

■ OPTICON – Intelligent Social Safety using AI-based biosignal and location information

* What is OPTICON?



- OPTICON is a brand that strives to create a safety society based on crime prevention devices and services. We pursue proactive crimes management and crime prevention for correction in prison and probation as a direction for build a safety society for OPTICON.
- Due to the overcrowding of prisons, the need for sophisticated Smart Prison System and Electronic Monitoring System is emerging. Our “OPTICON” system can prevent the recurrence of crime by identifying the offender’s location and behavior patterns, health information using the most advanced Bio-signal, AI, and IoT technology.
- OPTICON secures technological differentiation that other competitors cannot easily access by integrating with Life Science Technology Inc.’s biosignal technology and location monitoring technology.

* Types

- OPTICON is a system that efficiently manages prisoners, probationers and victims by combining biosignal and location information, and is currently developing the system with the Ministry of Justice of the Korea.
 - OPTICON P is the world’s first smart prison system that can efficiently manage prisoners by combining biometric signals and indoor location monitoring technology.
 - OPTICON C is a next-generation electronic supervision system that can provide various information by analyzing not only the location information of the probation officer, but also the behavior pattern.
 - OPTICON J is a system that curbs probation for a specified time by combining biometric authentication technology and location information that cannot be used by others.
 - OPTICON V is a system that can actively protect victims by applying the latest IoT technology.



* Possibility

- OPTICON P was planned and developed with the Ministry of Justice from 2018, and as of 2020, the test bed construction and evaluation were completed in Yeongwol prison. Starting with the construction of one site(5 billion won/site) in 2021, it is moving with goal of spreading it 52 prisons nationwide.
 - '18.04. : Proposal of smart prison system using smart band
 - '19.07. : MOU with Korea Correctional Service.
 - '19.08. : Started building test bed in Yeongwol prison
 - '20.10. : Completion of evaluation(customer, Accredited)
 - '20.11. : Completion of national project
 - '21.03. : Start building 1 site (\$5M)
- OPTICON J was developed in 2019 and delivered 530sets to the Ministry of Justice(1,260,000won/sets) and is currently waiting for additional orders. Recently, due to Covid-19, the Malaysia government is actively considering the introduction of OPTICON J for Quarantine.(2,000 ~ 5,000 sets)
- Life Science Technology continuously introduces products and demos to various countries and global companies for OPTICON’s overseas expansion.

* Exclusive

- OPTICON P is linked to a national project that can easily carry out the government's procurement business. so through this, it is securing the priority of the government procurement business.
- OPTICON J and V are linked to a national project that allows private contracts for five years through voluntary purchasing agreements instead of developing the technologies required by the government. so through this, it is securing the priority of the government procurement business.

* Scalability

- “OPTICON” can be applied in various ways to business areas that require efficient control in a closed space. After securing the reliability of the product through public procurement by the Ministry of Justice, it will apply core technology to expand it to other public projects, and use it to enter the B2C or B2B market.
 - Other public procurement
 - : Ministry of National Defense(Soldiers)
 - : Ministry of the Interior and Safety(Quarantine)
 - : Ministry of Health and Welfare(Dementia)
 - B2B or B2C market
 - : Nursing facility, Smart factory, Pet management market, etc.

■ Expected financial sheet

(Unit: 1K dollars)

		2021(E)	2022(E)	2023(E)	2024(E)	2025(E)	Total
Expected Sales	OPTICON P	5,000	10,690	22,070	44,830	60,350	142,940
	OPTICON J(Quarantine)	3,060	5,282	5,953	9,024	10,026	33,345
	OPTICON C	1,400	3,693	4,526	8,558	9,922	28,099
	OPTICON V	100	164	285	569	638	1,756
Total		9,560	19,829	32,834	62,981	80,936	206,140
Remarks		<ul style="list-style-type: none"> • OPTICON P, Estimated sales are calculated based on the construction of at least 25 sites of S1 and S2 grade prisons with a conservative approach among 54 correctional facilities nationwide in Korea(\$5M /1 site) • The maintenance rate is calculated as 13.8% of sales. • The cost of sales is expected to be about 50 ~ 60%. 					

• OPTICON : www.opticonkorea.com