# **Technical Certification**













K-Mark Certificate



Quality Management System Certificate



정보통신공사업등록증

Information and Communication Business Registration Certificate



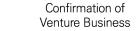
Electrical Engineering **Business Registration** Certificate

목위원자(2023年 무석회사 대명이원제(202312~~~~~) 대문독행자자시 집원들도 13, 5중 (집원등)



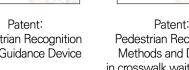
Inno-Biz Confirmation







Pedestrian Recognition Voice Guidance Device













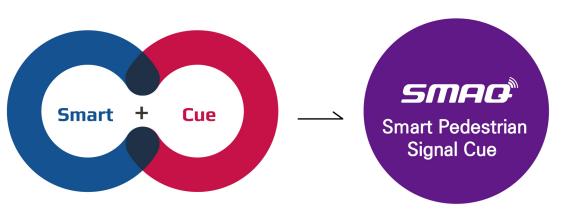






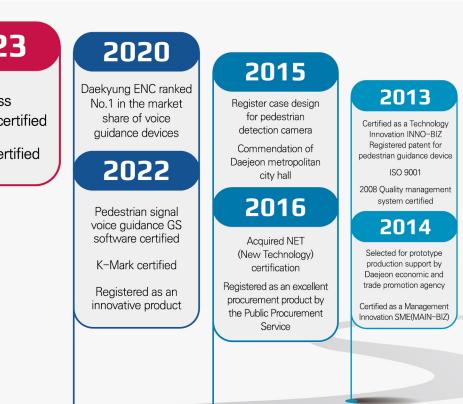


**SIMPLE** is a brand that enhances the value of Daekyung ENC.



Smart + Cue: Smart Pedestrian Signal Cue

SMAQ represents the functionality of the guidance system through a graphic depicting the spread of signal sounds. Designed in 'smart color blue' and 'Daekyung ENC CI color red', it emphasizes the stability and reliability of SMAQ's products.



Specializes in the design and professional construction of advanced traffic signal systems Pedestrian signal voice guidance devices / Pedestrian automatic recognition signals Left turn responsive signal systems / Automatic lighting control devices / ITS / Traffic signal lights Traffic facilities / Bus information terminals / Vehicle detectors design and construction

Electrical, information and communication construction

name changed

2012

stablished Corporate

R&D Center

Establishment of the corporation Daekyung Shinho

LED traffic signal lamp (E-mark obtained)

# Innovative Products with **Advanced Technology**

No. 2022-239

The Voice That Ensures Safety

# Energy-Saving Automatic Lighting System

# A Magnifying Glass for a Quick Overview

What is an innovative product?

It is a product recognized for its public and innovative qualities to improve public services and technological innovation, designated through deliberation by the Public Procurement Policy Deliberation Committee of the Ministry of Strategy and Finance.

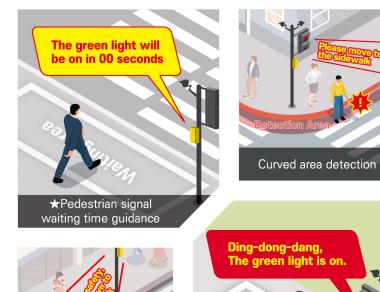
Product Model Name Item Identification Number

DK-PA214 24395778

Product Name

"Smart pedestrian signal voice guidance device with automatic recognition video detection and analysis method





### Overview of Designated Innovative Products

- Innovative products are certified by the South Korean government and selected through a rigorous evaluation of their innovation by a specialized deliberative committee
- at least 15% of government agencies' total procurement
- government, including public interest, social value, innovation, and marketability



When the pedestrian signal is red, the system identifies pedestrians attempting to enter the roadway, transmits a warning voice, and guides them to a safe signal waiting area.



A system that acts as an indirect traffic signal on crosswalks without traffic lights, enhancing the visibility for night drivers and protecting pedestrians using the crosswalk.





SMAO-V2101D

Item Number 25064101

Control box (high-strength PC) +

camera + omnidirectional speaker

Pedestrian Detector with Video Analysis Method

Miniaturized Video Analysis System

Prevents

unnecessary

voice guidance

Prevents product damage,

long-term stable operation

data loss, and ensures

Components

(control box built-in)

Accurately recognizes

people, not objects

Pedestrian recognition

device optimized for

strong sunlight



# DK-PG222

Item Number 24917859

Components

Control box (high-strength PC) + pedestrian detector + omnidirectional speaker (control box built-in)

## **Product Features**



Product Model Name

Components

Recognizes pedestrians entering the detection area at night and automatically turns on the lights



DK-AL174

Lighting Control Function ► Sunset → 10 PM : Always on



Reduces energy consumption by over 65% compared to the system always being on



Lighting usage time is reduced by about 2/3



24003088

(utilizes pre-installed lighting

fixtures or separately installed)

Item Number

Main control system + Pedestrian recognition device + LED floodlight

▶ 10 PM → Sunrise : Intelligent lighting control

(X lighting times can be set according to field conditions)

#### Main Installation Locations

- Crosswalks with pedestrian signals
- Crosswalks without traffic lights
- Child and elderly protection zones
- National and local roads



Build the system at a low cost! A control system that provides a real-time overview of the status of products installed by region, allowing detailed monitoring and maintenance of each product's operational status.



Applicable Models DK-PA214, DK-GAL211, DK-PG222

- Features | Improves Work Efficiency: Monitors equipment operation status in real-time remotely
  - ▶ Effective Equipment Operation: Easily check the history and status of installed equipment
  - ▶ Resolves Citizen Inconvenience : Prevents complaints by quickly responding to equipment failures by region
  - ▶ LED Display Operation(Option, DK-GAL211): Display and modify messages on the LED display

### **System Configuration and Functions**



### **Smart Control Platform**

- ► Monitors equipment installation locations
- Manages equipment history and status
- ► Collects and utilizes traffic information
- Monitors current road conditions

- Monitors and operates products
- ▶ Local governments and departments check
- Quickly recover after identifying equipment failures

**Organizations** 

#### Integrated Server Management

### ▶ Supports fault diagnosis and equipment status confirmation functions

Manages the optimal server system

- ▶ Remote operation of LED display
  - the equipment status

- ▶ The annual pass rate for designated innovative products is 7–8%
- Innovative products are designated as priority purchase items, with a requirement that they account for
- Innovative products are certified for their quality excellence by meeting evaluation criteria set by the



# DK-GAL211

[Item Number ] 24226923

(control box built-in)

Control box (high-strength PC) + pedestrian detector + LED display panel + omnidirectional speaker

Components

Detects people waiting

Flexible Detection Area Settings

for Curves and Straight Lines

for pedestrian signals

can be customized to

various road conditions

on the roadway

Detecting Pedestrians on the Roadway

Broadcasts safety warnings and guides people to the sidewalk

> Notifies Drivers of Presence Lights turn on only when there are

Minimizes detection blind spots

drivers of their presence

pedestrians at the crosswalk, informing