A SHIFT
in digital radiology
Full-body, high-speed digital radiology with low radiation emission and scatter
Lodox is the only DR system that provides a single (non-stitched), high-resolution radiographic image of the entire body (up to 1.8 m / 6 ft body length).

Lodox visualises skeletal, chest and pelvic pathologies ‘all-in-one’, and more accurately than conventional X-ray, in the primary trauma survey.3

Full-body imaging allows a better understanding of the patient’s entire injury pattern.4

Lodox allows optimised studies of smaller areas for detail of critical or pre-surgical pathologies.

X-ray of the entire body in 13 seconds.

A full-body trauma imaging study in two planes in 3 - 5 minutes.5

Rapid acquisition of radiographic detail is particularly important in ATLS resuscitation, where time predicts outcomes.1

Radiation emission is significantly lower than for conventional X-ray equipment (average 6 % of conventional exposure 1, 0.12 mGy entrance dose 6).

Radiation scatter is minimised by the Lodox beam and detector configuration.

Together, these features improve safety for staff, significantly reduce radiation dose to patients, and allow uninterrupted resuscitation during imaging.7

...miss nothing. faster.
PAEDIATRICS

Significantly lower radiation dose and high diagnostic image quality make Lodox a first-choice for paediatric poly-trauma, providing more comprehensive and efficient triage imaging. The shorter examination time requires a lower degree of patient compliance and the low level of scattered radiation allows concurrent resuscitation.

BARIATRICS

The open C-arm design improves accessibility for imaging of large patients and the load-bearing design of the bariatric trolley permits weight up to 300 kg (660 lbs). The unique, focused fan-beam of the linear slit-scanning technology improves image quality by reducing large-patient scatter degradation.

FORENSICS

High-speed, full-body imaging reduces the time for autopsy examinations (which may be especially useful in the case of religious groups that require expedited burial). Rapid localisation of foreign bodies with multiple views can benefit criminal investigations. The full-body, low-radiation format makes Lodox imaging safer and easier for staff and could improve the workflow in busy forensic pathology laboratories.

IMAGE QUALITY

Lodox images have a pixel size of 60 μm, up to 5 line-pairs/mm of spatial resolution and > 16000 grey levels of contrast resolution supported by patented image-processing and viewing software.

Lodox high-definition, high-contrast images have been found to be equal to or better than conventional X-ray images for the detection of thoracic, pulmonary, mediastinal, pelvic and peripheral injuries.
The Lodox full-body X-ray machine plays a significant role in the initial management of the trauma patient, and is an important advance in the trauma imaging repertoire.1 The effectiveness and high speed of imaging dramatically reduce the resuscitation time of patients with major injury, and allow imaging of a large number of patients in a very short time.1

The remarkable detection rate for treatment, low radiation dose and speed at which the whole body can be evaluated are advantages in the primary survey of acute trauma patients.2

Lodox provides a time-saving, low-dose investigation for emergency units which interferes minimally with initial resuscitation.3

...the Xmplar for trauma.
REFERENCES


-Lodox and Xmplar-dr are CE-mark, FDA, ISO 9001 & ISO 13485 accredited

www.lodox.com