

# PRN-1600B2

16CH AI NVR

 Hanwha Vision



**FC**

**CE**

**EAC**



## Key Features

- Up to 8K (32MP) Resolution
- AI search (Best Shot, Attribute)
- Object detection and classification, License Plate Recognition (LPR)
- SATA 8ea (Up to 80TB)
- Easy Channel/Event/Alarm configuration
- Video preview support
- Dynamic Event support
- Bookmark management (Up to 100 set)
- Simple connection with mobile phone through QR code

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16CH AI NVR



## Specifications

Display		
Network camera	Inputs	Max. 16CH
	Resolution	32MP ~ CIF
	Protocols	SUNAPI, ONVIF
Decoding	Local Display	[Dual Display] HDMI 1: 3840 x 2160 (30Hz) HDMI 2: 1920x1080 (60Hz)
	Multi Screen Display	[Local Monitor] - Dynamic layout, Virtual channel view - Clone Mode : Up to 16 Division - Expand Mode : HDMI1 up to 16 Div. HDMI2 up to 16 Div. [Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9
	Resolution	32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(120fps), 1080p(480fps), 720P(960fps), D1(1920fps)
Performance		
Operating System	Embedded	Linux
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Distributed mode : Up to 250 Mbps Normal mode : Up to 150 Mbps RAID mode : Up to 250 Mbps
	Resolution	32MP ~ CIF
	Mode	Normal, Dual Stream, Schedule(Continuous/Event), Event (Pre/Post), Bookmark
	Event Trigger	Alarm Input, Video Loss, Camera Event(Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event
Search & Play	Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
	Playback Bandwidth	RAID Mode : Max. 64Mbps Non-RAID Mode : Max. 32Mbps
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 64CH(Local 16CH, Remote 16CH per user)
	Fisheye Dewarping	Support (Local 1CH), CMS
	Mode	Date & Time(Calendar), Event list, Text Search, Smart Search
	Resolution	CIF ~ 32MP (Up to H.264 9MP, H.265 32MP)
Storage	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down
	Supported HDD	Up to 10TB
	HDD Slot	SATA 8ea(Max. 80TB, Non-RAID mode)
	External	iSCSI storage
Backup	RAID	RAID-5/6(Single, 1 Array)
	File backup	BU/Exe/AVI(GUI), JPG/AVI(Network)
	Function	Multi channel(Up to 16CH) Play, Date-Time/Title display

<b>Network</b>		
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)	
DDNS	Hanwha DDNS	
Transmission Bandwidth	Max. 250Mbps	
Audio	GUI	16 CH(network)
	Web	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
Max Remote Users	Search(3), Live Unicast(10), Multicast(20)	
Security	IP address filtering, User access Log, 802.1x, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware	
Web viewer	Supported OS	Windows 10, macOS 10.13
	Supported browser	Google Chrome, Microsoft Edge, Mac Safari
Viewer Software	WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS	
<b>Functions</b>		
Camera Setup	Register	Auto, Manual
	Item	IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup (4, 8 point polygon) Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSMR, Shutter, SSSR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
	Control	Via GUI, Webviewer, SPC-2000
PTZ	Preset	300 Presets
	Support Model	iOS, Android
Smart phone	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live 16CH(Multi-Profile Support), Playback 4CH
	Max. Remote Users	Search(3), Live Unicast(10)
Redundancy	Failover	N+1
	ARB	Support
Easy configuration	P2P(QR code)	
<b>Interface</b>		
Front	Indicator	HDD, Alarm, Power, Record, Backup, Network, RAID
Storage	OK	
Reset	OK	
HDD Key Lock	OK	
HDMI	2EA ( Playback/Setup → HDMI1) HDMI1 : 3840x2160 30Hz HDMI2 : 1920x1080 60Hz	
Audio	Out 1EA (3.5mm Audio Jack)	
Ethernet	RJ-45 3EA (LAN/WAN, 1Gbps)	
Alarm	In 8EA, Out 4EA	
USB	4EA(Front 2 x USB 2.0, Rear 2 x USB 3.0)	
Power inlet	AC 1EA	
<b>System</b>		
Log	Log List	Max. 100,000 (System Log, Event Log each)
System Control	Mouse, Keyboard, Web, Controller (SPC-2000)	

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Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese	
<b>Environmental</b>		
Operating Temperature	0°C to +40°C(32°F to 104°F)	
Operating Humidity	20% ~ 85% RH	
<b>Electrical</b>		
Power Input	100 ~ 240 VAC ±10%; 50/60 Hz, 2.1A	
Power Consumption	Max. 205W (With 10TB HDDs 8EA)	
<b>Mechanical</b>		
Color / Material	Black / Metal	
Dimension (WxHxD)	438 x 86 x 434.9 mm	
Weight	Approx. 9.1Kg (20.1 lb, HDD not included)	
<b>Intelligent Analysis</b>		
AI Search	Object Attribute	Human, Face, Vehicle, Liscence plate
	LPR	English, Number (Wisenet AI, P/X Camera)

