The RTI Cobia family



Convenient and wireless QA

Cobia is our easy-to-use product platform, tailored for different modalities and situations.

All Cobias offer quick and efficient measurements and have Ocean Next™ connection.



The Cobia family

Cobia DENTAL

The first choice for fast and easy Intraoral and CBCT system testing, service, and maintenance.

For measurements of TF, kV, dose, dose rate, time, and HVL on dental intraoral X-ray tubes as well as CBCT. Especially suitable for acceptance/constancy tests and routine inspections

The Cobia DENTAL can be connected to all RTI probes available, such as DAP Chambers, dose probes, CT probes, mAs probes, and light probes.

Cobia SMART R/F

A simple-to-use meter for checking that the output from an X-ray tube is correct.

For measurements of kV, dose, dose rate, time, TF, and HVL on conventional radiography and fluoroscopy. It can be used on dental intraoral X-ray tubes and CBCT as well.

Cobia FLEX R/F

Amazingly easy to use and ideal for straightforward routine inspections.

For measurements of kV, dose, dose rate, time, HVL, and TF on conventional radiography and fluoroscopy as well as dental intraoral X-ray tubes and CBCT.

Especially suitable for acceptance/constancy tests and routine inspections.

The Cobia FLEX R/F can be connected to all RTI probes available, such as dose probes, CT probes, mAs probes, and light probes.

Cobia SENSE

A convenient way to make the regular constancy checks of your X-ray equipment as quick and as accurate as possible.

Cobia SENSE is dedicated for use with an external detector such as the RTI Dose Probe, CT Dose Profiler, RTI Light Probe, RTI CT Ion Chamber, or external mAs probes. The wide selection of external probes enables a big flexibility in the performance of regular constancy checks for most modalities.

Cobia DENTAL

Cobia SMART R/F



All RTI Cobias have:

- Display screen
- Connection to our Ocean Next™ software
- Bluetooth and USB connection
 - Open Communication Protocol (OCP)





Cobia FLEX R/F



Cobia SENSE

Cobia DENTAL

A simple-to-use meter for routine inspection of intraoral and CBCT X-ray equipment in dental clinics. Especially suitable for acceptance tests, constancy tests, and routine quality control.

Since the Cobia is so easy to position and requires no settings, anyone who works in the dental clinic can quickly and easily perform the routine inspection of the intraoral X-ray equipment. To determine patient safety – every day.

It has an internal detector and a detector input that offer the ability to connect different probes (such as the DAP Chambers, dose probes, CT probes, mAs probes, and light probes). The measured values can be read directly from the large and clear display, and stored in the meter to read later.

Our Cobia DENTAL solution is the first choice for fast and easy Intraoral and CBCT system testing, service, and maintenance.



Different languages

As well as English, you can choose to run your meter in several languages such as Chinese, French, German, Japanese, Norwegian, Russian, Spanish, Swedish, and Turkish. We constantly update with more languages.





Rotatable color display

A very clear and rotatable color display, so you can read off measurement results fast and easily - even from a distance. The innovative and smart display even shows the results right way up in measurement situations where the meter needs to be positioned upside down.

Specifications

Cobia DENTAL				
Weight Approx	290 g		Range	Inaccuracy
Size	138 x 76 x 27 mm ³	Tube voltage	45 – 125 kVp	±2 %
Power source	Int. battery / ext. power supply	Time	0 ms – 9999 s	±1 % or ±0.33 ms
Battery life	10 – 20 hours		3 – 9999 pulses	
Display	Color, 320 x 240 pixel	Min. exp. time	0.1 ms	
		Sensitivity	0.2 mA @ 50 kV, 50 cm (3	
		Dose	70 nGy–1700 Gy	±5 %
			8 μR – 200 kR	±5 %
		Dose rate	2.5 μGy/s – 175 mGy/s	±5 % or ±200 nGy/s
			0.3 mR/s – 20 R/s	±5 % or ±2 μR/s
			17 mR/min-1200 R/min	±5 % or ±0.1 mR/mir
			1 R/h – 70 kR/h	±5 % or ±70 mR/h
		HVL	1.2 – 14 mm Al	±10 % or ±0.2 mm
		Total Filtration	1.0 – 90 mm Al	±10 % or ±0.3 mm A
		Pulse frequency	1/6 – 260 Hz	±1 % or ±0.2 Hz
		Dose/Pulse	10 nGy/p – 1 Gy/p	±5 %

Cobia SMART R/F

The Cobia SMART R/F is a simple-to-use meter for checking that the output from an X-ray tube is correct.

