



Ultra-dense point clouds to visualize details of surface profile – 20cm contour lines in 1/200 map

‘Visualization has become one of our key technologies that increases customer satisfaction and increases our brand strength’

Tamano Consultants Company Ltd. in Nagoya-city, Japan, is one of the leading surveying and consulting firms, especially in the areas of infrastructure and city development. Tamano Consultants recently conducted topographic and as-built surveys for an improvement project of parks around the ancient burial mound with a cutting-edge laser scanning technology.

Kazuya Oota, deputy manager of city survey department, said, “The primary purpose of our introduction of the Topcon GLS-1000 was to meet the emerging demand for 3D design data. When we first presented the GLS-1000 at our internal technical session, we received many

inquiries about its possible use from various departments, which convinced us that the 3D technology was becoming one of the keys for our business.”

Oota said, “The GLS-1000 captures ultra-dense point cloud data, with which the details of surface profile can be visualized on a PC screen. It enabled us to draw 20cm (7.8 inch) contour lines in the 1/200 scale topographic map, which was impossible with conventional survey technologies. Wireless LAN capability is also very convenient for data downloading.”

Tadahiko Imai, assistant manager of survey section in the city survey department, said, “The 3D point cloud data captured with the

GLS-1000 allows us to visualize the overhang parts using 3D models. Creating such data without the laser scanner would have been impossible.” He said, “Measurements of slopes have also become far easier and safer. We don’t have to work in dangerous areas at all.”

Tsuneo Asakura, director and executive officer of Tamano Consultants, said, “Our clients appreciate the 3D models created on basis of scanning data because they are much more understandable than 2D photographs. The 3D models are quite useful for presentations of grand design and spatial planning, with which we can explain details to our clients without additional words.” Asakura said, “Visualization has become one of our key technologies that increases customer satisfaction and increases our brand strength.”

Masahiko Sakakibara, executive officer of the company, said, “We will strive to create innovative solutions with utilizing the GLS-1000 to provide our clients with additional values, and to enhance our position as a general consulting company.”



Tsuneo Asakura,
Director and Executive Officer



Masahiko Sakakibara,
Executive Officer



Kazuya Oota,
Deputy Manager of City Survey Department



Tadahiko Imai,
Assistant Manager of City Survey Department