Display and Control Solutions
Perfect Vision

CONTENTS
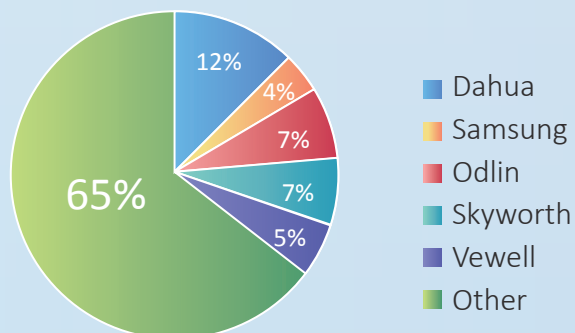
OUR DEVELOPMENT

Division
Projection;
Integration

Controller
Embedded controller;
LED.

LCD Monitor
Various LCD monitors
26"/32"/40"/46"/55"

Multi-Products
Ultra-thin monitor;
3U controller;
HD decoding card;
Interactive all-in-one

2007　　　2009　　　2011　　　2013

2008　　　2010　　　2012　　　2014

DLP
DLP released;

LCD Splicing
LCD splicing screen;
LCD controller

Multi-Products
PDP splicing;
Large screen controller;
FOT;
22" monitor

Multi-Products
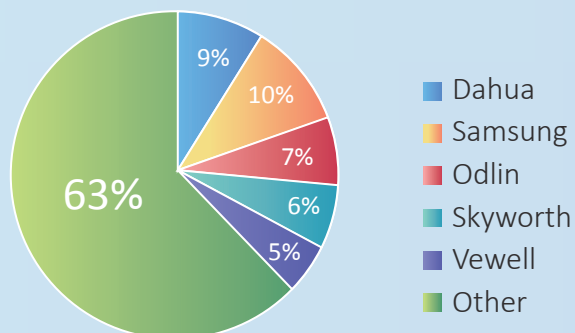Small pixel LED;
4K decoder

MARKET

In 2014 LCD splicing market, Samsung ranked the 1st place with 10.4% followed by Dahua with 9.1% according to sales revenue. However, Dahua, with great price advantage, ranked the top with the highest sales amount of 12.5% while Samsung only covered 4% and the share of other brands is all below 10%.

* The data is based on the domestic market

Sales Amount

- 12%
- 4%
- 7%
- 7%
- 5%
- 65%

Legend:
- Dahua
- Samsung
- Odlin
- Skyworth
- Vewell
- Other

Sales Revenue

- 9%
- 10%
- 7%
- 6%
- 5%
- 63%

Legend:
- Dahua
- Samsung
- Odlin
- Skyworth
- Vewell
- Other

Industrial Application: Bank

The surveillance center consists of 46" or 55" LCD splicing screens, monitors and NKB3000.

M70

DHL550UT-E

NKB3000

DHL22-F600

self-service

ATM

Treasury

Lobby

Administration Building

Industrial Application: Casino

Proper brightness control adapts to various environment
Real-time update of information release and etc.

LCD video wall and indoor LED video wall provide vivid color and image.

Multiple video signals: News, Sports, Weather, Report table, etc.