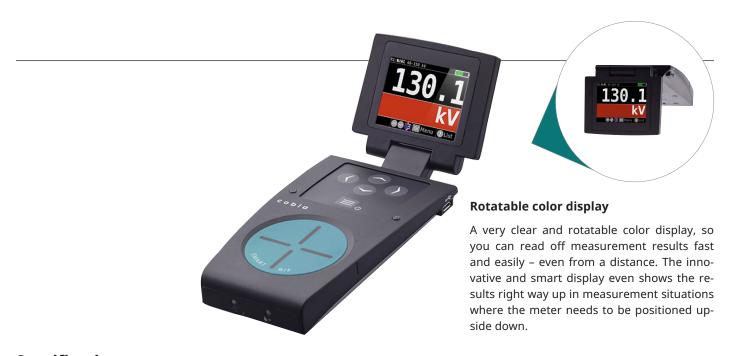
Place it beneath the X-ray tube, take an X-ray exposure, and instantly get an accurate reading. The measured values can be read directly from the large and clear display, and stored in the meter to read later.

Check and Go

Cobia SMART R/F is perfect for anyone wanting to ensure that an X-ray device is functioning as it should. For example, it is ideal for checking fast and often that the kV and/or dose are not changing over time.

Different languages

As well as English, you can choose to run your meter in several languages such as Chinese, French, German, Japanese, Norwegian, Russian, Spanish, Swedish, and Turkish. We constantly update with more languages.



Specifications

Cobia SMART R/F	
Weight Approx	290 g
Size	138 x 76 x 27 mm ³
Power source	Int. battery / ext. power
Battery life	10 – 20 hours
Display	Color, 320 x 240 pixel

	Range	Inaccuracy
Tube voltage	35 – 155 kVp	±2 %
Time	0 ms – 9999 s	±1 % or ±0.33 ms
	3 – 9999 pulses	
Min. exp. time	0.1 ms	
Sensitivity	0.2 mA @ 50 kV, 50 cm	
Dose	70 nGy–1700 Gy	±5 %
	8 μR – 200 kR	±5 %
Dose rate	2.5 μGy/s – 175 mGy/s	±5 % or ±200 nGy/s
	0.3 mR/s – 20 R/s	±5 % or ±2 μR/s
	17 mR/min–1200 R/min	±5 % or ±0.1 mR/min
	1 R/h – 70 kR/h	±5 % or ±70 mR/h
HVL	1.2 – 14 mm Al	±10 % or ±0.2 mm
Total Filtration	1.0 – 90 mm Al	±10 % or ±0.3 mm Al
Pulse frequency	1/6 – 260 Hz	±1 % or ±0.2 Hz
Dose/Pulse	10 nGy/p – 600 mGy/p	±5 %
	1.1 μR/p – 66 R/p	±5 %

Cobia FLEX R/F

The Cobia FLEX R/F offers you the convenience to make your X-ray Quality Control as quick and accurate as possible. It is just as easy as the Cobia SMART R/F but with even more possibilities.

It has an internal detector, a detector input that offers the ability to connect different probes and ion chambers, and an optional built-in mAs. The measured values can be read directly from the large and clear display, and stored in the meter to read later.

