

3. Digirad products – brief overview



Digirad 2200 (with Digirad 1590)

Product for all kinds of examinations in hospital practice. With ceiling-mounted support and height-adjustable table with built-in detector. Can be swivelled for exposures of arms and legs.



Digirad XM series

Single-detector system with fixed, comfortable and motorized precision height-adjustment table and a detector. The new software generation ensures simple and easy operation.



Digirad 1600 plus

Device for universal use with sensomotor control and variable focal-to-image distance. Also available as **Digirad 1600** without touchpanel.



Digirad Ortho

With fixed focal-to-image distance for use in orthopaedics. Manual adjustment ensures very fast and universal positioning.



Also available: **Digirad 1590** | **Digirad 1600**



Digirad Vario

„Universal System for Direct Digital Radiography“



↳ simply direct

Digirad is a product of



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1. Digirad Vario – specifications

The DIGIRAD vario support is easy and safe to handle. The arm, which turns a full circle, enables stepless setting of the focal-to-image distance between 120 cm and 180 cm. Thus, exposures of standing, lying or sitting patients are no problem.

Vario support

- Focal-to-image distance (SID) 120–180 cm
- Minimum distance to floor 41 cm
- Maximum distance to floor 175 cm
- Minimum room height 240 cm
- Swivel range 360 degs.
- Detector offset +/- 25 degs.
- Operating voltage 24V AC
- Weight 350 kg
- CE certificate CE 1275

X-ray generator

- Output 50 kW
- max. 630 mA
- max. 150 kV
- 200 kHz
- APR and AEC (optional)
- hand switch

Data interface – RS232C

- Supports generator control via MTRA workstation

Tube

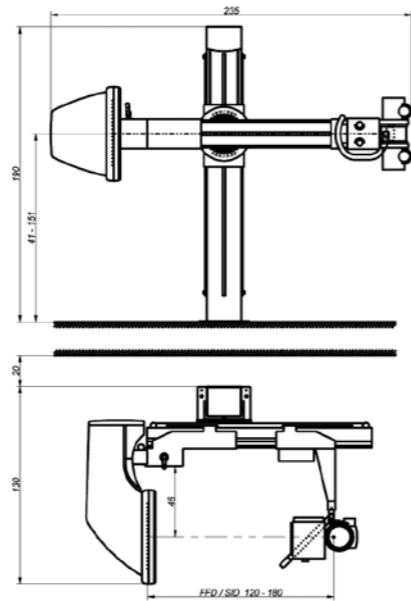
- VARIAN Rad
- 0,6/1,2 mm focal spot
- 19 / 50 kW
- max 150 kV (optional different tube available)

Depth aperture

- Manual light visor, electronic timer

Patient table

- Wheeled 1880 mm x 610 mm x 708 mm



2. Detector – product information

The detector of all DIGIRAD products consists of 3 main components:

- Csi scintillator
- High-resolution CCD chip
- High-sensitivity optical system

The modular design of the detector makes the components exchangeable and reduces potential repair costs. The detector adapts to future developments.



4k imaging detector specifications

- High-resolution full field single CCD chip
- Active image size 43 cm x 43 cm (17 in x 17 in)
- Element matrix 4,128 x 4,128
- Number of pixels 16 million
- Pixel size 108 microns in x and y directions
- Maximum resolution 4.6 lp/mm
- Bit depth 14-bit
- Fill factor 100 per cent
- 3-field ionization chamber devices
- Preview image in less than 6 seconds
- Processed image display in less than 10 seconds
- Follow-up exposure directly after the preview image

3k imaging detector specifications

- High-resolution full field single CCD chip
- Active image size 43 cm x 43 cm (17 in x 17 in)
- Element matrix 3,072 x 3,072
- Number of pixels 9 million
- Pixel size 144 microns in x and y directions
- Maximum resolution 3.4 lp/mm
- Bit depth 14-bit
- Fill factor 100 per cent
- 3-field ionization chamber devices
- Preview image in less than 6 seconds
- Processed image display in less than 10 seconds
- Follow-up exposure directly after the preview image

Grid

- Frequency/ratio 70 lines 13:1 SID 120 cm
- Frequency/ratio 70 lines 13:1 SID 180 cm

Regulatory compliance

- FDA 510K, UL 60601-1, EN 60601-1, IEC-60601, CAN/CSA C 22 No.601.1, CE-77598

Power supply

- Xplorer detector 110-250V, 15 A, 50/60 Hz
- Workstation 110-250V, 15 A, 50/60 Hz

DICOM 3.0 functions

- Print management
- Modality work list
- Modality performed procedure step
- Storage class user

MTRA workstation

Typical hardware configuration:

- Computer: Pentium 4 processor 3.2 GHz
- 2 GB RAM, 250 GB RAID 1
- Ethernet 100 / 1000 mbit/s
- 19" flat screen with 1600 x 1200 pixels