

Don't Get Caught in the Economic Crisis

Economical Possibilities

It is no secret that there is a current economic downturn. However, RTI wants to help you avoid becoming a part of the crisis; and therefore, in this issue of EDGE, we have highlighted a number of articles that will advise you on the short-term and long-term economic benefits RTI can bring to you.

Piranha Means Economical Choices

Piranha is Upgradeable

Economical Possibilities

You may need to measure only kV, time and want to know Total Filtration and HVL on a dental unit. Or perhaps, you will need these values and dose, dose rate, and waveforms for Rad, Fluoro, Mammo and CT too. Either way, the Piranha from RTI is the solution.

You may not know that there are over 45 different Piranha models. From the inexpensive Dental Model 200 to the more complete Piranha Models 557 or 657, there is a model that matches your specific needs.

Most Piranhas are upgradeable, allowing the user to add applications and accessories after the initial purchase. This allows the meter to grow as

your needs grow. In this time of economic uncertainty, this could be the option you have been looking for. Purchase what you need now and simply add more capabilities to your meter later.

Talk to an RTI representative and see which model will work for you today - and tomorrow.



The RTI Piranha – the “Best Choice” Don't Just Take Our Word for It!

“With the RTI Piranha and non-invasive mAs probe, I can view a full range of radiation test information within 3 minutes of entering an X-Ray room. This, coupled with the cost savings of the bi-annual calibration, ease of use, and extensive radiation reports, made it the best choice for my facility's needs.”

– Art Messick, Clinical Engineer



Art Messick, pictured with Northeast RTI Electronics, Inc. representative Ethan Dunn, Northern New Jersey Facility.

In this Issue

Documentation about use of CT Solid State Detectors

RTI Electronics has just published a new brochure for users of both the CT-SD 16 and CT Dose Profiler, the solid state detectors from RTI used for measuring CTDI. This 24-page booklet contains helpful information regarding the practical use of the RTI CT Slice Probes.

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The Complete X-ray QA Tool from RTI, Piranha Premium

During the last year the Piranha Premium System has become an increasingly popular choice for both engineers and physicists as an X-ray QA tool.

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Calendar 2009

- AAPM**
Anaheim, USA, July 26-30
- FIME**
Miami, USA, August 12-14
- RÖNTGENVECKAN**
Jönköping, Sweden, September 1-4
- WORLD CONGRESS**
Munich, Germany, September 7-12
- COMP**
Victoria, Canada, September 9
- CARO**
Quebec City, Canada, September 9
- MD EXPO**
Nashville, USA, September 24-27
- MEDICA**
Dusseldorf, Germany, November 18-21
- RSNA**
Chicago, USA, November 30-December 4

EDGE Newsletter is published three times per year by RTI Electronics. If you would like more information or have questions on any of the products featured in this issue, feel free to contact us at our head office in Sweden, Monday thru Friday 8:00 a.m. to 4:00 p.m. EST. E-mail to: sales@rti.se. Call us at: +46 (0) 31 746 36 00

Special Price for the new CT Dose Profiler

With the introduction of the new CT Dose Profiler, RTI announces a special pricing program for current owners of the RTI CT-SD 16 Slice Probe. With this offer, RTI is making it easier for those measuring CT Dose and CTDI to stay "cutting edge" with their RTI QA test equipment. The new CT Dose Profiler can be purchased at a reduced price with the trade-in of their existing CT-SD 16. This offer is valid for CT-SD 16 probes used with either Barracudas or Piranhas.

Please note that RTI Electronics will continue to support the CT-SD 16 via its service personnel and the official RTI CT Dose Profile Analyzer Software. Please contact your local distributor or RTI AB for details about this offer or to get price information on the new CT Dose Profiler.



ALK's new location only 10 minutes away from the old one.

ALK, RTI's Distributor in Larger Facilities

RTI Electronics distributor in China, ALK, is moving to new and larger facilities. ALK have been in the same location for 10 years and the new facilities, only 10 minutes away (with car) from the current location, will provide sufficient space for existing 15 employees and future expected employment.



