

Intelligent XR BORA

AWESOMEPIA

bora



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*** Prologue**

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02 Key Products & Services

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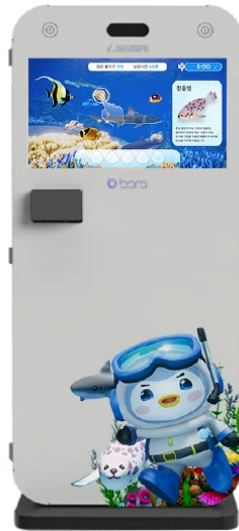
“Intelligent XR Platform” Business Model

Stage 1_XR Device Service

~ 2023 (1:1 Interface, B2G Model)



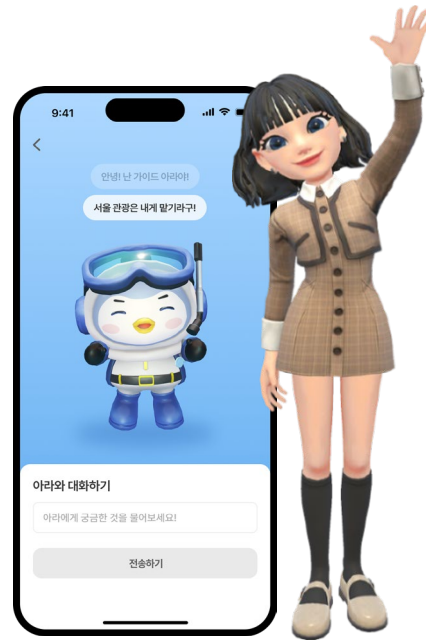
1. SKY BORA



2. PLAY BORA

Stage 2_Advanced AI Backend Technology

2024 (1:N Interface, B2C Model)



Consumer payment module (B2C) integration

Stage 3_ Data Services

2025 ~ (Expansion into B2C integrated solutions)



AI-driven backend data services

Intelligent XR convergence platform services, integrating online and offline

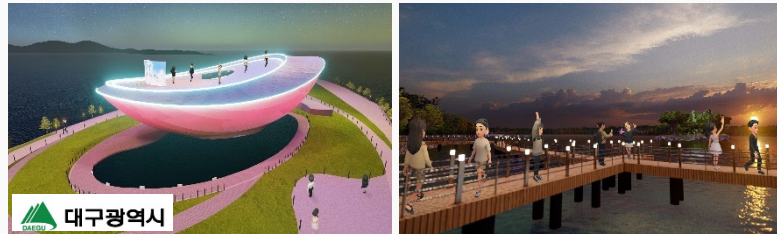
01

Company Overview

Company Name	Awesomepia Co., Ltd. (Established: March 11, 2015)
CEO	Munho, Min
Number of Employees	16 (As of February 2025), Key management details are on the official Awesomepia website (www.awesomepia.kr)
Major Product	<ul style="list-style-type: none"> Intelligent XR Devices (XR BORA) XR Service Platform (MetaLive) Hybrid Beacon Solution
Major Shareholder	Lotte Group <Daehong Communications>, Korea SMEs and startups Agency and others
Registered Address	(Headquarter) 2F, 27, Seolleung-ro 93-gil, Gangnam-gu, Seoul, Republic of Korea (Branches) Daejeon,Ulsan,Jeju
Awards	<ul style="list-style-type: none"> InnoBiz Certification, Seoul-Small-Giant company, Best Employer Award, R&D Lab. BORA : Ministry of Science and ICT Designated as an Excellent and Innovative R&D product, National Procurement Service Innovative Products, Ministry of SMEs and Startups Pilot Purchase Product Certification
Prizes	<ul style="list-style-type: none"> 2024 Seoul Award Excellence Product Certification (BORA, Seoul Economic Promotion Agency) 2024 Awarded the 2025 New Technology Development Award (BORA, Korea Election Voters Federation) 2023 Governor's Prize, Seoul (Metaverse Platform and Intelligent XR) 2023 Minister's Award (By Korean Ministry of SMEs and startups) 2023 Best Korean Small-Giant company, Grand Prize (Innovative Product XR System Division) 2022 Governor's Prize, Gyeonggi-Do 2021 Minister's Award for Applied Tech. (By Korean Ministry of SMEs and startups) 2021 Best Korean Small-Giant company, Grand Prize (Innovative Product, Metaverse)



