WORKING & CRT Screen

The phosphox sheet has power of illumination when it sense electron. The duration of illumination is in some micro seconds and can be increased a little by adding substances like silver, gold or branze. To draw a steady image it is required to continuously redraw the image. There are two ways to redraw the image.

Random Scanning - In this type of scanning
the electron gun continuously
emiles electron to draw the required image
only. It does not touches the whole
screen. However, Random scanning is
not feasible on real time systems.

algorithm the whole screen is drawn continuously from the left top corney to the bottom right corner.

The speed of drawing the image to screen is measured in number of iteration per second called "Refresh Rak".

Refresh rate to measured in Hz (Hentz):

For eg: if the refresh rate of screen to BOHz, it means that screen will

The following are some steps used by CRT screen

- I. The data for the image will be send to the CRT through external interface colled power pino. Usually, this data will be transferred from CPU.
- 2. The intuinal components of the CRT becomes
 Och voted as soon as it received the data.

 At first, the electron gun starts emitting
 electron with its full capacity through pin
 point nozzle.
- 3. The focus ring then collects the electron to convert it to a beam (ray of electron). The focus ring emits collected electron as beam of electron.
- 4. The beam of electron their parses through magnetic deflection coil. This deflection coil decides the path of beam of electron. As we know that the electron are attracted by magnetic field, the deflection coil plays a

major role to sand the beam to each and
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