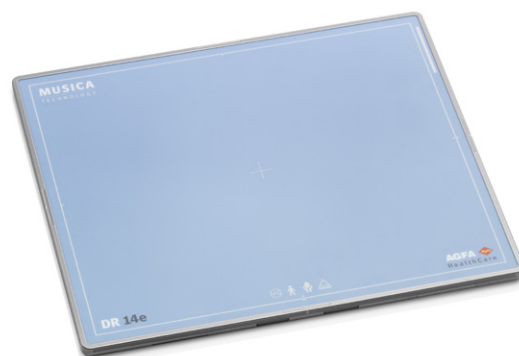# DR 14e

The DR 14e cassette-sized Digital Detector with Automatic Exposure Detection (AED) offers a compact, versatile and ergonomic solution for fast, high quality digital imaging, even in challenging imaging situations

- The easiest and most versatile way to go Direct Digital

- Wireless, high resolution full-field AED detector works with virtually any conventional or mobile X-ray equipment, maximizing the use of existing X-ray equipment

- Convenient 14x17-inch size and light weight provide optimal convenience and portability, for all Genrad examinations

- Fewer retakes improves the delivery of patient care and comfort

- Easier patient positioning enhances workflow

- High DQE and optimal pixel size support lower patient radiation dose

- Cassette-less solution improves workflow and examination speed

- Ergonomic design is easy to clean and disinfect

- Excellent connectivity with DICOM-compatible software and imagers enables fast sending of images

- MUSICA processing offers excellent contrast detail and exam-independent, consistent image quality

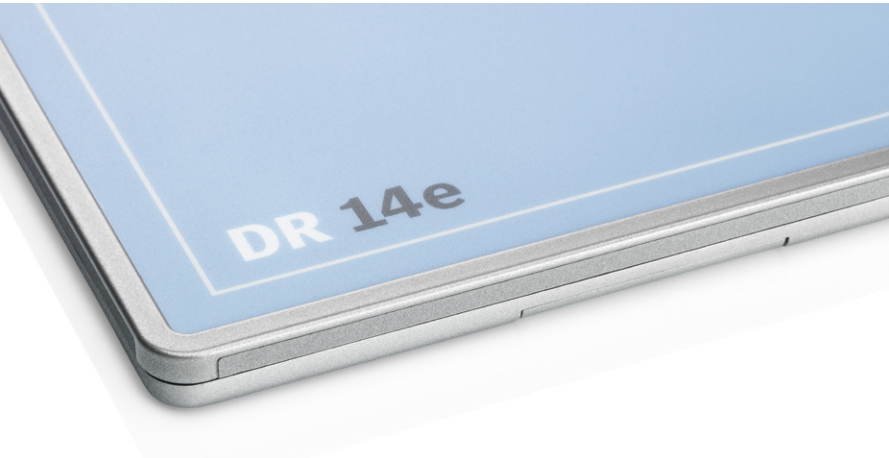- Comes with choice of Cesium Iodide (CsI) or Gadolinium Oxy-Sulphide (GOS) detector scintillator

"Instant DR" that maximizes existing equipment

Lightweight yet robust, the DR 14e Digital Detector offers general radiography facilities all the advantages of Direct Digital, while maximizing the use of their existing equipment. The full-field Automatic Exposure Detection (AED) detector requires no electrical connection to the X-ray system, for seamless use with virtually all conventional and mobile digital X-ray systems. This allows the hospital to maximize its existing X-ray equipment investments

The light weight of the Rib Magnesium Alloy frame and the wireless technology enhance the operator's comfort and improve exam flexibility, in a robust, aesthetically pleasing design. With its convenient 14x17-inch size, the DR 14e is ideal for all Genrad examinations.

AGFA HealthCare

Faster and more efficient workflow

The DR 14e is an integral part of an Agfa HealthCare Instant DR solution, which includes the NX image acquisition software with MUSICA processing and detector. These cassette-less, digital solutions provide a range of workflow benefits that improve productivity and speed up exam time. Both wireless and wired configurations are possible. Retakes can be made more quickly 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 more quickly to a PACS or imager in DICOM format. This faster workflow improves the delivery of patient care and comfort.

