

InBic, Becoming a Global Leader in AI Technology

About the Company

InBic Ltd. is a leader in AI-based low-light/low-resolution image conversion technology, providing real-time high-resolution images in dark environments with its unique Night Ocular X (NOX) technology. Certified as Good Software by the South Korean Telecommunications Technology Association, NOX is highly effective in private and public sectors as it can be used for analyzing nighttime accidents and events, managing traffic and detecting disasters. The technology is contributing to building smart cities and making societies safer. In addition, InBic continues to bring innovation in military and security sectors based on its cutting-edge technology and is positioning itself as a global leader in building safer nations and societies.

Background

NOX V1.0 was born out of the need for accurate and rapid video surveillance in dark environments and harsh conditions in fast-paced modern environments. The video quality of existing video solutions is significantly degraded in low light or complex environments, and these solutions cannot process and analyze data in real-time, making it difficult to respond effectively.

InBic has developed NOX V1.0 by combining cutting-edge AI technology with high-resolution image processing. It delivers the reliability and efficiency required in specialized environments such as military operations and nighttime surveillance, and is designed to ensure effective use of real-time video data considering their growing importance in public and private sectors.

NOX V1.0 was developed with the goal of tackling video quality degradation, and analyzing and eliminating risk factors in real time to maximize safety and efficiency. By meeting the goal, InBic aims to fulfill the video surveillance and analysis needs of various industries and make societies safer and more efficient.

About the Product

NOX V1.0

InBic's NOX V1.0 is an AI-powered video surveillance solution that provides real-time video processing and analytics in low-light and harsh environments. It consists of two products, NOX V1.0 R (real-time solution) and NOX V1.0 A (video analytics solution), and can be used in a variety of applications including military operations, public safety, and private security.

NOX V1.0 R (Real-time Solution)

NOX V1.0 R processes high-resolution video in real time, even in dark environments, and maximizes efficiency with lag-free data transmission and high compatibility with existing systems. It has a wide range of potential applications, including military operations, surveillance missions, traffic control, smart city surveillance.

NOX V1.0 A (Video Analytics Solution)

NOX V1.0 A uses AI to analyze reconnaissance video and real-time data, and provides a wide range of applications such as event tracking and object identification. The solution adjusts brightness and improves the resolution of images to enhance data quality and swiftly detect risks. Therefore, it is highly effective in military

operations, as well as public safety and civilian industrial applications.

NOX V1.0 makes video surveillance more effective in various environments with reliable image processing and analytics, contributing to making societies smarter and safer.

Competitive Edge and Business Strategy

1. Unrivaled Technology

- NOX AI solution: Real-time processing of high-resolution video in FHD 30 FPS or above in low-light environments, and easy integration with existing systems.
- Grade 1 GS (Good Software) Certification and Designation as an Innovative Product: Recognized as the only AI-based video surveillance software in South Korea.

2. Market Success

- Government R&D projects: Technology demonstration projects worth KRW 5.1 billion.
- Military and public sector demonstration projects: building trust with real-time processing and analytics.
- Global collaboration: Technological prowess proven through partnerships with Genetec and Dell.

Categories	InBic (NOX)	Competitor A	Competitor B
Processing speed	30 FPS or higher	20 FPS	15 FPS
Video quality	No data loss	10% loss	20% loss
Cost of adoption	Compatible with existing systems (low cost)	Camera replacement required (high cost)	Camera replacement required (high cost)

3. Customer Value

- Cost-effective: Up to 40% cost savings without the need to replace existing cameras.
- Enhance safety: Rapid detection of threats and analysis in military, public, and private sectors.

With its innovative NOX technology and practical results, InBic is setting a new standard for AI vision and growing more competitive in domestic and international markets.

Future Plans

1. Technology Advancements and Product Expansion

- Developing NOX V2.0 to speed up image processing and implement ultra-low latency technology.
- Developing AI-powered predictive control systems to assist rapid responses.

2. Global Market Expansion

- Entering the markets of Middle East and Europe in areas of smart cities and security.
- Strengthening collaboration with Genetec and Dell.

3. R&D and Collaboration

- Expanding military and government collaboration, and delivering customized solutions.
- Leading AI imaging technology by bringing industrial, academic and research partners together.

4. Revenue Growth Strategies

- Increasing product awareness by participating in trade shows and giving demonstrations.
- Expanding to markets targeting small businesses and individuals by developing compact solutions.
- Expanding to the public procurement market by being designated as an innovative product and a leading supplier.

By innovating its technologies and exploring business opportunities in the global market, InBic plans to emerge as a leader in AI vision.

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* The opinions expressed in this article are the author's own and do not reflect the views of KOTRA.