Device to reproduce images or graphical patterns in general on large surfaces comprising at least a printing system (14) mobile in at least one direction with respect to a support frame (12) an optical viewing system (100) associated with the support frame (12) and able to recognize the position of the portion of image already executed and to recognize possible reference signs affixed in the step when said portion of image was executed in order to allow the correct positioning of the device so as to execute the adjacent portion of image that has to be executed next.