

Displays: The purpose of the radar display is to visually present the output of the radar receiver in a form such that an operator could readily and accurately detect the presence of a target and extract information about its location. (21)

The purpose of the display is to visually present in a form suitable for operator interpretation and action the information contained in the radar echo signal.

- > Display is a unit of radar receiver which presents the radars information. It is a Coupling link between the information and human operator.
- > The Cathode ray tube (CRT) has been almost universally used as the radar display.

Types of Radar display:

There are two basic Cathode ray tube displays

1. Deflection modulated CRT display, such as the A-scope in which a target is indicated by the deflection of the electron beam. These displays have simple ckts than those of intensity modulated CRTs.
2. Intensity modulated CRT display, such as the PPI in which a target is indicated by intensifying the electron beam and representing a luminous spot on the face of the CRT. These displays presenting data in

a convenient and easily interpreted form.

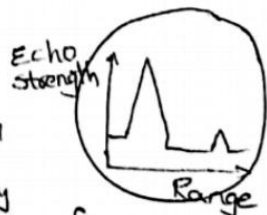
→ The deflection of the beam at the appearance of an intensity modulated spot on a radar display caused by the presence of target is commonly referred to as a blip.

→ The deflection modulated CRTs, such as the A-scope generally employ electrostatic deflection.

→ Intensity modulated CRTs, such as the PPI, generally employ electromagnetic deflection.

Salient features of Type-A scope display:

1. It presents range only
2. Its vertical axis represents echo strength and horizontal axis represents range.
3. Its circuit is simple
4. It is the most popular display
5. It is suitable with tracking radar
6. It is deflection-modulated CRT display



-fig: A-scope display

Salient features of PPI

1. It is also called P-scope
2. It displays the map of target area
3. It is intensity modulated CRT display
4. It provides range information
5. It is used in Search radars.

types of displays:

The other types of displays are A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, R and RHI Scopes (Range-height Indicator).