NOVASKY
华诺星空

SP-100WVF Intelligent radar visual fusion alarm system

product overview

SP-100W VF intelligent radar visual fusion alarm system is the new generation of multi-sensor alarm system designed by NovaSky Electronics, which has lower false alarm, higher recognition rate. It adopts compound intrusion sensors with multiple techniques to detect targets. The radar sensor SP-100W is a K-band radar sensor for medium or short distance, which adopts high-end manufacturing techniques, integrating antennas and signal process units in the same PCB, to save space and enhance the reliability of radar as well. The dual-mode sensors would synchronously transfer the signal to alarm center by digital network and realize the real video linkage alarm. The video data could be cached in real time and provide video browsing and recording in 5s before alarm. This is our great breakthrough in radar technology and video interactive technology.

product feature

- **Multi-sensor technology fusion**
  With radar and video fusion technology, to realize the signal level fusion, which eliminate the shortage of single sensor technology, enhance detection rate and reduce false alarm rate.
- **Active alarm**
  By intelligent analysis, to make judgment and auto-alarm
- **Volumetric defense**
  By fusion of radar and video technology, to build a three-dimensional volumetric defense system
- **High detection accuracy**
  Accurately acquire the target, visualize the presence of target when triggering an alarm, to identify, track and recognize the target. And the false alarm is infinite close to zero.
- **All-weather and all-time protection**
  Real-time protection in 7 ×24h and in all weather(like in rain, snow, smog etc.), to greatly eliminate the missing or false alarm.
- **Easy to install**
  Integrative installation, convenient to engineer.

Product specifications

SP-WVF series	SP50WVF	SP100WVF	SP350WVF	SP850WVF	SP1200WVF	SP3000WVF
Radar system	MIMO electronically scanning FMCW radar	MIMO electronically scanning FMCW radar	MIMO electronically scanning FMCW radar	MIMO electronically scanning FMCW radar	MIMO electronically scanning FMCW radar	MIMO electronically scanning FMCW radar
Camera model	2megapixel HD infrared IP dome	2megapixel HD infrared IP dome	2megapixel HD laser infrared IP dome	Thermal imaging & dual-spectra IP dome	Thermal imaging & dual-spectra IP dome	Thermal imaging & dual-spectra PTZ network camera
Detection range MAX (for human target) (with no light)	40m	160m	350m	850m	1200m	3000m
Detection range MAX (for vehicle target) (with no light)	60m	250m	500m	1000m	1500m	3500m
Detection angle	Azimuth: 140° Pitch: 20°	Azimuth: 90° Pitch: 9°	Azimuth: 90° Pitch: 9°	Azimuth: 90° Pitch: 9°	Azimuth: 90° Pitch: 9°	Azimuth: 90° Pitch: 9°
working frequency	24～24.20GHz	24～24.20GHz	24～24.20GHz	24～24.20GHz	24～24.20GHz	24～24.20GHz
Power consumption (excl. radar)	30W MAX 220VAC	45W MAX 220VAC	55W MAX 220VAC	55W MAX 220VAC	80W MAX 220VAC	100W MAX 220VAC
Communication interface (wireless communication optional)	RJ45/SC optical interface	SC optical interface	SC optical interface	SC optical interface	SC optical interface	SC optical interface
Recognition rate	99%	99%	99%	99%	99%	99%
False alarm rate	＜1target/day	＜1target/day	＜1target/day	＜1target/day	＜1target/day	＜1target/day
Working temperature	－40℃~80℃	－40℃~80℃	－40℃~80℃	－40℃~80℃	－40℃~80℃	－40℃~80℃
IP grade	IP65	IP65	IP65	IP65	IP65	IP65
Installation methods	Fixed/Portable	Fixed/Portable	Fixed/Portable	Fixed/Portable	Fixed/Portable	Fixed/Portable

Applications

Perimeter security and surveillance solutions

-in prison

-in airport

-in oil depot

-in military base

-nuclear power plant

Hunan NovaSky Electronic Technology Co., Ltd

Add: B7 Lugu Compark, No.27 Wenxuan Road, Hi-tech Distrcit Changsha

Tel: +86-731-88939908 Fax: +86-731-88939909

Website: www.novasky.cn Email: jliu@novasky.cn mliu@novasky.cn

Shanghai Hanjie Science and Technology Development Co., Ltd

Add: Room 115, B building, No. 599, Gaojing Road, Qingpu District, Shanghai

Tel: + 86-21-59886192 Fax: +86-21-59886272

Website: www.novasky.cn Email: sales02@novasky.cn

NovaSky (Beijing) Science and Technology Co., Ltd

Add: Room 6009 & 6011, 6th Floor, Chuangxin Building, No. 101, Xisihuannan Road, Fengtai District,Beijing

Tel: +86-10-63727331 Fax: +86-10-63727330

Website: www.novasky.cn Email: sales01@novasky.cn