

# NDTS NEWS LETTER

Third quarter was full of holidays including Deepawali, Christmas, and New Year etc. As the New Year begins NDTs would like to wish its customers, principals and employees a very successful and prosperous Happy New Year 2007!



For more information on [i Series Videoscope](#), Kindly write to us.

## Solutions for Remote Visual Inspection (RVI)

**Videoscope at GREAT PRICE!!**



The i Series Videoscope from IT Concepts, USA is:

- ☛ **Portable** - The iTool Video Imaging Hub weighs just 2.5 kg and can be powered by an AC power supply or a handy battery pack.
- ☛ **Practical** - A single cord connects i Series Videoscope with the iTool Video Imaging Hub. The Videoscope are interchangeable; any i Series Videoscope can be used with the iTool Video Imaging Hub.
- ☛ **Robust** - The i Series Videoscope hand piece chassis is made of metal and insertion tubes are sheathed with hard wearing tungsten braid.
- ☛ **Advanced and Easy-to-Use** - The latest in CCD (Charge-coupled device) solid-state camera and Metal-Halide lamp technology provide bright high resolution images on an integrated large LCD (Liquid-crystal display) monitor. A Compact Flash digital image storage card and a USB port make image and audio recording, saving and transfer simple.

## Solutions for Coating Thickness

**QuaNix series of coating thickness gauges for every application!**

The QuaNix series of coating thickness gauges are of high quality and reliability, robust gauges, easy-to-use, no calibration and - last but not least - products "Made in Germany".

### QuaNix 8500

- ☛ Elegant modern design for One-Hand-Operation
- ☛ Modular system with exchangeable digital probes
- ☛ Clear graphic display with high resolution
- ☛ State of the art keypad with illuminated keys
- ☛ Easy to use menu



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- ☛ Durable chassis for on-site operation's
- ☛ Backlit display
- ☛ Flip option by 180 degrees
- ☛ Two color LED display to read measurement process, data transfer and monitoring of limits

## QuaNix 4200/4500



The QuaNix 4200 and QuaNix 4500 have been designed to meet the requirements of automotive and other painting applications. The QuaNix 4500 measures over all metals by just switching the mode from ferrous to non-ferrous or reverse. For those of you who only measure over steel or iron QuaNix 4200 is good enough.

## QuaNix 1200/1500



The QuaNix 1500 comprises four gauges for the price usually paid for one and even less than that.

Due to the integration of two probes Fe and NFe in the QuaNix 1500 all non-magnetic coatings on steel and iron as well as all non-conductive coatings on non-ferrous metals such as Aluminum, Copper, Zinc or Brass can be measured – no exchange of cables and no lengthy calibration is necessary to change from a ferrous substrate to a non-ferrous substrate. Simply turn the gauge over and use the well marked and appropriate measurement probe.

For more information on QuaNix series of coating thickness gauges, kindly write to us.

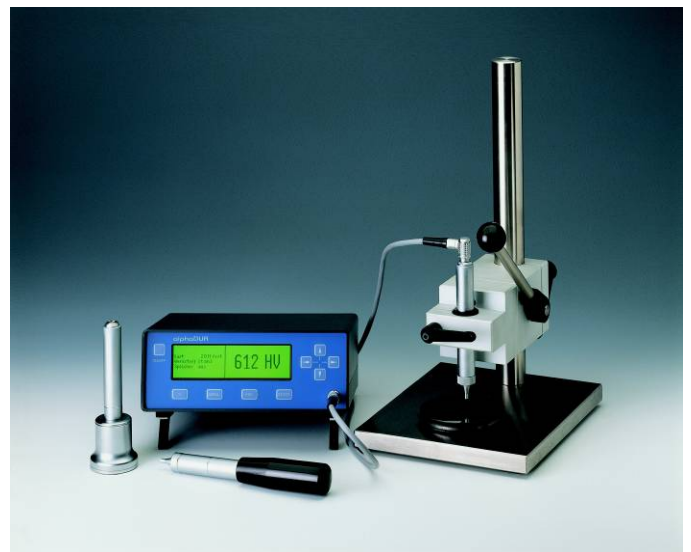
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## Solutions for Portable Hardness Testing

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### alphaDUR: Ultrasonic hardness testing with the UCI-method

The ultrasonic hardness testing method developed by Kleesattel allowed the determination of the hardness by measuring the increase in resonance frequency of a mechanical resonator, brought into contact with the test specimen. "UCI method" (Ultrasonic Contact Impedance) is the denomination of this procedure. The UCI method is mainly suitable for the small load, and macro hardness tests.



### Salient Features of alphaDUR:

- ☛ The handy and mobile hardness tester **alphaDUR** provides precise and reliable hardness testing of all materials that would normally be tested according to traditional hardness testing procedures such as Vickers or Rockwell.
- ☛ The **alphaDUR** is easy to use by means of the menu driven operation and the large backlit graphic display. The electronic evaluation of the measurement immediately provides the hardness value in HV, HB or HRC. The quality of the testing is guaranteed by 500 measurements per second.
- ☛ Therefore the **alphaDUR** is ideal not only for the mobile use but also for the hardness testing in production and vendor inspection. The **alphaDUR** can be adjusted to a wide range of materials without problems and can store up to 20 calibrations, complete with material identification. Measured data can be

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permanently stored with date, time, material and evaluation GOOD/BAD. For further evaluations, a variety of statistical functions are available.