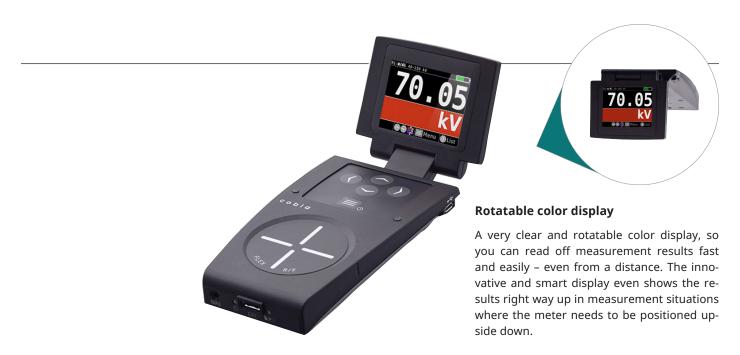
Built to suit your needs

Cobia FLEX R/F - for measurements of kV, dose, dose rate, time, HVL, and TF on conventional radiography and fluoroscopy. It can be used on dental intraoral X-ray tubes and CBCT as well. Our selection of external probes gives you several opportunities to make the Cobia Flex suit your specific needs – just plug in, and the Flex will adapt automatically.

Different languages

As well as English, you can choose to run your meter in several languages such as Chinese, French, German, Japanese, Norwegian, Russian, Spanish, Swedish, and Turkish. We constantly update with more languages.

Cobia FLEX R/F Art. No:	9762003-00
Cohia FLEX R/E w mAs Art No:	9762004-00



Specifications

Cobia FLEX R/F	
Weight Approx	290 g
Size	138 x 76 x 27 mm³
Power source	Int. battery / ext. power supply
Battery life	10 – 20 hours
Display	Color, 320 x 240 pixel

Measuring paramet	ers	
	Range	Inaccuracy
Tube voltage	35 – 155 kVp	±2 %
Time	0 ms – 9999 s	±1 % or ±0.33 ms
	3 – 9999 pulses	
Min. exp. time	0.1 ms	
Sensitivity	0.2 mA @ 50 kV, 50 cm (3	
Dose	70 nGy-1700 Gy	±5 %
	8 μR – 200 kR	±5 %
Dose rate	2.5 μGy/s – 175 mGy/s	±5 % or ±25 nGy/s
	0.3 mR/s – 20 R/s	±5 % or ±2.5 μR/s
	17 mR/min-1200 R/min	±5 % or ±0.15 mR/min
	1 R/h – 70 kR/h	±5 % or ±0.9 mR/h
HVL	1.2 – 14 mm Al	±10 % or ±0.2 mm
Total Filtration	1.0 – 90 mm Al	±10 % or ±0.3 mm Al
Pulse frequency	1/6 – 260 Hz	±1 % or ±0.2 Hz
Dose/Pulse	10 nGy/p – 1 Gy/p	±5 %
	1.1 μR/p – 120 R/p	±5 %

Cobia SENSE

The Cobia SENSE offers you a convenient way to make the regular constancy checks of your X-ray equipment as quick and as accurate as possible.

It offers the ability to connect different probes and ion chambers, thereby enabling measurement in a wide variety of situations. The measured values can be read directly from the large and clear display, and are stored in the meter for later viewing.

The SENSE is dedicated for use with an external detector, such as the DAP Chamber, RTI Dose Probe, RTI Light Probe, RTI CT Ion Chamber, or external mAs probes.

Plug n Play

Thanks to the "Plug n Play" functionality, the Cobia SENSE will automatically recognize the different detectors you connect and instantly be ready for your measurements. This, together with the easy-to-read display, is why it is also the perfect tool for untrained users.

Different languages

As well as English, you can choose to run your meter in several languages such as Chinese, French, German, Japanese, Norwegian, Russian, Spanish, Swedish, and Turkish. We constantly update with more languages.

Cobia SENSE R/F w. RTI Dose Probe Art. No:	. 9763002-00
Cobia SENSE Mammo w. RTI Dose Probe Art. No:	. 9763002-01
Cobia SENSE w. RTI CT Dose Profiler Art. No:	. 9763003-00
Cobia SENSE w RTI CT Ion Chamber Art. No:	. 9763005-00



Specifications

Battery life

Display

10 – 20 hours

Color, 320 x 240 pixel

Cobia SENSE		Measuring parameters
Weight Approx	290 g	See respective external detector
Size	138 x 76 x 27 mm³	
Power source	Int. battery / ext. power supply	

Cobia SENSE Kits

The Cobia SENSE is dedicated for use with an external detector, such as the DAP Chamber, RTI Dose Probe, RTI Light Probe, RTI CT Ion Chamber, or external mAs probes.

