

DNA8000 HD / IP Video Digital Matrix Switcher 320ch @ 1080p



DESCRIPTION

The DNA8000 Series is a Quad core CPU, LINUX OS based, Enterprise Network IP Digital Matrix Platform Appliance System with Encoding up to 320-ch @D1 or 160-ch @1080p; Decoding up to 1280-ch @D1 or 320-ch @1080p. Compatible with ONVIF compliant H.265/H.264/MJPEG HD/IP Cameras, 20 simultaneous users may access, view and control system. Features include, modular 10 input or output Composite, HD/SDI or Network Video Cards, Intelligent Video Detection, 4x4 Videowall Interface and Splicing, Electronic Mapping, Audio, 64 Alarms in/8 out card, RS-232, RS-485 Data, 4 USB ports and 8 x 10/100/1000Mbps RJ-45 ports. With dual 100-240VAC input PSU, Series DNA8000 Video Matrix Platform are advanced solutions for Enterprise commercial, industrial, Analog, HD-SDI and IP video surveillance installations.



FEATURES

- * 19" x 12U HD-SDI, IP Video Matrix Platform
- * Quad Core Microprocessor and LINUX OS
- * 10 Input Encoder/10 output Decoder Cards
- * IP/HD Matrix Switch: 320-ch @1080, 640-ch @720, 1280-ch @ D1 Resolution
- * 160-ch @1080p, 320-ch @D1 Encoding
- * 320-ch @1080p; 1280 @D1 Decoding
- * 32-ch Analog Video-Audio In; 12-ch V-A Out
- * 8-ch HD-SDI Input; 8-ch DVI/HDMI Output
- * Supports SD/HD Video Matrix Switching via Network Keyboard or Client PC
- * Supports Intelligent Video Detection as: Trip-wire Detection, Region Intrusion, Perimeter Protection, Abandoned Object, Missing Object Detection, Illegal Parking, Over-the-Speed Limit, Wrong Way
- * Supports 4x4 Videowall Display w/Splicing
- * Remote Setup, Upgrade, Reboot via Network
- * Integrated, Multi-layered Facility Maps
- * Advanced Search and Playback functions
- * RS-232 PC controls; RS-485 PTZ controls
- * Network functions: HTTP, TCP/IP, UDP, RTSP
- * 8x10/100/1000Mbps RJ-45 Ethernet Ports
- * 64 Alarms Input, 8 Relay Output Card
- * 4 (2.0) USB Ports (external backup)
- * Dual PSU, 100-120VAC, 200-240VAC
- * Compliance with CE, FCC and ROHS

APPLICATIONS

- * Homeland Security
- * Correctional Centers
- * Petrochemical Industry
- * Corporate and Banking
- * Casinos and Hospitality
- * Health Care Centers
- * Schools and Universities
- * Government and Military
- * Power Generating Plants
- * Traffic Surveillance (ITS)



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ORDERING INFORMATION

DNA8000-2 19" Mainframe Switcher Bay with Control Board and 2 PSU 100-120/200-240VAC

Input Cards

DA8132BIC 32-ch NTSC/PAL BNC input, H.264 Video, G.711a Audio Encode @ D1 resolution
 DA8108SIC 8-ch HD-SDI BNC input, H.264 Video Encode @ 1080p resolution
 DA8116SIC 16-ch HD-SDI BNC input, H.264 Video Encode @ 1080p resolution

Output Cards

DA8212BOC 48-ch @D1 resolution, 12 Video BNC
 DA8238VOC 32-ch @1080p, 64-ch @720p, 128-ch @D1 resolution, 8 VGA, 8 Audio DB15 out
 DA8238DOC 32-ch @1080p, 64-ch @720p, 128-ch @D1 resolution, 8 DVI, 8 Audio DB15 out
 DA8238HOC 32-ch @1080p, 64-ch @720p, 128-ch @D1 resolution, 8 HDMI, 8 Audio DB15 out

Alarm Interface Card

DA8100-AC 64 Alarm Input, 8 Relay Output Card, occupies 1 Slot in Mainframe

Video Intelligence Detection

DA8300-VIC 16-ch Video Analytics Card with Intelligence Detection Software (2nd quarter 2014)

Intelligent Detection System	Supports multi-channel video analytics
Supported Analytics	Trip-wire Detection, Region Intrusion Detection, Perimeter Protection, Abandoned Object Detection, Missing Object Detection, Illegal Parking, Fast moving Vehicles
Alarm Signal Output	Camera Alert to Videowall Monitor display

Video Wall Software Features

Videowall Decoding	Up to 4x4 1080p Resolution LCD Panels with splicing
Featured	Supports Digital Zoom in/out
Input Source	HD/SD, Digital/Analog - Supports Hybrid input
Output Port	HDMI/DVI/VGA/BNC
Control Mode	PC client-end / Network Keyboard

