

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 network cameras 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 network cameras for management and further operations

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



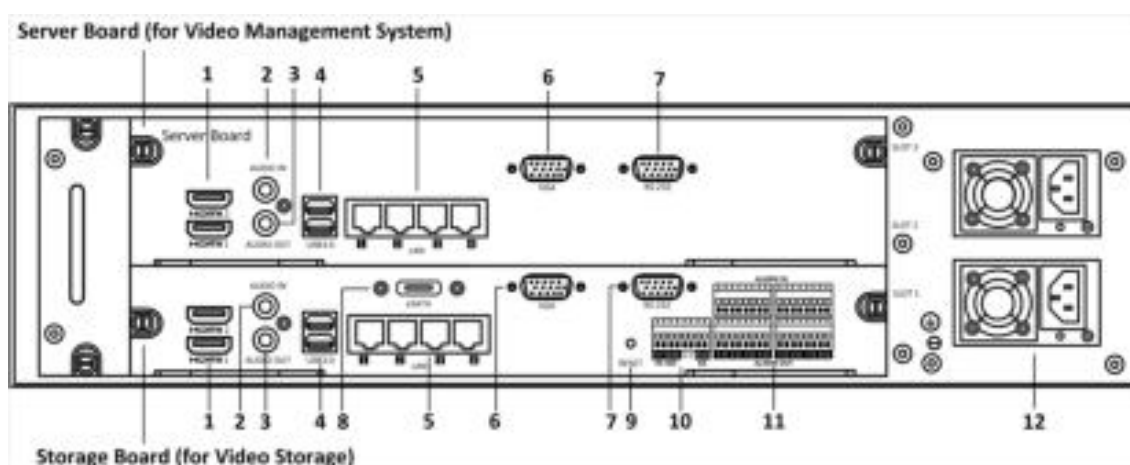
High Compatibility

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

Advanced Video Management Features

- 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
- **Optional:** Smart Wall function for high definition video surveillance
- **Optional:** Remote Site management to manage added Remote Site's resources in Central System

Physical Interface



Index	Name
1	HDMI™ Interfaces
2	AUDIO OUT
3	AUDIO IN

Index	Name
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
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 ¹		24 × 1080p	
	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 ²		Maximum 256	
	Number of Connected Cameras ²		Maximum 256	
	Number of Alarm Inputs ²		Maximum 256	
	Number of Alarm Outputs ²		Maximum 256	
	Number of ANPR Cameras		Maximum 20	
	Number of Area Hierarchies		Maximum 5	
	Number of Cameras per Area		Maximum 64	
	Number of Alarm Inputs per Area		Maximum 64	

Model		Blazer Pro/256/16H	Blazer Pro/128/16H
	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) ³	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 and later, managed via RSM), Blazer Pro without RSM (version 2.1 and later, managed via RSM)	
	Language of Operating System and HikCentral ⁴	Bulgarian, Czech, Danish, English, French, German, Hungarian, Japanese, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Thai, Traditional Chinese, and Turkish	

Model			Blazer Pro/256/16H	Blazer Pro/128/16H
Storage Board	Master Chip	CPU	Intel® Xeon® E3-1225	Intel® Core™ i3-6100
		System Disk	SSD with 8 GB capacity	
		Memory	4 × DDR4 slots, 8 GB	
	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	
General	Power Supply		Two power supply interfaces. 100 to 240 VAC, 550 W	
	Consumption (without HDD)		≤ 300 W	

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	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 ⁵		External guide rail for installing device into a rack	
	Weight (without HDD)		≤20 kg (44.09 lb)	

- * 1 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.
- 2 For expansion, contact our technical support.
- 3 The RSM function supports cascading. For details, contact our technical support.
- 4 The HikCentral system is in English by default. You need to download the language package on the Hikvision website and install it.
- 5 The guide rail is not delivered with the server by default. For purchase, contact our technical support.

Available Models

Blazer Pro/128/16H
Blazer Pro/256/16H

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