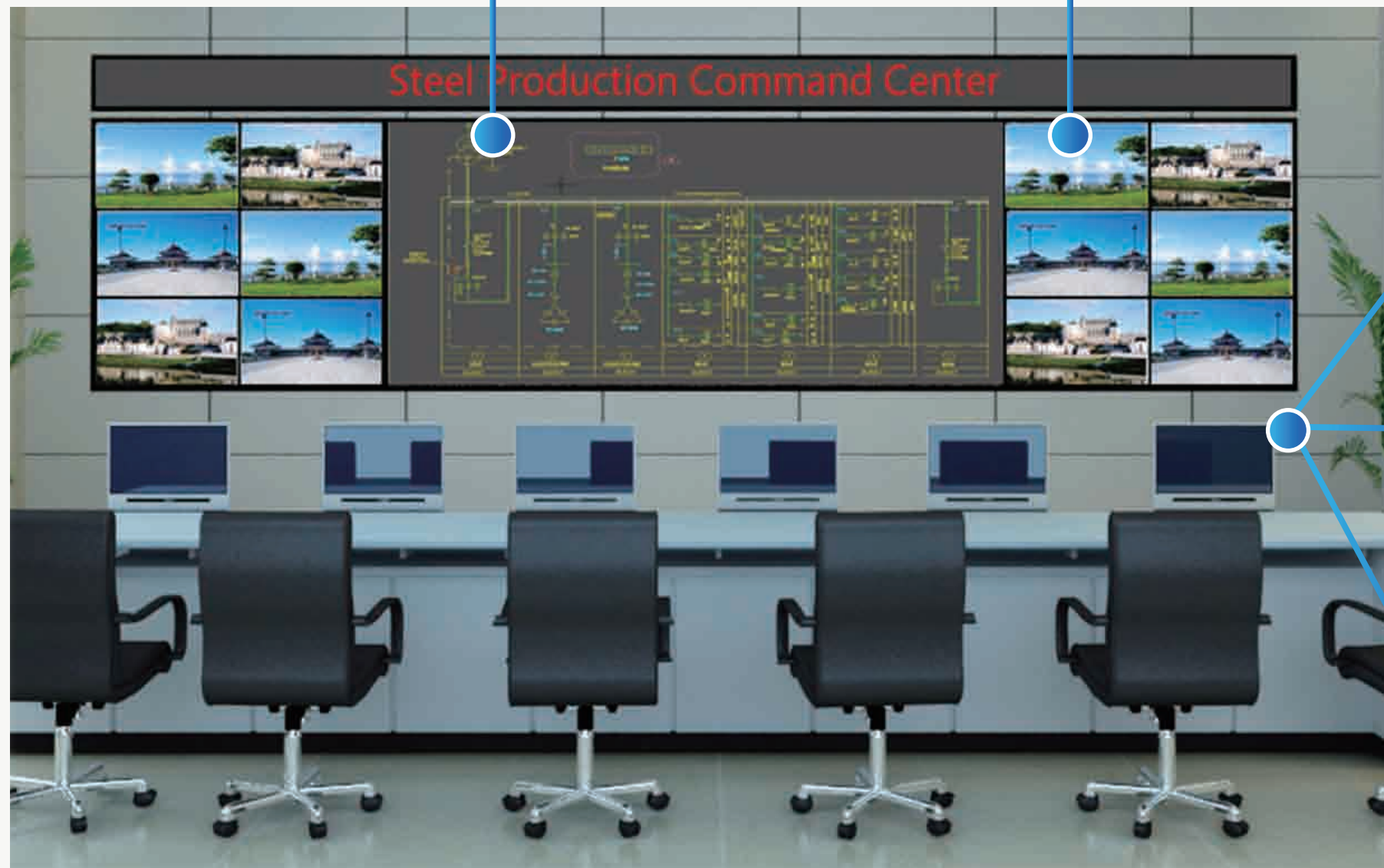# Industrial Application: Energy

LED Splicing Screens

LCD Splicing Screens

Steel Production Command Center

Power Grid

Coal Mine

Smelt

LED splicing screens are especially suitable for the energy industry because of their seamless image, and the LCD can offer perfect display for common surveillance.

LCD splicing screens are suitable for common surveillance in energy scene.

Industrial Application: Network Media Release

B/S structure Programming, release, approval, terminal management and setting, remote surveillance.

Leisure, information guidance, office zone, interactive query.

