

MODULAR THINKING

After more than half a century in the industry, it's fair to say we know about X-rays. We understand how vital it is that all the elements in an X-ray module work seamlessly together. It also requires in-depth know-how of the wide range of applications our customers demand - and how important it is for you to get a module that is not only tailored to your needs but is intuitive to configure, simple to install, and trusted to deliver uptime during operation.

That's why the flexible ION system is uniquely suited to your challenges. As the world's only producer of both proprietary X-ray tubes and generators, we know our components integrate perfectly to maximize operational efficiency. Add a comprehensive range of accessories to the mix, and you get a modular system built precisely to your specifications.

EVERYTHING CONNECTS

In your line of work, you reveal the details to be able to see the big picture. And when all your individual processes come together in one smooth workflow, you can feel the difference that efficiency makes to your bottom line. It all connects.

And that's where we come in: Because at COMET, our pioneering and intelligent X-ray technologies give you safer, more economical, trail-blazing solutions that can help drive your company into a more connected and effective future.

None of us knows precisely what the future will bring, but we do know that being flexible makes us faster to respond to change. Our modular system approach lets you configure a system which is tailor-made to meet your specific challenges. It won't show you the future, but it will help you shape it.

ENLIGHTENMENT THROUGH TECHNOLOGY

Customers trust us to challenge the limits of what can be revealed. By pioneering intelligent X-ray technologies, we provide safer, more economical, trail-blazing solutions that enable our customers to navigate their own voyage of discovery.

Accepting this challenge demands extraordinary commitment. We invest talent and resources in creating brighter ways of exposing hidden worlds through the application of energized light. Light is at the core of everything we do, illuminating the path ahead. And with light comes revelation.

The transparency and clarity of the data we reveal, empowers our customers to make enlightened business decisions. These decisions have an impact on our mutual security and efficiency, accelerating our common journey to a sustainable planet.

Because when we see things clearly, the right way forward is obvious.

AN IDEAL VANTAGE POINT

The ION - clear insights for scanning applications

THE IDEAL X-RAY SYSTEM FOR YOUR SCANNING APPLICATIONS

The ION integrated X-ray series is tailor-made for X-ray scanning applications and ideal for industries such as food processing, sorting, thickness gauging, and security in particular.

These systems guarantee continuous and reliable performance, preventing costly production stops caused by unscheduled maintenance and they ensure accuracy, speed, and X-ray dose-stability, which is critical for real-time imaging and measurement.

A growing number of items that require screening means that security screening systems need to be increasingly efficient. X-ray security inspection systems operating at logistics centers, airports, ports, and institutions help ensure greater public safety and security. The ION system is the perfect solution, identifying unwanted elements and illegal goods in vehicles, luggage, and containers.

ION systems are flexible and scalable, perfect for tailoring specifications, and creating unique systems that make a world of difference to our customers.

ALIGNMENT ROD

For alignment of the ION series tube head to other system components.



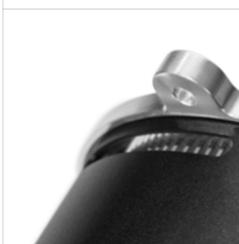
COOLING FAN

The powerful cooling fan ensures efficient cooling of the ION series X-ray tube head.



MOUNTING BRACKETS

For easy attachment of the ION series X-ray tube head.



THE ION SERIES

making an impact on our mutual security and efficiency



THE ION SERIES

The ION series X-ray system consists of a tube head module with integrated cooling and the high voltage generator, and an industrialized control unit with power supply, safety, and control modules. It's a flexible and scalable technology platform and can be customized to specific customer needs.

A COMPACT SYSTEM WITH A SIGNIFICANT IMPACT

The compact design of the ION series allows for flexible system installation. The X-ray tube and high voltage generator are integrated into one compact module, minimizing the required shielding, and the industrial control module can be mounted wherever it is convenient. The air-cooled design eliminates the need for external coolers, which reduces the overall system footprint.

Mounting points for collimators and positioning guides make the ION modules easy to align in any existing system geometry. The absence of high voltage connections and cables eliminates the need for regular onsite maintenance.

The system design is tailored to deliver accuracy and reproducibility. Dose-stability is ensured through temperature compensation and high-resolution mA adjustment, which maximizes the dose output even in harsh and challenging environmental conditions.

The fan beam ensures optimum coverage of the detectors, and the hot standby functionality enables full ramp-up from an idle state to maximum kV / mA within one second, contributing to a prolonged filament lifetime and eliminating the need for external mechanical shutters.

The ION series' flexible system architecture supports seamless connectivity to advanced functionality through RS232, Ethernet, and USB.

RS232 ETHERNET

Port for remote operation of the ION series X-ray system.



DIODES

Indicating the status of the ION series X-ray system.



X-ON CONNECTION

Port for remote operation of "X-ray ON" and "hot standby".

