



BUS-DR

Product Data **Universal Digital Stand**

Floor-mounted Universal Digital Radiographic Stand designed for Flat Panel Detectors.

The Stand allows the patient to sit, stand or lay down on a mobile table, with a variety of examination possibilities including chest, oblique, A/P and lateral views.

MOVEMENTS

- Fully motorized or manual control of all movements for easy and quick adjustments
- Brake-release switches for the manual control mode are customized for an optimal fulfilment of any workflow need
- Counterbalanced vertical and rotational system
- Slow or regular speed selectable
- "Sticky position" mode for automatic and accurate positioning at pre-set angles (*within a $\pm 5^\circ$ range*)
- Extended SID between 1000 mm and 2000 mm
- Lateral exposures with a table at 1000 mm S.I.D.
- Installation possible even in low-ceiling rooms (2.40 mt.)
- Tube rotation ($\pm 90^\circ$) for external imaging device / detector (i.e. for application on wheel-chairs)

CONTROLS

- 7" touch-screen control display located on the tube side allowing user-friendly adjustments, with digital read-out of all positions
- Additional digital display located in the centre of the rotating arm
- Customized interface (*languages*)
- Keypad to control all movements placed at the detector side
- Bluetooth remote control with extended security
- Selectable and interchangeable grids for different S.I.D. exposures
- Automatic detection of the used grid, error messages in case S.I.D. and grid focus do not match

SECURITY

- Advanced patient security, as low power motors with clutches minimize any risk of injuries
- Additional sensors for equipment safety both in floor and ceiling area
- Programmable specific movements for low ceiling rooms to avoid collisions
- Sensors to detect obstacles (above and beneath the detector) and stop movements
- Clean cables guides, no "wrestling" with cable hoses during operation



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UNIVERSAL DIGITAL STAND

TECHNICAL DATA

VERTICAL STAND

Minimum ceiling height in the installation room	240 cm
Motorized movements	4 movements with electric brakes and clutches: vertical, arm rotation, detector rotation, S.I.D.
Manual movements	4 movements: vertical, arm rotation, detector rotation, SID. Manual override for quick positioning
Vertical arm travel range	125 cm
Adjustable S.I.D. (<i>Source-Image Distance</i>)	From 100 cm to 200 cm
Arm rotation	From -45° to +135°
Detector support rotation	From -45° to +45°
X-ray tube rotation	From -90° to 90°, manual
Focus-Floor distance	From 40 cm to 165 cm
Total assembled weight	Approximately 400 kg
Power Supply	Single phase 120 / 230 / 240 Vac — 50/60 Hz 2 / 1.2 / 1.1 A
Automatic line compensation	± 10%

CONTROL CONSOLE

7" Colour LCD Touch Screen monitor	
Automatic pre-set positions	6 (<i>programmable</i>)
Selectable speeds	2
Automatic rotation of the screen	yes
Detector side KeyPad	Standard
Bluetooth Remote Controller	Optional

GRID

n° 2 removable / interchangeable grids	
Stationary grid	215 Pl/inch — R 10:1 — F 100 cm
Stationary grid	215 Pl/inch — R 10:1 — F 150 cm
Automatic detection of the grid type, warning message on the LCD monitor and warning sound when the wrong type is inserted	





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OPERATOR CONTROLS

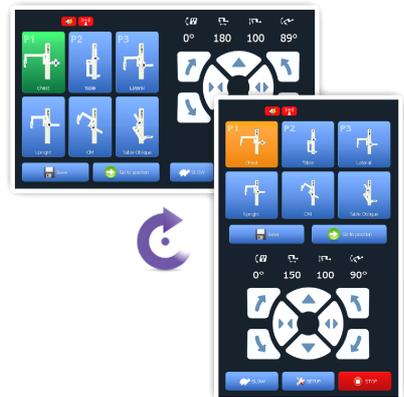
BUS-DR can be handled from 3 different locations:

- Tube side controller
- Detector side keypad
- Bluetooth remote controller

TUBE SIDE CONTROL



- 7" Touch-Screen LCD
- Nr. 6 Automatic Patient Positioning selections
- Regular and low speed selection



The screen automatically rotates according to the position of the arm for full readability.

DETECTOR SIDE KEYPAD



For convenient positioning close to the patient (e.g. for adjusting the detector height for chest exposure)

BLUETOOTH REMOTE CONTROLLER (Optional)



Battery rechargeable device, with nr. 03 Automatic Patient Positioning selections



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CENTER DISPLAY

Digital display of the following parameters:

- Vertical position (cm)
- Arm rotation (degrees)
- S.I.D. (cm)



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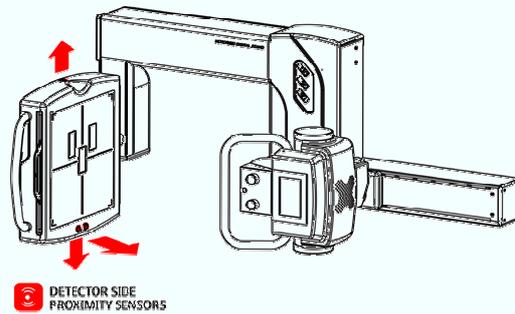
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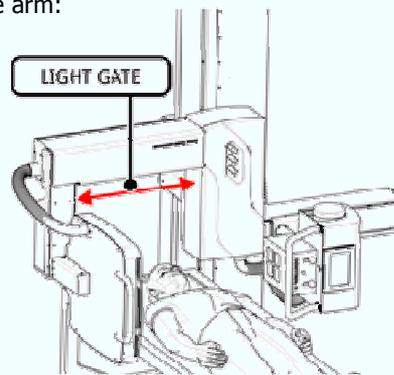
SAFETY FEATURES

SPATIAL AWARENESS Internal PC to monitor the outermost parts of the arm, detector and tube, to prevent collisions, injury or damages.

