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Apollo DRF

DR + RF system with Dynamic Flat Panel Detector



One system, Two applications

Apollo DRF goes beyond the separation between radiography and fluoroscopy. The innovative ***Dynamic Flat Panel Detector*** operates as a full digital modality for both high resolution radiography and high frame rate fluoroscopy.

One room, one detector and one imaging platform are all you need to perform an extensive range of applications that typically require multiple devices when based on legacy equipment.

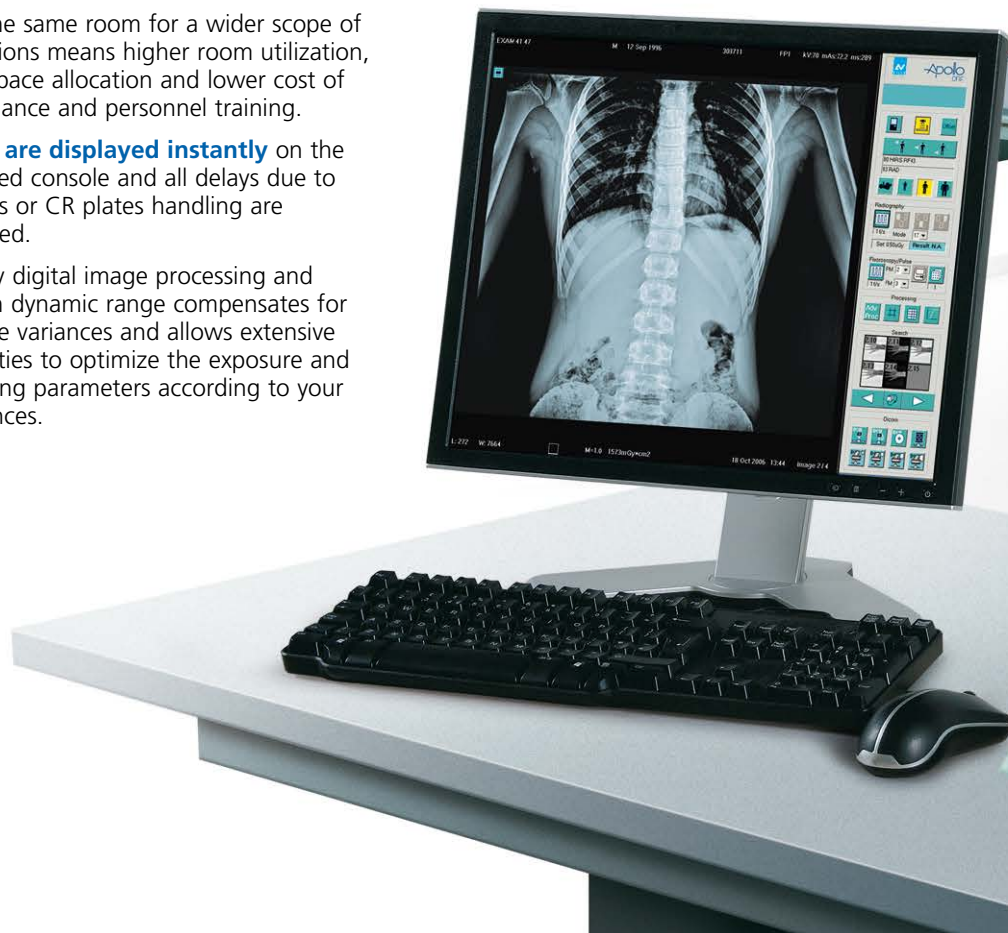
According to your workload and patient workflow requirements, you can instantly switch from general radiographic studies, to high volume chest exams, trauma exams, or contrast studies such as GI, urological and vascular investigations.



Using the same room for a wider scope of applications means higher room utilization, better space allocation and lower cost of maintenance and personnel training.

Images are displayed instantly on the integrated console and all delays due to cassettes or CR plates handling are eliminated.

The fully digital image processing and the high dynamic range compensates for exposure variances and allows extensive possibilities to optimize the exposure and processing parameters according to your preferences.





Dynamic Flat Panel 43x43cm - 17"x17"

**Dual Digital imaging mode:
high resolution exposure and
high speed fluoro**

**Variable Source to Image Distance:
110 to 180 cm - 43" to 71"**

**Automatic selection of two grids
and grid parking**

Minimum tabletop height: 60cm - 23"

Patient capacity up to 284kg - 626 lb.

Automatic Stitching option

**Available also with "open" tabletop,
allowing 4-side access to the patient**

Dynamic Flat Panel Technology

The new family of dynamic Flat Panel detectors delivers an **high frame rate** for fluoro procedures, while for general radiography it delivers the same image quality of the widely used detectors for DR applications.