MUSICA and DR image quality: improved diagnostic confidence

The DR 14e 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 14e, in terms of both sensitivity and sharpness, provides improved diagnostic confidence and efficiency. The DR 14e offers a high Detective Quantum Efficiency (DQE), while optimum pixel size supports lower radiation dose for patients.

Services & Support

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

Technical Specifications

DETECTOR

- **Detector type:** Amorphous Silicon with TFT
- **Conversion screen:** CsI (Cesium Iodide) and GOS (Gadolinium oxysulfide)
- **Pixel pitch:** 150 µm
- **Active pixel matrix:** 2336 x 2836 pixels
- **Active area size:** 430 mm x 350 mm
- **Effective pixel matrix:** 2336 x 2836 pxl
- **Grayscale:** 16 bit
- **Spatial Resolution:** Min. 3.36 lp/mm
- **Outer dimensions:** ISO 4090 Cassette size; 384 x 460 x 15 mm
- **Weight:** 2.95 kg including battery
- **Energy Range Standard:** 40 – 150 kVp

ENVIRONMENTAL REQUIREMENTS

Operation

- **Temperature:** +15 ~ +35° C
- **Humidity:** 15 ~ 80% RH
- **Atmospheric pressure:** 700 ~ 1060 hPa
- **Shock:** 150 G
- **Vibration:** 0.2 G
- **Drop limits:** Max. 1200 mm

Storage and transportation

- **Temperature:** -30 ~ +50° C)
- **Humidity:** 10~ 90% Rh
- **Atmospheric pressure:** 700 ~ 1060 mbar
- **Shock:** 4,8 Km/h
- **Vibration:** 6,9 m/s²
- **Drop limits:** Max. 910 mm (without palette)

Wi-Fi

- **Wireless connection:** IEEE 802. 11n (2.4/5.2/5.3/5.6/5.8GHz)
- **Wireless signal range:** maximum 6 m

Battery

- **Type:** Rechargeable Lithium ion battery
- **Battery in operation state:** 3 hours; > 700 images
- **Weight:** 230 g
- **Battery output:** Output Voltage DC +7.4 V
- **Capacity:** 3200 mAh
- **Lifecycle:** Expected lifetime: 75% at 400 cycles

Battery charger

- **Type:** Lithium ion battery charger
- **Operation temperature:** 0°C – 35°C
- **Simultaneous charging:** 2 batteries
- **Dimensions:** Width x Height x Depth 92.5 x 259 x 56 mm
- **Weight:** 600 g
- **Electrical connection:** 16V, DC/6.5A
- **AC adaptor Rating Input:** 100 – 240 V, AC/1.5A, 50 – 60 Hz

REGISTRATION CABLE

(for installation and sharing in wireless use mode)

- **Length:** 0,7 m
- **RJ45 connector**

POWER BOX (for wired connection mode)

Power Supply Conditions

- **Rated Voltage:** 100 – 240 V
- **Input Current:** 2 – 0.84 A
- **Frequency:** 50 – 60 Hz

Environmental Conditions

- **Operating Temperature (°C): 15~35** Humidity (%Rh): 15~80 Pressure (hPa): 700~1060
- **Non-operating Temperature (°C): 5~35** Humidity (%Rh): 10~80 Pressure (hPa): 700~1060
- **Storage Temperature (°C): -30~50** Humidity (%Rh): 10~90 Pressure (hPa): 700~1060

Cable

- **Length:** 10m
- **RJ45 connector**

About Agfa HealthCare

Agfa HealthCare is a leading provider of diagnostic imaging and healthcare IT solutions for hospitals and care centers around the world. The business group is a major player on the diagnostic imaging market, providing analog and digital technology, as well as IT solutions to meet the needs of specialized clinicians. The business group is also a key provider on the healthcare information solutions market, integrating the administrative, financial and clinical workflows of individual hospitals and hospital groups. ■

www.agfahealthcare.com

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