Major Projects (Completed)



Metaverse Trip to Daegu & concert (Daegu Odyssey Project)
Seomun market, Suseong lake, Daegu Museum, 83 Tower, etc.,
Implementation of 12 tourist destinations in Daegu



Mental Wellness VR



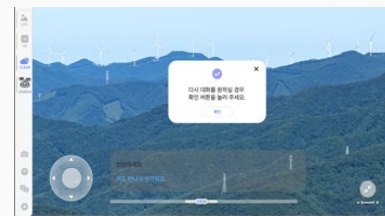
Pyeongchang Winter Olympics AR game



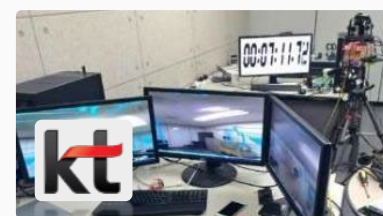
VR documentary, Jeju Haenyeo for Google



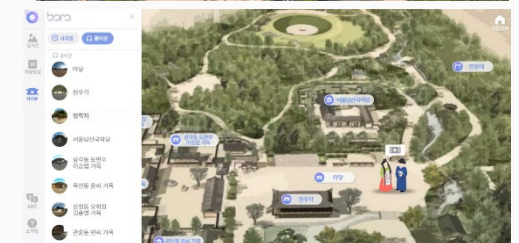
Development of a Demo Environment for Object Recognition Technology



Developed NIPA AI Chatbot
*XR Telescope applied sample image



Korea's First Low Latency 360 VR Live Streaming Technology Development:
Achieving 0.7 Seconds Latency(Delivery to KT)



MetaCity: Meta Tourism
(MSICT, Seoul)

Myeong-dong, Namsangol Hanok Village

INSTALLATION

- Over 10 million users annually using our XR BORA.
- Scheduled to be installed and begin operation in April at Namsan N-Seoul Tower (B2C model)



Seoul

Hanok Village, Namsan-Gol
Lotte World Tower EBC
Jaemirang, Myeong-Dong



Animation Center, Seoul
Ani Picnic / Comics Cafe
Seoul Sky Observatory
Lotte World Aquarium



Gyeonggi-Do

Dora Observatory, Paju
Unification Observatory, Odusan
Aegibong peace Eco Park
Typhoon Observatory,
Yeoncheon



Busan

Golden Noeul Bridge
Korea Youth Work Agency
BUSAN X the SKY
Korea Hydro &
Nuclear Power



Streaming Service

Incheon, Changwon, Jeju,
Gongju, Mokpo, Busan
Unification Center



Incheon

End Island Observatory,
Baengnyeongdo Island



Jeonju

Woosuk University



Daegu

Apsan Observatory



Gangwon-do

High1 Resort



Japan

NEUU, Tokyo Shinjuku

02

Key Products & Services



Intelligent XR Platform **BORA**

Local information **by AI guide**

XR Local Guide / Time Machine / History Culture / Selfie Transmission /
Digital Guestbook / Live streaming



SKY BORA B2C model

Lotte world Tower Seoul Sky

- Lotte World Tower Seoul Sky : 4 units installed and in operation



- Existing Marketing Materials
 - Average number of visitors to Seoul Sky for 3 years: 1.3 million per year



Photos using Bora

- Photos of BORA installed on the 118,120th floor of Seoul Sky



- Installation Photo



- Provide QR code photo download after taking a selfie



PLAY BORA B2C model

Lotte world Tower(B1) Aquarium

- Lotte World Aquarium: 2 units installed and in operation



Existing Marketing Materials

Average number of visitors to the aquarium for three years:
→ 1.2 million per year

Existing XR Interaction Device Operation Case:
→ None, we are the first.

