



# HANGILDTS

Under any circumstances

## **SOLAR OPTICAL FIBER LIGHT SIGN**

HANGILDTS Co., Ltd. specializes in photovoltaic "Solar Optical Fiber Light Sign".





### **We are**

constantly thinking about creating a transportation environment for drivers, pedestrians, infants, and the elderly can safely walk around. Road signs and traffic signs have been advertising-type products without special technology, but new products have been required to secure visibility in any environment due to industrial development and pursuit of value for safety.

### **So we're**

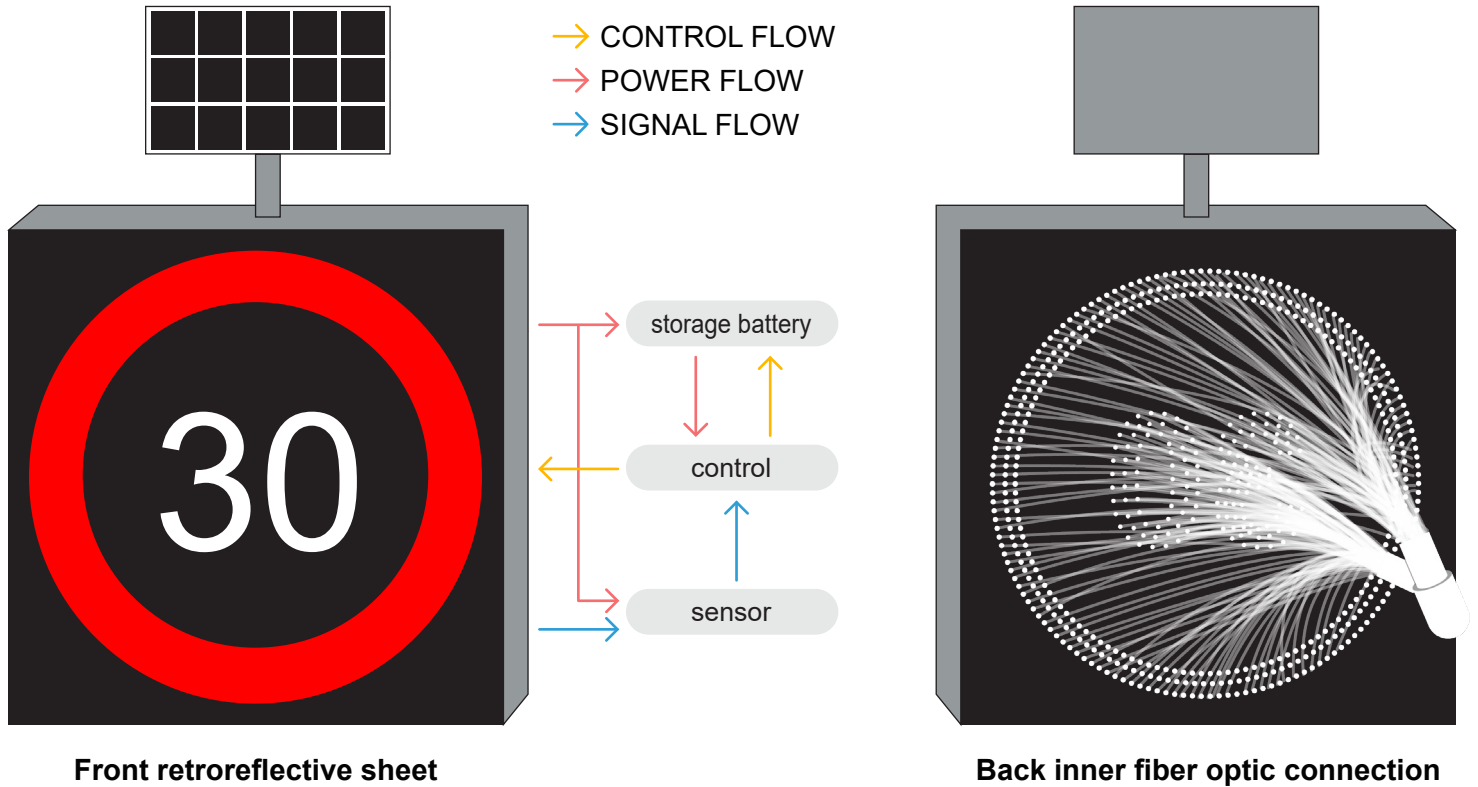
developing new groundbreaking products that clearly display the information that we want to inform anytime, anywhere, and that are continuously checked for status so that it's easy to maintain, manage, and never fail.

