650-PM

Continuous measurements of low-level particulate matter (PM) concentration in stacks and ducts where there are no condensed water droplets. Can be used as a PM-CEMS or PM-CPMS. (Available in the US and China only)

9100

Cross stack, in-situ carbon monoxide monitor for direct continuous measurement to provide efficient combustion control of any boiler system



PRODUCT LIST

POWER GENERATION AND INDUSTRIAL BOILERS

LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for stack emission monitoring

LANCOM 200

A portable sulphuric acid dewpoint temperature analyzer used to minimize acid corrosion in the stack or downstream of the air preheater in oil-fired boilers.

MILLWATCH/ SILOWATCH

Carbon monoxide monitors for early warning of possible fires in coal mills and storage silos.

WDG 1200-1210

Insitu oxygen probe for combustion optimization, featuring integrated control and display electronics. Mounted on the stack or downstream of particulate removal equipment.



FORGING / HEAT TREATMENT

(CONTINUED ON NEXT PAGE)

IQ SERIES/ SOLONET

Single spot thermometers with high accuracy and are cost efficient. IQ 1 used at the forging press

SPOT

Single spot non-contact pyrometers with multiple operating modes and outputs. Range of single and multiple wavelength models for use at reheat furnace, forging press, induction heating and flame hardening.



PRODUCT LIST

FORGING / HEAT TREATMENT

SYSTEM 4

Single spot non-contact pyrometers with high accuracy and quick response. M1 and R1 pyrometers used at the forging press; R1 and U1 used in the reheat furnace.

CYCLOPS L

Handheld non-contact spot pyrometers with high accuracy. C100L is used at the forging press and reheat furnace.

NIR-B

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used in natural gas fired reheat furnaces.

RT8A

Single spot non-contact pyrometers designed for use in roadstone and tarmac production for moving materials, webs or inaccessible objects.



MINERALS

(CONTINUED ON NEXT PAGE)

4200+

Accurate and stable opacity monitor for non-compliance applications. Used for stack gas emissions.

4500 MKIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216

ARC IMAGER

Low temperature, rugged process thermal imager. Used for critical vessel refractory monitoring.



PRODUCT LIST

MINERALS

LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for stack emission monitoring



MILLWATCH/ SILOWATCH

Carbon monoxide monitors for early warning of possible fires in mills and storage silos.



POLYSILICON

SYSTEM 4

Single spot non-contact pyrometers with high accuracy and quick response. The R1 Fiberoptic used for monitoring ingot growth. Available in ATEX versions.



NIR IMAGER

High temperature process imager providing high resolution images. Used for monitoring ingot growth.



PRODUCT LIST

INCINERATORS

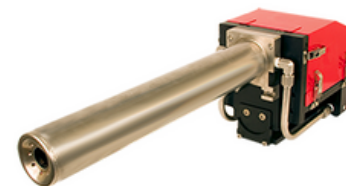
CDA

Single spot non-contact pyrometers, durable and long-lasting, used for furnace atmosphere measurements



FTI-EB

A process thermal imager used to see through combustion products inside the furnace atmosphere.



PETROCHEMICALS / HYDROGEN REFORMING

(CONTINUED ON NEXT PAGE)

NIR-B 3XR

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used for tube wall measurement in reformers. ATEX and IECEx approved.



FTI-EB

A process thermal imager used for tube measurement in heaters with dirty fuels.



LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for stack emission monitoring



CYCLOPS L

Handheld non-contact spot pyrometers with high accuracy. 390L used in heaters and reformers for tube measurement.



PRODUCT LIST

PETROCHEMICALS / HYDROGEN REFORMING

ARC IMAGER

Low temperature, rugged process thermal imager. Used for critical vessel refractory and constant flare stack flame monitoring. Available in ATEX versions.



PAPER/NON WOVENS

(CONTINUED ON NEXT PAGE)

HOT SPOT IR

High speed linescanner which detects small, hot objects; high speed alarms. Used for supercalender roll cover monitoring.



LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 60 used at the dryer exit and for supercalender roll cover monitoring



9100

Cross stack, in-situ carbon monoxide monitor for direct continuous measurement to provide efficient combustion control.



4500 MKIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216. Used for stack gas monitoring.



4650-PM

Continuous measurements of low-level particulate matter (PM) concentration in stacks and ducts where there are no condensed water droplets. Can be used as a PM-CEMS or PM-CPMS. (Available in the US and China only)



PRODUCT LIST

PAPER/NON WOVENS

LANCOM 4

Portable gas analyzer featuring up to 9 sensors for emissions measurement and combustion optimization. Used for gas stack emissions.

WDG 1200-1210

Insitu oxygen probe for combustion optimization, featuring integrated control and display electronics. Mounted on the stack or downstream of particulate control equipment.



CEMENT

(CONTINUED ON NEXT PAGE)

HOTSPOTIR

High speed linescanner which detects small hot clinker inclusions on conveyors.

4500 MKIII

The best opacity monitor for compliance measurements to PS-1 and ASTM D6216

SPOT

Single spot non-contact pyrometers with multiple operating modes and outputs. R100 used at burning zone.

LSP-HD

High speed linescanner providing detailed thermal images. LSP-HD 60 used for rotary kiln shell.



PRODUCT LIST

CEMENT

NIR-B

Short wavelength non-contact borescope thermal imager with high resolution images and through-the-wall design to provide a wide 90 degree view. Used in the kiln burning zone.

4650-PM

Continuous measurements of low-level particulate matter (PM) concentration in stacks and ducts where there are no condensed water droplets. Can be used as a PM-CEMS or PM-CPMS. (Available in the US and China only)

MILLWATCH/ SILOWATCH

Carbon monoxide monitors for early warning of possible fires in mills and storage silos.



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LAND / AMETEK®

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