



OTC18**M**

Overhead Tube Crane System

DEL MEDICAL

System Overview

CLINICAL PERFORMANCE

Versatile and intuitive, the OTC18M System delivers enhanced patient comfort and optimized workflow. Precisely designed to withstand high-volume throughput in hospital radiology departments, medical imaging centers and large orthopedic facilities with the need to perform a broad range of radiographic studies.

Our overhead tube crane features a sophisticated LCD touchscreen interface, which supports enhanced capabilities to offer a more superior patient experience. By integrating with a DELWORKS DR System and compatible generator, technologists are given the ability to adjust generator technique factors without leaving the patient's side. Its overhead horizontal and transverse tracks provide technologists with limitless imaging procedure capability, including cross-table laterals and other challenging views.

The system embraces operational efficiency through ergonomically designed user controls, extensive longitudinal and transverse travel, including a convenient grab-and-go all locks release sensor, and an industry-leading table with a patient weight capacity of up to 800 lbs (363 kg). The OTC18M System was developed through innovation to produce high quality diagnostic images with ease. Built in the USA, it will deliver many years of continuous use and exceptional user-satisfaction.

System Includes

- ▶ Overhead Tube Crane
- ▶ Automatic Collimator (Manual Version Available)
- ▶ EV800 Elevating Four-way Float Top Table
- ▶ VS300 Wall Stand (VT300 / VS50 Optional)
- ▶ DELWORKS DR System

Key Highlights



Technologist-Friendly LCD
Touchscreen Tube-head Interface



Optimized Workflow



Precise and Quiet
Electromagnetic Braking



Premium Table
and Wall Stand



Wireless or Wired Imaging



Dose Management
Configurations



System Overview

FEATURES

Intuitive Control and Flexible Positioning

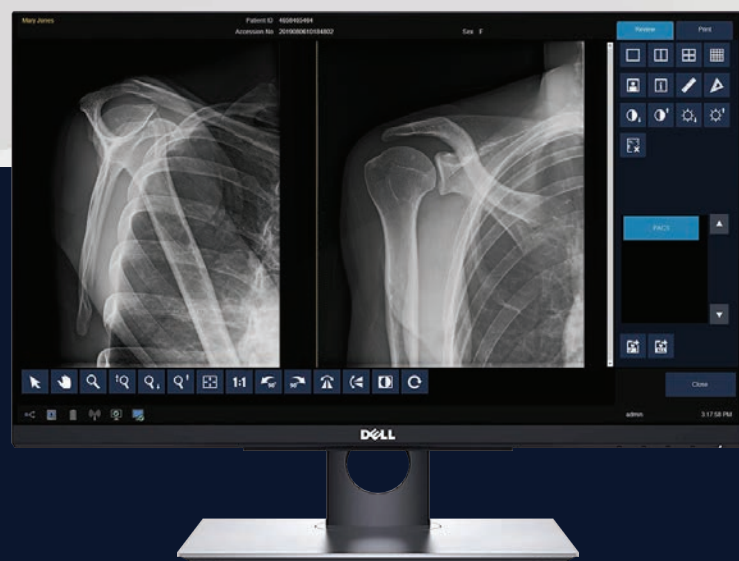
The OTC18M ceiling-mounted tube crane highlights an advanced, technologist-friendly touchscreen console providing seamless operation of your radiographic system by displaying tube angulation, SID values, and customizable generator controls. Color-coded movement identification buttons help to provide optimal precision when setting up views. Smooth and effortless movements with an electromagnetic braking system enable fast and secure readjustments of the tube head. Its five-tier telescoping column delivers exceptional vertical movement of 71 in (180 cm), capable of performing complete head-to-toe radiographic procedures including upright weight bearing and recumbent tabletop exams.

User-Friendly Accessibility

A conveniently placed all-lock release sensor is located just above the bottom section of the tube head handle. This sensor enables rapid manual positioning by allowing the user to grab the bottom handle to unlock the system and make swift readjustments.

Auto-Collimation

Accelerates patient positioning and reduces radiation exposure by automatically selecting the proper field-of-view for each body part. This feature is available through the DELWORKS DR acquisition software's pre-programmed APR settings.



