

# DR 14s

## CASSETTE-SIZED DIGITAL DETECTOR

- The easiest and most versatile way to go Direct Digital
- Lightweight, small, high resolution detector offers optimal convenience and portability: ideal for use in general radiography applications, for extremities and for special examinations
- The detector is fully integrated in our DR solution family, directly synchronised with the generator
- The detector supports Digital Tomosynthesis on the DR 600
- The Full field Automatic Exposure Detection (AED) area allows seamless use with virtually all X-ray systems, maximizing the use of the existing X-ray equipment
- High DQE and optimal pixel size, for low dose examinations
- Improved workflow and examination speed
- Easy to clean and disinfect
- Extremely long battery autonomy of up to 8 hours
- Excellent connectivity with DICOM compatible software and imagers
- MUSICA processing for excellent contrast detail and exam-independent, consistent image quality
- Cesium Iodide (CsI) detector scintillator

The DR 14s cassette-sized Digital Detector offers a compact, light-weight and ergonomic way for radiography facilities to benefit from high quality digital imaging using virtually any X-ray equipment.

### Full Field Automatic Exposure Detection (AED)

Lightweight and small yet robust, the DR 14s Digital Detector offers general radiography facilities all the advantages of Direct Digital, maximizing the use of their existing equipment, for both conventional and mobile digital X-ray systems.

With the full field Automatic Exposure Detection (AED), no electrical connection to the X-ray system is required, for seamless use with virtually all X-ray systems.



## CASSETTE-SIZED DIGITAL DETECTOR



### Fast and more efficient workflow

The wireless technology and lighter weight enhance operator comfort, and improve exam flexibility and convenience, even in challenging imaging situations. The modern design of the detector combines ergonomics with aesthetics, and the sides are sealed to prevent liquid from getting in, making cleaning and disinfection easier.

The DR 14s is fully integrated in our DR Rooms and Mobile DR solutions and can be shared amongst them via a simple Infra-Red connection, optimizing usage while minimizing investment.

For achieving higher patient throughput the detector can be charged while in the bucky, keeping it fully charged for any examination outside the bucky. Once out of the bucky, the detector has an extremely long battery autonomy of up to 8 hours. The batteries themselves can be interchanged between the smaller DR 10s detector, offering maximum efficiency.

These cassette-less and filmless solutions provide a range of workflow benefits that improve productivity and speed up exam time. Preview images are available quickly: in under 1.5 seconds. Retakes can be made faster without changing cassette, and the number of images is no longer limited by the availability of cassettes. To complete the workflow, images can be sent faster to a PACS or imager in DICOM format.

### MUSICA and DR image quality: improved diagnostic confidence

The DR 14s is compatible with our 'gold standard' MUSICA image processing, which has been specially adapted and tuned to further enhance the excellent DR image quality. Exam-independent, it delivers consistent image quality and high contrast detail. Combining MUSICA with the high quality of the DR 14s, in terms of both sensitivity and sharpness, provides improved diagnostic confidence and efficiency. The DR 14s offers a high Detective Quantum Efficiency (DQE), while optimum pixel size supports lower radiation dose for patients.

### Advanced applications

The DR 14s detector can be used for digital tomosynthesis on Agfa's DR 600 ceiling-suspended DR room. Agfa's tomosynthesis algorithms for iterative reconstruction deliver images with less noise and fewer artefacts. They also enable very fast image reconstruction, overcoming the usually slow iterative reconstruction process.

### Services & Support

Agfa offers service agreement solutions tailored to the customer's situation. Available in Basic, Comfort and Advanced levels, they make your lifecycle costs predictable. A worldwide team of some 1,000 service professionals can provide support at all phases of your project, and even help customize your examination tree or link RIS protocol codes, further improving your return on investment. This team goes well beyond maintenance support, offering value-added services such as super user training, staff training and software upgrades. Both extended warranty and drop insurance options are available.

## Technical Specifications

### DETECTOR

- **Detector type:** Amorphous Silicon with TFT
- **Conversion screen:** CsI (Cesium Iodide)
- **Pixel pitch:** 148 µm
- **Active pixel matrix:** 2400 x 2880 pixels
- **Active area size:** 430 mm x 350 mm
- **Effective pixel matrix:** 2330 x 2846 pixels
- **Grayscale:** 16 bit
- **Spatial Resolution:** Min. 3.37 lp/mm
- **Outer dimensions:** ISO 4090  
Cassette size; 383.5 x 459.5 x 15.6 mm
- **Weight:** 2.8 kg including battery
- **Energy Range Standard:** 40 – 150 kVp
- **Fast preview:** < 1.5 seconds

### Advanced applications

- **Digital Tomosynthesis:** 6 fps (2x2)

### Environmental Requirements Operation

- **Temperature:** +10 ~ +35 °C
- **Humidity:** 20 ~ 80% Rh
- **Atmospheric pressure:** 700 ~ 1100 mbar
- **Shock:** 10 g
- **Vibration:** 2 g
- **Drop limits:** Max. 700 mm

### Storage and transportation

- **Temperature:** -10 ~ +55 °C
- **Humidity:** 5 ~ 95% Rh
- **Atmospheric pressure:** 500 ~ 1100 mbar
- **Shock:** 25 g
- **Vibration:** 2 g
- **Drop limits:** Max. 1200 mm

### WIFI

- **Wireless connection:** IEEE 802.11a/b/g/n  
(2,4 GHz/5 GHz)
- **Wireless signal range:** maximum 6 m

### BATTERY

- **Type:** Rechargeable Lithium ion battery
- **Dimensions:** Length x Width x Height  
250 mm x 75 mm x 6 mm
- **Weight:** 228 g
- **Battery output:** Output Voltage: DC +7.4 V
- **Capacity:** 3.68 Ah
- **Lifecycle:** Expected lifetime: 1 year
- **Drop limits:** Max. 1200 mm
- **Up to 8-hour battery autonomy**
- **Throughput (images per hour):** 240

### BATTERY CHARGER

- **Type:** Lithium ion battery charger
- **Charging time:** 4 hours
- **Simultaneous charging:** 3 batteries
- **Dimensions:** Width x Height x Depth  
320 mm x 50 mm x 170 mm
- **Weight:** 1065 g
- **Electrical connection:** 12 Vdc, 5 A max

## CASSETTE-SIZED DIGITAL DETECTOR

For more information on Agfa, please visit our website on [www.agfa.com](http://www.agfa.com) ■

Agfa and the Agfa rhombus are trademarks of Agfa-Gevaert NV, Belgium, or its affiliates. MUSICA is a trademark of Agfa-Gevaert NV, Belgium, or its affiliates. All rights reserved. All information contained herein is intended for guidance purposes only, and characteristics of the products and services described in this publication can be changed at any time without notice. Products and services may not be available for your local area. Please contact your local sales representative for availability information. Agfa-Gevaert NV diligently strives to provide as accurate information as possible, but shall not be responsible for any typographical error.

© 2020 Agfa NV  
All rights reserved  
Published by Agfa NV  
Septestraat 27 - 2640 Mortsel  
Belgium

580K7 GB 00202002