Today ALK have 15 employees and are planning to employ 2-3 in the near future.

Innovative X-ray QA Solutions ... of course!

CT Dose Profiler Shipped

RTI started delivering the long-awaited CT Dose Profiler detector in June, 2009. The solid-state CT Dose Profiler for use exclusively with both the RTI Electronics Barracuda and Piranha multi-meters, represents the second generation of RTI innovation in CT Quality Assurance.

The RTI CT Dose Profiler, used for evaluation of CT systems, can measure or evaluate several important parameters such as: CT dose profile, CTDI100, CTDIw,

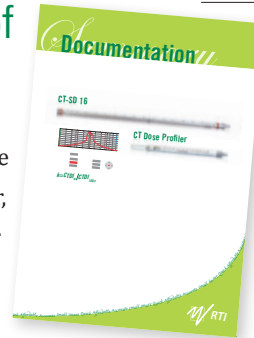
CTDIvol, DLP, FWHM, Geometric Efficiency, Point Dose, and Tube Current Variations.

The CT Dose Profiler, based on solid-state technology, can be used with all Piranha models with electrometer input or Barracudas with the appropriate electrometer. The CT Profiler comes with required connector cable and operating software. The CT Profiler also fits into existing standard phantoms used for CTDI measurements.

Helpful Information about use of CT Solid State Detectors

RTI Electronics has just published a new brochure for users of both the CT-SD 16 and CT Dose Profiler, the solid state detectors from RTI used for measuring CTDI. This 24-page booklet contains helpful information regarding the practical use of the RTI CT Slice Probes. Topics include:

Common User Questions, Solid State CT Detector – Measurement Verification, Measurements on Wide



Beam CT Systems, Energy Dependence of the CT Dose Profiler.

This booklet will automatically be sent with the purchase of the new CT Dose Profiler. Users of the CT-SD 16 will be provided a copy upon request. The brochure is also

available in electronic format.

Contact: sales@rtie.se for your copy.

New RTI Electronics Website to be Launched August 3

Early August 2009 will see the introduction of the new RTI Electronics website.

– The new site will have a fresh look that will be easier to navigate, commented Marie Wendin, website designer.

She continues:

– The new page will also continue to emphasize RTI's unique values, brand, and showcase its innovations. The website will provide a convenient place for RTI customers to receive updated news on products.

There will also be easier access to sales support and marketing materials, along with



New RTI Electronic website will be launched August 3, 2009.

other features – including links to its network of worldwide distributors.

Official Launch Date is set for August 3, 2009. Check out www.rti.se or www.rtielectronics.com to see what's new.

Economical Possibilities

Something New for Something Old a Success!

It is no secret that the economy is tough. One of the ways that RTI is responding to the needs of its customers is by extending the deadline for the "Something New for Something Old" program until September 30, 2009.

The program rules are very simple. RTI will accept your existing PMX III meter for trade-in towards the purchase of a new Piranha or Barracuda. It is just that simple.

So if you are looking to step up to the "latest and greatest" in QA test equipment, or you just need an additional multi-meter for your department or staff, give us a call and see what we can do for you.

Piranha Premium System

The Complete X-ray QA Tool from RTI



Economical Possibilities

During the last year the Piranha Premium System has become an increasingly popular choice for both engineers and physicists as an X-ray QA tool.

Introduced just over a year ago by RTI Electronics, Inc., the Piranha Premium System provides a truly complete and affordable QA tool, providing all the required probes to measure kVp, time, dose, dose rate, dose/pulse, HVL, mA, mAs, CTDI, luminance, illuminance, and scattered and leakage radiation. The Piranha Premium System also has an optional mA package. The user can select either an invasive mA or non-invasive mA probe. With the built-in Bluetooth capability in the Piranha, the Piranha Premium System can come with the PDA graphical display, PC software or both.