Outdoor Advertising Board

Digital Signage
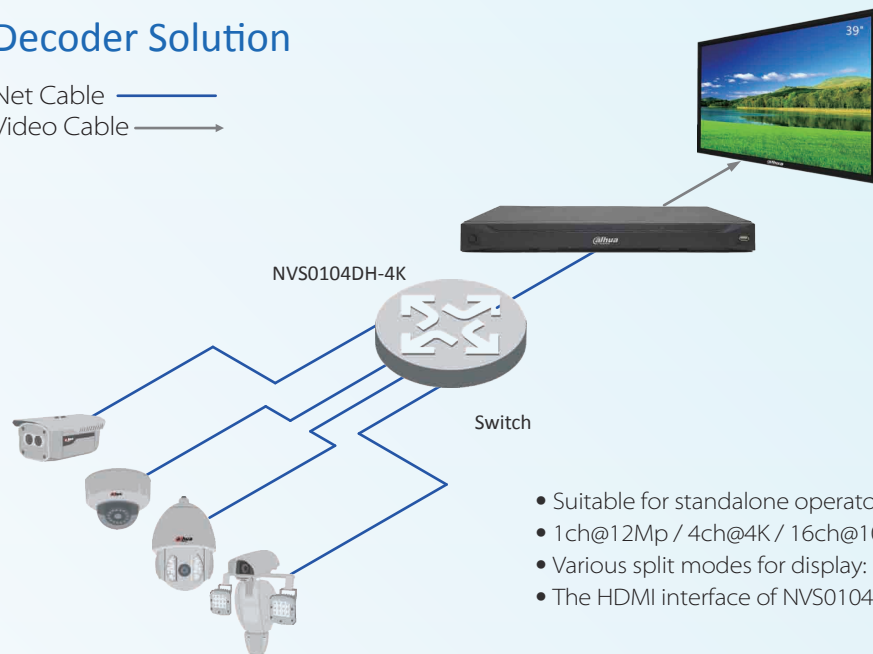

Store Advertising

Guidance

Basic Solution

Decoder Solution

Net Cable
Video Cable

NVS0104DH-4K

Switch

- Suitable for standalone operator viewers.
- 1ch@12Mp / 4ch@4K / 16ch@1080P / 64ch@D1 decoding ability.
- Various split modes for display: 1 / 4 / 9 / 16 / 25 / 36 / 64.
- The HDMI interface of NVS0104DH-4K supports Ultra HD 4K output.

Huge Video Integrated Solution

SAS Cable :
Net Cable :
Video Cable :

