



# PRN-1600B2

16CH AI NVR



## Key Features

- Up to 8K (32MP) Resolution
- AI search (BestShot, 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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## 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
	Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
Search & Play	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)
	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down
Storage	Supported HDD	Up to 10TB
	HDD Slot	SATA 8ea(Max. 80TB, Non-RAID mode)
	External	iSCSI storage
	RAID	RAID-5/6(Single, 1 Array)
Backup	File backup	BU/Exe/AVI(GUI), JPG/AVI(Network)
	Function	Multi channel(Up to 16CH) Play, Date-Time/Title display

### Network

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	Input/Output	16 CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)

	<b>Audio Communication</b>	2-Way
<b>Max Remote Users</b>		Search(3), Live Unicast(10), Multicast(20)
<b>Security</b>		IP address filtering, User access Log, 802.1x, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware
<b>Web viewer</b>	<b>Supported OS</b>	Windows 10, macOS 10.13
	<b>Supported browser</b>	Google Chrome, Microsoft Edge, Mac Safari
<b>Viewer Software</b>		WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS

## Functions

<b>Camera Setup</b>	<b>Register</b>	Auto, Manual
	<b>Item</b>	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, SSNR, Shutter, SSSR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
<b>PTZ</b>	<b>Control</b>	Via GUI, Webviewer, SPC-2000
	<b>Preset</b>	300 Presets
<b>Smart phone</b>	<b>Support Model</b>	iOS, Android
	<b>Protocol Support</b>	RTP, RTSP, HTTP, CGI(SUNAPI)
	<b>Control</b>	Live 16CH(Multi-Profile Support), Playback 4CH
	<b>Max. Remote Users</b>	Search(3), Live Unicast(10)
<b>Redundancy</b>	<b>Failover</b>	N+1
	<b>ARB</b>	Support
<b>Easy configuration</b>		P2P(QR code)

## Interface

<b>Front</b>	<b>Indicator</b>	HDD, Alarm, Power, Record, Backup, Network, RAID
<b>Storage</b>		OK
<b>Reset</b>		OK
<b>HDD Key Lock</b>		OK
<b>HDMI</b>		2EA ( Playback/Setup → HDMI1) HDMI1 : 3840x2160 30Hz HDMI2 : 1920x1080 60Hz
<b>Audio</b>		Out 1EA (3.5mm Audio Jack)
<b>Ethernet</b>		RJ-45 3EA (LAN/WAN, 1Gbps)
<b>Alarm</b>		In 8EA, Out 4EA
<b>USB</b>		4EA(Front 2 x USB 2.0, Rear 2 x USB 3.0)
<b>Power inlet</b>		AC 1EA

## System

<b>Log</b>	<b>Log List</b>	Max. 100,000 (System Log, Event Log each)
<b>System Control</b>		Mouse, Keyboard, Web, Controller (SPC-2000)
<b>Language</b>		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese

## Environmental

<b>Operating Temperature</b>	0°C to +40°C(32°F to 104°F)
<b>Operating Humidity</b>	20% ~ 85% RH

## Electrical

<b>Power Input</b>	100 ~ 240 VAC ±10%; 50/60 Hz, 2.1A
<b>Power Consumption</b>	Max. 205W (With 10TB HDDs 8EA)

## Mechanical

<b>Color / Material</b>	Black / Metal
<b>Dimension (WxHxD)</b>	438 x 86 x 434.9 mm
<b>Weight</b>	Approx. 9.1Kg (20.1 lb, HDD not included)

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### Intelligent Analysis

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<b>AI Search</b>	<b>Object Attribute</b>	Human, Face, Vehicle, License plate
	<b>LPR</b>	English, Number (Wisenet AI, P/X Camera)

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CAD

Unit: mm [inch]

This parts should not contain any substances which are specified in AH60-0033K

