



PIXRAY

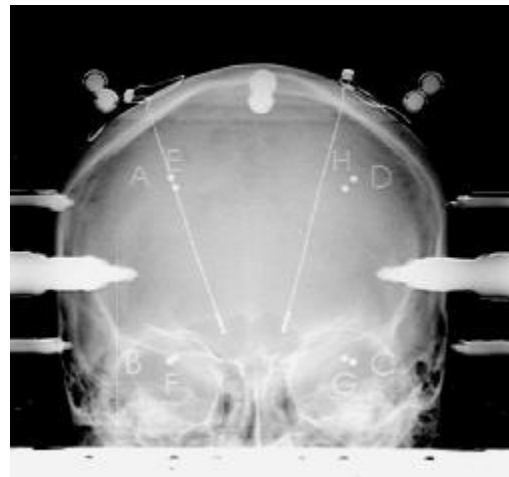
CE 0120

FILMLESS REAL-TIME LOW DOSE DIGITAL X-RAY IMAGING SYSTEM FOR NEUROSURGERY INTERVENTIONS.

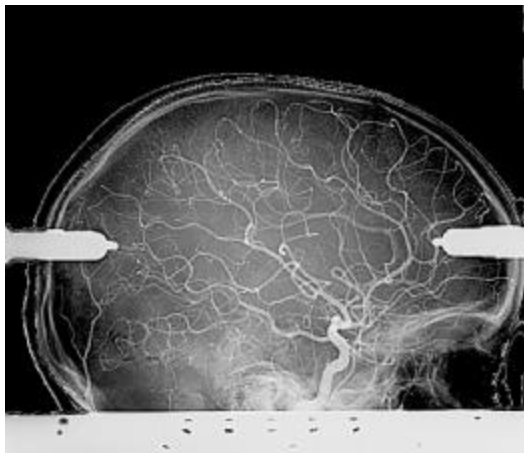
PIXRAY (Picturing X-RAYs on-line) is a new generation filmless X-ray system.

POSSIBLE APPLICATIONS:

- Ø Neurosurgery
- Ø Radioscopy
- Ø Mammography
- Ø Casualty Department
- Ø Plaster room
- Ø Hand surgery
- Ø Craniofacial surgery
- Ø Angiography
- Ø Orthopedics, etc.



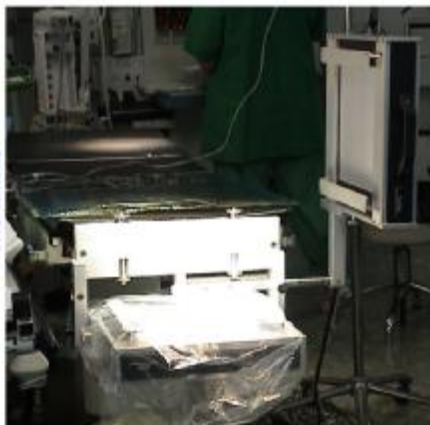
Electrodes introduction in the treatment of Parkinson disease.



Arterioscopy.

PIXRAY can be **easily integrated in standard X-ray radiography equipment** for acquisition of **real-time images** with significant dose reduction (**up to 100 times**) and **better contrast resolution** in comparison with the standard film technique.

With PIXRAY, one does not need any consumables and development equipment.



CHU Timone



PIXRAY



PIXRAYC_NEURO_E

Specifications are subject to change without notice.

Release :01/03/07

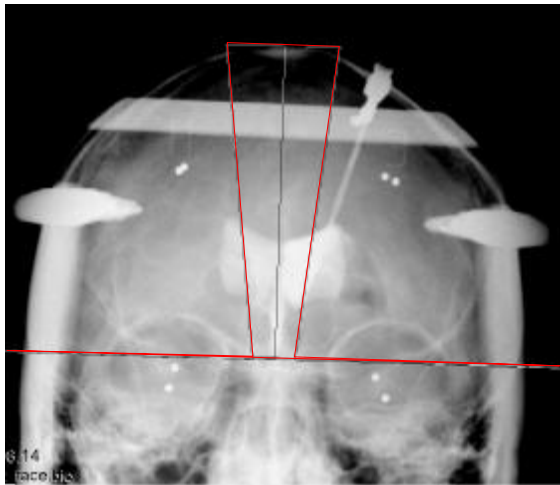
BREAST MICROVISION
EARLY BREAST CANCER DETECTION

ANIMAL-VIEW
PORTABLE DIGITAL X-RAY EQUIPMENT
FOR VETERINARY APPLICATIONS

X-VIEW
DIGITAL IMAGING AND
CONTROL SYSTEM FOR NDT

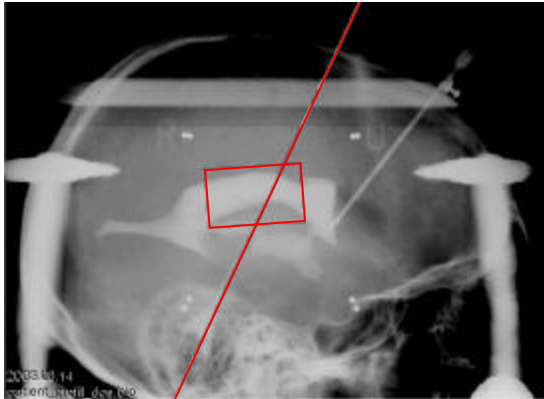
PIXRAY
LOW RADIATION, HIGH CONTRAST
DYNAMIC IMAGING SYSTEM

IRIS
DYNAMIC IMAGING AND MONITORING
SYSTEM FOR RADIOTHERAPY



Ventriculography - Face

The dynamic images are directly displayed on the PC monitor and archived in digital format using a **very user-friendly** image processing software **PIX-View**.



Ventriculography - Profil

Thanks to PIX-View **telemedicine is made possible**. The medical information can be transferred through the PACS or Internet networks.



Hand in plaster: by changing the contrast setting, one can see, in a single X-ray shot, either the plaster and the soft tissues or the bones.

We wish to thank Prof. A.L Benabid & Dr. D Hoffmann from CHU Grenoble, Prof. JC Peragut & Prof. J Regis from CHU Timone, Marseille and Prof. P Cornu from CHU Salpêtrière, Paris for a fruitful cooperation.

PIXRAY is very compact and is capable of **producing up to 30 pictures per second**, in real-time. It uses a large area pixel matrix (12 cm x 12 cm, 20 cm x 20 cm or 41 cm x 41 cm) based on a solid state sensor.



The most important advantages of PIXRAY are:

- Ø **significant dose reduction**, which diminishes the risk of radiation injury for the patient during lengthy or repeated diagnosis and interventional procedures and also the doses received by the personnel.
- Ø **wide dynamic range** (up to a 16-bit resolution ADC) to follow-up, for example, fracture recovery under plaster.



Arteriography : with digital subtraction

Since 1990 the activities of BioScan Switzerland focus on biomedical X-ray imaging and non destructive testing (NDT). BioScan designs, manufactures and commercializes really new products using cutting-edge technology.