DK, the Best Healthcare Company

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DKMKT-BC-003(Innovision-EXII)

DK Medical Systems

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Digital Radiography System

INNOVISION - EXII

Digital Radiography System

INNOVISION - EXII

Superiority and Efficiency of the Ultimate Versatile System

The new-generation INNOVISION-EXII powered by Flat-Panel Detector covers the complete spectrum of clinical requirements and drastically reduces redundant work steps. Thus, it greatly optimizes the workflow, leading to higher performance.
INNOVISION-EXII has realized the safe, easy, and fast acquisition of clear radiographic images and low levels of radiation dose.
Its unprecedented ease-of-use networking, combined with DICOM 3.0, enables a streamlined workflow through seamless, effective data transfer.
Its refined total design package for real-time diagnosis can be translated into an ideal working condition.

Digital Imaging...

Digital Imaging offers significant advantages to medical radiology, from top-quality images produced almost instantaneously to easy image processing, transmission, and storage. Superb high-quality images for more precise diagnosis as well as immediacy of viewing the images provided by the flat-panel detector are noteworthy clinical advantages in the radiographic field. Digital radiography allows the operator to use various image-processing functions, such as changing the contrast (to a lighter or darker one), enlarging images, and placing color enhancements on images. All these features facilitate detection for any kind of diagnosis that needs immediacy and effectiveness. Thus, digital imaging makes every step of radiography less complicated both for the operator and for the patient, realizing its ultimate concept - easier, simpler, cleaner, and definitely faster operation compared to the conventional radiography.

Quick and Easy Preparation for Examinations

Soft Handling for Ceiling-mounted X-ray Tube Support

Smooth manual moving

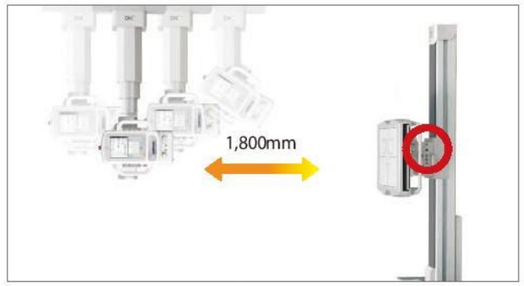
Long vertical stroke

End Study Button

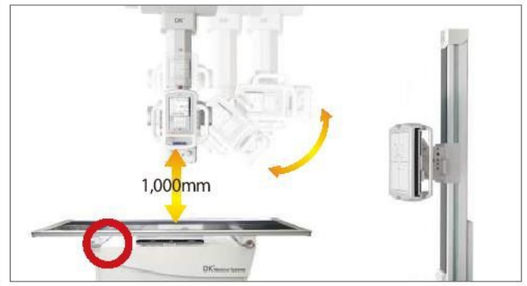
When the End Study Button on the menu is pressed after the check, the tube support automatically rises and the table goes down so that patients can easily get down from the table without running into the device when pushing themselves up. Such End Study Button increases work efficiency by making operators able to care for patients better after the check.

Call Buttons for the Registered Position

Once the call button is pressed on wall bucky stand or table, regardless of where the ceiling support is located, each of them moves to their position in accordance with detector's center and makes it quick and convenient.



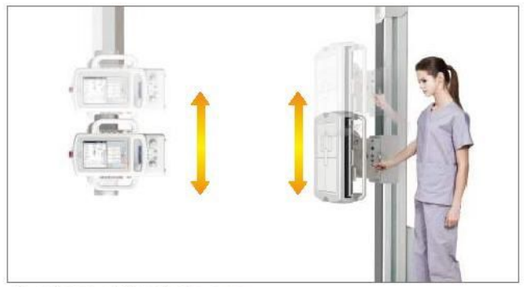
Call button for wall bucky stand



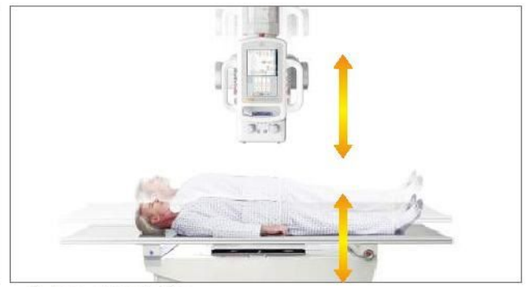
Call button for table

Ceiling Suspended X-Ray Tube Support Linked with a Bucky Stand and Table

The focal spot of the X-ray tube unit can be moved up and down in conjunction with vertical movement of the bucky stand and table. For a supine-positioned patient, the X-ray tube automatically moves to a preset SID, enabling precise and fast positioning.