Extension Storage

M70

Switch

NKB3000

Client

HDCVI

HDCVI
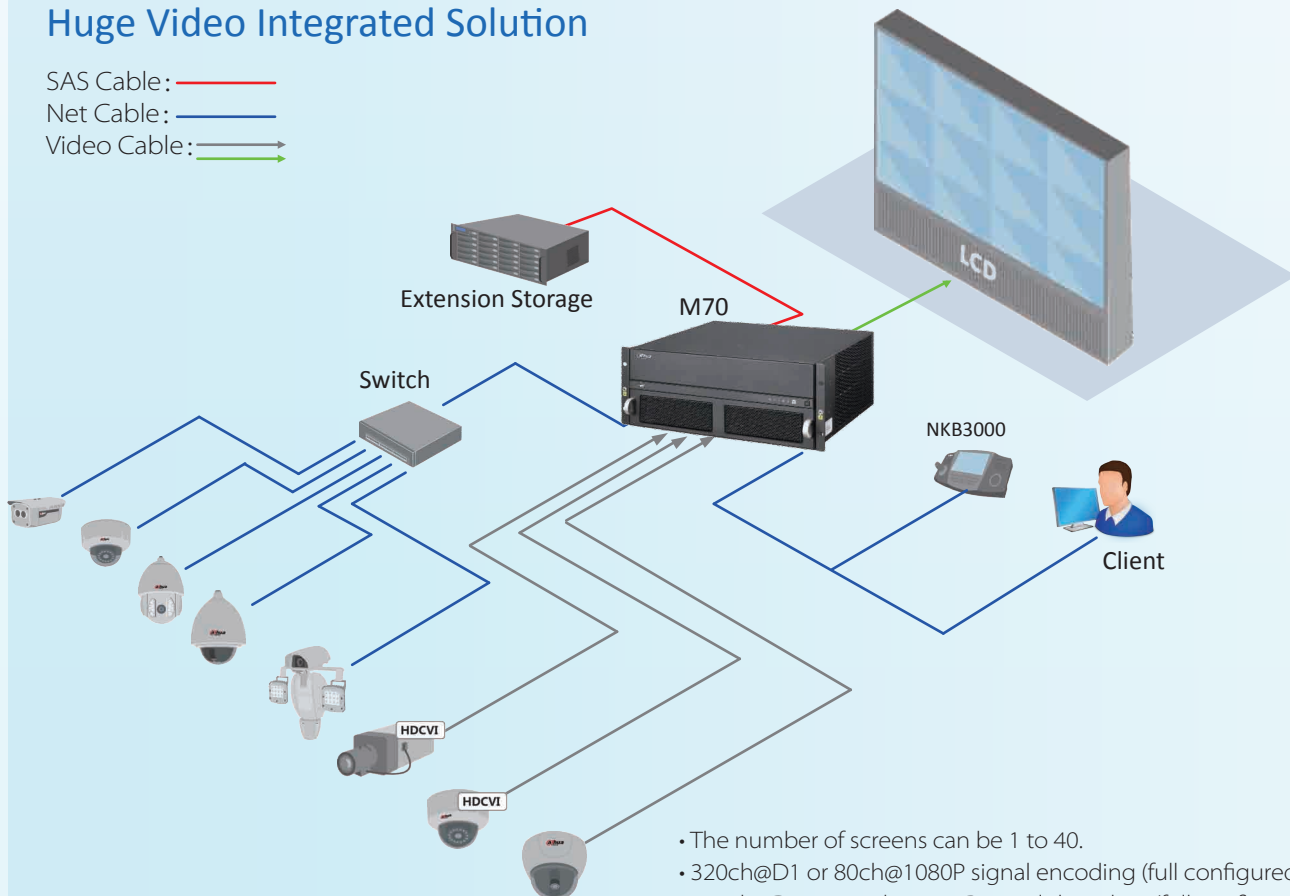
- The number of screens can be 1 to 40.
- 320ch@D1 or 80ch@1080P signal encoding (full configured).
- 640ch@D1 or 160ch@1080P signal decoding (full configured).
- NKB3000 for Speed Dome and M70 control.
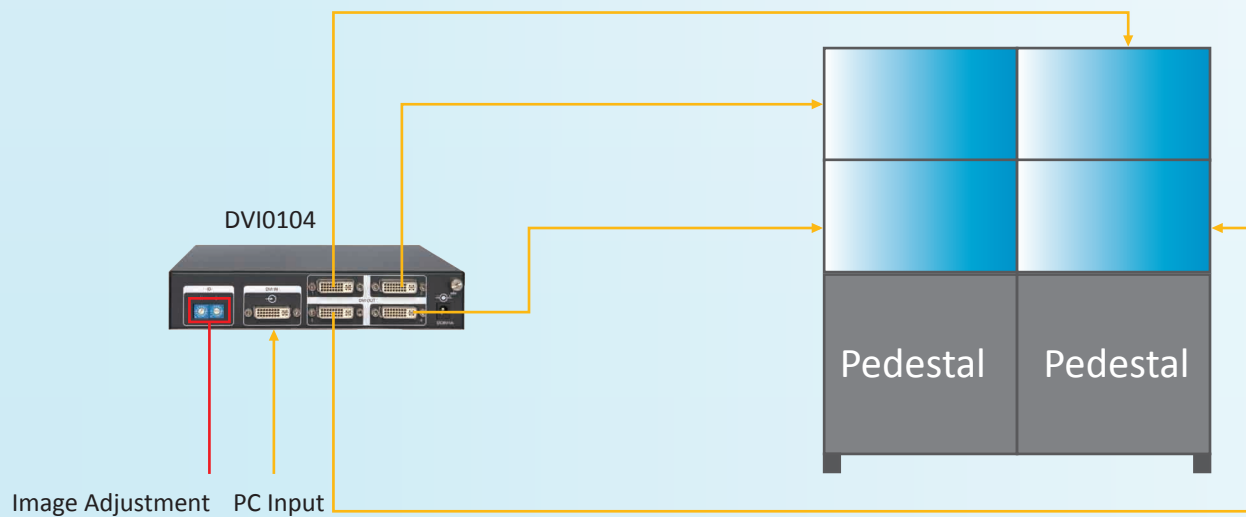- Use ESS extension cabinet for storage.