Cobia SENSE with R/F Dose Probe

Measures: Dose, Dose Rate, Time, HVL, Total Filtraton, Pulses, Pulse Rate, Dose/Pulse, and Effective Time.

Cobia SENSE with Mammo Dose Probe

Measures: Dose, Dose Rate, Time, HVL, Total Filtraton, Pulses, Pulse Rate, Dose/Pulse, and Effective Time.

Cobia SENSE with CT Dose Profiler

For acquiring the CT dose profile, as well as many interesting CT parameters from CT scanners and CBCT systems, in phantom, or free-in-air.

The Cobia comes with Bluetooth and USB connectivity for usage, together with the Ocean Next™ software, on a laptop or tablet PC (needed to read out the result of the CTDP measurements).

Cobia SENSE with CT Ion Chamber

For quick CTDI and Dose Length Product measurements on CT scanners, in phantom or free-in-air.

The Cobia comes with USB and Bluetooth connectivity for usage together with the Ocean Next™ software on a laptop or tablet PC, for further analyses and/or storage of measurements.

Cobia Quick Guide

Cobia DENTAL

- For Dental (Intraoral)
- Measures: kV, Dose, Dose Rate, Time, HVL, Total Filtration, Pulses, Pulse Rate, Dose/Pulse, & Effective Time
- kV range: 45 125 kVp
- Internal detector & detector input
- Connect any RTI detector, such as: DAP Chamber, Dose Probe, mAs Probe, CT probe, and Light Probe

Cobia SMART R/F

- For R/F & Dental (Intraoral)
- Measures: kV, Dose, Dose Rate, Time, HVL, Total Filtration, Pulses, Pulse Rate, Dose/Pulse, & Effective Time
- kV range: 38 155 kVp
- Only internal detector (no detector input)

Cobia FLEX R/F

- For R/F & Dental (intraoral)
- Measures: kV, Dose, Dose Rate, Time, HVL, Total Filtration, Pulses, Pulse Rate, Dose/Pulse, & Effective Time
- kV range: 38 155 kVp
- Internal detector and detector input
- Connect any RTI detector, such as: DAP Chamber, Dose Probe, mAs Probe, CT probe, Light Probe, and T20
- Available with or without built-in mAs connector for invasive mA & mAs measurements

Cobia SENSE

- Only detector input (no internal detector)
- Connect any RTI detector, apart from the MAS-2
- USB and Bluetooth connectivity for usage with the Ocean Next™ software on a laptop or tablet PC

Ocean Next™ - the new power in X-ray QA software



The power of the ocean - on your laptop

Start measuring within seconds!

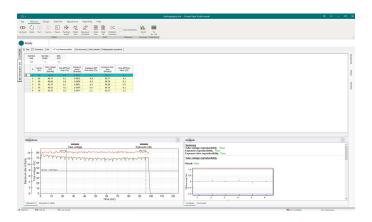
The importance of dedicated software applications to conduct professional QA is growing. Excel is flexible but simply not enough to meet the demands for traceability, compliance, and efficiency.

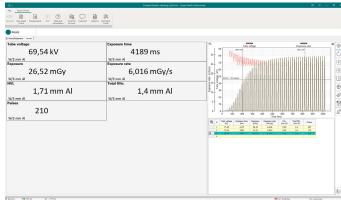
Since its launch in 2014, Ocean[™] has been *the* market-leading software for X-ray QA, addressing customers' needs all the way from 'Quick', for daily checks, to advanced QA with workflow, automation, and traceability in 'Professional' in easy steps.*

If you want a swift, easy-to-use application for routine controls, or a customized application with workflow, automatic tests, and traceability, the new Ocean Next $^{\text{m}}$ software suite provides you with both options.

The software's recognition and efficiency make it central to our X-ray solutions, and it is compliant with all our Piranha and Cobia meters as well as the new Scatter Probe.

