



**Kodak**  
DirectView  
DR 3500 System

Where simplicity meets  
high performance



## **Kodak** DirectView DR 3500 System

### Easy to use. Easy to rely on!

Step up to DR technology with the KODAK DIRECTVIEW DR 3500 System. This powerful multipurpose system is designed to handle a full range of general radiography procedures. With its simple design, space-saving footprint, and advanced “ease of use” features, the DR 3500 System can enhance departmental workflow, productivity, and the quality of patient care.



The KODAK DIRECTVIEW DR 3500 System is a high-performance, fully motorized, multipurpose DR system designed for hospitals, satellite facilities, imaging centers, and orthopaedic clinics. Its versatile “3-in-1” room design is capable of handling a variety of image capture options including:

- ▶ Upright—chest, wheelchair chest, lateral cervical spine, standing knee.
- ▶ Table—horizontal (including cross-table) projections of supine patients.
- ▶ Angled—submentovertex (SMV) skull, PA (15°) Caldwell skull, superoinferior axial nasal bones, and more.

This fully motorized, versatile single-detector system delivers the productivity of digital radiography in an easy-to-use, space-saving floor-mounted system. The arm maintains constant alignment between the x-ray tube and the detector for easy and fast patient positioning.

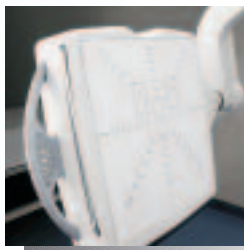
Additionally, the DR 3500 System uses the same flat-panel digital image capture technology and sophisticated Carestream Health image processing software provided with all KODAK DIRECTVIEW DR Systems to help ensure the same outstanding image quality customers have come to expect from Carestream Health.

The DR 3500 System is fully supported by Carestream Health’s team of service experts worldwide to help ensure successful system implementation, peak performance, and improved patient care.

## Easy to use

The KODAK DIRECTVIEW DR 3500 System utilizes the same intuitive interface provided with all KODAK CR and DR systems for simple, consistent user operation. User-friendly control panels are conveniently located at both the Bucky and the tube side of the arm. Multiple touch-screen operator interfaces display a wide variety of system and patient information.

- ▶ Auto-positioning feature (optional) provides extended functionality. With a single button the equipment can be placed in multiple standard and configurable preprogrammed positions.
- ▶ Simple improved keypads on the tube head, the Bucky and the handheld remote control device are designed to control all system movements.
- ▶ Touch screen user interface on the positioning-arm controls auto positioning functionality and exposure parameter changes—simply and easily.
- ▶ Motorized Bucky tilting feature enables angled projections.
- ▶ Two-speed motorized positioning arm reduces effort and improves efficiency.
- ▶ Grids are easily removed and replaced.
- ▶ Large image area (43 x 43 cm) eliminates the need to rotate the detector.
- ▶ Collimator filters can be selected with the push of a button—no manual insertion required.
- ▶ Emergency system stop buttons, pressure sensors and infrared sensors on the positioning arm and Bucky help assure the safety of operators and patients.





## Adaptable—and friendly

The space-saving design of the DR 3500 System ensures that it can be placed in almost any room.

- ▶ System installation is simplified; time and costs are reduced.
- ▶ The floor-mounted stand holds both the x-ray tube and the Bucky.
- ▶ Freestanding—no need for ceiling suspension provisions or wall mounts.

## Superb image quality

The KODAK DIRECTVIEW DR 3500 System is designed to provide high quality images using a cesium iodide flat-panel detector and proprietary image processing software.

- ▶ Large detector pixel matrix (3000 x 3000) with 143 micron pixels captures sharp, detailed images with high DQE and low noise.
- ▶ Unique KODAK DIRECTVIEW Image Processing Software (the same software used in all KODAK DIRECTVIEW DR and CR Systems) produces superb image quality.





## One space-saving console controls all imaging functions

The fully integrated KODAK DIRECTVIEW DR System Operator Console puts high performance at the operator's fingertips to help improve workflow, productivity, and patient care. From a single console, an operator can:

- ▶ Control all imaging functions—including HIS/RIS patient data access, x-ray generator, and image review and management.
- ▶ Optimize grayscale display and apply examination-specific nonlinear edge enhancements using KODAK DIRECTVIEW PTS Software. Optional KODAK DIRECTVIEW EVP Software takes image quality and diagnostic confidence to an even higher level.
- ▶ Toggle between examinations for reduced patient repositioning; add views and studies as needed.

The KODAK DIRECTVIEW DR System Operator Console utilizes the same intuitive, touch-screen user interface found in all KODAK DIRECTVIEW DR and CR Systems for simple user operation. This consistent “look and feel” helps reduce training times and boosts productivity.

## Count on Carestream Health service and support

Rely on Carestream Health's team of experts for timely, dependable DR 3500 System service and support.

- ▶ Count on Carestream Health's secure remote diagnostic capabilities to help resolve issues promptly, optimize DR System uptime, reduce service calls, and expedite service.
- ▶ Leverage Carestream Health's team of more than 1,700 service professionals worldwide to help ensure successful and efficient system implementation for peak performance and improved patient care.
- ▶ Benefit from the knowledge and experience of the Carestream Health professional services team to provide comprehensive support ranging from site planning, time effective training and project management to DICOM and integration services.



## High-performance software options

Additional software options further enhance image quality and workflow.

