

Blazer Pro All-in-One Server (Blazer Pro/128(256)/16H)

The Blazer Pro is an all-in-one server that combines Hikvision's powerful video management system (HikCentral) with a video storage board. The Blazer Pro can manage up to 256 network cameras (for Blazer Pro/256/16H) or 128 network cameras (for Blazer Pro/128/16H) for recording, live view, and playback. With the power of VMS, sophisticated alarm management is possible, as well as central management, information sharing, convenient connection and multi-service cooperation. The Blazer Pro's unique design provides both powerful storage and advanced centralized video management capabilities.



Main Features

Quick Network Cameras Connection

- Automatically discover online network cameras
- Add up to 256 network cameras (for Blazer Pro/256/16H) or 128 network cameras (for Blazer Pro/128/16H) for management

Advanced System Stability

- Video storage device (Storage Board) and video management system (Server Board) are located on independent motherboards to strengthen the stability of the server
- Linux operating system, ANR technology, and N+1 hot spare system for storage board to enhance the reliability
- Pre-installed Windows 10 operating system and HikCentral system on the built-in SSD for server board
- Redundant power supplies
- Redundant network connections
- Users with related permission can switch to administrative mode to access the operating system
- Database backup and restoration
- System data hot spare via RoseReplicatorPlus

Convenient Data Storage

- Up to 16 SATA hard disks, 1 eSATA and 2 miniSAS (optional) can be connected, for data storage (for video storage)
- One 1 TB HDD (Disk D) is delivered with Server Board for storing pictures, logs, etc.
- Supports HDD hot swap with RAID0, RAID1, RAID5, RAID10 storage scheme configurable
- Supports HDD quota and group modes; different capacity can be assigned to different cameras

High Compatibility

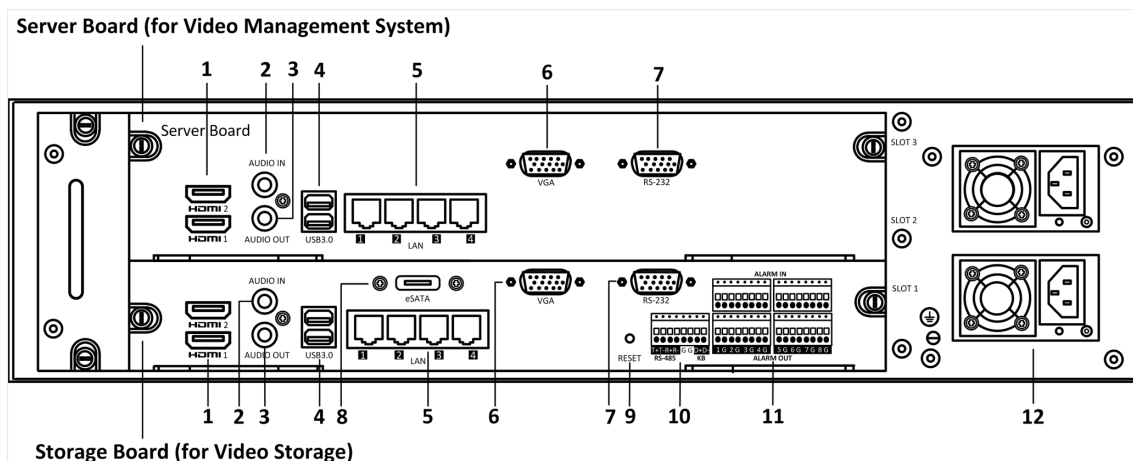
- Multiple Hikvision devices can be added: network cameras, network speed domes, DVRs, NVRs, etc.
- Connect third-party devices via standard ONVIF/TM protocol

Advanced Video Management Features



- Remote Site management to manage added Remote Site's resources in Central System
- Set the recording schedule for the connected cameras
- System-related event settings for camera, alarm input, encoding device, and server
- Generic event settings for analyzing the received TCP and/or UDP data packages to integrate with external sources
- Alarm settings for camera, alarm input, encoding device, server, ANPR, generic event, and remote site
- Map for viewing the camera locations and distributions, alarm inputs, alarm outputs, etc.
- Allow live view, PTZ control, manual recording, and other operations of the connected cameras
- Normal playback, synchronous playback, fisheye playback, and VCA playback are selectable
- Display people counting and heat map statistics
- View live video of ANPR cameras, and the license plate displays; Search logs of vehicle license plate recognized by the camera and the related vehicle passing information
- Search video files stored on local devices or Recording Server
- Search the video files of transaction event by inputting the keywords in POS information
- Set VCA rule to search the video that VCA event occurs
- Web Client, Control Client, and Mobile Client available for system management to access Blazer Pro anytime, anywhere
- Manage role and user permission
- Active directory integration