Built around the compact, all-in-one, multi-function meter Piranha Model 657, the Piranha Premium System includes measurement capabilities for Rad, Fluoro, Mammo, Dental, and CT. All of the probes provided, support the Piranha ADI (Automatic Detector Identification) system. This means that the Piranha automatically recognizes which detector/probe is connected and what values are to be measured.

All inclusive

The Piranha Dose Probe is specially designed for low dose rate measurements with the Piranha. The detector is small to minimize interference with the X-ray system's AEC. Protected by a metal housing, it is durable. Based on solid-state technology, there is no need for temperature or pressure corrections or bias voltage connection.

The Dose Probe also provides a source for Scatter and Leakage measurements. Because of its sensitivity, the Probe can measure a dose rate as low as 0.4 mR/h.

The Piranha Light Probe connects directly to the Piranha meter and is designed to comply

with the needs for QA in the X-ray department. With a monitor and a lux adapter, the Piranha Light Detector measures the brightness on monitors and film viewing boxes, and the ambient light in the room.

The CT Dose Profiler is the second generation in solid state technology for CT QA by RTI. The CT Dose Profiler is used for evaluation of CT systems. Several important parameters can be measured such as CT Dose Profile, $CTDI_{100}$, $CTDI_w$, $CTDI_{vol}$, DLP, FWHM, Geometric Efficiency, Point Dose, and Tube Current variations. Ideal for wide beam CTs, the CT Dose Profiler can be positioned in either 130 or 150 mm phantoms, and comes with its own software.

Optional mA

An optional RTI invasive MAS-1 or non-invasive MAS-2 probe can be added to the Piranha Premium System. With the choice of either probe, it is possible to measure kVp, time, dose, dose rate, HVL, Total Filtration, mA and mAs in one exposure.

The Piranha MAS-1 Probe is an invasive probe for the measurement of mA (tube current) and mAs. The probe simply connects to the mAs socket of the X-ray generator. Together with the Piranha, direct readings of mA and mAs, as well as waveforms are obtained. The Piranha MAS-1 Probe range is 0.1 mA to 3000 mA.

The Piranha MAS-2 Probe is a current clamp probe for non-invasive measurement of mA (tube current) and mAs. The probe is simply clamped on to the high voltage cable and is ready for measurements. Together with the Piranha, direct readings of mA and mAs, as well as waveforms are obtained. Range is 10-4000 mA.

Seeing the Results

RTI pioneered the use of remote display with Bluetooth technology and the introduction of the Barracuda multi-meter over 7 years

ago. This capability continues with built-in Bluetooth in the Piranha, providing results that can be easily displayed wirelessly on either a PDA or a laptop (this includes kV, dose and mA waveforms). Purchasers of the RTI Piranha Premium System can choose either the PDA with QA Browser Software and/or the oRTigo database laptop software. All systems come with the laptop Real Time Display QC software which displays data in Microsoft Excel.

QA Browser Software provides a very intuitive answer to quick and even storable measurements. Using the Palm OS, the menus are simple to navigate. A large display allows for remote use, saves time, and provides up to 6 parameters, including waveforms. Digital data are easily stored for later export to Excel spreadsheets.

oRTigo Software provides a large selection of pre-designed measurement templates. These include applications for kV accuracy, linearity, reproducibility, HVL, etc. User defined templates are available as well. Acceptance limits are user defined and can be specified individually for each template or globally. Waveforms can be acquired and stored for all or selected exposures. oRTigo generates customizable reports from its database or integrates data dynamically with Microsoft Excel.

Making the Choice

There are 9 different RTI Piranha Premium Systems available. Each comes with a special package price, making it surprisingly affordable. Add to that RTI's 2-year calibration cycle, RTI's reputation for durability and accuracy, and all the system capabilities, and you have the "complete X-ray QA system". Call RTI Electronics, Inc. for a demonstration and quotation today.

See us at the

2009 AAPM

Anaheim Convention Center
Anaheim, CA

July 26-29, 2009

Hall C
Booth 509

For X-ray QA and Service



Innovative X-ray QA Solutions ...of Course!