You can plan the measurements in advance, create checklists, add information as a pop-up window for a specific exposure, and include instructions to simplify the work for you and your co-workers using a streamlined user interface. Choose from three different license levels: *Quick, Advantage,* and *Professional.*





^{*}Ocean™ 2014 software is still available to download from https://rtigroup.com/support/rti-software-download-center/

Ocean Next™ - the new power in X-ray QA software



Quick

The application detects what instrument and probes you have connected to assist you the best way possible – just "Plug n Play". The interface adapts, and all the measured parameters are displayed on one screen. The results and waveforms can be retained in the database for later review and compiled in a report.

Advantage

For more advanced QA measurements than Quick, the Advantage license enables customization of templates to suit your specific needs. Predefined workflows, automation of steps, and graphs. In the Studio View, you can design single-page templates and important reports, e.g. with your own logo and layout.

Professional

For trend analysis and full traceability of your measurements. Ocean Next™ Professional allows you to build a holistic solution for your X-ray QA, by storing your measurements in a searchable database structured to your individual needs. The archived measurements are available for quick and intuitive retrieval.

Which Ocean Next™ suits you best?	Quick	Advantage	Professional
Built-in display function	•	•	
Save function	•	•	
Basic report printing	-	-	•
Basic Excel connection	•	•	•
Advanced report printing		•	•
Advanced Excel connection		•	•
User-defined tests & checklists		-	-
Analysis with pass/fail limits		•	
Reporting		•	•
CT Dose Profiler support		•	
Single-page templates		-	•
Multi-page templates			-
Site database			•

Service & Warranty

Since 1981, with the release of our DIGI-X system, we have been delivering world-leading X-ray QA solutions of meters, probes, and software.

Two-year calibration cycle

Due to the high reliability of RTI products, we recommend a two-year calibration cycle. To make it convenient for you, we offer to keep track of when your solution needs to be sent in for calibration. We will send you a reminder two months before your calibration is due, giving you time to plan and schedule your work.



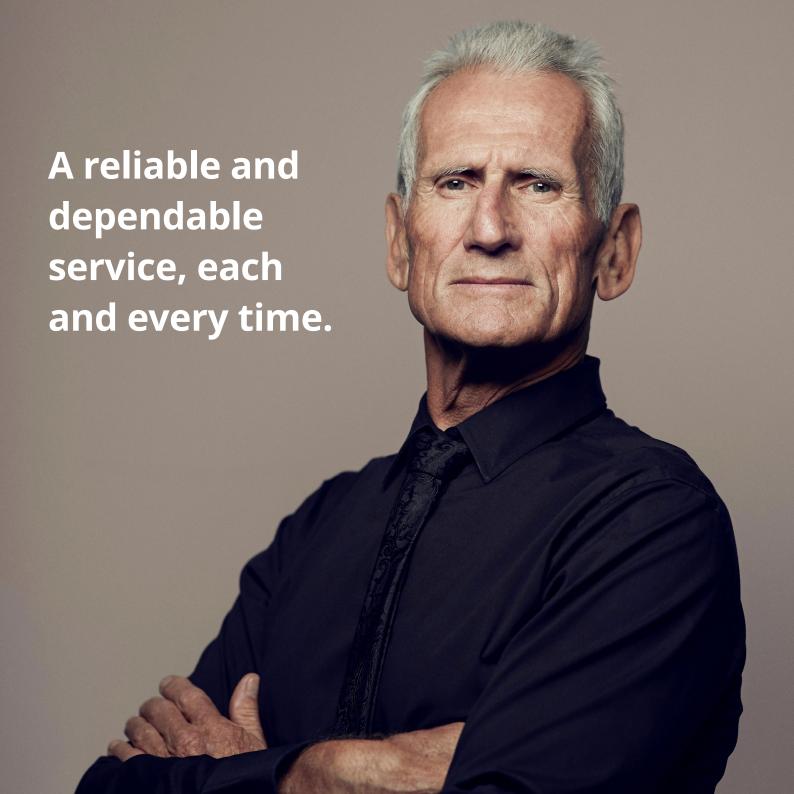
We are proud of our ISO/IEC 17025:2017 accreditation – "General requirements for the competence of testing and calibration laboratories". This is a guarantee that we comply with obligations under the international standards, and that we have a quality management system in place to assure that the calibrations we perform are of the highest quality - each and every time.



