

Product Introduction



See the Unseen Beyond the Darkness

A safe world even at night
A.I Vision Company

www.inbic.ai

| **Product Introduction**

| **Service Model**

| **Strengths of InBic**

| **Application Field**

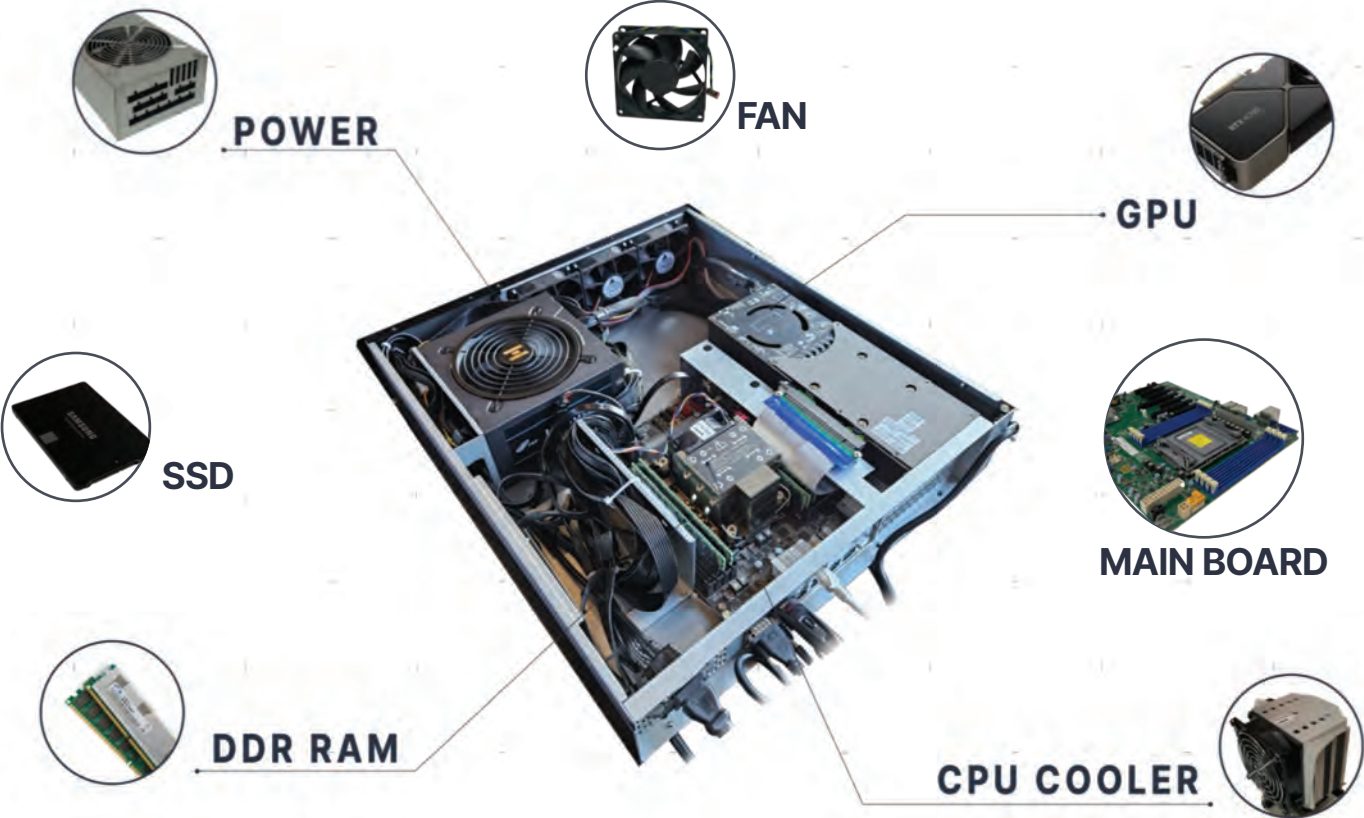
| **Certification performance
and IP acquisition data**

