Non-destructive testing

Equipment rental

Catalogue

Ashtead Technology Ltd Equipment rental, sales, calibration & repair www.ashtead-technology.com + 44 (0)1462 679 020 london@ashtead-technology.com



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Rental solutions for non-destructive testing.

We offer a comprehensive rental fleet of non-destructive testing equipment across Europe.

Covering a number of techniques for advanced and conventional NDT, the fleet includes equipment and accessories for phased array, ultrasonic flaw detection, corrosion mapping, eddy current flaw detection, hardness testing and thickness measurement.

Benefits of renting from Ashtead Technology.

- Eliminate initial investment cost required to purchase.
- No ongoing maintenance, calibration, servicing or storage costs.
- Access to the latest technology without significant investment.
- Expand your service offering before committing to equipment purchase.
- Trial new equipment or inspection techniques before committing to equipment costs.
- Quick replacements when your own equipment isn't available.
- Next working day delivery options with same day delivery and collections also an option.
- In house, UK based technical support team.

Equipment includes:







Advanced ultrasonics Pages 3-27

ACFM equipment Pages 28-29

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Eddy

current

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Ultrasonic flaw detectors Pages 42-49

Ultrasonic thickness gauges Pages 50-56



Hardness testing, coating, paint & ferrite inspection Pages 57-64

Positive material identification Pages 65-67



Thermal inspection Pages 68-69



Magnetic particle inspection Pages 70-77

www.ashtead-technology.com



Advanced ultrasonics

Advanced ultrasonic equipment, probes and accessories for a range of applications.



Olympus OmniScan SX:PA



Overview:

- Single ToFD or PA group
- 33% lighter and 50% smaller than MX2 model
- Compatible with a range of scanners and probes
- Up to 6 hours battery life

- Phased array inspection
- General component inspection
- Pressure vessel inspection
- Composite inspection
- Corrosion mapping inspection
- Single group inspection



Olympus OmniScan MX2:PA2 32:128





Overview:

- Multi-channel ToFD/UT & ToFD/PA up to 8 groups simultaneously
- Compatible with a range of scanners and probes
- Up to 7 hours battery life

Applications:

- Phased array inspection
- TOFD inspection
- General component inspection
- Pressure vessel inspection
- Composite inspection
- Corrosion mapping inspection
- Multi group inspection

Overview:

- Multi-channel ToFD/UT & ToFD/PA up to 8 groups simultaneously
- Compatible with a range of scanners and probes
- Up to 7 hours battery life

- Phased array inspection
- TOFD inspection
- General component inspection
- Pressure vessel inspection
- Composite inspection
- Corrosion mapping inspection
- Multi group inspection









- 4 UT connectors two ToFD or conventional Pulse-Echo or Pitchcatch channels
- Multi-group
- Multiple ToFD layout display

Applications:

TOFD inspection

Overview:

- 64:64 + 4 additional ToFD channels
- Conventional UT channels
- International code compliance: ASME, AWS, API, ASTM, ISO-EN
- Real-time and Adaptive TFM
- Linear, Matrix and Dual arrays
- 3D imaging

Applications:

- Corrosion mapping
- Crack detection in welded pipes & plates





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Sonatest VEO+



Overview:

- PA configuration: 32:128PR
- Delivers fast and accurate results
- Integrated help and Wizards guide the user through scan set up whilst Optimisation Tips ensure the Veo+ always performs at the highest level
- Remote data monitoring

Applications:

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- Weld inspection
- Corrosion mapping
- Composite mapping



Probe options

- Olympus Phased Array 2.25 MHz Probe I4 (64 Element)
- Olympus Phased Array 2MHz Probe DGS (8 Element)
- Olympus Phased Array 4MHz Probe DGS (16 Element)
- Olympus Phased Array 5MHz Probe (Near Wall, 64 Element)
- Olympus Phased Array 5MHz Probe A10 (16 Element)
- Olýmpus Phased Array 5MHz Probe A12 (64 Elements)
- Olympus Phased Array 5MHz Probe A12 (64 Elements)
- Sonatest X2B 5MHz PAUT probe (32 elements)