### **HANGILDTS Co., Ltd. is**

a company that specializes in developing, producing and selling Solar Optical Fiber Light Signs and will play a leading role in the V to S(Vehicle to Sign) ecosystem infrastructure for the era of the Fourth Industrial Revolution and autonomous driving. Please give a lot of support to HANGILDTS Co., Ltd. who always put human safety and convenience first and prepare for a strong leap with differentiated technology and quality.



## Composition of Solar Optical Fiber Light Signs







## Day & Night of Solar Optical Fiber Light Sign

CATEGORY	DAY		NIGHT	
PICTURE				
DISPLAY	During daylight hours, the front-mounted "Retro-Reflective Sheet" identifies sign information.		Identification of sign information by light from LED light sources inside the sign induced by fiber optics in case of night time, cloudy days, or rain.	

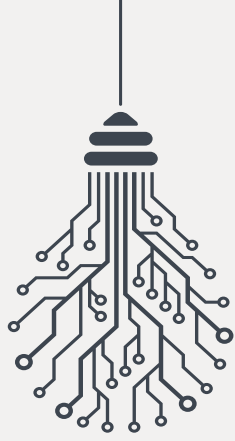


## Comparison by signs

CATEGORY	RETROREFLECTIVE SIGN	LED SIGN	ILLUMINATED SIGN	LUMINESCENT SIGN
PICTURE				
FEATURES	Attach "Retro-Reflective Sheet" above aluminium plate to display information.	LED's are arranged according to the cover information pattern and illuminated.	Display information using LED light source inside attaching "Retro-Reflective Sheet" on the front.	Attach "Retro-Reflective Sheet" on the front and display information on the inside using light from LED light sources.
ADVANTAGES	It's the cheapest Sign. Easy to install and maintain.	It is the cheapest LED sign. It is advantageous for mobile signs.	High visibility and readability at night, and smooth information expression without glare.	It has the best durability. It provides high visibility, readability and attention even at night. Weekly information can be expressed without excessive energy consumption when needed (in cloudy days, rainy weather, etc.).

## Technical comparison table of signs with LED applied

CATEGORY	LED SIGN	ILLUMINATED SIGN	SOLAR OPTICAL FIBER LIGHT SIGN
method of lighting	LED direct light	LED diffuse light	LED fiber induced light emission
form of luminescence	point light	surface luminescence	point light, surface luminescence
power consumption	-	-	least
Whether solar power is applied	possible	possible	possible
battery capacity	-	-	least when running at the same time
Whether the light source is exposed	Directly exposed to the surface	Protection on the inner frame (no risk of breakage)	Protection on the inner frame (no risk of breakage)
Light source reliability	commonly	good	Best (low power operation and environmental shielding)
visibility	short distance	Glare may occur	good
	Long distance	Glare may occur	Straightness of optical fiber light = excellent visibility
	severe weather	Glare may occur	Straightness of optical fiber light = excellent visibility