Powerful Integration

The OTC18M system is powered by a compact and robust CMDR generator, available in 40, 50, 65 and 80 kW models. The generator is fully integrated with the DELWORKS DR Workstation, creating a streamlined workflow and enhancing dose efficiency.





- 1** **10.4" Touchscreen Display**
 Patient side display of system status, SID, tube angle, and collimation. Selectable controls for workstation, generator settings, AEC, and tracking.
- 2** **Lock Release Buttons, Including Column Rotation**
- 3** **All Locks Release Sensor at Main Handle**
 Longitudinal, Transverse, Vertical movement with grab-and-go convenience
- 4** **Collimator Light is Automatically Activated with Tube Movement**
 Or by pressing any movement button

System Overview

COMPONENTS

EV800 Elevating Four-way Float Top Table

The durable EV800 elevating four-way float top table delivers outstanding safety and usability. Featuring a four-point lift system and exceptionally quiet motor-drive, its smooth, scratch resistant table top lowers to a height of just 22 in (56 cm) to ensure stress-free patient transfers and adjustments. Offering a high patient weight capacity of up to 800 lbs (363 kg), stable continuous movement is possible through conveniently placed recessed foot treadles and table-side controls, suitable for increasing technologist performance and satisfaction.



Table Side Handgrips

These sturdy handgrips can be mounted along the entire length of both sides of the tabletop to enhance patient safety.



Lateral Cassette Holder

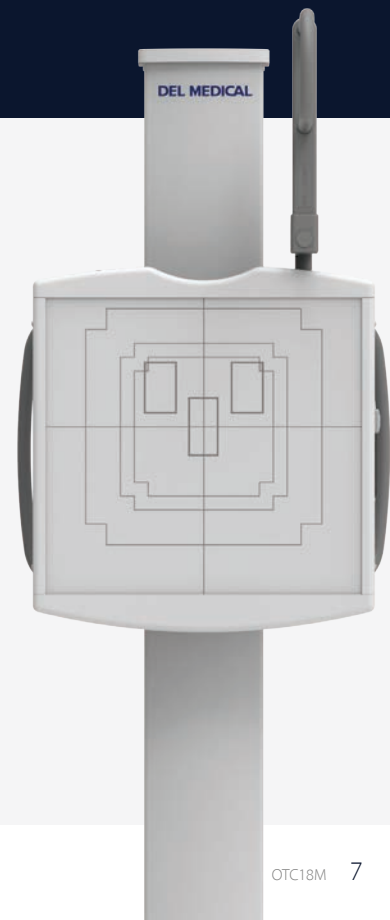
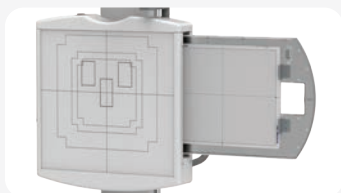
This adjustable holder can be mounted along both sides of the tabletop allowing for access to a variety of cross-table lateral views.

*Available Options

VS300 Wall Stand

The reliable VS300 wall stand utilizes electromagnetic 'fail-safe' locks to maintain operator confidence throughout the imaging procedure. Full receptor movement to the floor, patient-side handgrips and optional overhead handgrips promote efficient upright exams without placing unnecessary strain on the patient.

Designed for convenience, the VS300 technologist handgrip permits ergonomic vertical travel by angling with the operator's wrist as the image receptor is raised or lowered.



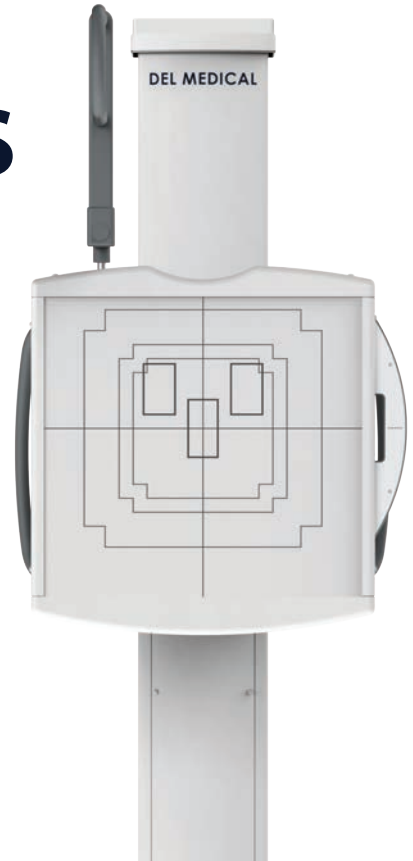
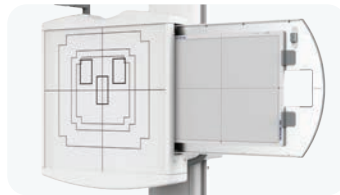
System Overview