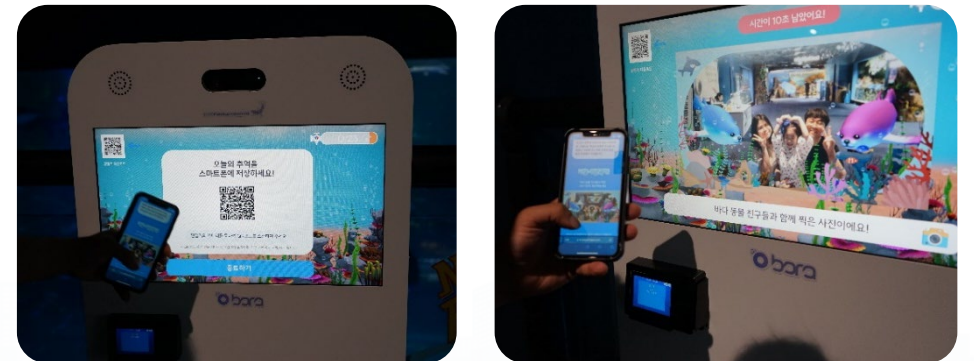


Photos using Play bora

- Photos of activities such as picking up marine wastes, decorating water tanks, and taking pictures with the most popular fishes

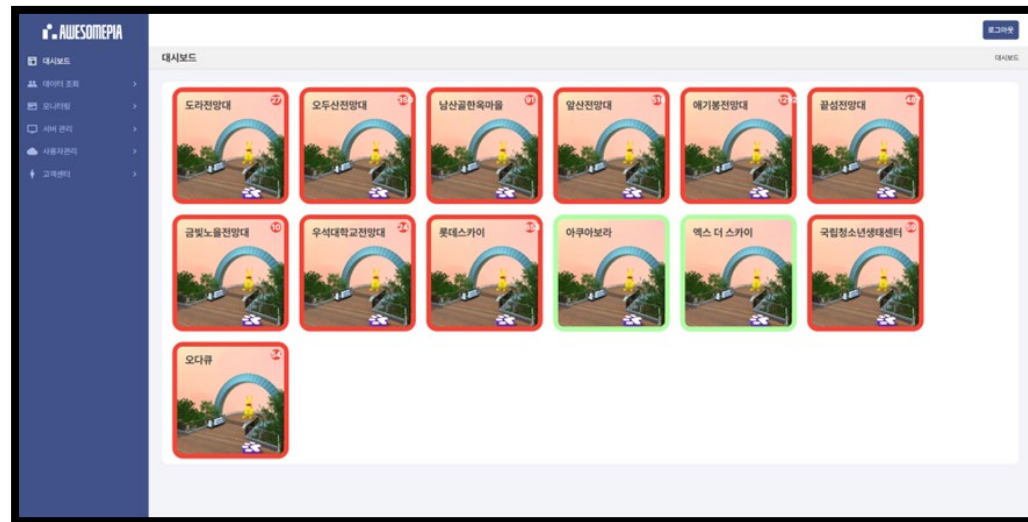


- Provide download content/photos used through QR report after experience



AI Integrated Control Solution via CMS Server

CMS Main Screen



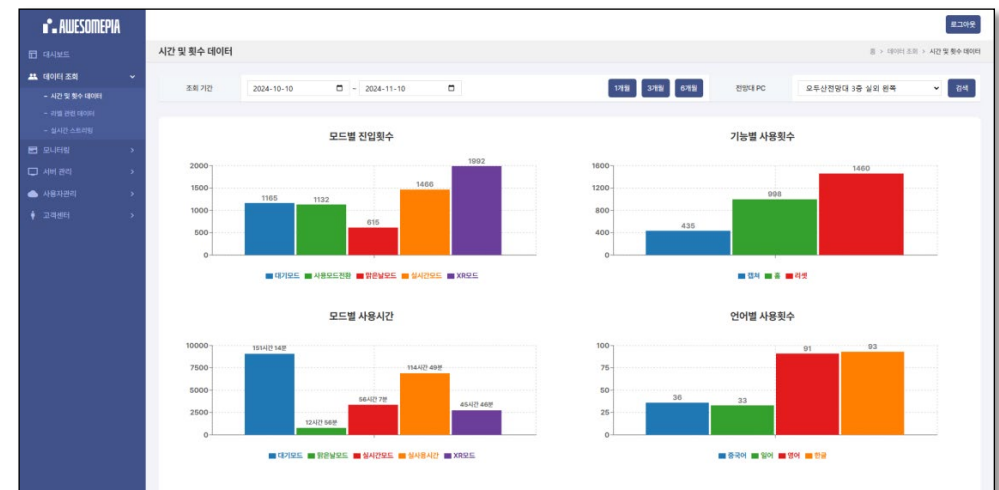
Solution Components

- ① AI-powered rare video detection & video archive
- ② CMS remote management
- ③ AI chatbot service utilizing collected data
- ④ Data archive for tourist sites & individual users

Monitoring by Installation Location



Data Analysis by Installation Location



Development and Service of Hybrid Beacon Solution "HiBea"

[Launched in Inje-gun, September 2024]

HiBea Overview

[Target Market for the Beacon Solution Service "HiBea"]

■ Regional Festivals / Exhibitions / Smart Cities

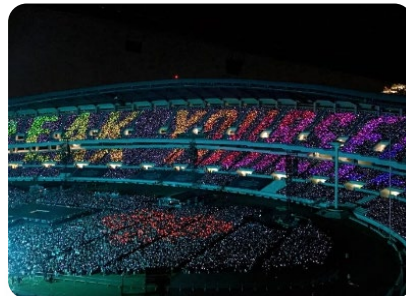


National Regional Festivals: Targeting a total of 1,200 festivals annually

Exhibitions: Targeting exhibition halls at COEX, KINTEX
Safety Management through Personnel measurement
50% Reduction in On-site Government Personnel

■ Fandom Platform (Concerts, Pop-up Stores)

- Pop-up Stores : Targeting major corporations including Hyundai and others, in addition to entertainment companies
- Concerts: Beacon Solutions, Cheer Beacons, etc.



Safety Management Solution

Media Coverage (Electronic Times)

전자신문

오썸피아, 강원 인제군에 지역축제 필수 앱 '하이비' 공급

입력 2024.09.30. 오전 11:09 기사원문

박두호 기자 TALK

추천 댓글 댓글 아이콘 가가 공유



하이비 로고

인공지능(AI) 기반 확장현실(XR) 기술기업 오썸 피아가 강원도 인제군과 전국 지역축제 참가인원을 카운팅하는 앱 솔루션 '하이비' 공급 계약을 체결했다.

