CleverScan Manhole Scanner

CleverScan Hardware
Portable manhole inspection system: Dimensions: 24” base, 3’7” tall Weight: 38lbs
5 HD cameras 4 side wall scanning cameras 1 forward view video camera
Laser technology to generate point cloud and enable measurement capabilities System uses 4 projected lasers lines to accumulate dimensional information
Battery Powered allows for a full day of scanning
10 meters (32’) of cable on an integrated cable drum
Capable of scanning manholes up to 2 meters (6.5’)
Adjustable positioning for quick setup of the device on the manhole Adjusts for offset manholes Adjusts to accommodate slope of the access point
Rapid scanning speed
Automatic scanning procedure eliminates user errors minimizing damage potential and increasing efficiency.
Laser depth measurement to capture accurate manhole dimensions
Auto calibration to stop and retrieve camera head when scan is complete minimizing the potential for the camera to come in contact with the manhole bottom.
Integrated accelerometers allows software to compensate for torsional and pendular motion
CleverScan Software
Dedicated operating software controls all CleverScan operations User can adjust system parameters in the field
Automatic processing of scans in the field
Displays full manhole wall in an unfolded view
Able to zoom-in on unfolded view for close examination of defects
Able to reposition outflow line to 6 o’clock position in unfolded view
Able to adjust height measurement of manhole after processing
Onscreen measurement in unfolded view Overall shape and dimensions of the manhole Point and click crack and defect measurement
Full motion video displayed on screen
Virtual pan and tilt with the ability to view entire manhole surface using a mouse
Point cloud generation allows user to take measurements and view shape of manhole Point cloud is exportable to CAD programs
Full integration with the WinCan reporting software package
Defect coding directly connected to MACP catalog when attached to a Wincan report.