

ForensicSCAN™ is an innovative digital radiography system designed for forensic medical examiners and coroners.

ForensicSCAN™ delivers **high resolution, whole-body radiographs with AP and lateral projections in a single scan without image stitching**. ForensicSCAN™ uses **non-invasive imaging** to produce **high-quality, dual-view radiographs in an intuitive 2D image format**. With ForensicSCAN™ subjects from **paediatrics to adult bariatrics up to 2.1m tall** are imaged quickly and comprehensively without subject repositioning.

When used as a **non-invasive digital autopsy** tool at the beginning of the autopsy process, the whole-body information generated by ForensicSCAN™ can be used to determine whether further investigation is required and the nature of any further investigations, thereby generating **substantial operational efficiencies** in the autopsy process and case management process.

ForensicSCAN™ performs a **dual-view scan within 1 minute** and **instantly presents twin whole-body radiographs** for radiographer review. Upon completion of a scan, ForensicSCAN™ is ready to perform the next scan without a prescribed cool-down period.

X-Vision™ software inside each ForensicSCAN™ system delivers a suite of user-friendly image analysis tools. ForensicSCAN™ is inherently network capable with compliance to DICOM 3.0.

KEY FEATURES

- Easy operation
- High resolution imaging
- Dual-projection scans performed simultaneously in under a minute
- Low-dose X-ray system minimises radiation scatter for improved imaging
- Versatile format from paediatric imaging to bariatric imaging
- Real-time image processing using future-proofed X-Vision™ and Windows™ 10 software



Above is an actual image of the dual-view (AP and lateral) system with gurney

GENERAL SPECIFICATIONS

External dimensions (mm):	Refer sketches below
Net weight (mainframe):	~650 Kg
Net weight (workstation):	~ 50 Kg
Net weight (gurney):	~ 80 Kg
Gurney max. load:	250 Kg supine body weight
Monitor (dual images):	32"/40" UHD LED, 300 cd/m ² , 1,000:1 contrast ratio

OPERATING CHARACTERISTICS

Power requirements:	230VAC +5%, 50-60Hz, single phase
Current consumption:	20A (max) @ 230V
Operating/Storage temp:	0°C to 35°C / 0°C to 60°C
Humidity:	10% to 90% non-condensing
Throughput:	<1 minute for dual-view scan
Standards:	ISO9001:2015, DICOM 3.0 FCC Part 18.305 Class A FCC Part 18.307 Class A

KEY OPTIONS

- AP or AP & lateral projections
- Left-to-right or right-to-left scan motion
- Mobile radiation-safe cabin for field deployment
- Remote access (DICOM 3.0 compliant) for multiple users

X-RAY CHARACTERISTICS

Nominal anode voltage:	60 – 160 kV
X-ray current:	Variable with speed
X-ray tube focal spot:	1.2 mm
Duty cycle:	100%
No. of generators	1 or 2
Cooling:	Hermetically sealed oil bath with forced air radiator

IMAGING PERFORMANCE

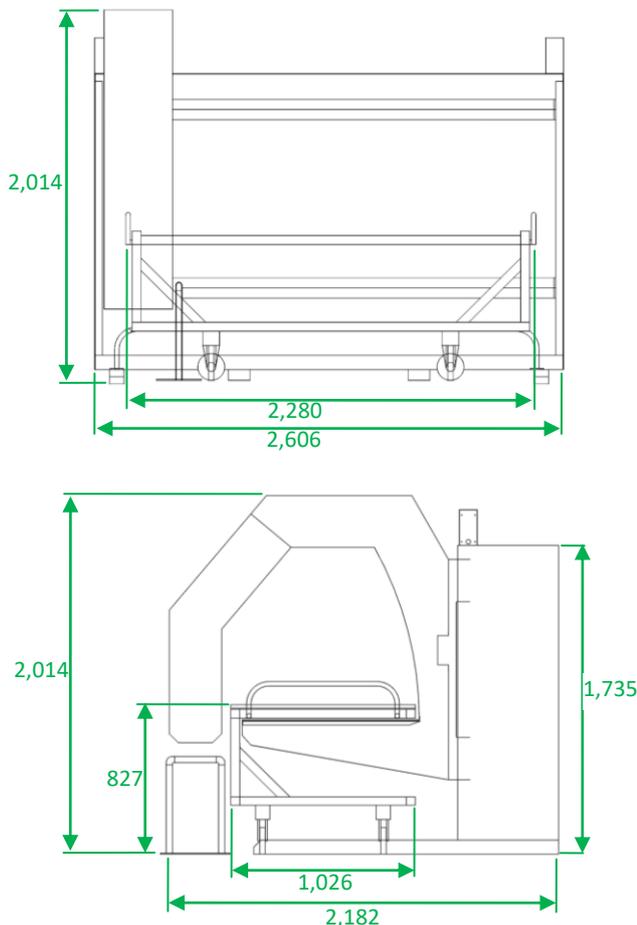
Active imaging area (mm):	2,100(L) x 870 (W)
Detectors:	4,352 pixels per linear array
Spatial resolution:	2.5 lp/mm
Contrast sensitivity:	16 bit / 65,535 grey levels
Whole body scan resolution	4,352 x 10,000 pixels per scan
Imaging software:	X-Vision™ on Windows™ 10

