VISION AIR

UNIVERSAL DIGITAL RADIOGRAPHY (DR) SYSTEM

Technical Specification

VISARIS

Vision Air is a state-of-the-art, universal, overhead digital radiography system capable of virtually all radiography examinations with a single, high quality, flat panel detector system. Based on a fully programmable, automated robotic system with intelligent positioning control the system will seamlessly transforms from the functionality of a vertical X-ray bucky stand to a table system. Air system has a dedicated positioning user interface on the tube and a fixed, single suspension, elevating patient table with a carbon fibre table top.

STANDARD CONFIGURATION INCLUDES:

- Auto-positioning ceiling suspended tube stand (OTC)
- Touchscreen system console on the tube
- Auto-positioning ceiling detector stand with two directional tilt (ODC)
- Multi-directional detector-tube tracking
- Single suspension, elevating patient table with a carbon fibre table top and tube tracking
- 50 kW High frequency generator
- 20m HV high flex cables
- 300 kHU Fast radiography tube
- Manual Collimator
- Avanse DR Digital Imaging System **
- 43x43 high DQE CsI detector
- Dedicated acquisition console PC
- 23” TFT high resolution colour monitor

POSITIONING TECHNIQUES

VISARIS

SPECIFICATIONS

Ceiling suspended tube stand – OTC

Overhead tube suspension system with motorized vertical movement
High-precision telescoping column with self-aligning bearings
Manual translations and tube rotation
Longitudinal travel: 2900 mm for longitudinal rail size 4000 mm
Transverse travel: 2400 mm, for transverse rail size 3000 mm
Optional custom longitudinal and transverse rails, up to 6000 x 4000 mm
Motorised tube elevation
Motorised vertical tracking of tube and detector
Vertical tube travel: 1800 mm (1500 mm optional)
In-plane tube/column rotation: +/-150°, optional mechanical indexing every 90°
Tube angulation: +180/-135°, optional mechanical indexing every 90°
Electromagnetic brakes
Lateral and longitudinal cable concealment to reduce motion effort
Vertical cables inside column (no hanging cable tubes)
Fit room heights from 2700 mm
Floor mounting / low ceiling height option
Customisable rails available to meet different room requirements
Minimum Ceiling Height 2700 mm

Minimum Room Size

Standard travel system 4 m x 4 m
Extended travel system 5 m x 4 m

Specifications may be subject to change upon a client request.

Auto-positioning System

Motorised motion of all movements
Programmed positioning with configurable pre-set techniques
Synchronized multi-directional (horizontal, vertical) tracking of tube and detector
System decoupling for manual position adjustment
Automated table and vertical bucky cantering (synchronisation) from any position
Digitally adjustable detector and tube angulation
Digital display for SID, tube and detector angulations
APR anatomy driven positioning (pre-set position when worklist entry selected

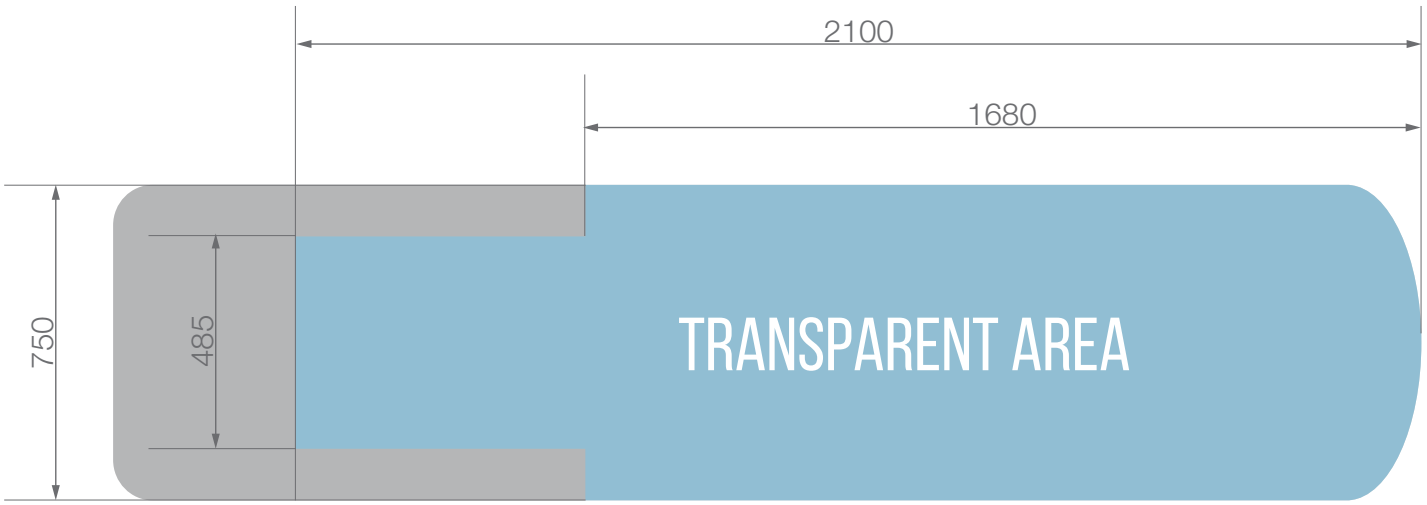
Ceiling Suspended (Overhead) Detector Stand - ODC