CLEAR,  
VISIBLE SIGNS  
ANYWHERE,  
ANYTIME,  
ANY WEATHER

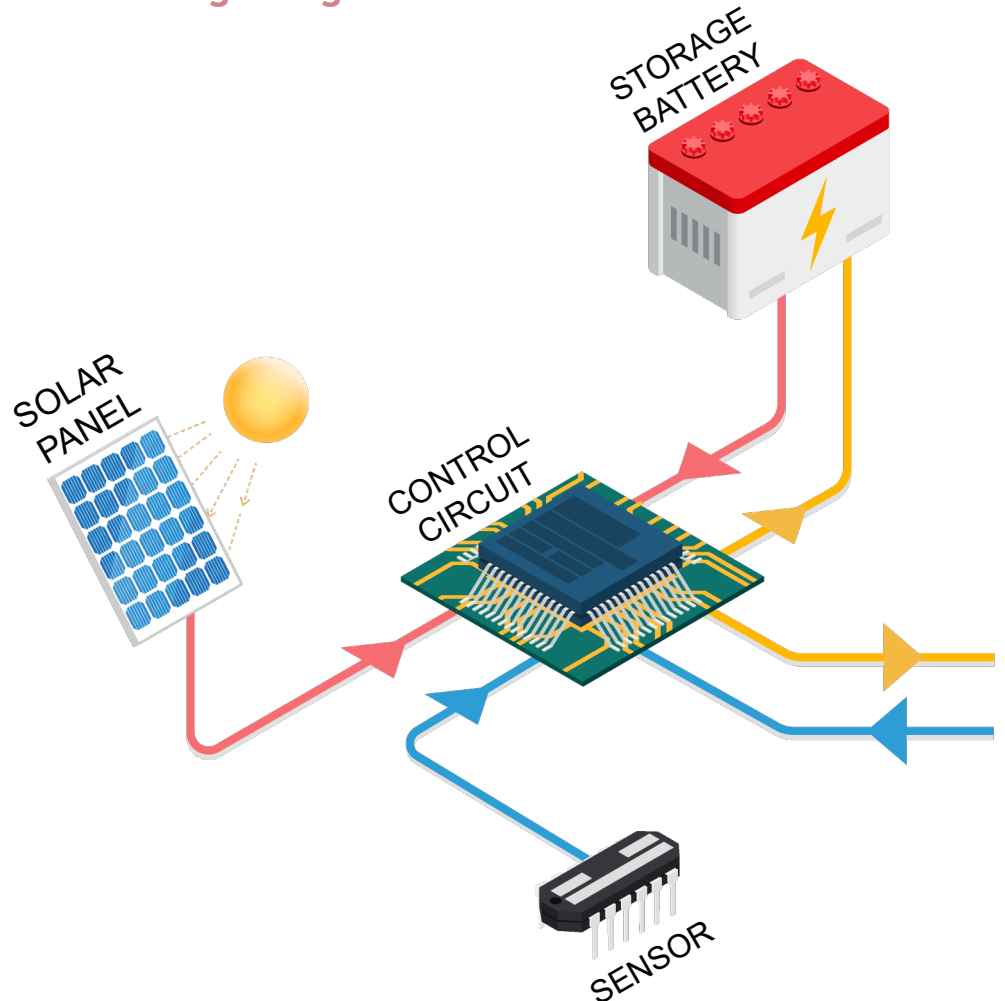
The "Solar Optical Fiber Light Sign" by HANGILDTS Co., Ltd.



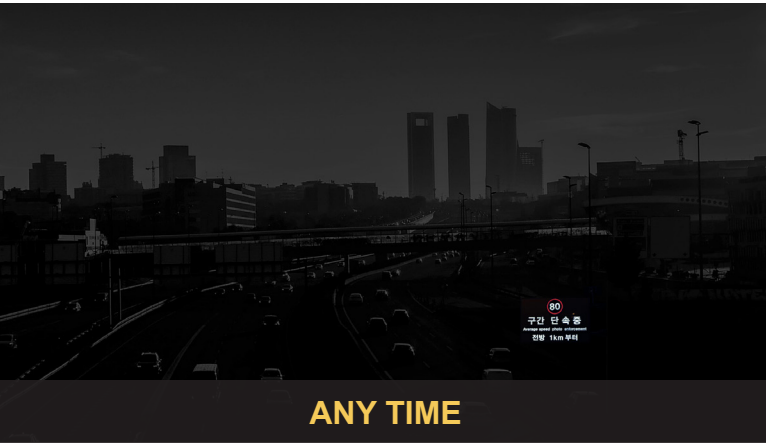
ANYWHERE

#Safety in accident-prone areas! #School Zone #Children's Area

## Flowchart of Solar Optical Fiber Light Sign



uses optical fiber to make it clearly visible at any time and anywhere for the safety of drivers.



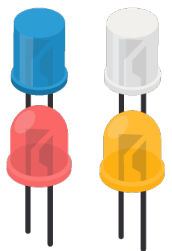
**ANY TIME**

#Clear even at night time! #Safe driving during #section enforcement!!