KEY OPTIONS

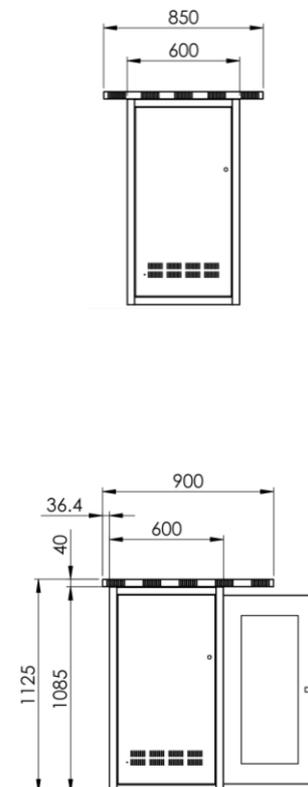
- Selection of monitor sizes and specs, incl. Touchscreen
- Walk-in radiation cabinet (side-entry / end-entry)
- Overhead G-arm camera
- Fingerprint patient identification reader

MECHANICAL DIMENSIONS (mm)

Mainframe & Gurney



Operator Workstation



Specifications are current at the time of first publication and are subject to change with continuing product enhancement.

Whole-Body Imaging

High quality whole-body images facilitate a **complete skeletal survey**, making it **easier to locate injuries, foreign objects and identifying features**. Skeletal, chest and pelvic pathologies are accurately visualised in a single imaging pass.

Versatility

ForensicSCAN™ whole-body images span **paediatric and bariatric imaging**. The highly collimated X-ray beam **minimises scatter from large bodies and improves image quality**.

High Speed, Multi-Planar Imaging

ForensicSCAN™ **G-arm design delivers simultaneous whole-body radiographs in AP and lateral projections in less than 1 minute**. Images are presented immediately, automatically archived and the system is ready to produce its next scan.

Image Quality

ForensicSCAN™ dual-view whole-body images are derived from dual linear arrays each of **4,352 pixels** with **200 µm** pitch delivering 16 bit contrast resolution.

Digital Autopsy

ForensicSCAN™ high resolution, whole-body enables **easy location of foreign objects in the body**. ForensicSCAN™ can facilitate diagnosis of **non-accidental injuries in children** and causal analysis of **sudden unexpected death in infants**.

Ease of Use

ForensicSCAN™ is easy to operate. **Non-specialised personnel can perform procedures delivering** dual-view images with the click of a button.

Intuitive 2-D transmission X-ray radiographs enable the **inspection of radiographs for contrast and density** by non-specialised radiographers.

Instant imaging results and an **overhead optical viewing camera** provide **clear and timely feedback** to the operator whilst the subject is in position.

X-Vision™ and Windows 10™

At the heart of each ForensicSCAN™ system is X-Vision™ image processing software which processes images in **real-time**. X-Vision™ is constantly updated with new tools and works on a Windows™ 10 platform, ensuring that your investment in ForensicSCAN™ is future-proofed.

Operational Efficiencies with Outstanding Returns on Investment

The rapid operation and versatility of ForensicSCAN™ facilitates efficient examination of all subjects, and provides Medical Examiners with powerful information at the beginning of the autopsy process that can enhance productivity and produce outstanding returns on investment.