The Huestis•Cascade™ Simulator is world renowned for accurate, reliable and very affordable simulation. Easily installed, its freestanding design eliminates the need for an expensive floor pit and major room modification. Driven by the latest operating system, it combines versatility with an impressive array of features. Our easy-to-use operator control station, coupled with the hand pendant, puts flexibility at the user’s fingertips. An easily read 17 in flat panel monitor displays position feedback and operational status. Asymmetrical or symmetrical field wires offer selectable, precise positioning, while calibration software facilitates set up and maintenance. The Huestis•Cascade™ Simulator is FDA registered and CE certified.

Radiotherapy teams worldwide have come to depend on Huestis Medical for quality and cost-effective radiotherapy products. The Huestis•Cascade™ Simulator is CE certified.

**Accurate**
Radiation therapy teams depend on accurate tumor volume definition and precise patient positioning for simulation. Huestis-Cascade™ Simulator’s included diode line lasers, custom block tray adapter, and the highest quality imaging components ensure positioning accuracy. Its unique balance of smooth, precise controls contributes to ease of use, quick setups, and patient accessibility. Huestis-Cascade™ Simulator provides precision replication of patient positioning matched to common radiotherapy treatment requirements.

**Very Affordable**
The Huestis-Cascade™ Simulator is designed to be installed with minimal modification to an existing facility. Huestis-Cascade™ Simulator’s freestanding design is quick and easy to install because there is no pit required as with other models. Installation time is also drastically shortened with an average one week setup. Huestis-Cascade™ Simulator combines quick and economical installation with impressive features for unmatched performance and value.

**Rigid Construction, Reliable Components**
Huestis-Cascade’s™ rigid gantry and pedestal construction maintain alignment accuracy. Reliable components and easily adjusted controls are built for years of trouble free service.

**Couch Rotation Independent**
The couch rotation is independent of Isocenter up to 180°. The couch top rotation will allow for easier access to the table top for patient loading, set up and off loading. The rotated position allows for QC tests without couch top interference.

**Note:** In rotated position maximum patient weight limit is reduced to 325 lbs (148 kg).

**High Frequency Generator**
Self diagnostics and multiple microprocessors contribute to Huestis-Cascade’s™ consistent and repeatable X-ray operation. This high performance, high frequency generator also features an auto-brightness system for fluoro.

**Sim Remote Dicom**
The Huestis Cascade™ Simulator has a Dicom PC Workstation on a Windows® Operating System Platform that facilitates the viewing and sending of fluoroscopic image and patient information to other Dicom compatible modalities. This will connect the Huestis Cascade™ Simulator with an existing hospital or clinic information system or treatment planning system.

**Sim Remote Dicom**

**Couch Rotation Independent**

**High Frequency Generator**

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**Rigid Construction, Reliable Components**
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System Highlights
- Current Windows® operating system
- Asymmetrical/asymmetrical field wires
- Compact console and 17 in Flat Panel Monitor offers precise positioning feedback
- Easy to use, ergonomic hand pendant
- Easy to build-in diagnostic/calibration software
- Local Area Network (LAN) capability
- Freestanding design does not require an expensive floor pit

Included Custom Features
- Crisp fluoroscopic capability
- Four (4) total alignment lasers: 2 lateral, 1 sagittal, 1 overhead
- Custom block tray adapter: matches your treatment unit
- Two (2) grid trays: 80 & 100 cm
- 17 in Flat Panel Room Display with easily read, instantly maximized windows
- Scatter grid

Asymmetrical and Symmetrical Field Wires
- Motorized, independent treatment field wires offer selectable, precise positioning flexibility compatible with treatment planning systems
- Treatment field size: 0 x 0 cm – 55 x 55 cm
- Speed: ramp up to 63 cm/min
- Controls/display: local and remote
- Digital readout resolution: 1.0 mm
- Digital accuracy: ±2.0 mm

Source to Skin Distance (SSD)
- Range: 60–200 cm
- Pre-programmed switch-off time
- Controls/display: local/optical
- Digital readout resolution: 1.0 cm
- Accuracy: ±2.0 mm

Source to Image Distance (SID)
- Range: 87.5–181 cm
- Controls/display: local and remote
- Digital readout resolution: 1.0 mm
- Digital accuracy: ±1.0 mm

Source to Axis Distance (SAD)
- Variable SAD: 80–120 cm
- Speed: ramp up to 50 cm/min
- Controls/display: local and remote
- Digital readout resolution: 1.0 mm
- Digital accuracy: ±1.0 mm
- Mechanical resolution: 1.0 cm

Indexing Table Top with Accessory Bar
For accurate and repeatable patient set-up. Compatible with most patient positioning systems for precise treatment from the simulator to the treatment machine.