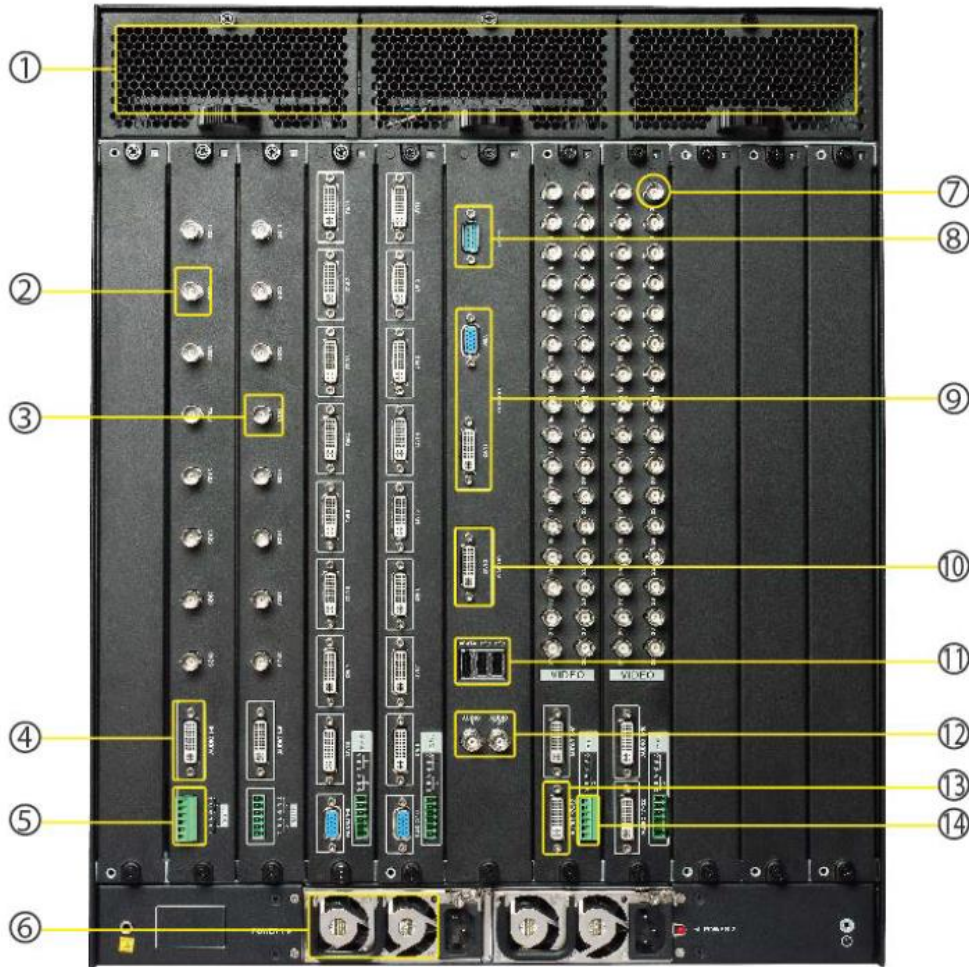
Optional Accessories

DNA6336-1 Keyboard/Controller, 3D Joystick, RS-232, RS-485, TCP-IP Network Interface RJ-45 Ports, 12VDC

DNA6340-1 Keyboard/Controller, embedded Microprocessor, LINUX OS; 4D Joystick control, supports Videowall Display, HD 1080p live view, touch screen LCD (10.3"), HDMI, VGA ports, RS-232, RS-485, 10/100/1000Mbps Network Interface RJ-45 Ports, 12VDC



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1. Fan	2. Video Input(HD-SDI)	3. Video Output(DVI)
4. Audio Input	5. RS485	6. Power Supply
7. Video Input(BNC)	8. RS232	9. Interface (Control info display)
10. Interface (Status Info Display)	11. USB	12. Bidirectional Talk
13. Audio Input	14. RS485	



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DNA8000	Matrix Switcher Parameters
Mainframe	11 Slots 2 PSU, control board, PCI-E bus rear panel, fan
Main Processor /Operating System	Quad-core embedded microprocessor / LINUX OS
Video Input / Output Cards	Max. 10 / Max. 10
Alarm Card	1, Optional
Analog Video Interface	PAL/NTSC self-adaptive, BNC (1.0VP-P, 75Ω)
Compression	H.264
Encoding	Single Function Card: 32ch@D1
Audio	Single Function Card: 32ch, DB26(2.0Vp-p,1KΩ), G.711a
HD-SDI Video Interface	BNC (1.0VP-P, 75Ω)
Compression	H.264
Encoding	Single Function Card: 16ch@1080p
Network Protocol	TCP/UDP/RTP/RTSP/RTCP
Input Devices	IP Cameras, Digital Video Recorder, Network Video Encoder/Server, Network Video Recorder
Resolution	1080p/720p/D1/HD1/2CIF/CIF/QCIF
Video Decoding	Single Function Card: 48ch@D1
BNC Output	12 BNC
Audio	12ch, DB15 Line out
Video Decoding	Single Function Card:32ch@1080p/64ch@720p/128ch@D1
DVI Output	8ch DVI
Audio	8ch, DB15 Line out
Video Decoding	Single Function Card:32ch@1080p/64ch@720p/128ch@D1
HDMI Output	8ch HDMI
Audio	8ch, DB15 Line out
IP HD Matrix Switch	320ch @1080p, 640ch @720p, 1280 @D1
Non-compressed HD Video Switch	Max 96ch in / 32ch out
Non-compressed SD Video Switch	Max 256ch in / 24ch ch out
Splicing	Support Videowall - up to 4×4
Videowall	Support Splicing Zoom in/out
Input Source	HD/SD, Digital/Analog (support mix input)
Output Port	HDMI/DVI/VGA/BNC
Control Mode	PC client-end / Network Keyboard
Interface	8 RJ-45 ports (10/100/1000M) 1 for management, 2 for access, 1 for storage
Network Functions	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server
USB Interface	4 ports
RS232, RS485	DNA6336, DNA6340, TCP/IP Keyboard, PC communication, PTZ control
Power Supply, Consumption	DC48V, 47-63Hz AC 100~120V / 200~240V / 800W
Operating Environment	0°C ~+50°C / 10~90%RH
Dimensions (W×D×H)	19" x 19.6 x 21" / 482.6mm x 496mm x533mm
Weight	≤90 lbs. / 40Kg