“AI-based XR BORA Platform Service” (Currently providing live data service to the Ministry of Unification)

BORA Live Data Streaming Service



Jeju, Busan, Jeollanam-do, Changwon,
Gyeongsangnam-do, Chungcheongnam-do,
Incheon Unification Education Center

Expansion of services to national local government tourism information centers (367 locations), major highway rest areas operated by large corporations

Future Mobile Expansion Business

Festival Information

Cultural Tourism Information

Live Streaming

Remote Control Services



03

Global Business

XR BORA, attracting global attention

Japan

Odakyu Electric Railway

(A major company listed on the Tokyo Stock Exchange)



Installation in Tokyo

Odakyu Electric Railway, located in Shinjuku Ward, Tokyo

Completed installation in NEUU, a representative XR experience facility.
(Installation and pilot operation of XR Experience Center)

Vietnam

Lotte Town Hanoi



Confirmation of entering Lotte Town in Hanoi

Lotte Town, which has an average of 1 million visitors per month
At the Aquarium and Lotte Center Hanoi Sky Observatory
XR BORA B2C Model Installation Confirmation

Dubai

Atlantis Group affiliates



Completed MOU for Atlantis Group affiliates

Through MOUs with local companies, Dubai's Burj Khalifa/ The View at the Palm/ Sky View Observatory, etc are discussing installation of XR BORA



Business Status in Japan

XR BORA Sales Promotion Agreement Signed (Odakyu Electric Railway)



Completed an agreement with Odakyu Electric Railway

Plan to install XR BORA in multiple regions in Japan, supporting effective promotion and marketing strategies tailored to the Japanese business market.

