

Process Camera :- The main function of a process camera is to make accurate copies at scales different from that of the original. The basic components of the camera are a means of holding the 'copy', a holder for the lens, linked by a light-tight bellows to the camera back which contains the unexposed photographic material, and some form of artificial illumination*. Of the three main elements, the copyholder, the lens, and the film or plate holder, two must be adjustable, in order that

* quartz hallogen

an image can be produced in focus to the size required.

(ideal to have vacuum copy board as well as film-holder)

Contact Copying on sensitised materials is normally carried out by the use of a vacuum frame.

Contact copying on photographic materials is widely used for all operations in which scale change is not involved, including image transfer, changing image form from negative to positive. Although all these operations can be carried out with a process camera it is cheaper.

Exposure of photographic materials in contact can be done with a 'contact box' in which the subject and unexposed photographic material is face down. Wards, and exposure is provided by an array of lamps in the bottom of the box.





Diazo:- The original to be copied must be a positive image on a thin transparent material, is placed face upwards on paper coated with diazonium salts. Drawing and sensitised paper are fed into machine and, while passing round a glass cylinder, are exposed to ultra-violet light which burns away the yellow coating, excepting for those places where the inked areas prevent the light from reaching the sensitised coating. These image lines stay yellow, the non-printing areas turn white. The paper is then passed through ammonia gas which develops the 'sheltered' areas.

It is a cheap way of reproducing sizeable drawings
(although machines expensive)

Copies gradually fade when exposed to light and not
particularly good quality. (F.C. could replace with Océ
4040, no extractor fans, mobile, cheaper)

main form of copying in F.C. (camera enables us
to make better masters)