



Definium™ X-ray Overhead Tube Suspension (OTS) Systems

Fixed Radiography Portfolio Guide

Rely on our digital X-ray systems to bring your radiography department effortless workflow and clinical excellence to meet your needs.

Radiography departments must provide an increasingly exceptional patient experience, even as demand continues to rise. Our X-ray solutions help to increase consistency while providing a positive experience for staff and patients.



Definium™ 656 HD



Definium™ Tempo Pro



Definium™ Tempo Plus



Definium™ 646 HD



Platform and Applications



Offering a range of capabilities and configurations to optimally match your clinical needs

- Included
- Option

| Capability | Definium 656 HD | Definium Tempo Pro | Definium Tempo Plus | Definium 646 HD | Clinical Importance |
|-----------------------------|-----------------|--------------------|---------------------|-----------------|---|
| GE X-ray Common UI | ● | ● | ● | ● | A common user interface across the X-ray fleet means less training for new technologists and easier cross-training |
| GE Remote Service | ● | ● | ● | ● | A secure connection to GE's expert service and support teams for fast investigation and resolution of issues |
| GE X-ray Image Chain | ● | ● | ● | ● | High-power tube and generator options to enable high patient throughput and advanced exams |
| Flashpad HD Detector | ● | ● | ● | ● | High resolution and durable wireless detector that can be shared between compatible GE X-ray systems |
| Helix™ Image Processing | ● | ● | ● | ● | Advanced image processing to deliver outstanding clarity and extraordinary anatomical detail across image types |
| IT Security Package | ○ | ● | ● | ○ | Protect and encrypt data at rest and in transit. Anti-Virus protection against new threats |
| Live Streaming Video | ○ | ● | ● | ○ | High-definition live video for improved patient monitoring and avoidance of repeat X-rays caused by motion / positioning issues |
| Remote SW Download | | ● | ● | | Ability to download and install critical quality and cybersecurity software updates with minimal system downtime |
| Dual Energy Subtraction | ○ | ○ | ○ | ○ | Separates soft tissue and bone structures to allow detection of abnormalities possibly obscured in a conventional radiograph |
| Critical Care Suite | ○ | ○ | ○ | ○ | World's first on-device artificial intelligence (AI) solution that can help triage critical conditions such as pneumothorax |
| Quality Care Suite | ○ | ○ | ○ | ○ | Conducts AI-based automated quality checks to detect errors in the X-ray acquisition and processing |
| Remote Control Option | ○ | ○ | ○ | | Ability to control, via remote control, auto positioning of the OTS and wall stand elevation for patient positioning |
| Intelligent Workflow Suite | | ○ | ○ | | Camera-based applications that guide and assist technologist workflow to potentially reduce errors that lead to repeats |
| Angulated Image Paste (WS) | ○ | ○ | ○ | | Fast, precise and highly automated, seamless long bone and spine image stitching at the wall stand |
| Angulated Image Paste (TBL) | ○ | | | | Image stitching enabled for patients on the table with tube angulation |
| VolumeRAD | ○ | | | | Digital Tomosynthesis providing additional diagnostic information with multi-level image slices |



Overhead Tube Suspension



Providing a range of automation and enhanced workflow features to speed exam set up and enable effortless patient positioning

| Capability | Definium 656 HD | Definium Tempo Pro | Definium Tempo Plus | Definium 646 HD | Clinical Importance |
|-------------------------|------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|--|
| Axis Motorization | 5ax | 4ax | 2ax | 1ax | Increased motorized movement provides greater automation to increase efficiency and decrease manual movement stresses |
| Auto-collimation | ● | ● | ● | ● | Ability to automate collimation settings for each anatomy or chose from a library of presets |
| Manual Operation Mode | ● | ● | ● | ● | Ability to easily and quickly manually position the tube head into the desired position |
| Configurable Detents | ● | ● | ● | ● | Configure the position of the detent electronically in the software |
| Vertical Auto Tracking | ● | ● | ● | ● | Tube head will maintain SID and alignment with the detector when table or wall stand is moved vertically |
| Tube Auto Angulation | ● | ● | ● | | Ability to auto-rotate the tube head to desired angles rather than manual rotation |
| Auto Positioning | ● | ● | | | Ability to automatically move the tube head to predefined positions related with the exam protocol selected |
| Column Auto Rotation | ● | | | | Ability to set column rotation into the auto-positioning presets for unique positions such as wheelchair |
| 6" Touch In-Room UI | ● | | | ● | Basic workflow controls in exam room such as patient ID, technique adjustment, and preset collimation |
| 12" Touch In-Room UI | | ● | ● | | Complete in-room workflow control from patient selection to positioning to protocol additions or changes |
| Vertical Travel Range | 180 cm | 160 cm | 160 cm | 180 cm | Increased vertical travel range enables taller patients to be imaged in a standing position |
| Column Rotation Detents | Continuous | 16 | 16 | 12 | A higher number of column rotation detents makes precise positioning easier and more granular for cross-table examinations |
| Cable Management | Cable Chain with Fiber Hose | Cable Chain with Plastic Hose | Cable Chain with Plastic Hose | Cable Drape with Fiber Hose | Neat cable routing for better room layout plan and patient safety |