Sales-related Media Day Held (Odakyu Electric Railway)



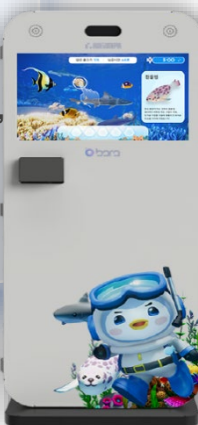
Successfully held a media day at NEUU

Invited major Japanese media representatives to the XR BORA demonstration and announced sales plans.

Selected as a Tenant at KTSC Tokyo (Korea Tourism Organization)



Completed the move-in at the Tokyo
Tourism Business Support Center
Provided opportunities for networking,
shared facilities, and infrastructure,
which will be beneficial for the
Japanese market.



Participated in International Exhibitions

Tourism Expo Japan 2023



Promoting XR BORA in the Global Market

Participated in Japan's largest tourism exhibition, with 150,000 visitors and over 1,280 tourism companies from 70 countries, to promote XR BORA in the global market.

KTSC 3rd DemoDay with Startup JAPAN



Participation in Investor Meetings and Pitching Contest in Japan

Participated in investor meetings and a pitching contest at KTSC 3rd DemoDay, which provides opportunities for startups from Korea and Japan to understand each other's markets and collaborate.

GITEX GLOBAL 2024



Participation in Global IT and Technology Exhibition

Participated in the global-scale IT and technology exhibition, GITEX GLOBAL 2024, and attended the Korea-China-Middle East O.I Summit event, conducting investment meetings with representatives from Emirates companies.

