



*In places where fiber can't reach, whether due to physical or economical constraints, you might resort to an 802.11a, b, or g link. Then again, distance, bandwidth, or security requirements may rule out Wi-Fi. Canon's Canobeam optical transceivers take the RF out of wireless networking, overcoming many of Wi-Fi's limitations.*

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## Canon's Canobeam DT-130 Free Space Optics Transmission System

When Stratasys, a leading manufacturer of rapid prototyping systems, recently expanded to a third building at its Eden Prairie MN headquarters, they chose Canon's Canobeam DT-130 Free Space Optics data-transmission System to ensure that design files sent across their computer network always result in precision-made prototypes.

"We have a Canon Canobeam connection to a building we recently opened three-quarters of a mile away across a four-lane highway," explained Steve Glennon, Stratasys system administrator. "The four-lane highway ruled out a fiber link, but line-of-sight Free Space Optics was the perfect solution."

Stratasys' rapid prototyping systems enable engineers in high-tech industries to turn their computer designs into precision models that can be tested for form, fit, and function throughout the product-development

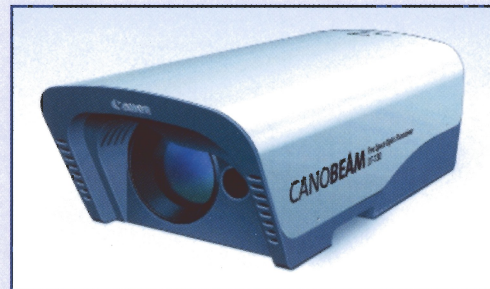
*Using free space optics, a pair of Canobeam DT-130 transceivers is able to securely pump data via a beam of light at gigabit speeds across distances of as far as 1 km. The DT-130's also boast active tracking that can sustain a link even if the transceivers move slightly, such as when mounted atop two swaying skyscrapers.*

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### Canon

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The Canobeam DT-130 provides state-of-the-art data transmission at 1.25Gbps for Gigabit Ethernet Networking at distances from 100m to 1km. The DT-130 also features Canon's exclusive Auto-Tracking Function, 3R Function, and a built-in DT-MNG-100 Management Board for status monitoring and management.

process. Stratasys' need to internally network large amounts of computer-design data among its three buildings in addition to its own day-to-day IT requirements necessitated study into the best options for a high-speed data link. Options included a high-speed radio link, a high-speed data line leased from the phone company, and Free-Space Optics.

"We chose Canon's Canobeam for its active optical (Auto-Tracking) connection," Glennon revealed. "Canobeam has an active system that aims the beam precisely and spreads it less. This enables Canobeam to handle movement between the buildings as well as vibrations and all the things that a high-precision laser is possibly affected by. Canobeam can handle a much tighter-focus beam and optically correct the aiming while it's in use."

Now in its latest generation, the Canobeam DT-100 series is a proven, reliable, and versatile solution for low-cost, high-security, high-speed data-transmission networking at up to 1km at 1.25 Gbps (Gigabits per sec-

ond). The Canobeam DT-120 has a range of 2km (1.24 miles) at up to 156 Mbps. All models in the Canobeam DT-100 series employ Canon's Automatic Tracking Function to maintain beam alignment and compensate for vibrations in the installation base due to temperature, weather, and other factors. Canobeam systems are protocol-independent (like fiber), require no radio-frequency permits or licenses, and are highly secure. Canobeam users include a wide range of business, government, and educational institutions.

*Canon has done well with the DT-130. True gigabit speeds are definitely achievable, and the transceivers performed well even when exposed to the elements.*

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