OPTIONAL COMPONENTS

VT300 Tilting Wall Stand

Experience enhanced comfort and precision with the VT300 wall stand, showcasing a state-of-the-art tilting image receptor for standing or seated examinations. Each adjustment is meticulously counterbalanced, ensuring a seamlessly smooth operation that requires minimal effort from the technologist.

The VT300 stands out for its universal accommodation, welcoming users of all sizes and strengths to enjoy unparalleled flexibility and ease of use.



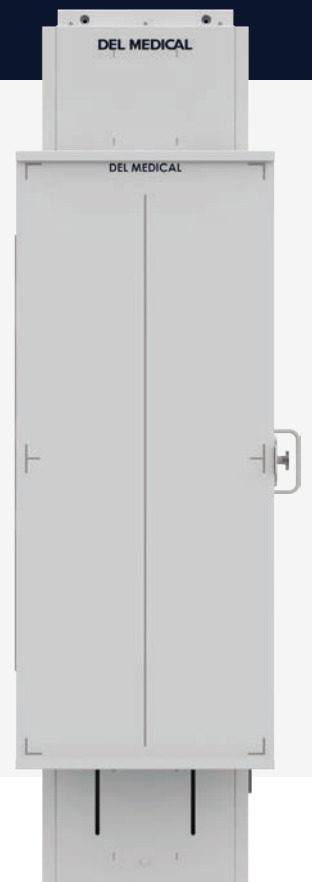
Rotating Tray

The easy-to-use rotating tray enables manual rotation of the DR detector for use inside both table and wall stand. The stable one-handed operation supports fast portrait-to-landscape positioning without ever removing the detector from the tray. Fully extended steel slides activate locking mechanisms to assure detector protection when loading and unloading. Designed to accommodate a wide array of ISO 14 x 17 in (35 x 43 cm) cassette-sized detectors.

*Available Options

VS50 Long Length Wall Stand

The DEL MEDICAL VS50 wallstand safely houses the DELWORKS LLI detector for long length and routine upright exams with the OTC18M. Because the LLI may be exposed anywhere on the 17x42 in (43x107 cm) detector, this may be the only wallstand in the room, or used as a second wallstand for only long-length exams. The VS50 features a positive mechanical lock, requiring no power, and has a fully concealed counterbalance for easy vertical motion. It has a full range of vertical motion moving the active area from 1.5 in (3.8 cm) to 81 in (205.7 cm) above the floor.



Software Overview

DELWORKS

DELWORKS is a powerful image acquisition and processing software featuring a user-friendly interface that provides sophisticated and speedy medical imaging. Designed with complex system automation, DELWORKS aims to simplify the examination process by making the difficult decisions for you.

Advanced anatomical programming and image processing algorithms help optimize technologist productivity. DELWORKS strives to minimize human error and unwanted repeat exams to give technologists the highest quality image and lowest dose, with every exposure.

Software Features

- ▶ Pre-exposure display of patient and procedure information, x-ray generator exposure factors, status and control functions integrated in a single display screen
- ▶ Positioning guide: queues proper positioning for each view
- ▶ Deviation Index (DI) and Exposure Index (EXI): standard reporting to assist in dose minimization
- ▶ Exam-specific image processing algorithms automatically optimize images based on selected patient anatomy
- ▶ Automatically Programmed Radiography (APR) specific default values with manual adjustment
- ▶ Free image rotation and 90° steps, horizontal mirroring, automatic and manual image cropping to collimated area
- ▶ Optional stitching application requires zero unnecessary preprogramming or additional equipment
- ▶ Easy verification and correction of image laterality and patient orientation
- ▶ Intuitively add orientation markers and text comments directly to acquired images (pre-defined or text free)
- ▶ PCCC tool applies enhanced processing to images for better visualization of leads, lines or tubes
- ▶ Effective management, analysis, and reporting of rejected images
- ▶ Detailed histograms of pixel density
- ▶ User selection of modified LUT (Look-Up Table) based on various exam types
- ▶ Measurement tools: full array of standard and specialty tools
- ▶ Manual adjustment of the LUT, window and level



