FARO 330 HDR

Scanner V. Total Station

Task	Scanner	Total Station
Operators	One	Two
Leveling	Self Leveling	Manual Leveling
Data Collection	Entire Scene	Points Selected
Time	Minutes	Hours
Data Upload	Automatic Scene Construction	Manual Input Needed
Human Error	Minimal	Likely

Applications

Investigations

- 3D imaging of crime scenes
- Ability to walk the jury through the scene
- Ability to locate missed evidence
- Built in trajectory analysis for blood spatter and ballistics
- Presentation can be integrated with photos and video

Applications

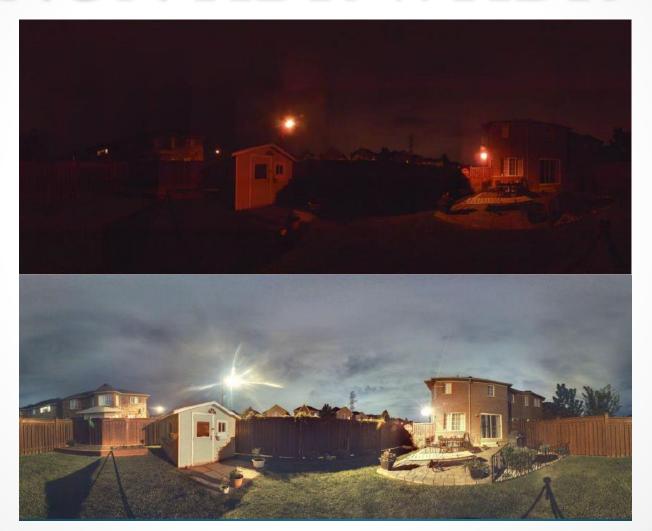Disaster and Tactical Preparedness

- 3D layout of buildings- i.e. schools
- Ability to see the room as it was scanned
- Ability to know what is on the other side of the wall
- Allows for better planning and operations.

Applications
Collision Reconstruction

- Shorter road closures
- Shorter on scene times
- Greater Accuracy
- Ease of use
- Reconstruction applications- i.e. Linear Momentum

NON HDR V. HDR

Example Videos

- [Operation](#)
- [School Diagraming](#)
- [Intersection Diagraming](#)

Use Example

- On 08/21/15 officers Responded to a fatal traffic collision at SR347 and Farrell Road. The scene was approximately ¼ mile long and consisted of two vehicles.
  - Evidence collection took over 3 hours
  - Points were not taken properly for part of roadway
  - Diagram was completed over a week to complete

- With Faro
  - Approximately 27 scans in 105 minutes to complete
  - No human or Total Station error
  - Roadway would have been cleared quicker
  - Diagram completed within 48 hours

Cost

- The HDR unit package will be approximately $125,000.

- The Non HDR unit will be less, Gila River stated theirs was $94,000

- Cost reduction options.
  - GSA- 10 to 15 percent savings per item
  - RICO Funds- Due to department wide impact
  - Grants
  - Partnership with MUSD, city, and/or businesses who desire for their business to be scanned.

Thank you for your consideration