- Included
- Option



Designed with patient safety, comfort, and dignity in mind

| | |
|------------|----------|
| ● Included | ✓ Good |
| ○ Option | ✓ Better |
| | ✓ Best |

Patient Table

| Capability | Definium 656 HD | Definium Tempo Pro | Definium Tempo Plus | Definium 646 HD | Clinical Importance |
|----------------------------|-----------------|--------------------|---------------------|-----------------|---|
| Universal Rotating Housing | ● | ● | ● | ● | Fits all FlashPad HD detectors and minimizes drops, by allowing in-housing rotation with continuous charging and data transfer |
| Detector Tracking | ● | ● | ● | ● | Detector housing automatically aligns its position to FOV changes caused by OTS longitudinal movement or angulation |
| Manual Housing Alignment | ● | ● | ● | ● | Ability to override the automatic alignment and manually position the detector housing |
| 2-Way Floating Top | ● | ● | ● | ● | Ability to float the tabletop with the patient loaded for easier alignment of desired anatomy to detector center |
| Table Lock Button | ● | ● | ● | ● | Button locks and unlocks all table motion to ensure safe patient loading and unloading from the table |
| Double Tap Peddles | ● | ● | ● | ● | Double tap peddles reduce the risk of accidental activation of table motion during patient loading |
| Minimum Table Height | ✓ Best | ✓ Better | ✓ Better | ✓ Better | Lower minimum table height simplifies patient loading and unloading, particularly from a wheelchair |
| Tabletop Patient Coverage | ✓ Best | ✓ Better | ✓ Better | ✓ Good | Larger coverage simplifies anatomy and detector alignment with less need to physically move patient |
| Vertical Elevation Speed | ✓ Best | ✓ Better | ✓ Better | ✓ Good | Faster elevation speed reduces the wait time to position the table for patient loading and unloading |
| Housing Travel Range | ✓ Best | ✓ Good | ✓ Good | ✓ Good | Longer travel range means detector can positionally track with the OTS over a longer range, potentially simplifying positioning |
| Fully Flat Tabletop | ● | ● | ● | | A fully flat tabletop surface smooths patient loading, particularly from a stretcher and simplifies cleaning |
| Bariatric Table | ● | ● | ● | | Maximum patient weight at least 350 kg to enable bariatric patient loading |
| Proactive Pinch Sensors | ● | | | | Infrared sensors detect patient fingers near detector housing and proactively stop motion |
| Rear Peddle Option | ○ | ○ | ○ | ○ | Ability to have peddles on both sides of table, enabling faster workflow for all technologist positions |



Wall Stand



Flexibly designed to accommodate varied room layouts and clinical applications

- Included
- Option

| Sytem | Motorized Extended Arm Tilting Wall Stand | Motorized Standard Arm Tilting Wall Stand | Motorized Non-tilting Wall Stand | Manual Non-tilting Wall Stand |
|---------------------|---|---|----------------------------------|-------------------------------|
| Definium 656 HD | ○ | ● | | |
| Definium Tempo Pro | ○ | ○ | ● | |
| Definium Tempo Plus | ○ | ○ | ● | |
| Definium 646 HD | | | | ● |

| Capability | Motorized Extended Arm Tilting Wall Stand | Motorized Standard Arm Tilting Wall Stand | Motorized, Non-tilting Wall Stand | Manual, Non-tilting Wall Stand | Clinical Importance |
|-----------------------------|---|---|-----------------------------------|--------------------------------|---|
| Universal Rotating Housing | ● | ● | ● | ● | Common housing fits all FlashPad HD detectors, allows persistent charging and provides in-housing rotation, thus decreasing the chances the detector is dropped |
| Large Vertical Travel Range | ● | ● | ● | ● | A large vertical travel range enables taller patients to be imaged in a standing position |
| OTS Detector Tracking | ● | ● | ● | ● | Tube head will automatically move to maintain alignment with the wall stand when the wall stand is moved vertically |
| Reverse Tracking | ● | ● | ● | | Wall stand will automatically move to maintain alignment with tube head when tube head is moved vertically ¹ |
| Positioning Display | ● | ● | | | Visual display of vertical position and tilt to help with tube and detector alignment |
| Status Light | ● | ● | | | Visual indication to the technologist to communicate system readiness for exposure |
| Tilt Functionality | ● | ● | | | Ability to tilt the wall stand to a complete horizontal position for simplified extremity imaging |
| Stretcher Support | ● | | | | Extension of detector away from wall stand positioner for easier positioning with stretcher patients |
| Fourth Ion Chamber | ● | | | | A fourth ion chamber allows for alignment to chest anatomy for patients on a stretcher table |

¹Only available for the Definium Tempo product line



Building a world that works

About GE Healthcare:

GE Healthcare is the \$18 billion healthcare business of GE (NYSE: GE). As a leading global medical technology and digital solutions innovator, GE Healthcare enables clinicians to make faster, more informed decisions through intelligent devices, data analytics, applications and services, supported by its Edison intelligence platform. With over 100 years of healthcare industry experience and around 50,000 employees globally, the company operates at the center of an ecosystem working toward precision health, digitizing healthcare, helping drive productivity and improve outcomes for patients, providers, health systems and researchers around the world.

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