An Array of Workstations

System comes with standard Windows 11 workstation and a 24 in monitor. May also add or substitute a laptop or tablet workstation.

DELWORKS PREMIUM DETECTORS



E24Cw₂

Ultra-light, glass-free portable
10 x 12 in (24 x 30 cm)
Cesium wireless detector for pediatric or imaging of smaller body parts



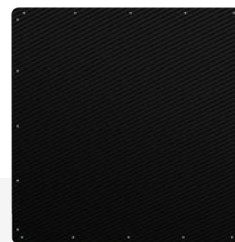
E14Cw₂

Ultra-light, glass-free portable 14 x 17 in (35 x 43 cm) Cesium wireless detector for excellent image quality and flexibility



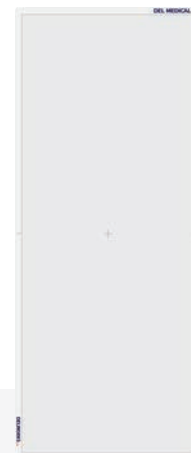
E17Cw₂

Large format glass-free 17 x 17 in (43 x 43 cm) Cesium detector, fixed in the vertical wall stand or table providing the maximum imaging area with fast, wireless image transfer



E17C

Large format 17 x 17 in (43 x 43 cm) Cesium detector, fixed in the vertical wall stand or table providing the maximum imaging area with fast, wired image transfer



LLI

Monolithic (one piece), 17 x 42 in (43 x 107 cm), Cesium wireless and portable detector designed for full spine and leg imaging in a single exposure

EasyConnect

DELWORKS wireless detectors feature EasyConnect — an Auto Exposure Detection (AED) technology that keeps the detector in a standby mode, awaiting exposure from any x-ray source. Once an exposure is detected it instantly captures the x-ray image and transmits it wirelessly to the system workstation.

EasyShare

Detectors can be shared between multiple DELWORKS workstations, enhancing workflow, equipment utilization and economic feasibility.

Some examples for reference:

- Sharing an E14Cw₂ detector between the MDR mobile and OTC or FMT Radiographic Suite
- Sharing an E14Cw₂ and an E24Cw₂ detector between any DELWORKS in-room workstation and a DELWORKS FIT mobile workstation for imaging on the go



CyberSecurity

To provide exceptional patient care without interruption, it is critical for health care providers to have a secure environment, protected against cyberthreats such as viruses or ransomware. UMG/DEL MEDICAL takes our partnership in this seriously and is committed to providing safe, reliable, and secure systems. We deliver product security that helps you achieve compliance with Health Insurance Portability and Accountability Act (HIPAA). Together, we can increase security and privacy.

OTC18M

TECHNICAL SPECIFICATIONS

Room Height (Standard):	105 - 119 in (267 - 302 cm)
Room Height (w/ Optional Telescopic Extension):	105 - 127 in (267 - 322 cm)
Vertical Telescopic Travel Range:	70.8 in (180 cm) with minimum 32.7 in (83 cm) focal spot to ceiling distance 15.5 in (39.4 cm) focal spot to floor distance with a 9' ceiling height
Longitudinal Travel Range:	14 ft rail (standard): 136 in (346 cm) Rail extensions (optional): 220 in (558.5 cm)
Transverse Travel Range:	10 ft (3 m) track (standard): 86.6 in (220 cm) 13 ft (4 m) track (optional): 140 in (355 cm)
Logitudinal Detent Positions:	Configurable during installation
Tube Rotation Range (Horizontal Axis):	-120°, +120°, detent positions at -90°, 0°, +90°
Tube Rotation Rotation Range (Vertical Axis):	-182°, +154°, detent positions at -180°, -90°, 0°, +90°
Locks:	All Lock Release sensor on bottom handle to release transverse, longitudinal, and vertical locks Individual membrane lock releases <ul style="list-style-type: none"> - Roll Lock - Column Rotate - Longitudinal - Transverse - Vertical - Vertical / Longitudinal / Transverse
Weight:	Tube crane: 507 lbs (230 kg) 10 ft (3 m) transverse bridge: 154 lbs (70 kg) 13 ft (4 m) transverse bridge: 198 lbs (90 kg) Longitudinal rails: 59 lbs (26.5 kg)
Options:	- Manual collimator - DAP (Dose Area Product) - Full system integration (with or without generator control)