Same as above except:
Detector tilt: ±90°
Detector rotation: ±90°
Motorised positioning only
Detector Bucky Assembly with removable fixed grid mechanism,
grid presence indication

VISARIS

Single Suspended, Carbon Fibre Patient Table

Elevating patient table with radiolucent carbon fibre table top
Motorised elevation range: 400 mm
Table top height range 516 – 916 mm
Elevation speed >20 mm/s
Table-top dimensions: 2600 x 750 x 47 mm
Transparent area: 2100 x 730 mm
Table top material: Carbon-fibre (layered configuration)
Attenuation equivalent @ 100kV, < 1.0 mm eq. Al
Max. Table top deflection <40 mm
Max. Patient weight: up to 227 kg (500lb)
Footswitch control: high adjustment up and down
Operating voltage (power supply): 24 VDC



Vision X-ray System *

* Full x-ray sub-system specifications and options as in document VM-S40

Avanse DR – Imaging System *

Fixed, high sensitivity CsI radiography detector, 43x43
Optionally additional wireless, portable detector(s) 35x43/43x43, high DQE CsI
Dedicated acquisition console PC
23” DICOM calibrated medical console monitor
Direct exposure mode for imaging on CR/film cassettes
* Full specifications and options in a separate document VM-S50

Room Requirements

Minimum Ceiling Height: 2900 mm
Minimum Room Size: 5 m x 4 m

Environmental Conditions

Operating temperature: +15°C to +35°C, maximum change 10°C per hour
Non-operating temperature: 5°C to 25°C
Operating humidity: 30% to 80% RH, non-condensing, maximum change 30% per hour
Non-operating: 10% to 90% RH, non-condensing, maximum change 30% per hour

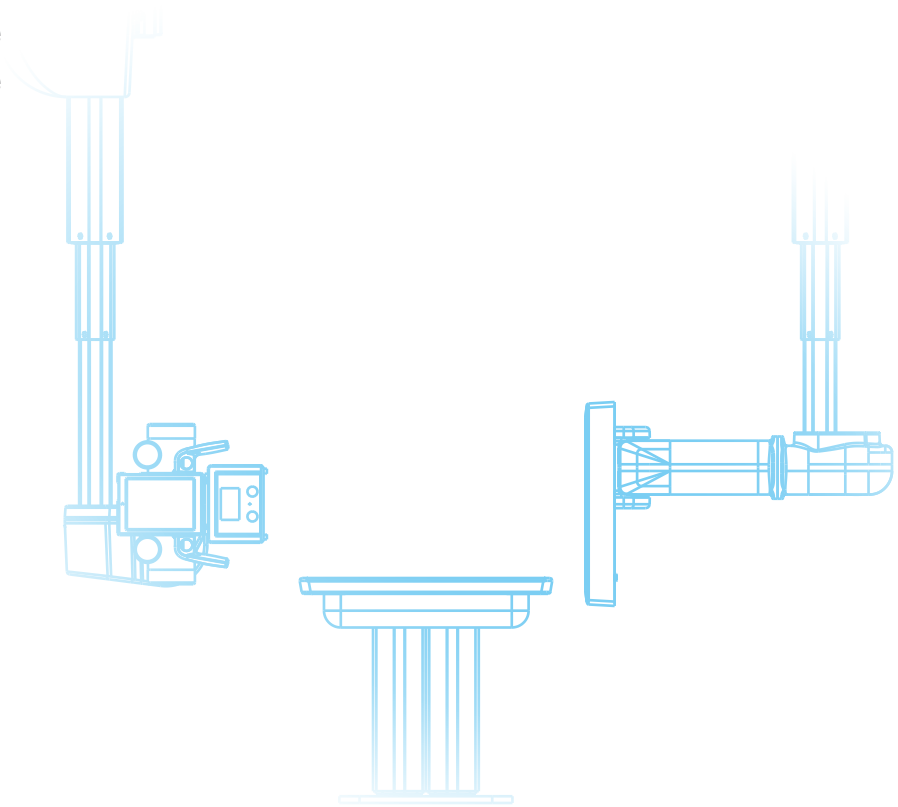
Compliance with Standards

CE Mark expected in 2017

System Options and Upgrades

See VM-S40 for full details

Generator power upgrade: 65/80 kW
Advanced Automatic Beam Collimator with Additional Motorised Filtration
5 field, ionizing AEC
Contactless OTC/ODC anti-collision system
Vertical/Wall Bucky Stand
Automatic Stitching Option: Upright, table AP and table LAT stitching
Anti-scatter grids
Dose-Area-Product, DAP Meter
400 kHU X-ray Tube Upgrade
600 kHU X-ray Tube Upgrade



VISARIS

Visaris, Batajnički drum 10, deo 1B, 11186 Zemun, Belgrade, Serbia
Tel: +381 11 2017 600, Fax: +381 11 2017 670, info@visaris.com

www.visaris.com