

CANOBEAM DT-110 WIRELESS DATA TRANSCEIVERS CONNECT MARSHALL MEDICAL SITES SECURELY, ECONOMICALLY

LAKE SUCCESS, NY: Secure transmission of data is always a top priority in the medical field. Moving patients' private information requires constant attention to stringent HIPPA (Health Insurance Portability and Accountability Act) security requirements, which govern the confidentiality of their records. Marshall Medical Center (MMC), an independent health care provider nestled in the heart of California's Sierra Foothills, equipped their constantly growing campus with the Canobeam DT-110 wireless transceiver from Canon to move data with maximum security.

Although MMC's hospital is small at 104 beds, it places a big emphasis on outpatient services, and it is consistently adding new buildings to support patient and staff needs. When two new additional sites -- a stand-alone personnel department and cardiology clinic -- were recently added to their campus, an economical, reliable and high-bandwidth link was needed to transfer VoIP and data between the hospital.

Vern Jones, Marshall Medical's Communications Planner/Project Specialist, determined that Free Space Optics (FSO) best met those criteria, while also meeting all HIPPA security requirements. Both times, Jones selected a pair of Canobeam DT-110 wireless data transceivers from Canon, purchased from Tessco and supported by ONS Communications, to create the link.

"Fiber was out of the question -- costs get astronomical as soon as you go digging in between buildings," Jones says. "But the biggest economic advantages are that the Canobeams require no maintenance. We turn them on, point them and go, and we don't have failures or any interference whatsoever from any other RF devices."

Capable of delivering up to 156Mbps at ranges up to 500m, the Canobeam DT-110 allowed MMC to bypass logistically prohibitive copper or fiber connections. In addition, the Canon FSO solution has provided the center with extremely fast setup, and ongoing reliability that keeps their network running seamlessly.

With an extremely high level of security needed to protect their patient's data, Canobeam's point-to-point operation made it one of a very select set of solutions that MMC could turn to. "We realized that with FSO our patients' records will be 100% protected," says Jones. "The only way to tap into the laser is to literally get in front of it, so the level of security from Canobeam far exceeds HIPPA requirements."

As with all of Canon's Canobeam products, the DT-110 uses Free Space Optics, which requires no FCC licensing or frequency coordination. Free Space Optics provides a highly secure and reliable video/audio link that is free from RF interference and signal interception. Canon's other DT-100 series Canobeam systems are proven high-bandwidth data-networking solutions used by corporate and university campuses, government and military facilities, and other situations where existing bandwidth is insufficient, fiber is cost-prohibitive or logistically impossible, or a redundant disaster/recovery system is

essential.

Vern Jones and his team at MMC expect to turn to Canobeam again as the healthcare provider continues to grow. “FSO fits in quite well with Marshall Medical’s drive to stay abreast of current technology offerings,” he concludes. “The next time we add a site, Canobeam will be a very strong consideration.”