EV800 Elevating Table

Load Capacity (Dynamic):	800 lbs (363 kg)
Table Base Length:	53 in (135 cm)
Table Base Width:	25 in (64 cm)
Tabletop Movement:	Longitudinal, ± 19.75 in (50 cm) Transverse, ± 6.5 in (16.5 cm)
Variable Height:	22.25 in (56.5 cm) to 34.25 in (87 cm)
Bucky Travel:	± 8.5 in (22 cm)
Tabletop-to-Film Distance:	3.2 in (8 cm), upper position for special applications 2.7 in (6.9 cm)
Tabletop Beam Attenuation:	Standard table (<0.7 mm aluminum) Carbon fiber (<0.4 mm aluminum)
Tabletop Length:	78 in (198 cm) / 86.5 in (220 cm)
Tabletop Width:	32 in (81 cm) / 36 in (91 cm)
Weight:	Table base: 563 lbs (256 kg) 32 x 78 in: 130 lbs (59 kg) 32 x 86 in: 132 lbs (60 kg) 36 x 78 in: 141 lbs (66 kg) 36 x 86 in: 146 lbs (64 kg)

VS300 Wall Stand

Height / Vertical Travel:	83 in (211 cm)
Depth:	13.5 in (34 cm)
Receptor Width:	24.7 in (62.7 cm)
Receptor Height:	26.5 in (67.2 cm)
Front Panel Aluminum Equivalency:	0.4 mm
Weight (with Receptor):	250 lbs (91 kg) standard grid cabinet

VT300 Wall Stand (Optional)

Receptor Tilt Range:	+90° / -20°
Vertical Travel Range, Vertical Receptor:	15.5 - 71.1 in (39.4 - 180.6 cm)
Vertical Travel Range, +90° Receptor:	Minimum 25.5 in (64.8 cm)
Height:	82.24 in (208.9 cm)
Depth, Vertical Receptor:	30.17 in (76.6 cm)
Depth, +90° Receptor:	40.1 in (101.9 cm)
Receptor Width:	26.5 in (67.2 cm)
Receptor Height:	26.5 in (67.2 cm)
Weight:	765.5 lbs (347.2 kg)
Weight, without Counterweights:	368.5 lbs (167.2 kg)

VS50 Wall Stand (Optional)

Height:	78.36 in (199 cm)
Depth:	7.59 in (19.3 cm)
Receptor Width:	19.12 in (48.56 cm)
Vertical Travel:	37.5 in (95 cm)
Weight (Without Grid, Detector, and Lead Backer):	200 lbs (90.7 kg)
Options:	Grid

Generator

1-Phase:	40 kW
3-Phase:	40 / 50 / 65 / 80 kW

X-Ray Tube

Options:	230 / 300 / 350 / 400 / 600 / 600 / 800 kHU
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Power Requirements

System (DM-PSI):	115 / 230 - 240 VAC, 50 / 60 Hz, 15A
OTC18M Tube Crane:	24 VDC 8A (supplied by the DM-PSI)
EV800 Table:	120 / 230 / 240 VAC, 50 / 60 Hz, 10A (supplied by the DM-PSI)
VS300 Wall Stand:	24 VDC 8A (supplied by the DM-PSI)
VT300 Wall Stand:	24 VDC 8A (supplied by the DM-PSI)
VS50 Wall Stand:	None required
Generator:	Generator specific (see generator documentation)

DEL MEDICAL



#9000-OTC18M Rev. D

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