Wedge Packs

 Olympus Phased Array A12 Contour Wedge Pack Kit

Curved Wedge S-A12-N55S AOD4 Curved Wedge S-A12-N55S AOD4.5 Curved Wedge S-A12-N55S AOD5.563 Curved Wedge S-A12-N55S AOD6.625 Curved Wedge S-A12-N55S AOD8.625 Curved Wedge S-A12-N55S AOD10.75 Curved Wedge S-A12-N55S AOD12.75

 Olympus Phased Array Weld Inspection Kit Qty 2 A12 5L64 PA probes with 5m cable Qty 2 SA12 N55S Standard Wedge with Removable IHC Ring Qty 1 'Y' Splitter 64/64, for Omniscan MX2 Sm split conduit Irrigation Tubing as required Carry Case

Software

Olympus NDT Sub-OmniPC License Key

Water pumps

- Olympus manual water pump
- Olympus electric water pump

Mini wheel encoders

- Olympus mini wheel encoder (2.5m with D15 connector)
- Olympus mini wheel encoder (2.5m cable with LEMO connector)
- Olympus mini wheel encoder (5m with D15 connector)

Misc.

- Olympus 5682 preamplifier for ToFD
- Olympus Omniscan indexer clicker
- Olympus Omni MX2-Y splitter (64:128)

Olympus FlexoFORM





Overview:

- ToFD scanner
- Operates in any orientation on surfaces from 3" pipe up to flat plate
- Ideal for site use in areas with reduced access

Applications:

- Circumferential-pipe weld inspection
- Corrosion mapping in conjunction with HydroFORM phased array solution

Overview:

- Quickly measure the wall thickness of elbows
- 100% elbow coverage
- Intuitive 2D C-scan imaging
- Built in encoder for scan direction
- Same probe and scanner used to cover the entire range of diameters
- Magnetic wheels
- Constant water column

Applications:

Corrosion mapping on pipe elbows





Olympus Glider

Olympus HSMT-Flex





Overview:

Two axes with waterproof encoders for position encoded X-Y scans

Applications:

- Conventional ultrasonics
- Phased array inspection
- Eddy current
- ECA

Overview:

- Folding frame to optimise probe contact
- Supports up to 4 probes on pipes
- Supports up to 8 probes on flat surface

- ToFD inspection
- Phased array inspection







Olympus HydroFORM





Overview:

- Circumferential scans performed with two ToFD probes on pipes 4.5 in. (114.3 mm) OD
- Light aluminium frame

Applications:

ToFD inspection

Overview:

- Utilises an ingenious water-column concept that eliminates the need for a wedge
- Provides excellent near-surface resolution

- Phased array inspection
- Corrosion mapping





GE RotoArray





Overview:

- Can be used on pipes of different diameters without the need for multiple curved wedges
- Compatible with the A12 and A14 probes

Applications:

Corrosion mapping

Overview:

- Phased array ultrasonic inspection providing A, B & C-scan images
- Suitable for scanning composite and aluminium aerospace components

Applications:

- Phased array inspection
- Inspection of flaws
- Corrosion mapping





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Phoenix ISL Bracelet

Phoenix ISL Caliper





Overview:

- Scanner kit
- Weld size from 0.5" upwards
- Single or dual probe configuration
- Easy to attach hook and loop strap to secure the scanner to the weld
- Link system allows you to easily resize the scanner to suit different pipe systems

Applications:

- ToFD inspection
- Phased array inspection

Overview:

- Scanner kit
- Suited to sites with limited access
- For surfaces from 3" OD and greater
- Fully adjustable probe centre separation (PCS) from 28mm to 160mm

Applications:

ToFD inspection





Phoenix ISL MultiMag

Phoenix ISL Sp-Arc





Overview:

- Operates in any orientation from 3" OD
- Pivoting arms to optimize probe contact
- Can support up to 4 probes
- Wheel brackets tilt to assist with misaligned welds

Applications:

- Phased array inspection
- ToFD inspection
- Pulse-Echo scanner

Overview:

- Covers the important inspection area on the underside of pipes
- Up to 120° coverage in a single scan

Applications:

Corrosion mapping





Phoenix ISL Tracer





Overview:

- Versatile pivoting wheel option for B or D scans
- Can be used with Omniscan SX (e.g for 1 channel ToFD) or MX2 for multi-group inspections

Applications:

- ToFD inspection
- Phased array inspection

Overview:

- Freehand scanning without constraints
- Can be used with Omniscan SX or MX2
- Optional hydroform cradle

- Corrosion mapping
- Composite inspection





Creaform HandySCAN BLACK[™] 3D





Overview:

- Operates in any orientation on surfaces from 3" OD pipe up to flat plate
- Ideal for site use in areas with reduced access

Applications:

ToFD inspection

Overview:

- Accuracy of 0.025 mm
- Scan-To-Mesh in seconds
- Large scanning area
- Patented technology
- Certified ISO:17025

- Quality assurance
- Product development applications





Creaform HandySCAN 307 3D



Overview:

- Accuracy: up to 0.040 mm (0.0016 in)
- Measurement resolution: 0.100 mm (0.0039 in)
- Light source: 7 red laser crosses

Applications:

- Quality assurance
- Product development applications

Ashtead Technology

ACFM

Topside ACFM inspection systems to accurately and reliably identify and size fatigue cracks in components, welds, vessels and turbines.

STSC





TSC PACE ACFM system



Overview:

- Reliable, repeatable crack detection using ACFM®
- Accurate defect sizing, length and depth
- Inspection through coatings, no cleaning required
- No in-situ calibration required

Applications:

Surface crack detection





Tank inspection

Tank floor scanners, ultrasonic crawler systems and vacuum boxes to support with maintenance and inspection programs for tanks, vessels & pipelines.





Silverwing Floormap 3DiM



Silverwing Handscan



Overview:

- Tank floor scanner
- Automated corrosion mapping system for tank floor inspections
- Scanning speeds up to 0.5m/s: cover large areas without compromising inspection result
- Technology: Magnetic Flux Leakage (MFL) & Surface Topology Air-Gap Reluctance Sensor (STARS)

Applications:

Corrosion mapping of tank floors

Overview:

- Technology: Magnetic Flux Leakage (MFL)
- Increased POD: highly accurate MFL scanning head

Applications:

- Tank floor inspection
- Inaccessible areas and small tanks





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- Ultrasonic crawler & Swift UT
- Complete UT crawler system
- Full A-scan capture
- High resolution B-scan image
- Full recording of waveform up to 50m distance
- Simple profile, or full amplitude display

Applications:

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- Ultrasonic inspection on ferro-magnetic structures
- Storage tanks, vessels and offshore installations

Overview:

- LED dual vacuum box
- Hose to connect to vacuum pump (10m)
- Hose to connect to air compressor (10m)
- Battery and charger
- Weld Inspection Length: 750mm
- Vacuum rating: 20inch Hg
- Integrated LED: increases POD by illuminating the weld from multiple sources

Applications:

To connect to vacuum pump / air compressor





Silverwing V400D

Silverwing Electric Vacuum Pump VP110





Overview:

- Dual vacuum box
- Hose to connect to vacuum pump (10m)
- Hose to connect to air compressor (10m)
- Battery and charger
- Weld Inspection Length: 400mm
- Vacuum rating: 20 inHg
- Improved initial vacuum

Applications:

35

To connect to vacuum pump / air compressor

Overview:

110V electric vacuum pump

Applications:

To connect to vacuum boxes







Eddy current

Flaw detectors, scanners and probes available to support with surface, wheel and weld inspections, and conductivity and coating thickness measurements.

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Lyft

a'eddyfi

Eddyfi Lyft

Overview:

- Pulsed Eddy Current (PEC) Solution: Fast and cost-effective method for inspecting Corrosion Under Insulation (CUI)
- Scans through a number of materials: Thick Metal and Insulation, Aluminium, Stainless Steel and Galvanized Steel Weather Jackets
- Multiple probe / accessory options: Standard small, medium & large probes + Splash Zone Probe

Applications:

6.2

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Inspecting corrosion under insulation







- Light, rugged, portable, and sealed
- SmartMUX[™]: integrated, universal, and programmable ECA multiplexer for up to 256 channels
- Multi-technology for tube inspections: ECT, RFT, NFT, MFL, and array equivalents, and IRIS ultrasound technology
- Battery power and backup