Physical Interface



Index	Name
1	HDMI™ Interfaces
2	AUDIO OUT
3	AUDIO IN
4	USB 3.0 Interfaces
5	LAN Network Interfaces
6	VGA Interface
7	RS-232 Serial Interface
8	eSATA Interface
9	Reset Button
10	RS-485 Serial Interface

Index	Name
11	ALARM IN and ALARM OUT
12	100 to 240 VAC Power Input

Specifications

Model		Blazer Pro/256/16H	Blazer Pro/128/16H	
Server Board	CPU	Intel® Xeon® Quad-Core (64-bit) E3-1225 V5 CPU @ 3.30GHz		
	Memory	4 × DDR4 slots, 8GB ECC + UDIMM memory (extendable up to 64 GB)		
	Operating System	Microsoft® Windows 10 (pre-installed with HikCentral V1.1) Optional: Microsoft® Windows Server 2012 R2 (pre-installed with HikCentral V1.1)		
	System Disk	Industrial-level SSD with 128 GB capacity		
	HDD	HDD Slot	4 × SATA interfaces, 2.5-inch HDDs are connectable	
		HDD for HikCentral	1 × 2.5-inch HDD of 1 TB are delivered with device Expandable to up to four 2.5-inch HDDs	
	Video Output	HDMI™ Output	2 (independent output)	
		VGA Output	1 (independent output)	
	Audio Input/Output	Audio Input	1, RCA (2.0 Vp-p, 1KΩ)	
		Audio Output	1, RCA (2.0 Vp-p, 1KΩ)	
	Network Interface	4 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces, independent IP address by default		
	Network Bandwidth	Incoming	500 Mbps	
		Outgoing	400 Mbps	
	Serial Interface	RS-232		
	USB Interface	Front panel: 2 × USB 2.0; Rear panel: 2 × USB 3.0		
	Video Decoding Format	H.265, H.265+, H.264, H.264+, MPEG4, MJPEG		
	Decoding Performance	24 × 1080p Note: The performance is under pressures from the added resources such as 10 Remote Sites and 1,024 cameras, 120 events or alarms handled per second, 8 smart walls, 32 decoding devices, 4 view groups auto-switched simultaneously, etc.		
	Default License	License of max. 256 cameras	License of max. 128 cameras	
	Maximum License	Expandable to License of up to 1,024 cameras		
	Number of Clients (Control Client or Web Client) Concurrently	Maximum 100		
Number of Mobile Clients Concurrently	Maximum 100			
Number of Connected Encoding Devices	Maximum 1,024			
Number of Connected Cameras	Maximum 1,024			
Number of Alarm Inputs	Maximum 1,024			
Number of Alarm Outputs	Maximum 1,024			
Number of ANPR Cameras	Maximum 20			

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Number of People Counting Cameras		Maximum 70 (displaying up to 4 cameras in one people counting report)	
Number of Heat Map Cameras		Maximum 70	
Number of Recording Servers		Maximum 16	
Number of Areas		Maximum 3,000	
Number of Area Hierarchies		Maximum 5	
Number of Cameras per Area		Maximum 64	
Number of Alarm Inputs per Area		Maximum 64	
Number of Alarm Outputs per Area		Maximum 64	
Number of Maps		Maximum 1,024	
Resolution of Map		Maximum 1920 × 1080	
Number of Map Hierarchies		Maximum 6	
Number of Hot Regions per Map		Maximum 64	
Number of Camera Hot Spots per Map		Maximum 128	
Number of Alarm Input Hot Spots per Map		Maximum 128	
Number of Alarm Output Hot Spots per Map		Maximum 128	
Number of Labels per Map		Maximum 128	
Number of Hot Regions in Total		Maximum 1,024	
Number of Camera Hot Spots in Total		Maximum 3,000	
Number of Alarm Input Hot Spots in Total		Maximum 3,000	
Number of Alarm Output Hot Spots in Total		Maximum 3,000	
Number of Labels in Total		Maximum 3,000	
Number of Users		Maximum 3,000	
Number of Roles		Maximum 3,000	
Number of Alarm Logs		Maximum 60,000,000	
Number of Event Logs		Maximum 60,000,000	
Number of Operation Logs		Maximum 5,000,000	
Number of System Logs		Maximum 5,000,000	
Number of Tags		Maximum 60,000,000	
Number of People Counting Records		Maximum 5,000,000, stored for 2 years	
Number of Heat Map Records		Maximum 250,000, stored for 2 years	
Number of License Plate Recognition Records		Maximum 60,000,000	
Smart Wall Module on Control Client		Optional (not installed by default)	
Remote Site Management (RSM)		Optional (not activated by default, based on the License) If activated, maximum number of resources can be managed: 1,024 Remote Sites and 1,024 cameras	
Streaming Gateway (Installed by default)	Incoming	Maximum 200 × 2 Mbps	
	Outgoing	Maximum 200 × 2 Mbps	
RoseReplicatorPlus Control Center		Optional (not installed by default)	
Manageable Device Type		NVR, DVR, network camera, encoder, decoder, video wall controller, CVR, Cloud Storage Server, Blazer Express (version 1.4)	