| **Partners**

Product Introduction



Product Introduction

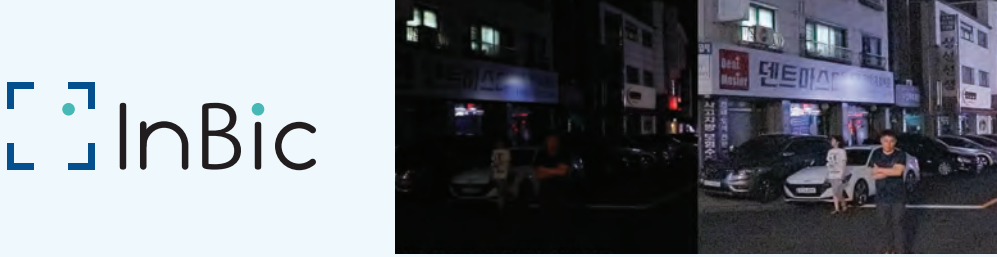


PRODUCT	NOX AI SERVER
SIZE	W:430* H:177* D:7500
CPU	INTEL/AMD
GPU	1~4 EA
LAN PORT	2
VGA PORT	1
USB	4
SSD	1TB
PSU	2000W

Strengths of InBic

Differentiation of InBic Products

- 1 **Real-time high-capacity image data analysis and transmission** → **Korea's only time-free 4k / 30 FPS implementation**
- 2 **NOX is an AI solution that is not dependent on the camera (H/W)**
(Patent holding: image generation method using improved hostile attention network system)
- 3 **It can brighten the essential part with an emphasis using the hint algorithm**
(pending patent)

Category	Detail
Actual Screen	
Resolution	4K
Frame	Real-time 30 FPS
Image Loss Rate	0%