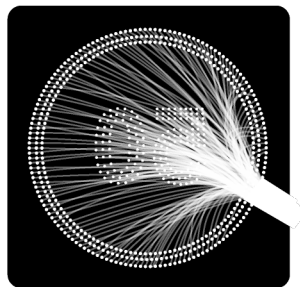


**ANY WEATHER**

#Clear even in bad weather! #seagull sign #fog danger area



LED LIGHT SOURCE



FIBER OPTIC



LUMINESCENT SIGN



CONTROL



POWER



SIGNAL



Under any circumstances

# SOLAR OPTICAL FIBER LIGHT SIGN

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#protecting children  
zone sign

#Caution sign



#design sign



#road sign



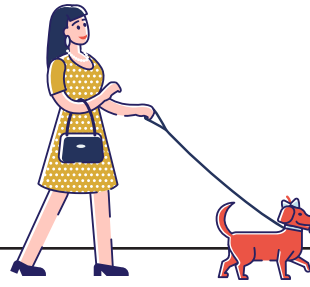
#crackdown  
sign



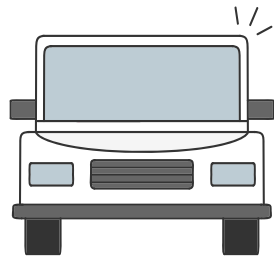
#instruction sign



#design sign



#regulatory sign



#mixed sign



#auxiliary sign



#seagull sign



## DESIGN SIGN



No drowsy driving

The design sign is a product designed and manufactured by HangilDTS Co., Ltd., and the design draft and specifications are subject to change at the request of the customer.



No photography allowed



No dogs allowed



electric shock hazard



Drone ban



quiet



clean up after defecation



fall risk



No littering



## DESIGN SIGN

The design sign is a product that can be customized with various designs according to the special environment and situation at the request of the customer.



No "Smombie (Smartphone + Zombie)"