- ☞ The test load can be adjusted to the range of application. It is not necessary to change the calibration. The small probes allow you to test in areas, which are difficult to reach or lie on curved surfaces, in every possible direction without the need of a correction factor.

For more information on **alphaDUR**, kindly write to us.

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## Solutions for Ultrasonic Phased Array

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M2M, France develops and produces a new line of NDT instruments based on phased-array technology. Directly benefiting from the evolution of well-know simulation software, CIVA, as well as the latest breakthroughs in electronics, M2M products provide cutting-edge technology, unsurpassed performance and quality.

### Phased-array systems

**Multi.X product line -Fully parallel architecture:** The Multi.X differs from other Phased Array systems in its unique and **fully parallel** hardware architecture. The Multi.X is designed to drive both linear and matrix probes allowing sophisticated inspections without any compromise in speed.



#### Hardware benefits

- ☞ Fully parallel architecture for driving linear and matrix array probes.
- ☞ Modular architecture allows customization based on 8 channels per board
- ☞ Real-time hardware processing using programmable processors
- ☞ Ultra-fast scanning and signal reconstruction

**Multi2000 product line -Multiplexed architecture:** Based on multiplexed hardware architecture, Multi2000 gives access to all Phased Array capabilities.

#### Hardware Benefits

- ☞ Multiplexed architecture to drive phased-array probes using a reduced number of channels
- ☞ Modular architecture allows customization based on 8x32 multiplexer cards
- ☞ Real-time hardware processing using programmable processors

**Multi2000 pocket product line -Multiplexed architecture:** Co-developed with EADS CCR, the Multi2000 Pocket is a new 8/32 multiplexed portable system. Its dimensions and its dedicated user interface makes the Pocket a field oriented tool for various inspections.



#### Direct Benefits

- ☞ Ultra compact and modular design for simplified handling.
- ☞ Ultra light weight for on-site testing.
- ☞ Dedicated and application oriented Graphic User Interfaces.
- ☞ USB2 connection for power supply and PC link.

For more information on **ultrasonic phased array**, kindly write to us.

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## Inspection Services

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As shared, in our last NEWS Letter that we now offer inspection services also. Presently, we are offering inspection services in following disciplines:

- ☞ Boroscopy/Remote Visual Inspection (RVI) Services
- ☞ Ultrasonic Flaw Detection & Thickness Gauging
- ☞ Magnetic Particle & Liquid Penetrant Inspection

The objective of **NDTS** is to provide quality, prompt, efficient inspection series and to add value for our customers and employees.

### Boroscopy/Remote Visual Inspection (RVI) Services

Remote Visual Inspection (RVI) is used to visually inspect plant components for surface defects, general condition, degradation, blockages, and foreign material.

It can be used as a stand-alone inspection or as a complement to other Nondestructive Evaluation (NDE) techniques, such as eddy current, ultrasonic, or X-ray, in order to qualify unclear signals or pinpoint where a more thorough inspection is needed.

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In Industry, Time is money! Our experienced RVI Specialists will bring the latest technology to your site and perform RVI examinations of your applications. We offer a turnkey inspection solutions, whether it is inspecting high energy piping, performing a loose part retrieval or diagnosing an operational problem, we'll bring the right equipment to visually inspect (or retrieve) it, record it, and report it back to you. If you have an emergency, or just don't have the personnel or equipment for an upcoming job, give our 24X7 RVI on-site services a call.



## Applications

- ☞ Electrical generators, transformers and bus ducts
- ☞ Gas, steam and wind turbines and electrical generators
- ☞ High energy steam piping and components
- ☞ Boiler water piping and components
- ☞ Nuclear reactor heads, reactor coolant pumps, demineralizers, containment structure (IWE/IWL), and other components
- ☞ Hangers, snubbers, and other structural components
- ☞ Piping systems such as service water, fire protection, oil, coal handling, steam, boiler, feedwater, and other piping
- ☞ Condenser, feedwater heaters, steam generators, and other heat exchangers
- ☞ Foreign material search and retrieval

## Ultrasonic Flaw Detection & Thickness Gauging



We use the best equipment and skilled manpower to offer these services. If required, we use equipments & accessories as per customers testing or code requirements.

## Magnetic Particle & Liquid Penetrant Inspection



We use the best equipment and accessories to offer these services. If required, we use equipments & accessories as per customers testing or code requirements.

We are certain that you would like to call us again! For more information on inspection services, kindly write to us.

## Company News

NDTS displayed the latest i Series Videoscope from IT Concepts, USA at the Pharma Show held in NSE Complex, Goregaon.



NDTS displayed a gamut of NDT Equipments & latest Inspection technologies at NDE 2006 - an annual National seminar organized by the Indian Society for Non Destructive Testing (ISNT). Last year it was organized at Hyderabad. The Seminar was also supported by an Industrial exhibition.



For suggestions, please write to us:

Editor, [NDTS News](#)



## NDT Solutions

612, The Great Eastern Galleria,  
Plot No. 20, Sector 4, Nerul, New Bombay - 400 706, India  
Tel.: +91-22-2770 3913/23, Fax: +91-22-2770 3903  
E-mail: [info@ndts.co.in](mailto:info@ndts.co.in), Visit us at: [www.ndts.co.in](http://www.ndts.co.in)