- ▶ KODAK DIRECTVIEW EVP Software extends image latitude without loss of detail contrast.
- ▶ KODAK DIRECTVIEW Capture Link System integrates up to five KODAK DIRECTVIEW DR and/or CR Systems for improved workflow when a study includes DR and CR images.
- ▶ KODAK DICOM Work List Management Service Class User Software eliminates manual data entry by enabling patient data to be obtained directly from a HIS/RIS system.
- ▶ IHE Scheduled Workflow Software automatically notifies the HIS/RIS of exam status to maintain consistent patient and ordering information.



## Practical accessories

- ▶ The DR 3500 System accommodates a wide variety of popular mobile radiographic tables used in healthcare facilities around the world.
- ▶ Foot stand helps patient positioning for lateral exams.
- ▶ Two-way intercom provides convenient radiographer-patient communications.

## A complete digital solution

Carestream Health offers a broad range of high-quality digital imaging and information solutions.

- ▶ **KODAK CARESTREAM Radiology Solutions** transcend the traditional lines between RIS and PACS by allowing the radiologist to perform diagnostic duties anytime at any licensed viewing location. This comprehensive desktop unifies RIS and PACS to automate workflow, provide a single virtual desktop along with rich clinical tools for radiologist interpretation, and enable multiple options for results distribution.
- ▶ **KODAK CARESTREAM Information Management Solutions** combine software, non-proprietary hardware, and professional services for consolidation, control, and continuity of archived data. Take your choice of enterprise, hosted, or regional information management solutions to provide efficient access to information where and when it's needed.

## Make the most of your PACS investment with KODAK Digital Capture and output products

- ▶ KODAK DIRECTVIEW CR Systems provide electronic capture, distribution, and archiving of images to improve image availability, reduce image loss and duplication costs, and increase workflow and productivity.
- ▶ KODAK DRYVIEW Laser Imaging Systems deliver exceptional image quality, reliability, and world-class connectivity. This family of dry laser imaging systems is the most comprehensive and popular in the world.

# Kodak DirectView

## DR 3500 System

### Product Specifications

#### Digital Image Capture Device

- ▶ Full-field, flat-panel detector array
  - Cesium iodide x-ray detector
  - Amorphous silicon TFT array
- ▶ 17 x 17-inch (43 x 43-cm) active imaging area
- ▶ 3000 x 3000 effective detector pixel matrix
- ▶ 143-micron pixel pitch
- ▶ 3.5 cy/mm detector Nyquist frequency
- ▶ Dynamic range—14-bit linear
- ▶ DQE
  - 51% at 1.0 lp/mm
  - 40% at 2.0 lp/mm
  - 25% at 3.0 lp/mm
- ▶ MTF
  - 64% at 1.0 lp/mm
  - 33% at 2.0 lp/mm
  - 15% at 3.0 lp/mm

#### Operator Console

- ▶ Controls detector array and x-ray generator
- ▶ Two-position exposure switch allows the radiographer to prep the generator and provides fine control over the exposure time
- ▶ Patient demographic and exam data can be entered via a touch screen, keyboard, or optional HIS/RIS connectivity
- ▶ Anatomical programmed radiography (APR)—operator-programmable x-ray technique for each exam
- ▶ Automatic exposure control (AEC)—operator-adjustable
- ▶ Exam Tutor software for tracking exam completion
- ▶ KODAK DIRECTVIEW PTS (Perceptual Tone Scaling) Software for optimizing x-ray image display via exam-specific algorithms
- ▶ Automatic KODAK Black Surround/Masking Software
- ▶ DICOM 3.0 print and storage service class network output
  - Multiple destination routing
- ▶ 19-inch (48.3-cm) touch-screen, flat-panel monitor

#### Positioner (fully motorized)

- ▶ Vertical travel of arm: 50 in. (126 cm)
- ▶ Variable SID: 40–72 in. (100–180 cm)
- ▶ Rotation of arm: +120 degree / -30 degree
- ▶ Rotation of tube: 45 degree increments (manual)
- ▶ Motorized tilting of Bucky: +/-45 degree
- ▶ Customizable automatic positioning

#### X-ray Generator

- ▶ Output:
  - 80 kW high-frequency output
  - (64 kW available in some countries\*)
- ▶ Range of output:
  - 40 to 150 kVp (1 kVp/step)
  - 0.1 to 500 mAs
  - 10 to 800 mA (10 to 640 mA for 64 kW option)
- ▶ Power:
  - 380/400/440/480 VAC, 3-phase (order proper configuration/region)
  - 50/60 Hz

\*Consult Carestream Health for availability in your region

#### Grid

- ▶ 12:1 or 8:1, Focal distance: optional 100 (40 in.) 130 or 180 (72 in.) cm
- ▶ Stationary grid (also 8:1 multifocus grid)
- ▶ Grid frequency matched to detector to help ensure optimum image quality
- ▶ Remove from Bucky with the touch of a button

#### Software Options

- ▶ KODAK DIRECTVIEW EVP Software
- ▶ KODAK DICOM Work List Management Service Class User Software for HIS/RIS connectivity
- ▶ KODAK DIRECTVIEW Capture Link System streamlines workflow by linking up to five DIRECTVIEW CR and/or DR Systems
- ▶ IHE scheduled workflow software

#### Regulatory

- ▶ FDA, MDD, TUV CUS, CE, and CCC

**Kodak**  
Licensed Product

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### More information

To learn more about the KODAK DIRECTVIEW DR 3500 System, Carestream Health's family of DR systems, and other high-performance systems and solutions for healthcare, contact your Carestream Health representative, or call 1-877-865-6325, ext. 227.

➔ [www.carestreamhealth.com](http://www.carestreamhealth.com)

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