

Long-range Imaging Station



Topcon's Imaging Station, the IS-3, increases the longest scanning range to 6,500 feet (2,100m). Its patented prism tracking scanning interface technology X-TRAC 8 has, according to senior vice president of Topcon Positioning Systems Survey Business Unit Denny Welch, a new onboard feature that provides quicker scanning definition, faster image collection and an onboard preview of scanned data.

End-users face many different job site situations, and will need the ability to switch configurations. The IS-3 can switch from a one-man robotic setup, to an on-board scanning and long-range reflectorless system, to a very user-comfortable remote laptop interface.

ImageMaster software, which comes standard with the IS-3, now includes a volume calculations feature at no extra charge. The IS-3 also has a new high-space Grid Scan feature that obtains 3D data by automatically scanning at a specific pitch within a specified area. Using Topcon's image analysing ImageMaster software, 3D models are created from the data. The software forms TIN images from 3D point cloud texture-mapped 3D data. Additionally, the software provides image and scan control of the IS through a wireless local area network (WLAN) using an internal modem.

The device also has two built-in digital cameras, a wide-angle and a 30x tele-zoom with complete image storage. Another feature is the continuous monitoring which complements the everyday function of robotic surveying. When combined with a data collector and Topcon's RC-4, a compact remote system that integrates an array of advanced technologies, the system in a one-man survey system.