See the Unseen Beyond the Darkness



Product



Services and how to use them



NOX Software

Provides software and security dongle to installed servers or central controls



NOX Hardware

Provides an integrated server for deployment and security key delivery



NOX Object Detection

Provides software for immediate application / NOX Server + Object detection



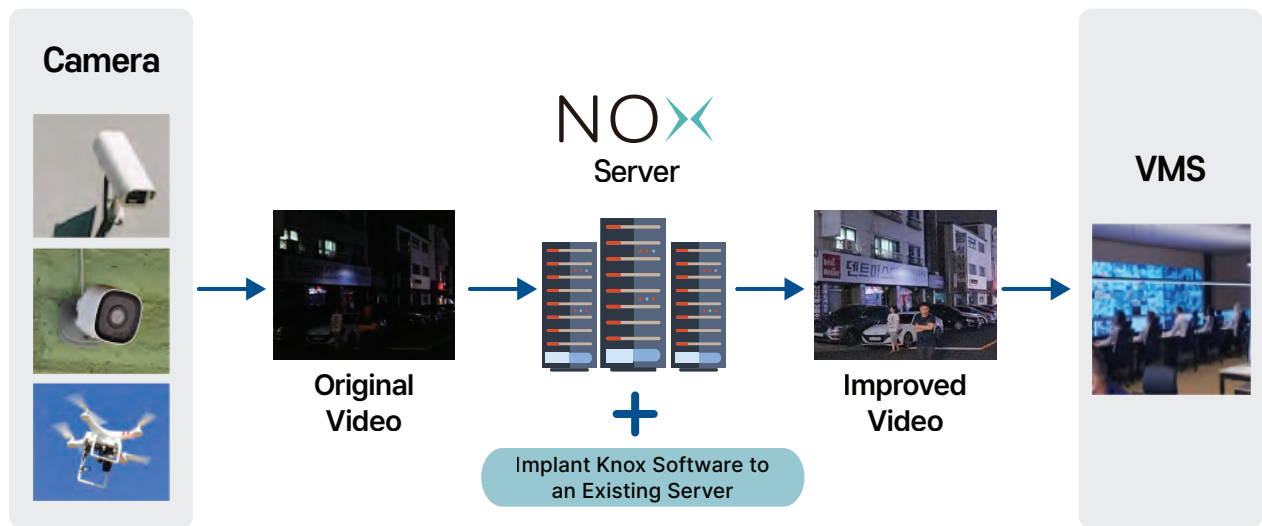
Provides secure USB

Service Model



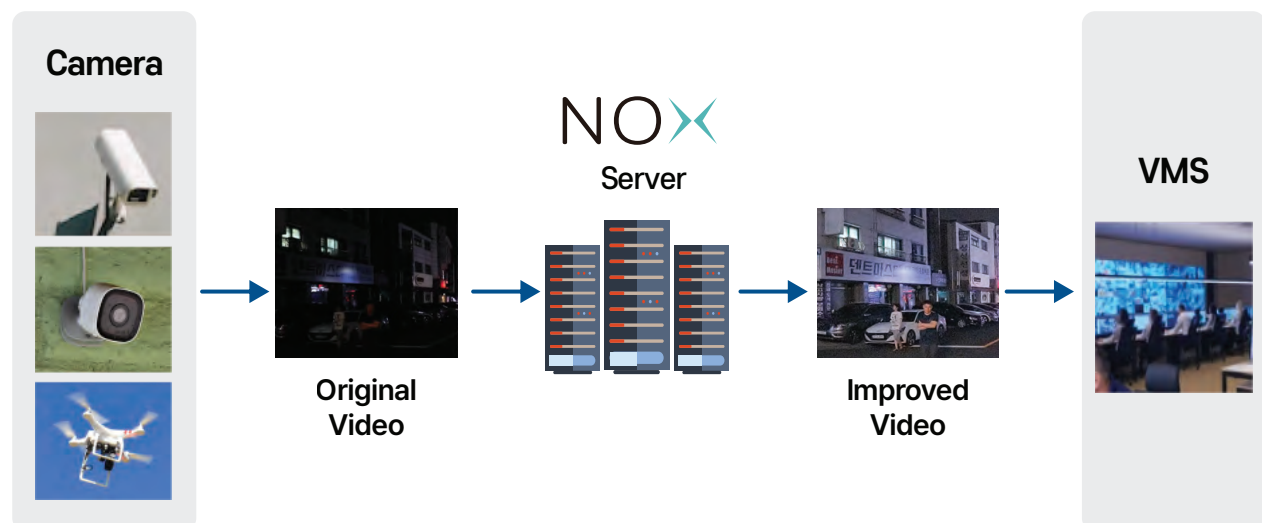
Provides software, a Knox solution, to the installed central control room server

Security Enhancements. Provide security authentication keys that can only be used by certified people.



From all the cameras that can be connected to network

All the cameras that can be connected with network can connect to the NCX server and use improved video through VMS.