Synchronized for chest exams



Auto-synchronization

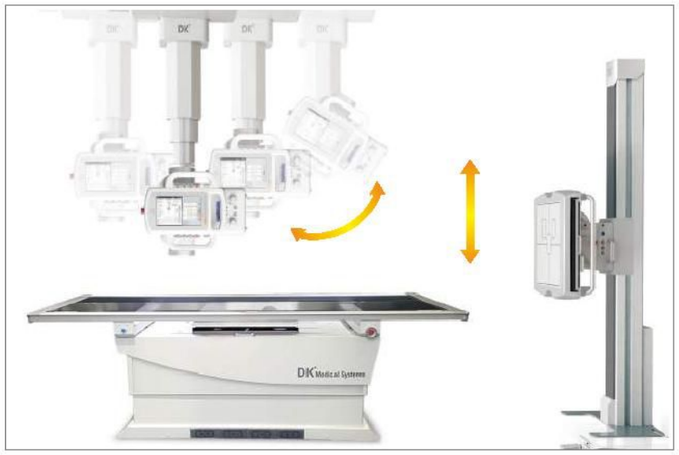
Detector Unit Synchronized to the Ceiling-Mounted X-ray Tube Support

The longitudinal travel of the detector can be easily synchronized. The synchronization between the X-ray field and the detector enables fast positioning for complex exams like oblique radiography.

Automatic Positioning for Flexible and Versatile Applications

Auto-positioning for Patient Comfort and Safety

The ceiling-mounted X-ray tube support automatically moves to the registered position with a single button press, relative to the bucky stand and table. The SID and X-ray tube angle change automatically, enabling easy tube support preparation and stowage, and ultimately realizing a remarkably efficient workflow. Manual positioning is also available for high-precision positioning.



Auto-positioning

Remote controller

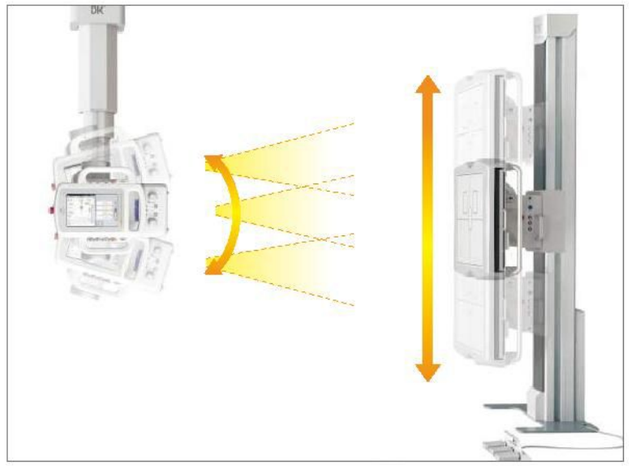
Auto positioning is a more high advanced type of automation. It includes the syncing you get from auto tracking, but also moves both the tube head and the bucky into position based on pre-programmed position from the systems console. The intent of auto positioning is to increase workflow by allowing the user to input their studies for the day in advance so, at the push of a button, the X-ray system can move itself between studies and be in position before the patient even gets into the exam room.

Advanced Imaging Applications

Auto-stitching Images for Full spine and Long bone

Auto-stitching (optional)

INNOVISION is very easy to use with auto-stitching images at not only wall bucky stand but also table examination. It makes long bone examination fast and convenient.



While swinging the X-ray tube and moving FPD, Images are captured through Elui image-stitching together with greater speed and precision.

Clinical Benefits of Full Spine Imaging

Patient Stand

Visualize the complete spine by easily combining images with Elui image-stitching software

Orthopedic diagnosis will benefit from this innovative application software in areas such as the assessment of scoliosis. Potential applications include, for example, accurate measurement of spine angles and distances between anatomic entities, assessment of the evolution of therapy over time, identification of orthopedic surgery indications.

Ergonomic Design for High-Performance and Easy Operation

Bucky tilt allows horizontal positioning for upper extremity studies

Tiltable Bucky Stand (-20°~ 90° tilting angle)

Equipped with a tilting FPD unit, which accommodates wide-range positioning to meet all patient ranges and studies.
Combined with the ceiling-type X-ray tube support, the collimator self-adjusts according to the SID.
Compactly designed for the easy examination of a seated patient.