Flat Panel

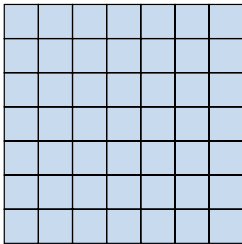
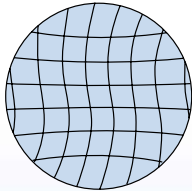
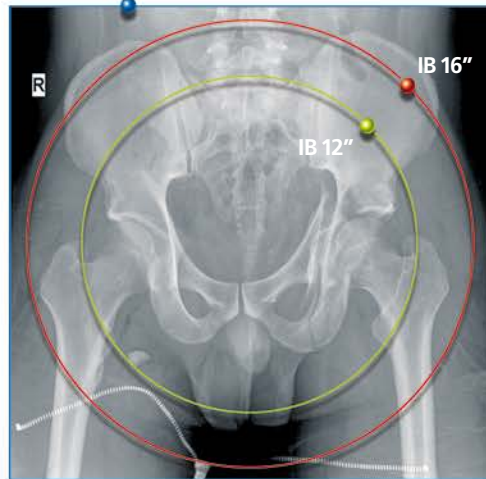


Image Intensifier



Flat Panel 43x43cm



The large 43x43cm - 17"x17" active area is suitable for examination of any anatomic region and provides almost 50% more coverage than a 16" Image Intensifier.

The combination of wide coverage and high image resolution extends the application of the fluoro suite to areas such as chest, pelvis and extremities, which can't be done with conventional image intensifier based systems.

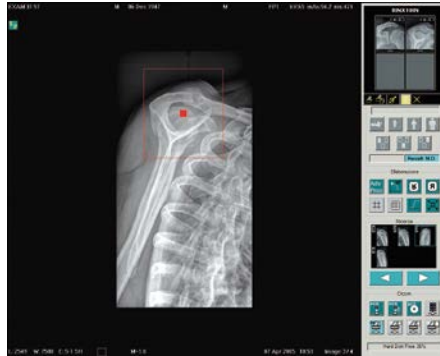
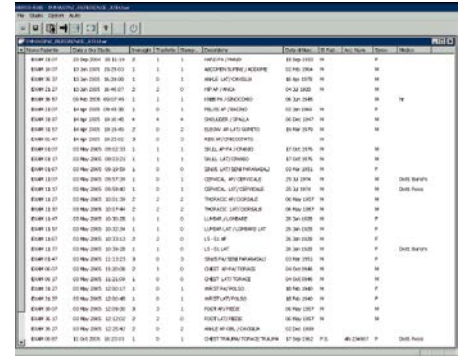
The high sensitivity of the flat panel technology, the use of low absorption materials and the grid parking capability, allow a consistent **dose reduction**, especially for pediatric applications.

The Flat Panel technology delivers sharp and accurate images to support your diagnosis and is not affected by geometric distortion which is typical of Image Intensifiers.



Workflow meets image quality

The predefined procedures library and automatic image optimization deliver outstanding images with minimum effort.

Procedure	Code	Order	Priority	Category	Order	Order	Order	Order	Order	Order
00000001	00000001	00000001	0	0	0	0	0	0	0	0
00000002	00000002	00000002	0	0	0	0	0	0	0	0
00000003	00000003	00000003	0	0	0	0	0	0	0	0
00000004	00000004	00000004	0	0	0	0	0	0	0	0
00000005	00000005	00000005	0	0	0	0	0	0	0	0
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00000008	00000008	00000008	0	0	0	0	0	0	0	0
00000009	00000009	00000009	0	0	0	0	0	0	0	0
00000010	00000010	00000010	0	0	0	0	0	0	0	0
00000011	00000011	00000011	0	0	0	0	0	0	0	0
00000012	00000012	00000012	0	0	0	0	0	0	0	0
00000013	00000013	00000013	0	0	0	0	0	0	0	0
00000014	00000014	00000014	0	0	0	0	0	0	0	0
00000015	00000015	00000015	0	0	0	0	0	0	0	0
00000016	00000016	00000016	0	0	0	0	0	0	0	0
00000017	00000017	00000017	0	0	0	0	0	0	0	0
00000018	00000018	00000018	0	0	0	0	0	0	0	0
00000019	00000019	00000019	0	0	0	0	0	0	0	0
00000020	00000020	00000020	0	0	0	0	0	0	0	0
00000021	00000021	00000021	0	0	0	0	0	0	0	0
00000022	00000022	00000022	0	0	0	0	0	0	0	0
00000023	00000023	00000023	0	0	0	0	0	0	0	0
00000024	00000024	00000024	0	0	0	0	0	0	0	0
00000025	00000025	00000025	0	0	0	0	0	0	0	0
00000026	00000026	00000026	0	0	0	0	0	0	0	0
00000027	00000027	00000027	0	0	0	0	0	0	0	0
00000028	00000028	00000028	0	0	0	0	0	0	0	0
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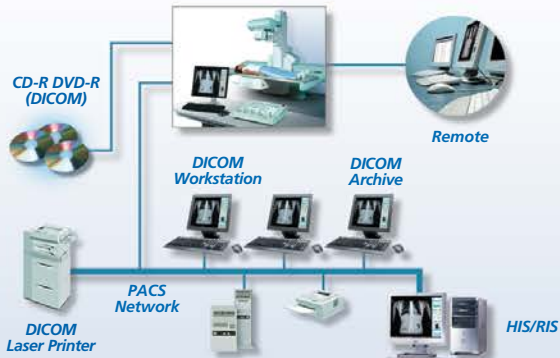
According to each user-selected procedure, exposure factors, image processing parameters and all **table positions are automatically preset**.