The RTI conditional Extended Warranty program, for the Piranha and Cobia, gives you up to ten-year warranty. Each instrument comes with a two-year warranty. By joining the Extended Warranty Program, you can increase your warranty two years at a time – up to ten years.

A reliable and dependable service

At our accredited calibration labs, your solution is always in the best hands! Our Service Engineers take the very best care of your meter(s) and probe(s), making sure they perform better for longer. As an owner and user of any RTI solution, you are guaranteed to always receive prompt and professional support if and when required.







RTI Dose Probe

The dose probe is intended for low dose rate measurements, such as input dose rate to image intensifiers. Dose/pulse (for Dose Probe with Cobia): 1 nGy/p – 3 kGy/p.

RTI T20 Dose Detector

A solid-state detector, dedicated for measurements on R/F systems when it is crucial that the detector itself does not have any effect on the system output or disturbs the X-ray beam. Despite its small size, it is protected from picking up backscatter.



RTI MAS-1

The MAS-1 is an invasive probe for the measurement of mA and mAs. Direct readings of mA and mAs, as well as waveform, are obtained. The simple way of invasive measurements.



RTI MAS-2

The MAS-2 is a clamp-on probe for non-invasive measurement of mA and mAs. The major advantages are that the probe is easy to use and safe. No connection inside the X-ray generator is needed. The simple way of non-invasive measurements.



Ion Chamber Magna 1 cc

The Magna 1cc ionisation chamber is designed for mammography dose measurement. It has an excellent energy response, and this is why it can be used for radiographic applications too.



RTI Chamber Adapter

External module for connecting ion and DAP chambers to RTI meters. Supports ion chambers with LEMO triaxial connectors. A measuring range of 10 pA – 0.7μ A.



RTI Scatter Probe

A revolution within scatter detection. A rugged, flat, solid-state detector for leakage and scatter detection in X-rayenvironments. Its unique design - two separate detector areas of 10 cm² and 100 cm² - fulfills current regulations and standards for X-ray leakage and scatter measurements.



DAP Chamber - 86 x 86 mm & 147 x 147 mm

The DAP Chamber is the essential accessory for your dental X-ray QA kit. You can measure with just one click, ensuring your quality control process runs safely and smoothly.

86 x 86 mm Art. No	9705070-00
147 x 147 mm Art. No	9705060-00



RTI CT Dose Profiler

A pioneer at measuring CT. The RTI Dose CT Dose Profiler is used for evaluation of CT and CBCT systems. It is robust and fits into existing standard phantoms used for CTDI measurements.



RTI Light Probe

The RTI Light Probe for brightness measurements (luminance) on monitors and film viewing boxes as well as measurements of ambient light (illuminance) in the viewing room.

Art. No	9730007-00



RTI CT Ion Chamber 10 cm (top) & 30 cm

A rugged, cylindrical pencil-shaped vented ionization chamber. The 10 cm is intended for measuring and monitoring the exposure output level of CT scanners in a phantom or free-in-air. The 30 cm for CTDI measurement when the beam width is 4 cm or wider.

10 cm Art. No	9730025-00
30 cm Art No	9730026 00



Cobia Vertical Holder

The Cobia Vertical Holder is designed for attaching the Cobia to vertical surfaces like a wall bucky, or Cone Beam X-ray units. It comes with an adjustable strap, with suction cup, for safe mounting.

Art. No	9744011-00
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RTI LoniMover™

The perfect tool to help you with accurate and reproducible measurements on your Cone Beam CT. Works both with a Pencil Ion Chamber or a CT Dose Profiler. Included LoniCT software works stand alone with an RTI Cobia FLEX or SENSE to record measured data.

Soft Shell Case

A perfect solution for storing your Cobia or Piranha meter. Along with power supply, tablet and a couple of probes, your QA solution fits perfectly into this case.

Contact us

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c/o RTI

What we do matters. To patients. To professionals. To us.It is more than algorithms, technology, and design.It is about setting the standard for quality assurance of X-ray imaging.