04

Proprietary Technologies & Patents

01 Proprietary technology

R&D Building and managing a professional, reliable system

Software Engineering

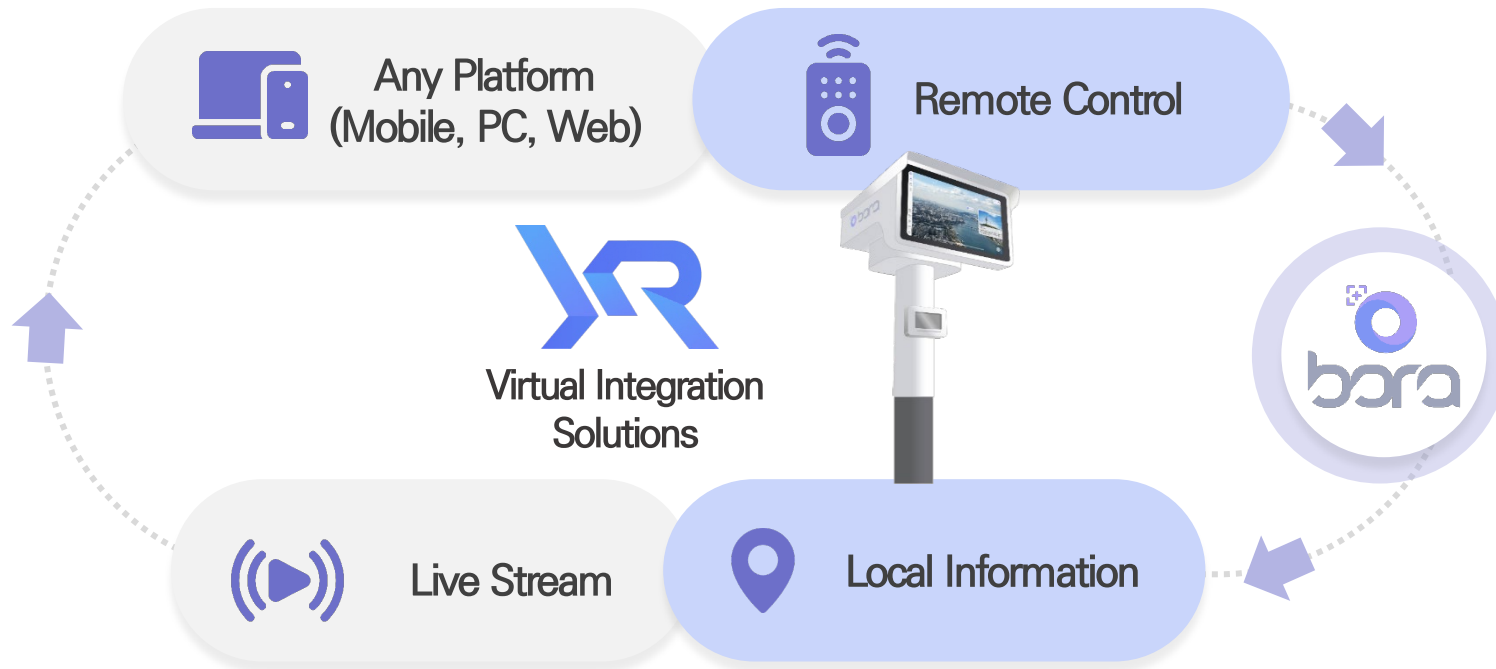
Hardware Engineering



02 R&D Key technologies

Mobile remote control service for users “Remote BORA”

- The goal is to allow users to remotely control BORA's real-time video to view the desired locations.
- Content is provided using a virtual camera machine technology for panorama videos.



✓ Currently holding patents related to virtual camera machines



02 R&D Key technologies

User mobile remote control service “Remote BORA” concept video





03 Certification and Patents

Patent and major technology

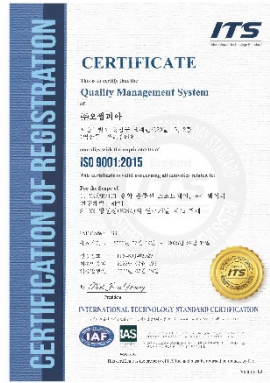
Innovative
R&D product.



KC Cert.



ISO 9001



PCT Patented



- Ministry of Science and ICT Designated as an Excellent and Innovative R&D product.
- National Procurement Service Innovative Products
- Ministry of SMEs and Startups Pilot Purchase Product Certification

Securing technological
exclusivity and competitive
advantage through patent
management

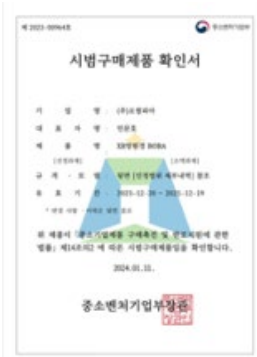


Utilize R&D results and
enhance technology
credibility R&D

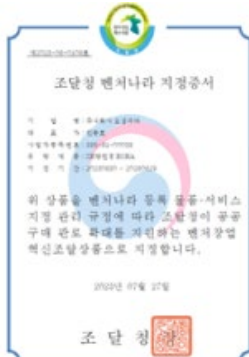


- 10 domestic patents (15 applications) and 3 trademarks
- ISO 9001 certification, KC certification, and IP44 rating secured

Pilot Purchase Product
Certification



National Procurement
Service Venture startup product



XR technology



PCT international patents and
Japanese domestic patents
filed for international expansion



