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viewed in 3D. Previously, deliverable options were based on using false colors or gray-scale for the scene. The true color overlay (also known as texture mapping) option can be used for site planning & design, forensic analyses, educational & entertainment applications, and client marketing presentations. One of the key aspects of Cyra's implementation of this feature is the ability to perform this overlay in an intelligent, geometrically accurate manner. The texture mapping feature is part of all standalone Cyclone modules that include viewing capability. Texture mapping is also part of SmartScan Technology™, a set of features that gives users additional scanning controls and tools to scan sites «intelligently». The ability to scan sites intelligently enables users to apply laser scan-

ning on a wider variety of projects, minimize total project costs, and maximize the quality of project deliverables. (See separate press release, «New, Accurate Color Overlay Feature in Cyrax 2500 3D Laser Scanner's SmartScan Technology™».)

#### New Features for Plant & Facility Applications

Two important new features in Cyclone-MODEL v4.0 are specifically designed to improve the use of laser scanning for plant & facility modeling applications:

- Previously, point clouds could be «best fit» to CAD primitives (e.g. cylinders, to represent pipes) for export to plant design CAD applications. Now, in addition to best-fit methods, point clouds can also be fit to catalogs for piping and steel

geometries per ASME and AISC tables and specifications. In addition to AISC, other international tables and specifications are included in Cyclone v4.0 and the user can add new tables. Fitting to catalogs can further reduce office time and ensure more accurate and consistent 3D models.

- A new «Piping Mode» feature lets users add important piping information to piping components (including line number, specification, Symbol Key, insulation thickness, etc.). This will reduce the office time and labor involved in creating intelligent 3D CAD models from point clouds.

#### New Features for Civil/Survey Applications

- Cyclone-SURVEY v4.0 is a new,

standalone module that is a subset of the features in Cyclone-MODEL v4.0. Cyclone-SURVEY v4.0 contains features specific to surveying and civil engineering projects, such as automatic removal of shrubs and brush, TIN and DTM creation, edge fitting for breaklines, creation of contours, intelligent surface model decimation, Virtual Surveyor™, and other tools. Cyclone-SURVEY is offered at a 50% cost savings compared to Cyclone-MODEL. Both Cyclone-SURVEY v4.0 and Cyclone-MODEL v4.0 contain the following new features:

- Users can now automatically create topographic breaklines from rich point clouds using a new «Fit Edge» template tool. This tool, which creates polylines by accurately sweeping



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