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Language of Operating System and HikCentral		and later, managed via RSM), Blazer Pro without RSM (version 2.1 and later, managed via RSM)	
		Bulgarian, Czech, Danish, English, French, German, Hungarian, Japanese, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Thai, Traditional Chinese, and Turkish Note: The HikCentral system is in English by default. You need to download the language package on the Hikvision website and install it.	
Master Chip	CPU	Intel® Xeon® E3-1225	Intel® Core™ I3-6100
	System Disk	SSD with 8 GB capacity	
	Memory	4 × DDR4 slots, 8 GB ECC + UDIMM memory	
Operating System		Embedded Linux	
Network Camera Video Input		256-ch	128-ch
Incoming/Outgoing Bandwidth		768/768 Mbps	576/512 Mbps
Video/Audio Output	HDMI™ Output	2-ch (independent output) 4K (4096 × 2160), 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1080p (1920 × 1080)/60Hz, UXGA (1600 × 1200)/60Hz, SXGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, XGA (1024 × 768) /60Hz	
	VGA Output	1-ch 1080p (1920 × 1080)/60Hz, UXGA (1600 × 1200)/60Hz, SXGA (1280 × 1024)/60Hz, 720p (1280 × 720) /60Hz, XGA (1024 × 768)/60Hz	
	Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1KΩ)	
	Audio Output	1-ch, RCA (2.0 Vp-p, 1KΩ)	
Audio/Video Decoding	Video Decoding Format	H.265, H.265+, H.264, H.264+, MPEG4, MJPEG (for Hikvision network camera only)	
	Audio Decoding Format	G.711ulaw, G.711alaw, G.722, G.726, AAC, MP2L2	
	Live View Window Division	1/4/6/8/9/16/25/32/36/64-window	
	Recording Resolution	12MP/8MP/7MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF	
	Synchronous Playback	Maximum 16-ch	
	Decoding Performance	20 × 1080p (H.264 & H.265)	
HDD Management	HDD Slot	16 × SATA interface for connecting 3.5-inch HDDs (support hot swapping)	
	Capacity	1TB/2TB/3TB/4TB/5TB/6TB/8TB	
	RAID	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10 Support global hot spare disk	
Storage Extension	eSATA Interface	1 × eSATA interface	
	SAS Interface	2 × miniSAS interface (Optional)	
Network Interface		4 × RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces	
Alarm Input/Output		16/8	
Serial Interface		1 × RS-232; 1 × RS-485 (full-duplex); 1 × Keyboard	
USB Interface		Rear panel: 2 × USB 3.0	
Language		English	

Model		Blazer Pro/256/16H	Blazer Pro/128/16H	
General	Power Supply	Two power supply interfaces. 100 to 240 VAC, 550 W		
	Consumption (without HDD)	≤ 300 W		
	Temperature Sensor	Supported (detecting temperature inside the chassis and controlling the fan speed)		
	Fan	Redundant dual-ball bearing fan. Hot swapping and smart speed adjusting		
	Temperature	Working Temperature	0°C to +50°C (32°F to 122°F)	
		Storage Temperature	-10° C to +70° C (14° F to 158° F)	
	Humidity	Working Humidity	10% to 90% RH (no freezing and no condensation)	
		Storage Humidity	5% to 90% RH (no freezing and no condensation)	
	Chassis	3U chassis of thick galvanized steel		
	Dimensions (W × D × H)	487 mm × 560 mm × 133 mm (19.2" × 22.0" × 5.2")		
Guide Rail	External guide rail for installing device into a rack			
Weight (without HDD)	≤20 kg (44.09 lb)			

Available Models

Blazer Pro/128/16H

Blazer Pro/256/16H

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