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Free Space Optics

EXPANDING APPLICATIONS

- *U.S. Department Of Labor.*
- *Visiting Nurse Association.*



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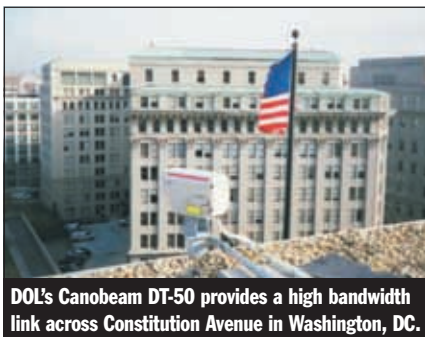
CANOBEAM DT-50 PROVIDES WIRELESS DATA TRANSMISSION SOLUTION FOR U.S. DEPARTMENT OF LABOR, PWBA.

High Bandwidth Network Readily Available With Canon's Optical Beam Transceiver.

WASHINGTON, D.C.:

Efficiently moving data and the huge volume of electronic paperwork is a must at the U.S. Department of Labor, Pension Welfare Benefit Administration, which addresses pension oversight cases nationwide. When it came time to make a quick, economical addition to their network that would work within the zoning constraints of the highly regulated Washington, D.C. area, the office selected the Canobeam DT-50 Optical Beam Transceiver from Canon U.S.A., Inc.

With no FCC frequency allocation required for operation, the Canobeam DT-50 was the perfect solution for connecting two buildings on Constitution Avenue in Washington, DC. "The city has imposed lots of restrictions on digging up the streets," says Darryl Aus, Sr. Network Engineer for PWBA DOL. "This particular division is a high-end database user group. Instead of leasing a data circuit for multiple years for a short shoot across a city street, we put out for a one-time cost with the Canobeam, and it's serving us very well."



CANOBEAM DT-50



Model Name	DT-50/DT-IF156	DT-50/DT-IF622	DT-50/DT-IFFM1
Application	Fast Ethernet*, FDDI, ATM(OC3; 156Mbps)	ATM(OC12; 622Mbps)	25~156Mbps (bit rate free)
Standard Transmission Distance	100~2000m	100~1500m	100~2000m
Laser Wavelength	785±15nm		
Receiving Device	SiAPD		
Data Transfer Rate	125/156Mbps	622Mbps	25~156Mbps (bit rate free)
Auto-Tracking Adjustment	Yes (Horizontal: 4° Vertical: 4°)		
3R Function	Yes		
SNMP	Optional		
Physical Interface	Standard SC Connector Multi mode fiber cable	Standard SC Connector Single mode fiber cable	Standard SC Connector Multi mode fiber cable
Operation Temperature Range	-20°C~+45°C		
Power	AC100~120V/230V(±10%) 50/60Hz (-48VDC optional-Please contact Canon office for more information)		
Power Consumption	approx.50W		
Dimensions	284(W)x332(H)x502(D)mm		
Weight	approx.17Kg		

*Fast ethernet requires fixed Full Duplex interface (without Auto-Negotiation)

Designed with Canon's industry-leading optics and capable of transmitting up to 2 km (1.25 miles), the bi-directional Canobeam has proved invaluable in providing a link where microwaves and cable connections are unworkable. With a data transmission rate up to 622Mbps, 3R technology for strong signal, Autotracking, and constant footprint

function, Canobeam offers an unmatched combination of security, reliability and transmissible distance. Also available in the Canobeam line are the Canobeam DT-55 for Gigabit Ethernet performance, and the economical Canobeam DT-30.

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CANON'S BROADBAND TECHNOLOGY SUPPORTS VISITING NURSES EXPANSION OF SERVICES.

Canobeam Free Space Optics Transmission System Provides Wireless Solution.

BROOKLYN, NEW YORK:

For 114 years, the Visiting Nurse Association of Brooklyn (VNAB) has been bringing personalized home health care to borough residents. A recent expansion that provides quality care to all of New York City's five boroughs and beyond made finding an efficient broadband solution for its computer systems a top priority. However, with the high cost and limited bandwidth of T1 lines, VNAB needed something more than the usual network connection. They found the answer in the unique combination of security, high speed and low cost of the Canobeam DT-30 free space optics (FSO) transmission system from Canon U.S.A., Inc., a subsidiary of Canon Inc. (NYSE: CAJ).

