



## Company Background

Headquartered in Huntsville, AL, International Broadband Electric Communications, Inc. (IBEC) provides broadband Internet access and enhanced Homeland Security via the existing electrical power system. Drawing on the latest technologies in telecommunications and electrical power systems, IBEC's security products send high-speed, broadband signals across an electric utility's distribution network, connecting any remote location having electrical power to any chosen monitoring location via real-time video cameras. The Company foresees potential standardization by electrical utilities and government organizations on IBEC's BPL surveillance applications in anticipation of future governmental and regulatory requirements. This will ensure the protection of critical infrastructure such as electrical, water, and gas systems, as well as remote government, defense, and other installations.



## The Products and Applications

IBEC currently offers its BPL-based broadband Internet system for powerline-based, always-on, high-speed Internet access and its BPL surveillance and Homeland Security system. IBEC's BPL system is conditionally approved by the Rural Utilities Service (RUS) for deployment on existing power systems. These products enable the entire electrical utility network to function as a high-speed Internet-protocol-based communications network, similar to that of a high-speed packet telephone network or cable data network, while also serving as a remotely-monitored, broadband video security system.

IBEC's key security differentiator is providing surveillance and Homeland Security quickly and cost-effectively at *any* location having electrical service, without the limitations imposed by telephone or cable networks, by using the ubiquitous electric infrastructure. Surveillance cameras, which can be conveniently mounted on existing power poles or electrical distribution transformers, are connected to the electrical network, taking full cost advantage of the existing infrastructure and allowing real-time or recorded monitoring of any remote location from any other location having an Internet connection. Since the system is based on Internet protocols, it capitalizes on the efficiencies, widespread enhancements, and universal capabilities of Internet product standardization.



In addition to providing live video surveillance, IBEC's BPL security system can interface with and remotely monitor many other key parameters, such as smoke, fire, temperature, and radiation, as well as providing tamper resistance and prevention. These additional sensors can simply be mounted alongside the surveillance camera at the remote site, and the pertinent parameters are then relayed over the power lines back to a monitoring station along with the video signals. Another key advantage for Homeland Security requirements is that the IBEC system connects directly to the power lines and delivers unobtrusive, stealth surveillance that cannot be easily disabled or disconnected without incurring the dangers inherent within any power distribution network. This makes IBEC's product the most tamper-proof and economically-attractive remote surveillance system available today - all via BPL.



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