

LED FLOOD LIGHTING SPORTS LIGHTING

CASE STUDY

Gwansung Pine Grove Beach

Gyeongju Korea



GigaTera®
beyond light

Installation Area : Beach

Gwansung Pine Grove Beach in Korea



Clean area with pine forests and the coast

Gwansung Pine Grove Beach



[Gwansung Pine Grove Beach]

Already recognized for its bright and blue clean sea, Gwansung creates a harmony of pine forests and coastline in a half circle. Also, it is very popular as a campsite since sites can be built on the pine grove located at the beach. There are golf resorts in Shidae-ri, Yangnam-myeon which is in the vicinity, for tourists to enjoy their free time and enhance their marine leisure. Furthermore, ten large companies run a rest and recreational center for the summer season. (Size – Sandy beach: Length 1.3km / Width 30 ~ 70)

Summary

Located in Yangnam-myeon, Gyeongju, Gyeongbuk, the "Gwansung Pine Grove Beach" is a place recognized for its bright and blue sea and the clean coastline that are in perfect harmony with the surrounding pine forests. It also attracts many tourists for the golf resort and marine leisure facilities in its vicinity.

For this project, a new lighting facility was installed for summer visitors and local residents who frequent the clean beach. Considering that local residents or tourists were not able to freely use the coastline at night due to the lack of a proper lighting facility, the project has made it possible for them to enjoy safer and more pleasant beach swimming.

An asymmetrical flood light MAHA 400W system that has minimized blinding was installed at six 15M lighting towers. Also, the scene lighting Seagull 130W in the shape of a seagull, the symbol of the sea, was installed. In addition to floodlights to brighten the coastline, scenery security system for the safety of pine groves was also installed.

Moreover, to provide a comfortable and enjoyable beach environment to visitors, the Gyeongju administration has remodeled restrooms and showers, newly built a management center, arranged portable restrooms, built additional drinking and eating stands, and established beach volleyball facilities.

This installation is the first case of building the flood light system MAHA in a coastline, and sets a good example that demonstrates how MAHA products can be applied to various fields.

Project

Adjacent to Gyeongju, the east coast has a gradually increasing number of tourists every year. In light of the growing tourist interest, Gyeongju decided to install night landscape lighting facilities (Tower Light) for tourists' safety and to provide various attractions at night. First, considering that the Gwansung Pine Grove Beach is a tourist site, the general shape of lighting tower was abandoned and a Lighting tower design of umbrella shape was adopted to match well with the shore, and furthermore seagull shaped scene lighting was installed to go well with the beach. Thus this project was carried out in a way as to bring excellent luminance as well as create beautiful night lighting in terms of external design. Also, the GeSS wireless dimming control system was applied to turn the lights on and off by the lighting tower. The luminance of lighting can be adjusted between 30% ~ 100% when necessary to control energy consumption rate and reduce maintenance costs. After the installation of lighting, tourists have been able to stay on the beachside more comfortably and safely for a long time and enjoy more attractions even at night. With the newly installed lighting, a new mood of night beach scene has been created, bringing positive responses that have enabled couples and families to enjoy their vacations much more and make more memories. Local residents are very satisfied with the lighting installation for the additional prosperity it has brought to the regional economy. Many more people are visiting, they can go back home safely even at night, and they are enjoying improved convenience.



Site Information

Application
Location
Light source
Lighting Support

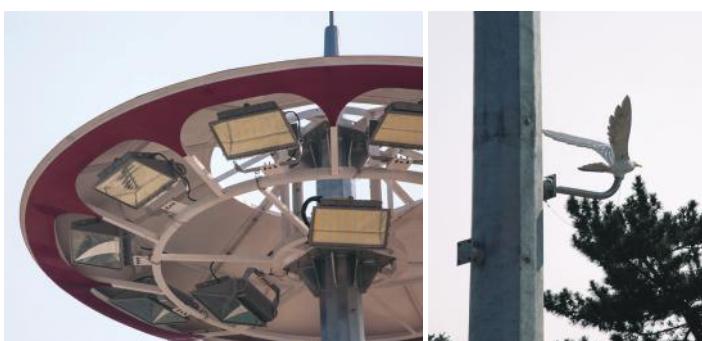
Beach
Gwansung Pine Grove Beach
MAHA 400W, SEAGULL 130W
GigaTera Technical Team

Benefits

- Realizes average luminance of 82 lux or higher
- By using the GeSS wireless control dimming system, energy consumption rate and maintenance cost have been brought down
- Installed the asymmetrical lighting system MAHA that minimizes blinding
- Installed scene lighting SEAGULL that matches well with the surrounding landscape
- Excellent promotional effect and realization of an ecofriendly image

Installation Product Information

- Height of the lighting tower: 15M
- Quantity of lighting towers: 6
- Quantity of installed lighting per lighting tower:
MAHA 400W 7 sets / SEAGULL 130W 1 sets
- Quantity of installed lighting products:
48 sets (MAHA 400W: 42 sets / SEAGULL 130W: 6 sets)
- Minimum power consumption:
17.58kW (at 100% brightness / Consumes about 8.79kW at 50% dimming)
- Average luminance: 82 lux or higher



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