e-SafePRO - Guide to Data Collection Modes

DATA COLLECTION MODES

All data collection using the e-SafePRO system is based on the progressive collection of data along parallel scan lines over the area of interest, with ea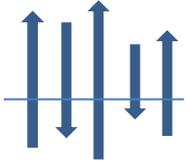ch subsequent scan line being to the right of the previous one The direction of data collection along each individual scan line can however be varied to suit on-site practicalities and operator preference.

To make the collection of data as easy and consistent as possible the e-SafePRO provides 2 Primary modes of data collection "**BASELINE**" & "**SWITCHBACK**" and 1 secondary mode "**SYNCLINE**".

BASELINE
This mode is typically used to collect one or more parallel scan lines over short distances and will produce the most linear results in adjacent scan lines. Each scan line must start from a common linear reference line such as a kerb line, wall or arbitrary line marked on the ground. All data must be collected in the same direction ie. Forwards (Pushed) or Backwards (Pulled). Scan lines may however be of differing lengths.
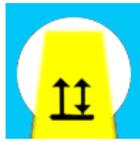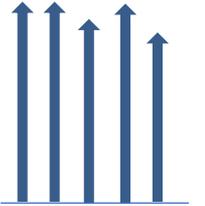
Baseline Forward (Pushed)

SWITCHBACK
This mode is typically used to collect multiple parallel scan lines in a forward (Pushed) direction over longer distances. Each line must start and end at a common linear reference line such as a kerb line, or arbitrary line marked on the ground. As each Scan line is ended, the system will automatically adjust the data on screen to maintain the correct order & alignment as the operator turns through 180 degrees to start pushing the system in the opposing direction along the next parallel Scan line,. It is also possible to use Switchback mode for Reverse Scan lines ie. Pulling the system in a backward direction however; this can be difficult on uneven terrain.
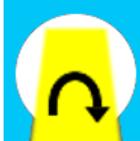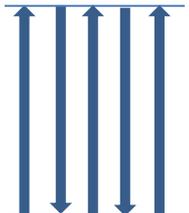
Switchback Forward (Pushed)

SYNCLINE
This secondary mode may be used in conjunction with either of the preceding primary modes, to collect data where no topographical features exist in order to aid alignment of multiple scan lines.

Each parallel Scan Line may start and end at a random point and be of completely different length.

Each Scan line will instead be aligned to those collected before and after, by means of a marker inserted into the data; by the operator, as the system is moved over a linear reference line. This may be a carriageway line, Scar line on a highway, or simply an arbitrary reference line marked on the ground. To insert the marker into the data simply press the "Syncline" ICON as the system passes over the reference line.
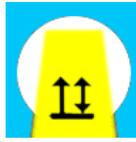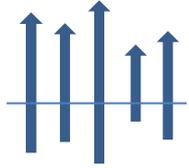
Baseline+Syncline

Switchback+Syncline