

The ddRAura DRive Kit is the ultimate solution for converting an analog X-Ray system to digital.

Swissray's analog to digital upgrade kit is the most configurable option available with multiple detector options as well as generator integration to multiple X-Ray generators. The ddRAura DRive Kit can be used in auto-detect mode with your existing generator control, or with generator integration allowing the ddRAura DRive Kit workstation to control all functions including kVp, mA, sec selection, procedure mapping, AEC control, image processing and all required DICOM functionality. The streamlined workflow and outstanding image quality of the ddRAura DRive Kit will greatly enhance any CR or Cassette based analog system while providing extended use of an existing X-Ray room.



**Technical Data**

**Workstation**

High performance imaging console	Multi-core processor, 1TB HDD, 8GB RAM, CD/DVD, keyboard and mouse, Wi-Fi router
Imaging console monitor size	23" 2MP DICOM calibrated touchscreen monitor
Avanse DR software features	Avanse DR imaging software, Image copy / paste, crop and annotate, DICOM MWL, Print and Store, CD/DVD burn with DICOM viewer, Exposure index / Deviation index, Auto and manual image processing, Query Retrieve, Procedure mapping, MPPS, Reject analysis, Undo / Image reload, Auto shutter, Image measurements, Image preview, Automated storage

**ddRAura™ DRive Kit with Generator Integration**

Available software features	APR based parameter presets with manual adjustment, 4-point technique control (kVp, mA, sec, mAs), AEC control with configurable density steps, Dose drift warning with configurable alarm level, Integration with existing CPI or EMD generator, Actual generator information sent to DICOM header
Flat Panel Detector Integration	Supports multiple detector sizes and specifications
Detector Connection Management	Detector state monitoring and error handling, hardware or software synchronized timing and exposure, display of battery level and Wi-Fi status connection for wireless detectors



**ddRAura™ DRive Kit without Generator Integration**

Available software features	Recommended APR based parameter presets, utilize existing generator control paired with Avanse DR workstation and auto trigger mode of wireless flat panel detector
Flat Panel Detector Integration	Supports multiple detector sizes and specifications PCB Interface for hardware synchronization or AED mode available
Detector Connection Management	Detector state monitoring and error handling, auto trigger mode, display of battery level and Wi-Fi status connection for wireless detectors



**Thales Flat Panel Detector's**

Brand Model	Pixium RAD 4343R-C	Portable3543EZ-C (WIFI)	Portable 2430EZ-C (WIFI)
Technology	Amorphous silicium/CsI	Amorphous silicium/CsI	Amorphous silicium/CsI
Active area	423.3 x 425.4 mm	421 x 345 mm	284 x 222 mm
Active pixel matrix	2860 x 2874	2846 x 2330	1920 x 1500
Pixel size	148 µm	148 µm	148 µm
Limiting resolution	3.38 lp/mm	3.38 lp/mm	3.38 lp/mm
DQE @ 0 lp/mm	65%	70%	65%
MTF @ 1 lp/mm	61%	61%	61%
AD conversion	16-bit	16-bit	16-bit
Detector dimensions	500 x 490 x 45.5 mm	459.5 x 383.5 x 15.6 mm	327.5 x 267.5 x 15.6 mm
Weight	11.7 kg	2.8 kg	1.6 kg
Ingress protection		IP43	IP43
Battery autonomy		8h	8h
Distributed load		300 kg	150 kg
Point load		150 kg	100 kg

**Varex Flat Panel Detector's**

Brand Model	PaxScan 4343R v3	PaxScan 4336W v4 (WIFI)	PaxScan 4343W (WIFI)
Technology	Amorphous silicium/CsI	Amorphous silicium/CsI	Amorphous silicium/CsI
Active area	424 x 424 mm	424 x 339 mm	421 x 421 mm
Active pixel matrix	3052 x 3052	3032 x 2436	3032 x 3032
Pixel size	139 µm	139 µm	139 µm
Limiting resolution	3.6 lp/mm	3.6 lp/mm	3.6 lp/mm
DQE @ 0 lp/mm	78%	78%	76%
MTF @ 1 lp/mm	56%	57%	57%
AD conversion	16-bit	16-bit	16-bit
Detector dimensions	469 x 469 x 37 mm	459.5 x 383.5 x 15 mm	459.5 x 459.5 x 15 mm
Weight	6.2 kg	3.0 kg	3.3 kg
Ingress protection		IP54	IP68
Battery autonomy		1600 images/8h	1600 images/8h
Distributed load		150 kg	300 kg
Point load		100 kg	200 kg

**iRay Flat Panel Detector's**

Brand Model	Mars1717V (WIFI)	Mars 1417V (WIFI)
Technology	Amorphous silicium/CsI	Amorphous silicium/CsI
Active area	427 x 427 mm	420 x 345.6 mm
Active pixel matrix	3072 x 3072	2800 x 2304
Pixel size	139 µm	150 µm
Limiting resolution	3.6 lp/mm	3.3 lp/mm
DQE @ 0 lp/mm	66%	59%
MTF @ 1 lp/mm	70%	67%
AD conversion	16-bit	16-bit
Detector dimensions	460 x 460 x 15.1 mm	460 x 384 x 15.2 mm
Weight	4.3 kg	3.6 kg
Ingress protection	IPX1	IPX1
Battery autonomy	5h	5h
Distributed load	150 kg	150 kg
Point load	100 kg	100 kg

**Options**

Replacement Detector housing	Replacement of existing analog detector tray with ddRAura™ DRive Kit detector tray with rotation for 3543 wireless assembly for 4343 fixed detector
Replacement X-Ray Generator	Optional 50 kW / 3-phase, 65 kW / 3-phase, 80 kW / 3-phase x-ray generators
X-ray grids	Carbon fiber removable 85 L/cm (215 L/inch) 10:1, FD 110 cm, 150 cm, 180 cm external holder with grid for 353EZ detector, 40 L/cm (103 L/inch) 8:1 FD 100 to 180 cm
DAP meter	Dose area product (DAP) meter to measure, record and store the applied dose in the DICOM header of the patient's image
Full screen monitor	24" LCD non-medical monitor
Card access reader	Individual identification cards for effortless system login

Subject to technical modification.  
 Our units and equipment must only be installed, serviced and put into operation by Swissray authorized personnel.