List of detection controller specifications and functions

		NS-200M (outdoor type)	NS-200S (home type)	NS-400/600C(commercial type)	NS-600R (industrial type)
					
1	System theory	PIFOMIS(polarization insensitive fiber optic Michelson interferometric sensor)			
2	HARDZONE defense design structure	Each zone of detection functions independently. Even if one zone is destroyed, the other zones still work perfectly to secure the remaining perimeter. Completely solve the fatal shortcomings of the destruction of one zone of the software partition (SOFTZONE), and the entire zone completely loses its defense function.			
3	Zones of Detection	2 Zones		4 or 6 Zones	6 Zones
4	Controller placement	Outdoor electrical box	Indoor (surveillance center)		
5	Secured Length/zone	≦300m			
6	Suitable for use	Large areas such as fenced or fenced airports, power plants, petrochemical plants, ports, prisons, borders, and military camps	Families with fences or walls	Small and medium-sized defense areas such as fenced or fenced communities, schools, factories, collective farmhouses, etc.	Large-scale defense areas such as airports, power plants, petrochemical plants, ports, prisons, borders, military camps with fences or walls
7	Input power	connected to an external DC5V input, with a power supply attached, input AC100V ~ 240V	AC 100V~240V		
8	Power consumption	≦5W			≦10W
9	Operating temperature	-20℃~60℃	-20℃ ~ 50℃		
10	Storage temperature	-20℃~60℃			
11	Laser di-oxide wavelength	1535nm～1565nm			
	Laser diode constant temperature protection	No			Yes(25℃±1℃)
	DFB laser output power	Coaxial 4mW			Butterfly 10mW (Laser stability≦±0.1dB)
12	Sensing & detection medium	Fiber			
13	Sensing signals	Vibration / Pressure			
14	Operating interface	Computer mounting the NS (NXTAR) software	Controller buttons and screen or Computer mounting the NS (NXTAR) software		Computer mounting the NS (NXTAR) software
	PC connection interface	RS232 to USB A type	USB Mini type to USB A type	RS232 male to USB A type / USB B type to USB A type	RS232 male to USB A type
	Other communication interface	Can be converted to other communication interfaces such as RJ45 through a converter			
15	Sensitivity parameter setting	Level with 1~99 value setting with 4 dynamic range setting			
		Period with 1~99 seconds setting			
		Counts within sensing period			
16	Pre-warning indication	INTRUDER from non-lit to red blink		Indicator light from green to red blink	WARNING/INTRUDER from non-lit to red blink
17	Intrusion indication	INTRUDER blink in red to lit in red		Indicator light from blink in red to lit in red	WARNING/INTRUDER from blink in red to lit in red
	Intrusion alarm relay status	RelayCCn & NOn become short from open(n=1 · 2)	RelayNC-nI & CC-nI become short from open(n=1 · 2)	Relay IO1/IC1&IO2/IC2 become short from open	INTRUSION Relay NCn-CCn become short from open(n=1~6)
	Intrusion alarm horn sound prompt	Yes (Beep sounds from controller)			
18	Tamper indication	TAMPER from lit in green to green blink		Indicator light from lit in green to green b	TAMPER from lit in green to lit in red
	Tamper relay status	TAMPER relay TCn & TOn T become short from open(n=1 · 2)	TAMPER relay NC-nT& /CC-nT become short from open(n=1 · 2)	Relay T-C1/T-C2 become short from open	TAMPER relay NC-CC become short from open
	Tamper alarm horn sound prompt	No		Yes (Beep sounds from controller)	
19	Power cut	All relays become short from open		Relay P-O1/P-O2 become short from open	INTRUSION/TAMPER relayNC-CC become short from open
	Power cut parameter status	Designed with host parameters not affected by power cut			
20	System Integration	The system can be integrated with CCTV, auto-dialer, access control, siren, searchlights, network video, police and civilian connections. and etc.(relay expansion module)			
21	Dimension / Net weight	28cm x 20.5cm x 4.7cm / 0.9kg	34.4cmX26.5cmX7.8cm/3.1kg	30cmX21cmX8cm/3.9kg	35cmX42.8cmX10cm/4.9kg
Connect the computer and activate the NXTAR software to monitor the following functions					
22	Analysis reference for abnormal optical circuits	Online diagnosis provides user with the information about the status of sensing/leading fiber. Also, it can analyze the decay of optic power.			
23	Intelligent global noise filter	Within 1.6 seconds, the build-in advanced intelligent algorithm can filter out the increased global noise by comparing and analyzing N and S.			
24	Self calibration	When fiber is cut or removed, tamper alarm will be issued within 5 seconds. Meanwhile, the diagram with a spanner will be shown in Maintenance Mode to notice user.			
25	Optical power decay pre-warning & autogain	While fiber or optic components may malfunction, due to improper use, and leads to optic power decay, the system automatically enhance autogain 25 times within 5 seconds, making the system still work properly before repair . Simultaneously displays its overall optical path power attenuation status in Maintenance Mode.			
26	Grouping	The system can filter out the global noise (strong wind, heavy rain, earthquake, thunder and etc) by grouping two or more zones in which the three basic parameters of these zones are met simultaneously.The system will analyze this signal as a non-intrusive signal and exclude it. And it is recommended to group 3 or more as a group			
27	Monitor mapping	User may download the map of the perimeter into to the software.The system can indicate the detection zones in accordance with the actual mapping to examine if there is any intrusion or tamper.			
28	Event log	It can record the time of intrusion alarm or system failure in each defense zone, and also record the time of abnormality in the connection between the detector and the computer			
29	Signal analysis	It can analyze the long-term sensing signal curve of each defense zone to optimize the parameter settings			
30	Remote monitoring and diagnosis function	The detection controller can be transmitted to the remote monitoring or maintenance center via the Internet, and the maintenance mode can be turned on for network connection such as system abnormal diagnosis and parameter optimization . Achieve global synchronous remote real-time diagnosis and fast maintenance service.			