Rigid Gantry
- Isocentric accuracy: ±1 mm (at 100 cm)
- Rotation: ±185° (at SAD ≥ 195°)
- Motorized rotation: ±95°
- Mechanical resolution: ±1.0 mm

RadioGraphic Cassettes Holder
- Easily accessed, manually rotating (90°)
- Film size: 35 cm x 43 cm (14 x 17 in)
- Anti-collision touch guard
- Accepts radiation guard (absorbs scatter)
- Safety lock for grid and film holder

Field Indicator Light
- Type FCS halogen bulb
- Light field illumination 100 lux at 1 m from source

Precision Collimator
- Motorized rotation: ±95°
- Speed: ramp up to 400 cm/min
- Controls/display: local and remote
- Digital readout resolution: 0.1°
- Digital accuracy: ±2.0°
- Mechanical resolution: 1.0°

High Resolution Image Intensifier
- Tri-field: 12 in, 9 in, 6 in (30.4 cm, 22.8 cm, 15.2 cm), 14 in, 12 in, 9 in (35.4 cm, 30.4 cm, 22.8 cm)
- Image intensifier coverage:
  - 62.8 x 62.8 cm with P (22.8 cm)
  - 70.4 x 70.4 cm with 12” (30.4 cm)
- “T” distortion correction
- Automatic brightness for fluoros
- Noise reduction in fluoros: 4x sampling
- Control resolution: 4.6 l/mm (9 in)
- Contrast ratio: 23.1 (16:1 at 10 mm)
- DQE: 65% (IRC standard)
- Conversion factor: 240 cd/m²/nf

Image Intensifier Movement
- Motorized movement: ± y, z axes
- Auto-centering: lateral/longitudinal
- Controls: local and remote
- Lateral range: ±20 cm
- Longitudinal range: ±10 cm
- Long. speed: ramp up to 63 cm/min
- Vertical range: 50 cm
- Vertical speed: ramp up to 81 cm/min
- Mechanical resolution (vertical): 1.0 cm

CCD T.V. Camera (20 mhz)
- Chip size: 1/2 in, active pixels: 768 x 494
- Auto gain, dynamic contrast compensation
- Scanning system: EIA 525/60
- Last image hold, image reversal

Couch Movement
- Motorized movement: ± y, z axes
- Free float of lateral/longitudinal motions
- Lateral range: 70–136 cm
- Vertical speed: ramp up to 66 cm/min
- Lateral range: ±19 cm
- Lateral speed: ramp up to 150 cm/min
- Longitudinal range: ±61 cm
- Long. speed: ramp up to 150 cm/min
- Controls/display: local and remote
- Digital readout resolution: 1.0 mm
- Digital accuracy: ±2.0 mm

Couch Floor Rotation
- Floor rotation range: ± 360°
- Speed: ramp up to 420°/min
- Controls/display: local
- Digital readout resolution: 1.0°
- Digital accuracy: ±2.0°

Optional Digital Imaging System
- 1024 x 1024 (pixels) progressive scan camera
- High resolution in medical grade LCD monochrome monitor
- 1049/60 Hz video
- Last image hold and reversal
- Radiographic and Fluoroscopic capabilities

Versatile Block Tray
- Carbon fiber top (74.3 cm x 51 cm x 4 cm)
- Transmission: 1.0 mm alum. equivalent
- Couch capacity: 500 lbs (226 kg)
- Easy access: couch lowers to 70 cm
- Ergonomic floor lock/emergency switches
- Indexing tabletop w/access bar

Easy to Use Operator Controls
Simple intuitive controls feature international symbols, convenient color coding and an ergonomically designed layout.

Operator Friendly Controls
Operator friendly controls feature simultaneous buttons, variable, ramped speeds and anti-collision systems. Crisp fluoros imaging includes automatic brightness, noise reduction and last image hold.

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