SF-DEMOSMART-B

Safire Smart Artificial Intelligence Kit

1 Bullet camera of 4Mpx

1 8CH NVR with audio and alarm

1 Hard disk of 1TB

HDMI video output 4K

Classification of human and

advanced vehicle

Safire Smart

Advanced Artificial Intelligence Kit

Contains SF-NVR8108A-B2 recorder and SF-IPB585ZA-4I1 Bullet camera

Resolution up to 4Mpx

2.8~12mm Motorised Lens

Includes hard disk of 1TB

Artificial intelligence based on human, vehicle and non-motorized vehicle classification

Facial recognition with database of up to 5000 faces

Video metadata with human and vehicle attribute extraction

Compatible with Safire Smart APP

Face searches and intrusion events on the application

ONVIF Compatible

Specifications

HD1TB

Capacity	1TB
Interface	SATA
Transfer Rate	6 Gb/s
Model	WD10PURX
Manufacturer	Western Digital
Buffer size	64 MB
Temp. operation	0º C ~ +65º C

SF-IPB585ZA-4I1

Brand	Safire Smart
Range	I1
Image sensor	1/3" Progressive Scan CMOS
Maximum resolution	4 Megapixel (2592x1520)
Minimum illumination	Colour: 0.005 Lux @(F1.6, AGC ON), 0 Lux with IR
IR range	70 m
Day/Night	Removable mechanical ICR filter
Electronic Shutter	1/2~1/100.000 s
Main Stream rate	25 FPS (4Mpx, 2K, 3Mpx, 1080P, 720P) HFR mode: 60 FPS (1080P / 720P)
Extra Stream rate	25 FPS (720P, D1, CIF, 480x240)
Third Stream Rate	25 FPS (D1, 480x240, CIF)
Compression	H.265+ / H.265 / H.264+ / H.264
Bitrate	64 Kbps ~ 8 Mbps
Lens	Motorized 2.8 ~ 12 mm
Field Of View (FOV)	H: 100-28.9°, V: 54.4-16.7°, D: 104.8-33.1°
Range performance	W: 59 m (D), 24 m (O), 12 m (R), 6 m (I) T: 206 m (D), 82 m (O), 41 m (R), 21 m (I)
Image improvements	WDR 120dB, BLC, HLC, 3D-DNR, AWB, ROI, Mirror Function, Privacy Mask, ROI
Motion Detection	Yes
Smart Features	Advanced artificial intelligence based on human, vehicle, and non-motorized vehicle classification on: Area Intrusion, Line Crossing, Entry Region, Exit Region Face Detection and Face Capture Counting of people, vehicles and non-motorized vehicles Feature extraction: - Human: Up to 13 characteristics - Vehicle: Up to 5 characteristics - Non-motorized vehicle: Up to 1 characteristics Other smart events: abandoned object, removed object
Exceptions	Scene change, blur detection and abnormal color detection
Audio	1 Input
Audio Compression	G711A / U
Alarms	1 Input / 1 Relay

Network interface	Ethernet 10 / 100M BaseT
Internal memory	MicroSD card up to 256GB
Remote access	Web Browser, Smartphone App Safire Smart, PC Software Safire Smart VMS
Interoperability	ONVIF
Power	DC 12 V / mA / 9 W max. / IEEE802.3af PoE
Degree of protection	Weatherproof IP67
Material	Metallic
Temp. operation	-30º C ~ +60º C
Dimensions	88.7 (H) x 100.2 (W) x 278.3 (D) mm
Weight	1000 g

SF-NVR8108A-B2

Brand	Safire Smart
Range	B2
Inputs for IP cameras	8CH IP
IP compatible cameras	Safire Smart (native protocol), ONVIF
Bidirectional audio	1 input / 1 RCA output
Main Stream recording	12MP/8MP/6MP/5MP/4MP/3MP/1080P/1280×1024/960P/720P/ 960H/D1/CIF
Decoding capacity	1CH 12Mpx @ 20FPS 4CH 1080P @ 30FPS
Video compression format	H.265+ / H.265 / H.264+ / H.264
Audio Compression	G.711(U/A)
Total bandwidth	80 Mbps downstream / 80 Mbps upstream
Video outputs	1 HDMI 4K / 1 VGA
Display resolution	HDMI: 3840x2160, 1920x1080, 1280x1024, 1024x768 VGA: 1920x1080, 1280x1024, 1024x768 *HDMI and VGA can be configured to output the same or a different video source
Yesmultaneous multifunction	Pentaplex: Live, Recording, Playback, Backup and Remote Access
Multi-Screen	Main output: 1 / 4 / 6 / 8 / 9 (Live view) Secondary output: 1 / 4 / 6 / 8 / 9 (Live view) AI mode (Default): Max. 8CH (simultaneous HDMI and VGA) AI on recorder available Independent video output: Max. 16CH (HDMI and VGA independent) AI by recorder not available
Recording method	Manual, programmed, motion detection, smart events, alarm input, POS
POS Function	Si
Perimeter Protection	Need to use Safire Smart 4I1 or 8I2 cameras Artificial Intelligence based on the classification of humans, vehicles and two-wheeled vehicles on: - Area intrusion - Line crossover - Region entry - Exit region Detailed searches for intelligent events
Facial recognition	Face detection with Safire Smart cameras 4I1 or 8I2 up to 8CH (All channels) Face detection by the NVR itself with any camera up to 2CH Facial recognition up to 6CH max Computation of up to 18 images / second 32 Libraries and up to 10000 face images Image searches via recorder, APP and PC software Face tracking on map or plan Statistical information on face results by day, week, month or customized period
Video metadata	Need to use Safire Smart 4I1 or 8I2 cameras Human and vehicle feature extraction For humans: Can extract up to 13 features (glasses, color of clothes, etc.) For vehicles: can extract up to 5características (color, type, etc.)
License plate recognition	Yes (Safire Smart license plate camera required)
Dewarping	Supports Fisheye camera dewarping

Alarms	8 Inputs / 4 Outputs
External Backup	USB memory / HDD USB / CD-RW USB / DVR-RW USB
Internal memory	1x 3.5" HDD SATA3.0 up to 10 TB (not included)
Communication	1 x USB 3.0 / 2 x USB 2.0 / 2 x RJ45 10/100/1000M (Ethernet) / RS485
Remote access	Web Browser, Safire Smartphone App and PC Software Safire Smart VMS
Power	DC 12V / 2A, ? 20W (Without hard disk)
Operating temperature	-10ºC ~50ºC, Humidity 10~90%
Dimensions / Weight	48.1 (H) x 300 (W) x 248.5 (D) mm / 1.18 Kg