HIKVISION

Blazer Pro All-in-One Server

Introduction

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. It also can manage access control devices, security control devices, and face recognition devices for access control, time and attendance, security control, and face recognition. 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.

Available Models

Blazer Pro/128/16H

Main Features

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
- 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.
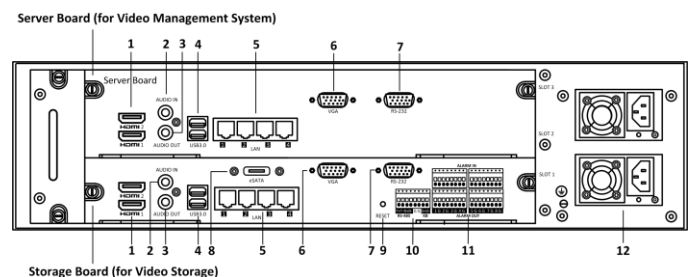- Connect third-party devices via standard ONVIF™ protocol

Advanced Modules & Features

- Web Client, Control Client, and Mobile Client available for system management to access Blazer Pro anytime, anywhere
- 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
- View live video of ANPR cameras, and the recognized license plate displays; Search logs of vehicle license plates recognized by cameras and the related vehicle passing information

- View recognized faces during live view and check matched person information. Supports triggering an alarm for the recognized person in the blacklist.
- Supports searching person information by captured face pictures
- Access control functions including allowing authorized persons to enter or exit a property, a building, or a room, and controlling door status via clients, etc.
- Supports heat map report to analyze the visit times and dwell time of customers
- Supports people counting report to view the number of people entered, exited, or both entered and exited
- Supports queue analysis report to view queue exceptions and number of persons in each queue
- Supports temperature report to show exceptions (temperature too high or too low) and maximum/minimum temperature
- Supports vehicle analysis report to show the number of passing vehicles detected by the ANPR cameras
- Smart Wall function for high definition video surveillance

Physical Interfaces

Server Board (for Video Management System)

Storage Board (for Video Storage)

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

Specifications

Model	Item		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)	
	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 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	
	Clients (Control Client or Web Client) Concurrently		Maximum 100	
	Mobile Clients Concurrently		Maximum 100	
	Encoding Devices		Maximum 256	
	Cameras	Default License		Maximum 128
		Maximum License		Maximum 1,024
	ANPR Cameras	Default License	Maximum 16	
		Maximum License	Maximum 20	
	People Counting Cameras[1]			Maximum 128
	Heat Map Cameras[1]		Maximum 70	
	Queue Management Cameras[1]			Maximum 128
	Thermal Cameras[1]		Maximum 70	
	Alarm Inputs		Maximum 3,000 *Including alarm inputs of security control devices.	
	Users		Maximum 3,000	
	Data Storage	Data Recorded in System	Stored for 3 Years *Including event logs, recording tags, face comparison data, card swiping records, attendance records, ANPR records, video analysis data, service error logs, service warning logs, and service information logs.	
		Alarm Logs	Maximum 60 million	
		BI Data	Stored for 3 Years	

			*Including heat map records, passing vehicle records, people counting records, temperature records, and queue analysis records.
	Smart Wall		Optional
	Face Comparison (Optional)	Face Pictures	Maximum 10,000
		Face Comparison Groups	Maximum 64
		Persons in One Face Comparison Group	Maximum 10,000
		Storage of Face Matched/ Mismatched Events	120/s without Pictures 20/s with Pictures (Each Picture 500 KB, Stored in Server Board)
	Person (Optional)	Persons	10,000
		Cards	50,000
		Fingerprints	40,000
		Credentials (Card+Fingerprint)	50,000
		Size of Each Profile	300 KB
		Total Size of Profiles	3 GB
	Access Control (Optional)	Access Control Devices	Maximum 128
		Access Points	Maximum 128
	Streaming Gateway	Incoming	Maximum 200 × 2 Mbps
		Outgoing	Maximum 200 × 2 Mbps
	RoseReplicatorPlus Control Center		Optional
	Manageable Device Type		NVR, DVR, network camera, encoder, decoder, video wall controller, Hybrid SAN, Cloud Storage Server
Storage Board	Master Chip	CPU	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		128-ch
	Incoming/Outgoing Bandwidth		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	**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 Supports 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 Hard Disk)		≤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**	0º C to +50º C (32º F to 122º F)
		Storage Temperature	−10º C to +70º C (14º F to 158º 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[3]		External guide rail for installing device into a rack
	Weight (without Hard Disk)		≤20 kg (44.09 lb)

1: By default, you can manage these cameras in the system. But for further BI report function, you should purchase extra License. For purchase, contact our technical support.
2: The guide rail is not delivered with the server by default. For purchase, contact our technical support.

0202001081116