No food intake



No drinking



No roller skating



No fence jumping



No quick board



lawn protection

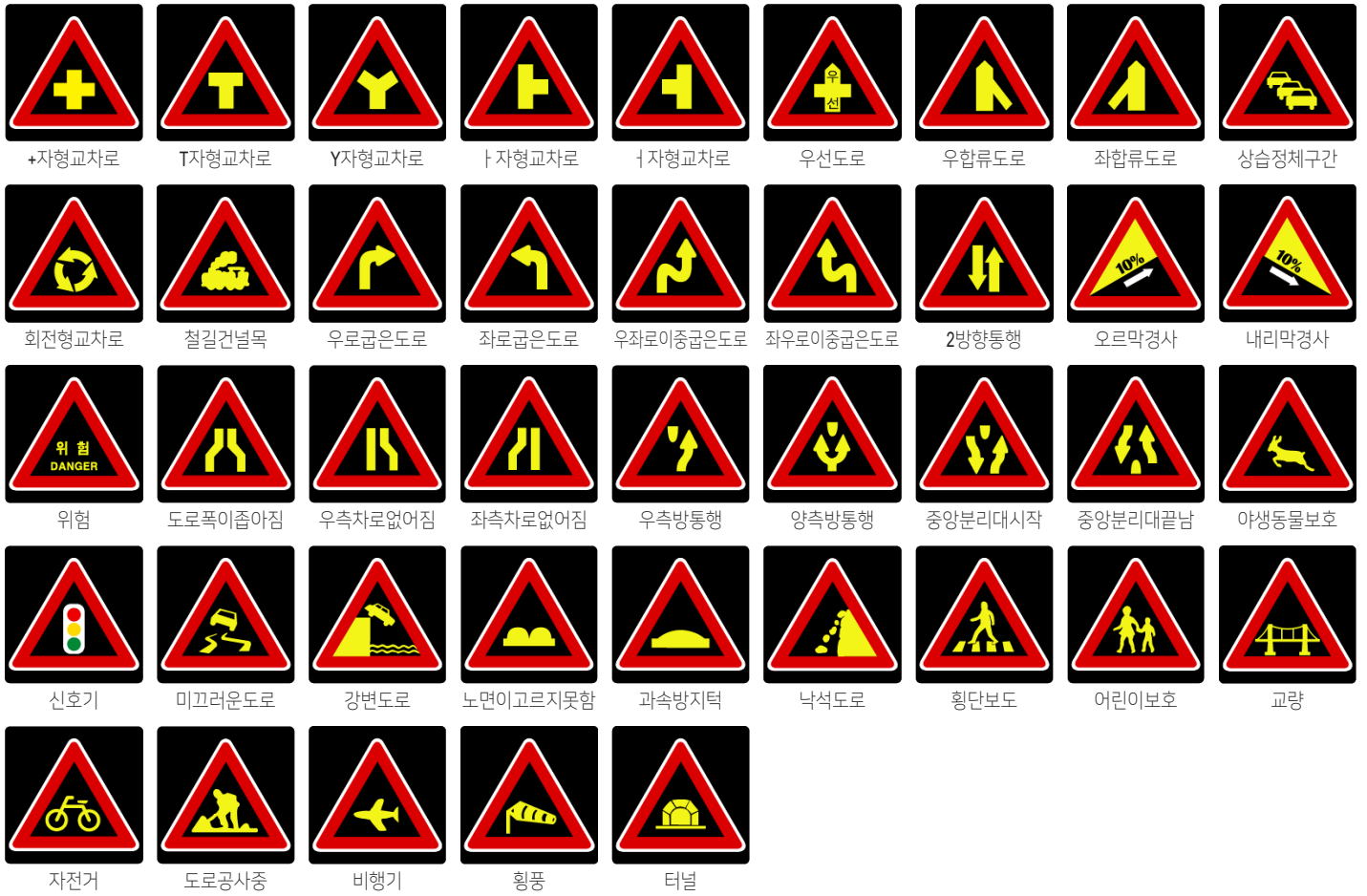


No smoking



No fishing

## CAUTION SIGN



## REGULATORY SIGN



## INSTRUCTION SIGN



## AUXILIARY SIGN





## CRACKDOWN SIGN



카메라단속구간



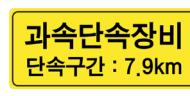
카메라단속구간



카메라단속구간



과속단속장비



이동식단속구간



과속단속장비



신호과속단속장비

## PROTECTING CHILDREN ZONE SIGN



## ROAD SIGN



1지명이정표지



2지명이정표지



3지명이정표지



2방향표지



2방향표지



2방향표지



3방향표지



3방향표지



약식3방향표지



매표소예고표지



군계표지



자동차전용도로표지



관광지표지



버스정류장표지



터널표지



하천표지

## SEAGULL SIGN

SHAPE	CLASSIFICATION	SPECIFICATION
	STANDARD	- Reduced type: 300 (horizontal) x 450 (vertical) x 60 (single-sided/double-sided) - Standard type: 450 (horizontal) x 600 (vertical) x 60 (single-sided/double-sided) - Enlarged type: 750 (horizontal) x 900 (vertical) x 60 (single-sided/double-sided)
	FEATURE	- High-brightness LED application - Auto ON (Night) / OFF (Day) - LED always ON or blinking selectable - Built-in overcharge and overdischarge protection circuit

## MIXED SIGN



+자형교차로 +보조표시    강변도로 +보조표시    과속방지턱 +보조표시    낙석도로 +보조표시    내리막경사 +보조표시    도로공사중 +보조표시    도로폭이좁아짐 +보조표시    미끄러운도로 +보조표시    보행자보행금지 +보조표시



서행+보조표시    신호기+보조표시    앞지르기금지 +보조표시    야생동물주의 +보조표시    양보+보조표시    우좌로 이중굽은 도로+보조표시    우측면통행 +보조표시    우측차로없어짐 +보조표시    우합류도로 +보조표시



위험+보조표시    유턴+보조표시    일시정지+보조표시    자전거+보조표시    자전거및보행자겸용도로+보조표시    좌로굽은도로 +보조표시    좌우로 이중굽은 도로+보조표시    좌측면통행 +보조표시    좌회전+보조표시



좌회전금지 +보조표시    중앙분리대차 +보조표시    자형교차로 +보조표시    차간거리확보 +보조표시    차높이제한 +보조표시    차중량제한 +보조표시    최고속도제한 +보조표시    회전교차로 +보조표시    회전형교차로 +보조표시



횡단보도+보조표시    진입금지+보조표시    교통사고다발지역    급커브절대감속    도로폭좁아짐    규정속도준수    급커브절대감속    마을앞절대서행    속도를줄이시오



교통사고찾은곳    교통사고찾은곳    교통사고찾은곳    속도를줄이시오    속도를줄이시오    안개찾은지역    절대감속

# Specifications and designs can be changed at the request of the customer.



(주) 한길디티에스

The Solar Optical Fiber Light Sign has fixed optical fibers on the signs and patterns, directs light from the internal LED light source to the fiber, displays information, facilitates the use of solar power, and provides excellent product durability and reliability.



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