For instance, for upright chest exams the table will be tilted to vertical position, the SID moved to 180cm - 71" and the exposure area set to 35x43cm - 14"x17".

If your objective is a filmless environment, you can also create CD's and DVD's directly from the console with the **integrated CD/DVD writer**.

Should you require printouts of the most significant images, the **powerful print menu** optimizes the hardcopy utilization.

With its full **DICOM connectivity**, Apollo DRF easily integrates into PACS networks for quick and effective workflow management and image distribution.



Contrast harmonization

The contrast optimization function automatically compensates the differences in tissues absorption and **enhances the visibility of details** according to the exam and anatomic region, thereby reducing the need for manual window and levelling.



Apollo Open

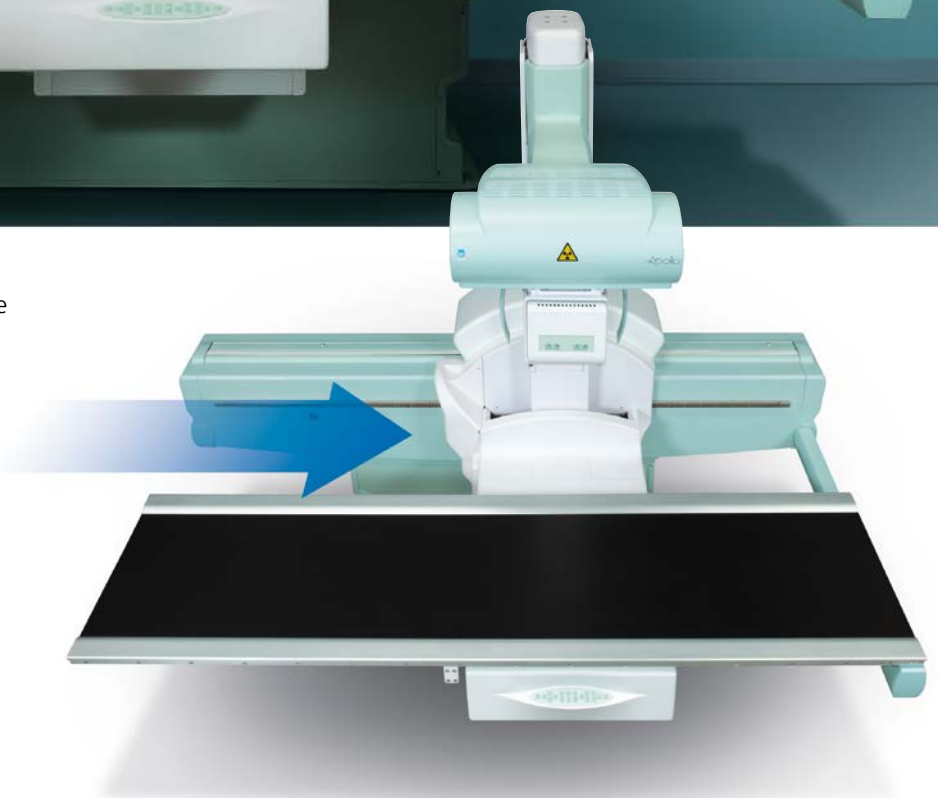
The new "open" tabletop extends the system's application to **interventional procedures** and allows **maximum accessibility** during patient's positioning.



The **Open** configuration of Apollo allows a **total access** to the patient from any side of the tabletop in a fast, comfortable and safe way.

This complete accessibility allows also to perform any **interventional procedure** that might become necessary, without any limitation; the operator has therefore the possibility to act rapidly and effectively.

The **carbon fiber** tabletop allows on the Apollo Open a maximum patient load of **230 kg** (507 lbs.) without limitations in movement, allowing the access also to bariatric patients.



We care for your patients

The outstanding versatility of Apollo DRF provides a perfect balance between **operational efficiency** and **patient comfort**.