Applications:

- Corrosion detection
- Crack detection
- Welds
- Turbines
- Castings

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Overview:

- Eddy current flaw detector
- Lightweight & compact, suitable for rope access applications
- Compatible with a range of probes

- Flaw detection
- Offshore
- Rope access





Olympus Nortec 600C



Overview:

- Interface with application selection pre-sets
- Long battery life (up to 10 hours) .
- Bright, 5.7 inch (14,5 cm) VGA display

plications:

- Surface inspection
- Wheel inspection
- Conductivity and coating thickness measurement
- Weld inspection



Ultrasonic flaw detectors

Ultrasonic flaw detectors to support with a range of applications including weld fabrication, corrosion detection, composite inspection, bond testing, forging, casting, and more.





Olympus Epoch 600



Overview:

- Eight digital filters for enhanced signal-to-noise ratio
- Up to 13 hours battery life

Applications:

- Welds
- Forgings
- Billets
- Axles
- Shafts
- Tanks
- Pressure vessels
- Turbines
- Structural components

GE USM 36



Overview:

- Large 7 inch screen, with an 800x480 resolution
- Signals easily viewed
- Uses the familiar rotary knobs

- Weld inspection
- Precise thickness measurement
- Corrosion measurement
- Inspection of forgings
- Inspection of special materials





GE USM GO

Sonatest Sitescan D20





Overview:

- 800 x 480 pixel display, which is better resolution than a standard DVD
- Small size, lightweight, robust, dust- and waterproof construction
- Backwall Echo Attenuator (BEA)
- Automatic gate threshold for the 2 gates
- Video recording up to 8 minutes allows live reporting

Applications:

- Weld inspection
- Forgings
- Castings
- Composite inspections

Overview:

- Weld fabrication
- Corrosion detection
- Forgings and castings
- UT inspection

- Weld fabrication
- Corrosion detection
- Forgings and castings
- UT inspection





Sonatest Sitescan D70





Overview:

- Advanced defect sizing tools as standard
- Advanced data management software
- Up to 18 hour battery life

Applications:

- Weld fabrication
- Corrosion detection
- Forgings and castings
- UT inspection

Overview:

- Configurable menu system
- High resolution TFT VGS colour display
- IP67 rating

- Weld fabrication
- Corrosion detection
- Forgings and castings
- UT inspection





Sonatest WAVE



Overview:

- Interactive scan plan
- WiFi capable
- WAVE companion software
- 0/45/60/70 degree angle probes
- 1500 PRF transmitter
- 0.2 20MHz bandwidth
- Up to 10 hour battery life

Applications:

- Weld fabrication & corrosion detection
- Composite inspection
- Bond testing

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- Forgings & castings
- Power generation







Ultrasonic thickness gauges to be used on various materials such as metals, plastics, composites, fibreglass, ceramics and glass to support a number of applications.



Olympus 38DL



Olympus 37DL



Overview:

- Thickness range: 0.08 mm to 635 mm
- Compatible with a full line of dual and single element transducers
- Thickness, velocity, and time-of-flight measurements

Applications:

- Thickness measurement
- Wall thinning measurement

Overview:

- Thickness range: 0.08 mm to 635 mm
- Compatible with a full line of dual and single element transducers
- Thickness, velocity, and time-of-flight measurements

- Thickness measurement
- Wall thinning measurement





Cygnus 1 ATEX



Overview:

- Intrinsically safe
- For use in a hazardous atmosphere Ex II 1 G EEx ia IIC T6
- Thickness range: 1 300mm

Applications:

- Chemical plants
- Petroleum or chemical storage tanks
- Oil and gas production facilities
- Dry, dusty environments
- LPG vessels and road transport tankers
- Grain processing plants and fuel depots
- Processing vessels
- Structures and facilities in mines

Cygnus 4



Overview:

- Deep-coat mode for coatings up to 20 mm thick
- Thickness range: 1 300mm
- Light, rugged, small and shock-proof

Applications:

Thickness testing in the harshest environments





Cygnus DIVE





Overview:

- Watertight and pressure tested to 300m depth
- Thickness range: 3mm to 250mm
- Remote probe for measuring awkward locations

Applications:

- Ships hulls
- Semi sub structures
- Subsea pipelines
- Offshore structures, jackets
- Storage vessels, FPSO
- Dock gates, piers, jetties and pipings

Overview:

- 300m depth rated
- Wrist-mountable, giving the diver a free hand
- A-Scan (selectable)
- Data logging; stores 5,000 measurements and A-Scans
- Auto-Log; no log button to press
- AMOLED display, easy viewing from all angles for diver and camera
- Multiple-Echo, error- checked measurements through coatings up to 20 mm thick

Applications:

Underwater thickness measurements







Hardness testing, coating, paint and ferrite inspection

Highly accurate hardness testers, thickness meters, rebar detectors and feritscopes with a wide measurement range to inspect a range of assets.



Proceq Equotip 550



Overview:

- Hardness tester
- Automatic conversions to all common hardness scales (HV, HB, HRC, HRB, HRA, HS, Rm) as required
- Highly accurate \pm 4 HL (0.5% at 800 HL) with automatic correction for impact directions
- Wide measurement range with a variety of impact devices and support rings

- Flanges
- Engine blocks, shafts and gears
- Cast objects, landing gears, rolls, coils
- Bars / pipes and heat treatment / castings



- Rebar detector
- Measurement of concrete cover depth and rebar diameter
- Offers optical as well as acoustic locating aids

Applications:

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- Locate rebars with the cover meter to avoid them when drilling holes
- Measuring concrete cover depth with the cover meter
- Quality assurance in mass production of prefabricated concrete elements

Proceq Profometer



Overview:

- Rebar detector
- Visual indication of rebars in close proximity
- Identifies the mid-point between rebars as well as the orientation of rebars

- Measurement of concrete cover
- Measurement of rebar diameter
- Checking for minimum cover
- Map out the rebar grid and cover for corrosion studies (with Canin+)
- Rebar grid examination for planned load changes on the structure







- Concrete hardness tester
- Automatic calculation of rebound value according to international standards
- Best in class correlation with least dispersion for specific concrete mixes
- Extremely durable with long service intervals when compared with classical hammer

Applications:

- Concrete
- Uniformity testing
- In-situ strength estimation
- Custom correlation to compressive strength

Fischer MP30



Overview:

- Feritscope
- Range: 0.1 to 100FN or 0.1 to 80% Fe in austenitic and duplex steel
- Simple measurement

- Measuring ferrite in duplex steel
- Measures ferrite parts found in chemical, utility and other processing plants that are often exposed to heat, aggressive media and high pressure







Phynix Surfix



Overview:

- Holiday detector
- Checks coating thicknesses of between 60
 microns to 26mm
- Quick, accurate and effective inspections of porosity, pinholes and other faults in a wide range of non-conductive coatings and linings

Applications:

- Petro-chemical
- Aerospace
- Pipeline construction
- Plastic fabrication

Overview:

- Paint thickness meter
- Thickness Gauge for varnish, paint & electroplated coatings
- Measuring range: up to 3500 µm /140 mils
- Up to 60 hours battery life

- Paintshops and for electroplaters
- Wet and powder coating operations
- Automobile/automobile parts industry
- Incoming material inspection
- Development engineering and expert assessment
- · Laboratory and field operations







Positive material identification

PMI / XRF analysers to support with accurate measurement and quick identification of elemental composition.



Niton XL2 980 GOLDD XRF Analyser



Overview:

- Modes for: General Metals, Precious Metals, Soil, Mining, Lead in Paint, AUTO CAT, Plastics and Electronics
- 45 kV miniaturized x-ray tube
- USB and Bluetooth™communications
- High-performance semiconductor detector

Applications:

- Precious metals analysis
- Positive material identification (PMI)
- Ore grade control
- Exploration
- Scrap metal sorting
- Mine mapping



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Niton XL3t GOLDD+ XRF Analyser



Overview:

- Modes for: General Metals, Precious Metals, Soil, Mining, Lead in Paint, AUTO CAT, Plastics and Electronics
- High count rate for lower detection limits and faster analysis
- Point and shoot simplicity

Applications:

- Precious metals analysis
- Positive material identification (PMI)
- Ore grade control
- Exploration
- Scrap metal sorting
- Mine mapping





Thermal inspection

Highly accurate and time effective thermal imaging to identify internal defects in composites and bridge deck deterioration inspections.





