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# CRIME SCENE SCANNING



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# CONTENT:-

1. Crime scene scanning
2. Components
3. Passive 3D imaging
4. Advantages



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# CRIME SCENE SCANNING

- Crime scene scanning also known as drawing or mapping is a combination of science including photographic skills, evidence collection, preservation, and evidence handling, measuring the crime scene as well as evidence.
- Crime scene scanning helps us the activity involved in a outdoor or indoor crime that will fetch us to give a details of the possibility or the prediction of crime committed by the offenders.

# COMPONENTS:-

- Crime scene scanning involve 4 components such as;
  - 1) Total station
    - a)An electronic theodealide
    - b)An electronic distance
    - c)A computer or microprocessor
  - 2) The Prism
  - 3) Data collection device
  - 4) Mapping of diagraming software



# PASSIVE 3D IMAGING:-

- Passive 3D imaging helps to find out or determine or identify each and every aspects related to crime. Later on it is modified and called as passive 3D vision system.
- Essentially passive 3D vision system is one in which information about the scene is recovered in 3D having its own source of light or other source of electromagnetic radiation onto that scene.

## Contd...

- EMR usually followed a path only in a infra-red and as well as visible rays.
- When we usually dealing with the passive 3D vision system we will be using a stereo vision.
- Stereo vision combines multiple images with respect to angle which gives a clear indication and identification of a crime.
- Stereo vision always records the images in different different scene and that will kept in one single point is said to be called as scene of depth.

## Contd...

- In 3D vision system we also use thermograph which help the scanning of thermal imaging.
- Thermograph used to measure heat and blood flow in body tissue.

In crime scene scanning we usually use some of high definition camera such as CCD and CMOS.

- These 2 camera absorb light source and then they covert these light to electrical signal which gives accurate, prominent evidence present in a crime scene.

# ADVANTAGES OF 3D SCANNING :-

- 3D scanner provides the overall 3D view with all the angle along with 360 degree.
- 3D scanner can click images on higher resolutions upto 5000 points per second. This helps the investigator to get a better view.



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