To facilitate the transfer and positioning of patients, the table **can be lowered down to 60cm - 23"** delivering immediate benefit for small patients or disabled persons.



The **AGS function - Auto Grid Selection** - automatically selects one of two grids to match the SID. The grid can also be automatically removed for non-grid applications, such as pediatrics or extremities.

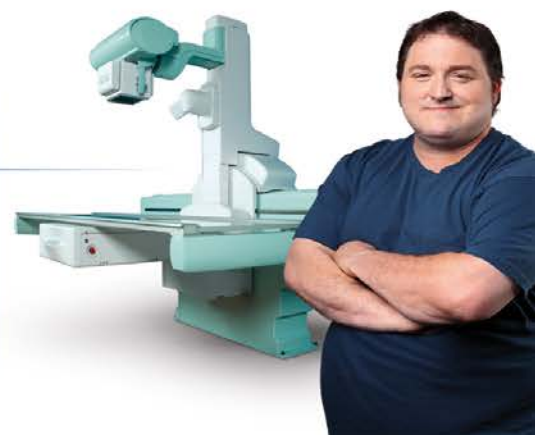


When not in use, the compressor is **automatically parked** in a position where it doesn't interfere with the patient.



Full patient examination can be achieved **without longitudinal tabletop movement**, due to the large travel of the detector and the wide radio-transparent tabletop area.

The large tabletop size and the patient weight capacity up to 284kg - 626 lb. without restrictions of the table movements open the way to bariatric patients.



Great versatility

The use of one single detector for both fluoroscopy and radiography offers an unparalleled range of applications that includes all the most common general radiographic procedures, GI studies, tomography and vascular studies. Exams can be taken on the table with **source to image distance up to 180cm - 71"**.



The high image resolution and the 180cm - 71" cm SID are the perfect combination for upright chest studies using a single detector, without having to switch to CR plates or conventional film-screen cassettes.



The large, square detector offers enough field coverage also for those exams such as the pelvis, that are not possible with the traditional Image intensifier.





*Fluoroscopy exams also take benefit from the large active area of the detector that allows visibility of larger anatomic regions **without patient repositioning.***



*The **high frame rate** makes for precise investigation of the upper GI tract and swallow studies.*



Great versatility



The footrest doubles as a *patient seat* when patient comfort and stability are required.

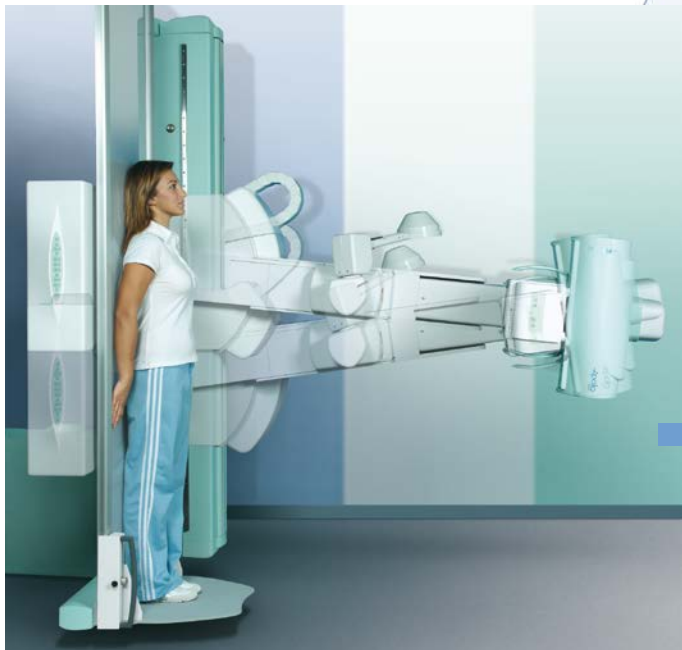


High quality extremities can be obtained with reduced x-ray dose making use of the *automatic grid parking*.



The detector travel reaches the tabletop extremities making it possible to perform weight bearing studies with the patient at *minimal height from floor*.

Stitching



*The distortion-free images delivered by the flat panel detector are the perfect starting point for spine and extremity reconstruction using the optional **Stitching** function.*



Digital Subtraction Angiography, available as an optional package for unit with Trixell Pixium RF 4343[®] detector, benefits from the large patient coverage without longitudinal repositioning



The column tilting mechanism without mechanical bar enables tomography and oblique projections in any table position, including the table extremities.

Villa Sistemi Medicali long-standing experience at the service of our customers



**Competence
in x-ray systems**

Villa Sistemi Medicali specialists can provide qualified information on new x-ray systems, room structure and installation and equipment positioning.

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of equipment**

Villa Sistemi Medicali is among the major European manufacturers of radiological systems and offers a wide range of products, such as:

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