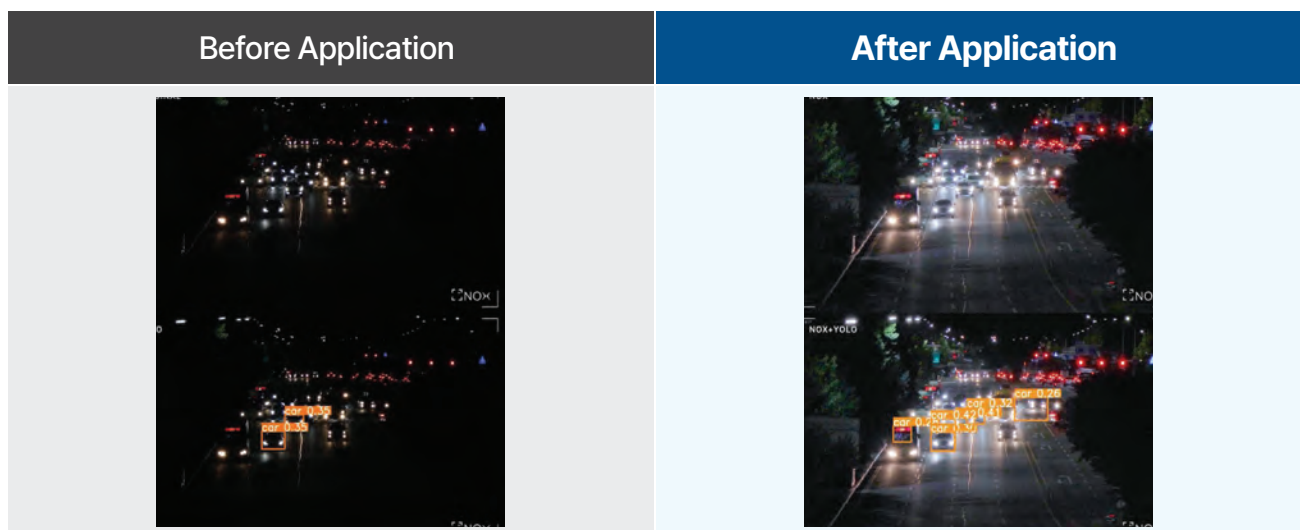


Service Model



	As is		to be
	Analog Method (HW)	Digital Method	InBic NOX
Method	Take video with HW (ex. Longer shutter speed, expanding the aperture, etc)	Use HW performance and image processing technology to make it better (ex. Cellphone Camera)	Real-time video conversion using artificial intelligence. Low light video ► convert by frames
Strengths	Makes video brighter with affordable price	It takes a longer time to capture, but it can get clearer result	Increase object detection rate by converting videos, which are not images, to full fps
Weaknesses	Severe light spread and image degradation happen, and control gaps occur due to low fps (under 30fps) when taking a video	It is vital in a single picture, but only a dark screen will be seen when it turns to video. Also, the processing speed is relatively slow	Cost-wise, it is expensive compared to other products, but lossless fps are required in facilities where control is essential.

AI Low-Light Image Conversion Solution NOX



Multiple Image Simultaneous Object Detection (Multi Modal AI Model)



Digital Twin Service

Application Field



CCTV Boundary Security System



A night-time tactical drone



Construction Site Process and Safety Management



Measuring the distance between ships



next generation of command and control



Digital Twin Smart City



NOX + Multi Modal

Technology applicable to all cameras



NOX + Multi Modal + Digital Twin

Build Smart Seat with Multi-Specific Imaging Device Configuration

Command and Control Intelligence System
Smart Intelligent Additional Systems

Drones, submarines, self-driving cars, smart seats

Image analysis of CCTV and other video media



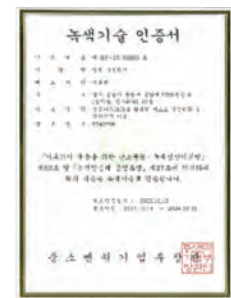
TECHNOLOGY

Business Item

Certification performance and IP acquisition data

Certification Performance Status

Certification	Organization Name	Date
Venture business certification	Venture business verification agency	2021.07.07
Small and medium enterprise certification	Ministry of SMEs and Startups	2023.05.29
STEP Partner Certification	Hanwha Techwin	2020.07.09
MOPL Partner Certification	Hanwha Vision	2023.01.01
Accreditation of an excellent technology company	The Incredibles	2023.03.23
ISO9001: Quality Management System	Korea Standards Association	2023.05.03
ISO14001 : Environmental Management System	Korea Standards Association	2023.05.03
ISO45001: Safety and Health Management System	Korea Standards Association	2023.05.03
Green Technology Certification	Green certification	2023.10.19
Inno-Biz (Inno-Biz) Certification	Ministry of SMEs and Startups	2023.10.20



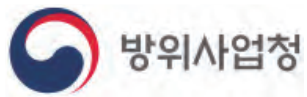
Certification performance and IP acquisition data

9 registered patents, 4 applied patents, and 2 PCTs

IPR	Title	Grant/Application number	Holder
Granted	Apparatus and Method for Convolutional Neural Network Quantization Inference	10-2455310	ETRI Technology Transfer
Granted	Enhanced Adversarial Attention Networks System and Image Generation Method Using the Same	10-2567128	InBic Inc.
Granted	Detecting System for Approaching Vehicle in Video and Method Thereof	10-2172849	InBic Inc.
Granted	System For Analyzing Character of Target	10-1858989	ADD Technology Transfer
Granted	Bridge Alarm Management Device and Method	10-1201471	InBic Inc.
Granted	Touch Screen Detection Method Using Fast Search Algorithm	10-1582749	InBic Inc.
Granted	Port Watching System	10-1071379	InBic Inc.
Granted	Abnormal Behavior Detecting System Using Artificial Intelligence	10-2608941	InBic Inc.
Granted	Object Detection and Tracking System and Method Using Edge CCTV	10-2023-0053475	InBic Inc.
Applicated	Improving Method of Low-Light Image Using Hint Algorithm	10-2022-0110703	InBic Inc.
Applicated	Method And System for Detecting Objects in Night Images Using Image Style Transfer Techniques	10-2022-0124229	InBic Inc.
Applicated	Device And Method for Object Recognition in A Low-Light Environment Using Artificial Intelligence	10-2022-0124230	InBic Inc.
Applicated	Improving Method of Low-Light Image with Brightness Attention Map	10-2023-0053476	InBic Inc.
PCT Applicated	System And Method for Object Detection and Tracking Using Edge CCTV	PCT	InBic Inc.
PCT Applicated	Improved Hostile Attention Network System and Image Generation Method Using It	PCT	InBic Inc.




Partners





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