

Efficient Patient Positioning



Accurate Patient Identification System

Proper patient identification on each film is assured by an automatic interlock. An exposure cannot be made until a patient identification card is inserted in the filmchanger. Patient information, contained on a 3" x 5" card, IBM card or Philips I.D. card, is transferred directly to the film on exposure. Each exposure requires that a new card be inserted, thus preventing misidentification or double exposure.



Excellent Image Quality

Excellent image quality with outstanding definition is the result of a vacuum system in the filmchanger which seals the film between the screens to ensure positive film/screen contact.

Superb contrast and detail are ensured by precise beam collimation and an oscillating Bucky or stationary grid for reducing radiation scatter.

System Options for Additional Capability and Extended Automation

Stereo: Operator efficiency and patient throughput are increased through use of a stereo shift device which automatically repositions the X-ray tube for the second exposure immediately after the first exposure has been made.

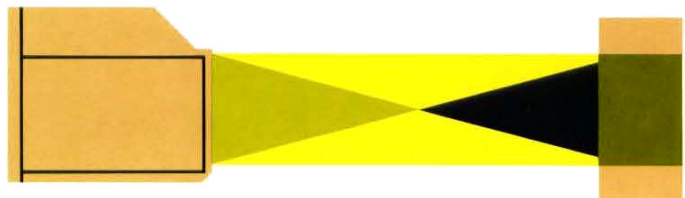
Automatic Exposure Control: Philips AMPLIMAT system utilizes an ionization chamber to determine the exact amount of radiation for a given patient and terminates the exposure when the film has

been properly exposed. Philips AMPLIMAT thus contributes significantly to image quality, operator efficiency and reduction of retakes.

Rare Earth Screens: To further reduce radiation dose to the patient, rare earth screen combinations provide excellent image quality with dose as low as 3.3 mAs.

Automatic Film Transport System: Exposed films are fed directly to an automatic transport system which carries the film to a dedicated film processor. Processed films are thus available for viewing approximately two minutes after exposure. In the event of processor maintenance, films can be diverted into a receiving magazine for conventional processing.

Daylight Film Processor: Coupled directly to the film transport system in any one of three positions (directly behind or at 90° to the left or right of the transport system), a daylight film processor totally automates the Pulmo Diagnost. All major manufacturers' automatic film processors are compatible with the Pulmo Diagnost.



Philips Pulmo Diagnost

Philips Pulmo Diagnost is an automated chest radiography system designed to increase operator efficiency and patient throughput *and* reduce retakes.

The system frees the operator to devote full attention to patient positioning. Automation then ensures error-free operation at every step in the procedure—from X-ray tube/film alignment to return of exposed film directly to a receiving magazine. Total automation with an optional film transport system coupled to a daylight processor completely eliminates time-consuming dark-room procedures, enabling your department to handle more cases than ever before possible in the most cost-effective manner.

Increased Patient Throughput with Accurate,



An automated filmchanger, complete with a 100-film supply magazine and a 90-film receiving magazine which eliminate time-consuming cassette handling, is cantilevered to move vertically and synchronously with the X-ray tube. Fast, comfortable positioning of seated, standing or stretcher patients of any height or weight is handled quickly and efficiently.

The synchronous movement of the X-ray tube keeps the X-ray beam centered on the filmchanger at a fixed SID of 6 feet or 10 feet (selected at installation).

Because the Pulmo Diagnost is designed to require minimal floor space, stretcher cases are easily accommodated, even in smaller rooms.

Large-Chested Patients Easily Examined with New Rotatable Collimator and Clip-on Cassette Holder

The Pulmo Diagnost's new rotatable collimator and clip-on cassette holder extends the system's examination capabilities to handle those patients whose chest size exceeds the norm. After clipping a cassette holder for 17" x 14" film onto the front of the filmchanger, the operator inserts the cassette and pushes the collimation selection lever on the tube housing. Any seated, standing, wheelchair or stretcher patient with a large chest can now be radiographed.