Elevating Horizontal Radiographic Table

The four-way floating top and electromagnetic locks enable easy positioning. It features both a highly rigid design and a durable shock-absorption mechanism.

Software

Optimized Image Processing Software

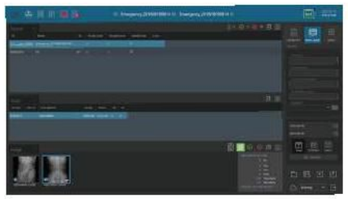
ELUI is the advanced image-processing software optimized the digital radiography. Using ELUI, X-ray exposure and image parameters can be adjusted conveniently on the main screen. After the exposure, captured image will be transferred and be checked immediately through the monitor (within 3 sec through wired detector). This benefit can speed up the workflow and save the time. With ELUI image processing software, you can see and diagnose the patient condition in right time, making better medical condition.

Powerful User Interface
- All in one work flow
- Display Device information

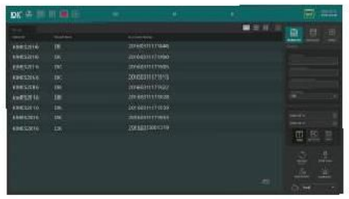
Advanced Post Processing Image
- Superior Noise Processing
- Optimized Image Processing

Fine Image Rotation
- Support Micro rotation (1 degree)
- 90 degree rotation

Easy Tools
- Eidetic Icon
- Convenience Motion (Pan/Zoom/windowing)



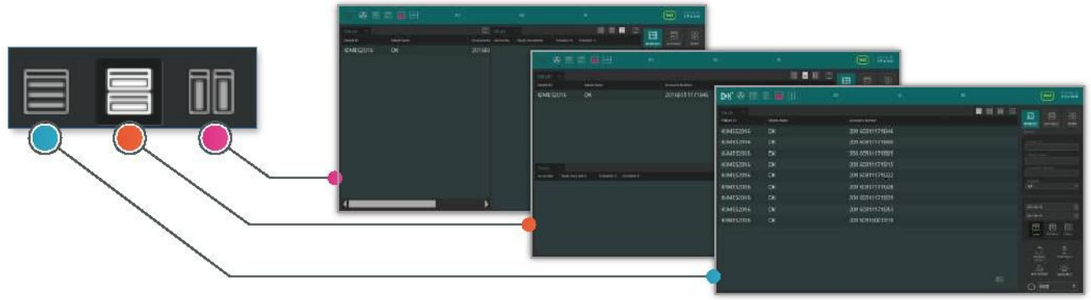
Easy Stats Report
- Support Statistical analysis function
- Export image



Patient Worklist
- Support Modality worklist
- Easy emergency study

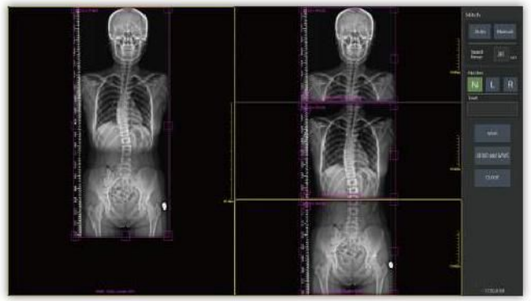
Friendly User Interface

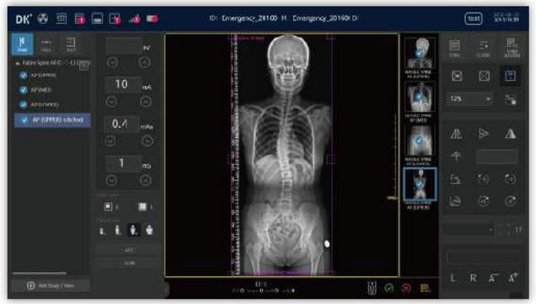
Elui has very friendly User Interface. Operator will change three worklist window to meet them.



Stitching

This stitching module allows you to stitch up to several images automatically, perform measurement and send DICOM compliant image to a printer and/or PACS.





System Configuration Example

Remote Service

- Remote Access Software included (Allow for Web-Based Remote Dial-up Support)
- Download files and Maintenance instructions. Transfers files between the workstation and a service representative