Wireless flat panel detector
XenOR 43CW
43 x 43 cm [17 x 17 Zoll]

The wireless X-ray detector XenOR 43CW in cassette format weighs only 4 kg and works with Auto Exposure Detection (AED). The detector easily fits into any standard bucky/lade for upgrading a conventional X-ray system or CR system to a DR system.

- Due to the automatic synchronisation of detector and generator by means of AED there is no need to modify the X-ray system or adapt the system or the cable connections
- Extra long battery life with 1400 shots/charge (10 sec interval between shots) and 7 hours standby time
- “CsI direct deposition” technology optimises digital signal processing and ensures excellent image quality at a low X-ray dose
- Wireless acquisition and transfer of a full resolution radiography image in ~ 4 sec
- Active area: 43.4 x 43.4 cm (17” x 17”)
- Pixel pitch: 154 μm
- Pixel array: 2816 x 2816 Pixel
- Dimensions (W x H x D): 460 x 460 x 15 mm
- Weight approx. 4.1 kg
## Parameters

### Sensor
- **Scintillator**: CsI Direct Deposit
- **Active Area**: 433.5 x 433.5 mm
- **Pixel Array**: 2816 x 2816
- **Pixel Pitch**: 154 µm

### Image Quality
- **Limiting Resolution**: 3.3 lp/mm
- **MTF**:
  - ~ 70% (@ 1 lp/mm)
  - ~ 40% (@ 2 lp/mm)
  - ~ 22% (@ 3 lp/mm)
- **DQE**:
  - (~ RQA5, 30 µGy)
  - ~ 62% (@ 0 lp/mm)
  - ~ 20% (@ 3 lp/mm)
- **Sensitivity**:
  - ~ 0.62 c/νGy
- **Response Non-linearity**:
  - < ± 0.5%
- **Maximum Linear Dose**: 95 µGy
- **Dark Noise**:
  - ~ 8 nGy
- **Dynamic Range**:
  - ~ 82 dB
- **Greyscale**: 16 bits

### Communication Interface
- **Communication Interface**: Gigabit Ethernet
- **Frequency**: 2.4/5 GHz, 300 Mbps
- **Image Acquisition Time**:
  - 2-3 s (wired)
  - 4-5 s (wireless)
- **Exposure Control**:
  - AED and Manual
  - External Trigger

### Environmental
- **Operating**
  - Temperature Range: 5°C - 35°C
  - Humidity Range (Non condensing): 30% - 75% RH
- **Storage**
  - Temperature Range: -20°C - 55°C
  - Humidity Range: 10% - 90% RH

### Mechanical
- **Dimension**: 460 x 460 x 15 mm
- **Weight**: 4.1 kg
- **Housing Material**:
  - Carbon fiber front
  - High strength aluminium alloy back
- **Weight bearing**:
  - 100 kg@40 mm
  - 150 kg@full facade

### Power
- **Power Dissipation**: < 8 W (standby) / 20 W (operating)
- **Power Supply**: 100 - 240V AC
- **Frequency**: 50/60Hz
- **Battery**: 3260 mAh, 14.8 V

Please visit [www.or-technology.com](http://www.or-technology.com) for more details.

**Specifications subject to revision without notice**

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