- High resolution thermal images
- Extraordinary thermal sensitivity: 0.06oC
- Eyepiece viewfinder and LCD screen to suit working conditions
- Large 14cm LCD screen
- Laser locator and visual target illuminator

Applications:

- Condition monitoring
- Veterinary thermal imaging
- Night vision

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- Process control
- Building inspection
- Electrical testing







Magnetic particle inspection

Magnetic particle inspection equipment to identify fatigue cracking, seams, laps, tears and more.







- Used for the detection of near surface defects in any ferro-magnetic material
- Articulated legs with 25 x 25 mm pole area
- Battery powered
- 240v mains charger

Applications:

- Detecting defects
- Inclusions, seams, tears, laps, welding slag, grinding cracks and quenching cracks

Overview:

- AC Magnetic Field
- Detachable Cable
- Rugged and reliable
- Super lightweight (approx 2.2 kgs)
- Dual length articulated legs
- Comfort grip handle
- Can be used as a 110v powered AC Electromagnet AND/OR as an AC Battery powered yoke
- 240v mains charger

Applications:

Magnetic particle inspection







Baugh & Weedon LumaFlux





Overview:

- UV & white light meter kit
- Excellent accuracy
- Dual sensor
- Interchangeable sensor allows the LumaCheck to operate continuously
- Lightweight and compact
- Battery operated
- Ergonomically designed with protective rubber boot

Applications:

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Magnetic particle inspection

Overview:

- Combined dual UV / white light meter and tangential Field Strength Meter
- Excellent accuracy and results in all measurement modes
- Lightweight, compact and housed in a rugged enclosure
- Battery powered

Applications:

Magnetic particle inspection





Labino UVG2 UV torch light



Overview:

- LED Operation, with long operating life
- Light weight and compact
- Switch between ultraviolet and white light
- Meets UV and white light inspection criteria for NDT applications
- Battery powered
- 240v mains charger

Applications:

75

- Magnetic particle inspections
- Dye penetrant inspections
- Fluorescent DPI/MPI inspection



Overview:

- Small, light and powerful for quick inspections
- Generates an intensity of approximately 25 000 μw/cm2, 10 000 μw/cm2 and 3 000 μw/cm2 respectively at 38 cm (15 inches)
- The battery life is 4.5 hours

- Quick NDT inspections
- Fluorescent DPI/MPI inspection







- Suitable as both a magnetising and demagnetising coil
- Practical 260mm internal aperture make the MC260 suitable for many general engineering applications

Applications:

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NDT processes requiring strong magnetic fields

FAQs

Below are some frequently asked questions for the ordering and delivery of equipment.

If you have any additional questions, please contact our team by phoning +44 (0)1462 679 020 or by emailing london@ashtead-technology.com

Do you offer a delivery service?

Yes! We offer timed services to most locations within the UK. We can also provide a same-day service if required.

Can you ship to Europe?

Yes! Just contact us with the delivery address and we can confirm the services available.

Do you offer a collection service?

Yes! Just contact us on the day the collection is required and we will arrange it.

Do you offer protection for damage or loss?

Yes! Our Damage Loss Waiver (DLW) program is available which reduces your liability in the event of damage or loss.

Can you provide technical / application support?

Yes! Our dedicated technical team can provide equipment support and application advice.

Where can I see all of your equipment?

Please visit www.ashtead-technology.com to browse the non-destructive testing, remote visual inspection and subsea equipment range.

Or visit www.enviro.ashtead-technology.com to browse the environmental, health & safety equipment range.

What are the payment options?

You can pay using credit/debit card or by setting up a credit account (NB it can take up to 3 working days to set up a credit account).

How quickly can I get equipment?

Usually next day, but it depends on availability. Please contact us for any urgent enquiries by calling +44 (0)1462 679 020 or by emailing london@ashtead-technology.com



www.ashtead-technology.com