

Daylight Repro Camera X-3500 Series



Fast repro camera with Electronic Contrast Modulation (ECM) for a serial and loss-free reproduction of radiographs. Because no darkroom is required, this camera provides an easy and efficient workflow. This equipment is suitable for an economical recording of radiographs to reduce archive room or for the integration in a data base. Either a 35 mm-microfilm camera or a digital camera can be fitted.

- Unique image quality!
- Authentic reproductions
- Over 2'500 exposures per day
- Faster than scanning systems
- Reliable operation

Available models

X-3500

Standard cabinet with reproduction ratio 15x. Delivered with digital camera.

X-3500DL

Cabinet with Double Lens System with reproduction ratios of 15x and 10x. Delivered with digital camera.

Camera systems

MFK-35 Microfilm Camera 35 mm

Step camera for film spools with 35 mm x 30.5 m, unperforated. Automatic film advance, load check and lightproof cassettes. Image format 27 x 32 mm.

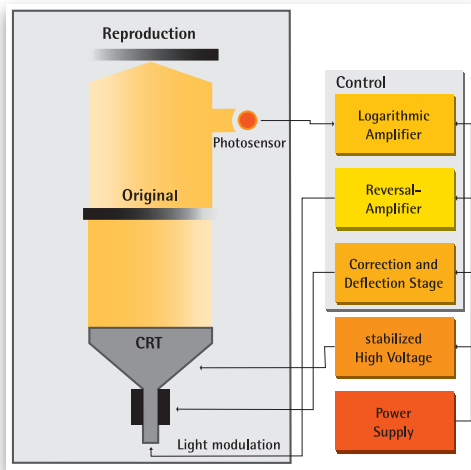
D-11M Digital Camera

High resolution digital camera with 11 Mpixels, 16 Bit - A/D, 14 Bit-RGB output. IEEE1394 FireWire interface. For WIN or MAC. Including software and accessories.

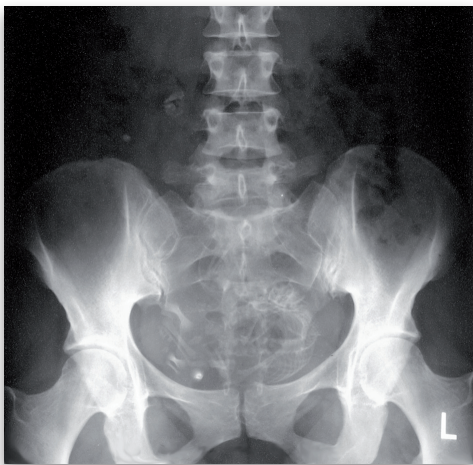
Technical data

- **Original formats**
Up to 35 x 43 cm.
- **Reproduction ratio**
15x with standard model, or 15x and 10x with DL-models.
- **ECM**
Adjustable in 6 levels from 0 to 5 for automatic dodging of images.
- **Density Analysis**
A highly sensitive photographic sensor analyzes the original in real time. The complex selection guarantees precise densitometry for at least 4 decades.
- **Exposure**
Automatic triggering after push the loading drawer. Digital time base for highly precise exposures.
- **Speed**
Average exposure time <10secs.
- **Light source**
A high resolution cathode ray tube (CRT) for radiographs. Integrated overhead lamps for documents.
- **Other facilities**
Keyboard for programming the ECM and exposure bias. Illuminated table for an easy positioning and appraisal of originals.
- **Electronics**
Modular assembly in CMOS technology.
- **Power supply**
230Volts ac, 250VA (115Volts available on request)
- **Dimensions**
180 x 70 x 102 cm, 85 kg

ECM is significant for medical imaging



During reproduction utilizing the ECM-Process (Electronic Contrast Modulation), developed by Scanatron, photographic films are automatically corrected and standardized; loss-free, time and cost saving. Due to bilateral emulsion coating, X-ray films attain however only a density range of between 1.0D and max. 3.0D. In a conventional reproduction much informations outside the density range of the photographic medium is being lost. Only by compressing the original by ECM optimum transfer to the recording medium will be realized. In contrast to conventional systems with incandescent or halogen lamps, ECM utilizes a high sensitive cathode ray tube (CRT) as a light source. This generates a micro light spot, which transfers the original film to be reproduced onto a photographic or digital recording medium. A high-sensitive photomultiplier electronically controls the intensity of the light spot in relation to the original's density, and accordingly also the partial exposure. Dark areas will be automatically exposed more, light ones less intensely. Thereby a well balanced global and detail contrast is achieved across all portions of the image. Since this does not result in any loss of information, ECM processed images enable distinct and precise interpretation. A photographic law has been broken!



Other products



SCANATRON ECM