Consistent with the high standards of a company that has been in business for over a century, it was critical to VNAB that they maintain the highest possible computer networking capabilities as they expanded their services. "We are extending to the outer boroughs with the same high quality care that has made us a fixture of the Brooklyn community," said Robert Lanfranchi, director of information

CANOBEAM DT-30



Model Name	DT-30/MM	DT-30/TP
Application	ATM(OC3; 156Mbps), FDDI, Fast Ethernet* (100Base-FX)	Fast Ethernet* (100Base-TX)
Standard Transmission Distance	50~500m	
Laser Wavelength	785±15nm	
Receiving Device	SiAPD	
Data Transfer Rate	10~156Mbps (bit rate free)	125Mbps
Auto-Tracking Adjustment	-	
3R Function	-	
SNMP	Built-in	
Physical Interface	Standard SC Connector Multi mode fiber cable	RJ45 Connector Twist Pair Cable (UTP Cat.5)
Operation Temperature Range	-20°C~+45°C	
Power	AC100~120V/230V(±10%) 50/60Hz	
Power Consumption	approx.25W	
Dimensions	258(W)x204(H)x509(D)mm	
Weight	approx.9.2Kg	

*Fast ethernet requires fixed Full Duplex interface (without Auto-Negotiation)



Canon's Canobeam DT-30 cured VNAB's networking headaches.

technology systems for VNAB. "Canobeam proved essential to ensuring that our expanded computer system was up to the task."

Faced with the challenge of linking 60 people in three departments that had been moved from VNAB headquarters at 111 Livingston Street, Brooklyn, 920 feet down

the block to 180 Livingston, the organization's research led them to the benefits of Canobeam. "I did the homework and found Canobeam to be the perfect solution," said Mr. Lanfranchi.

"The ROI of Canobeam was very good when compared to the cost of T1 lines,

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Department Of Labor...

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"We've had some very intense storms and fog, but we haven't had a single interruption of service since we started using Canobeam," Aus says. "We've gotten tremendous service and support from Canon, and not having another data circuit to manage or ISP to call in case of an outage is extremely convenient."

Choosing the Canobeam DT-50 has been

"Choosing the Canobeam DT-50 has been instrumental in allowing us to carry out critical public services at top speed... it's important that we be able to respond without delays in the network."

*Darryl Aus, Sr Network Engineer
for PWBA Department Of Labor*

instrumental in allowing the DOL, PWBA to carry out its critical public services at top speed. "This division is more or less a pension help desk, so when the public calls, it's important that we be able to respond without delays in the network," Daryl Aus concludes. "The effect of the Canobeam has been very positive towards eliminating bottlenecks."

Visiting Nurses...

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which we had originally considered: the aggregate 7.8 Mbps those T1s would have provided were not even close to the 156 Mbps data transfer speed that our Canobeam DT-30 gives us. "We also chose Canobeam because it is very secure -- total confidentiality is a must. Just as important, it's proven to be an extremely dependable performer. I've monitored the network through fog and some heavy-duty thunderstorms, and the circuit has always worked flawlessly."

The Canobeam DT-30 is part of Canon's Canobeam line of FSO transceivers, which has emerged as a highly flexible and secure system for network carriers and enterprise users connecting corporate LANS. With a range of up to 500m (1640 feet), the DT-30 is ideal for completing the "last mile" in optical networks, supporting data rates of 10 to 156 Mbps. Each unit comes with built-in management capabilities via SNMP and Telnet, and no FCC allocation, permit or license is required.

VNAB's Canobeam was installed on site by LAN/WAN integrator PROMENET, Inc. "Canon is a pioneer in FSO with an outstanding reputation throughout the industry," said Nicholas Sidoti, account executive for PROMENET. "Canobeam's high performance, cost effectiveness and fast setup made it the ideal solution for VNAB."

Canon's long history of industry-leading optics was another factor in Mr.

Lanfranchi's decision to make Canobeam the key connection in the VNAB expansion. "Canon has been out there for a long time," he noted. "They've been making optics for cameras and laser printers for quite a while, and we felt that going with a known name like theirs would serve us better."

With his expanded network running smoothly, Mr. Lanfranchi is glad to be experiencing the unique capabilities of Canobeam. "When it comes to speed, cost and integration with the current network, you can't stand still because technology changes rapidly," he said. "Canobeam made for a seamless integration of a new building site with no discernable change to the end user's desktops --they're accessing the network as they always did. By expanding

"Canobeam proved essential to ensuring that our expanded computer system was up to the task."

*Robert Lanfranchi,
Director of Information Technology
Systems for VNAB*

our network in a reasonable time frame, using Canobeam is one of the many things we're doing to work more efficiently. It came into play perfectly with our growth."

For more info: Call 1-800-321-4388

(In Canada: 905-795-2012)

<http://www.canobeam.com>

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