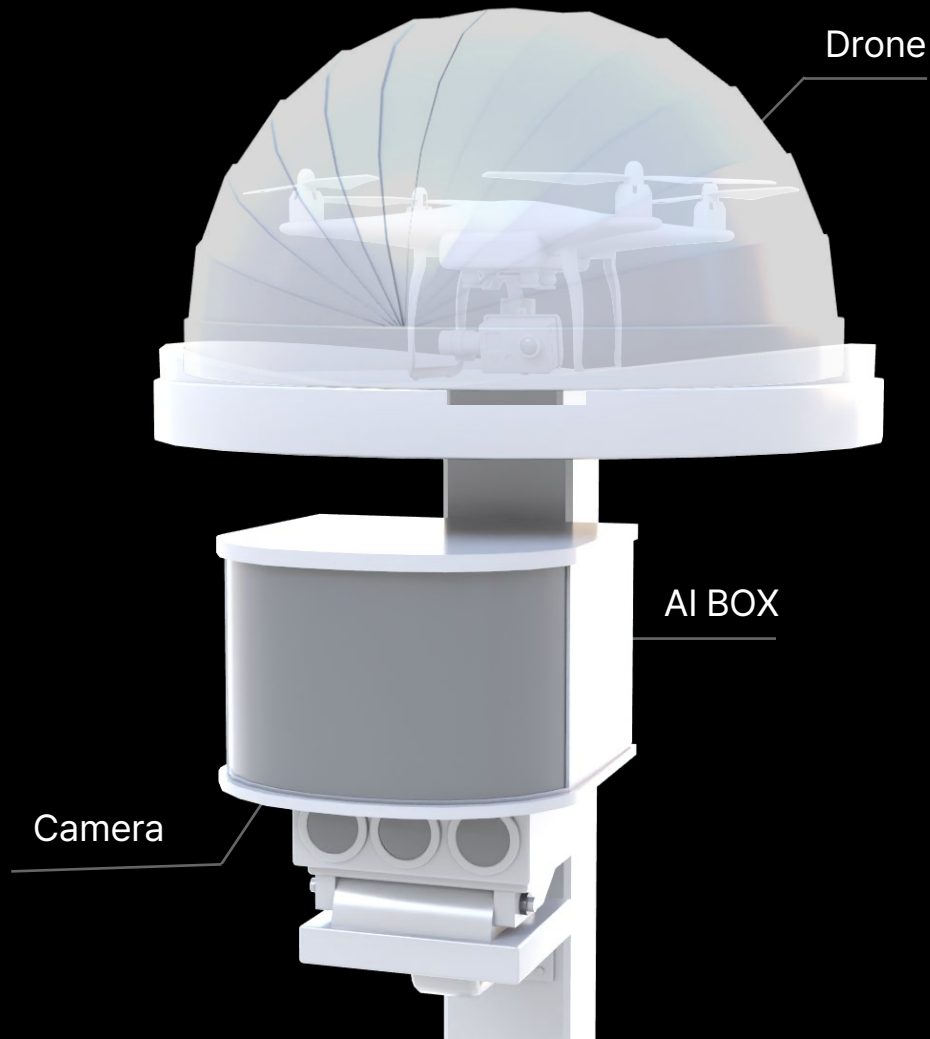
An FTO report for the
Japanese market has been
produced, confirming a very
low risk of disputes



*** Appendix**

**AI-powered Automatic Identification & Tracking Solution,
Scientific Border Control System for Defense: 'BORA'
Preparing for R&D and commercialization**

**GOP Target on the
248km Barbed Wire Line**



Day/Night Surveillance System Setup

Composed of RGB cameras (day), IR cameras (night), and TOD thermal cameras
Accurate detection even at night through secondary and tertiary tracking systems

AI-based Automatic Location Tracking (AI solution available)

Tracking with wide-angle, zoom, and drone cameras
Fully automated identification & tracking, no manual operation required

Pan-Tilt Automation System Operation

Automated panning (horizontal rotation) and tilting (vertical rotation)
Organic anomaly tracking through pan-tilt operation of each camera

인공지능 기반의 복합화 자율경계 시스템에 대한 연구

A Study on the AI-based Complex Autonomous Surveillance System

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Andy Kyung-yong Yoon^{*,1)}, Ki-chul Park²⁾, Munho Min³⁾, Seunghyun Ok³⁾, Sanguk Shin³⁾, Sungcheol Jo³⁾, Yoonji Choi³⁾

[초 록]

은 일찍이 2006년부터 과학화 경계시스템을 도입하여 시범운영 했고 2016년까지 전체 GOP에 도입했음에도 불구하고 ‘노크귀 2리발귀순’ 등 경계실패를 반복하고 있다. 인공지능 기반이 아니기 때문에 완전한 과학화를 이루지 못한 것이다. 인공지능 기반 순히 사람·동물을 구분하는 것을 넘어 자동 감지 인식 추적 다른 인근 인공지능 카메라와 자율 연계 추적, 드론과 자율 연계, 고 GPS가 아닌 영상기반의 객체 위치추적 알고리즘이 적용되어야 한다. 또한 고배율, 열화상 카메라 등이 자율적으로 객체를 할 수 있도록 하는 첨단 기능을 탑재한 시스템이 도입되어야만 반복적인 경계실패를 종식시킬 수 있다. 본 논문에서는 현재까 장 진보된 인공지능기반 복합 자율 경계시스템을 제안하고자 한다.

Presentation at the Korean Society of Defense Technology Conference (October 31st)





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■ Business Partners