PROXIMITY SENSORS Four optical proximity sensors to prevent collisions with objects and persons in 3 directions:



LATERAL VIEW PATIENT SENSOR Light gate inside the detector side telescopic arm, to prevent downward movements if any person/object is within the arm:



SAFETY MECHANISM DURING CRASH Electromagnetic clutches inside the motors to decouple the movements. Stopped motion detection and motors disengaging with error sound and message on LCD monitor



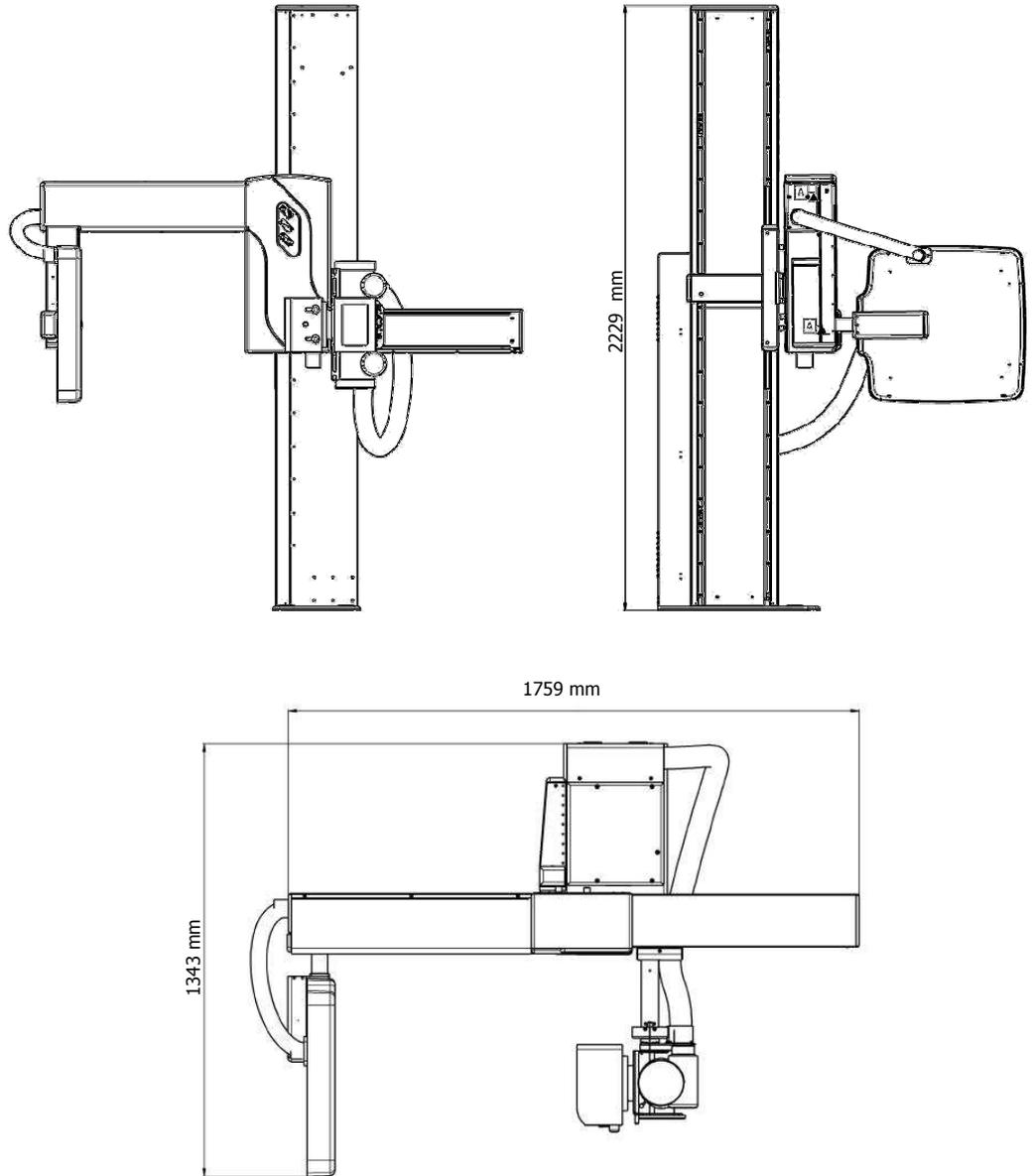
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DIMENSIONS (mm)



Note:
Data subjected to alteration without prior notice.

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