Indoor LED Splicing Solution

Net Cable: ————
Video Cable: ⇒

DSCON3000

Switch

NKB3000

Client

LCD

• Seamless image and high brightness.
• Military and energy industry.
• Long lifespan and wide viewing angle.
• Cabinet design, the screen area can be adjusted flexibly.

Video Distributor Solution

Video Signal: ⟶

DVI0104

Pedestal   Pedestal

Image Adjustment   PC Input

• Input 1 signal to Video Distributor (DVI0104), and output 4 same signals to each LCD screen.
• Get a complete image on each LCD screen or you can use remote control to get a complete image consists of 4 screens.
• High cost performance solution for splicing display.
• The image quality can be adjusted for perfect display.
• We also have DVI0109 and DVI0116 for 9 screens and 16 screens.

Display Product

LCD Splicing

- 5.3mm delicate splicing
- Infrared, RS232 double mode, supporting remote PC control
- 1920×1080 resolution
- Built-in 3D COMB filter and 3D noise reduction
- Intelligent light & temperature controlling

Model List

Model	DHL460UTS-E	DHL460UT-E	DHL550UTS-E	DHL550UT-E
Appearance	46"	46"	55"	55"
Physical seam	5.3mm	5.3mm	5.3mm	5.3mm
Backlight	LED	LED	LED	LED
Luminance(Standard)	500 cd/m²	700 cd/m²	500 cd/m²	700 cd/m²
Resolution	1920X1080	1920X1080	1920X1080	1920X1080
Power Consumption(Standard)	133W	200W	130W	150W

Splicing Series

55"

46"

DHL460UTS-E/DHL460UT-E
46" Full-HD LCD Display Unit

Product Features

- 1920×1080 resolution
- 5.3mm delicate splicing
- Built-in 3D COMB filter and 3D noise reduction
- Intelligent light & temperature controlling
- Infrared, RS232 double mode, supporting remote PC control
- Fan smart detection, OSD prompt
- Interfaces: CVBS (BNC)×2, VGA (D-Sub)×1, DVI×1, HDMI×1

DHL550UTS-E/DHL550UT-E
55" Full-HD LCD Display Unit

Product Features

- 1920×1080 resolution
- 5.3mm delicate splicing
- Built-in 3D COMB filter and 3D noise reduction
- Intelligent light & temperature controlling
- Infrared, RS232 double mode, supporting remote PC control
- Fan smart detection, OSD prompt
- Interfaces: CVBS (BNC)×2, VGA (D-Sub)×1, DVI×1, HDMI×1

LED Splicing

Tiny pixel pitch, seamless for image
High-definition, arbitrary split screen,
large viewing angle cabinet design, easy
to install and maintain coating technology,
good moisture-proof effect.

Model List

Model	PHSA2.5-SH	PHSA1.9-SH	PHSA1.6-SH
Appearance			
Pixel Pitch	2.5mm	1.9mm	1.6mm
LED Type	SMD1010	SMD1010	SMD1010
Pixel density	160,000 pixels/m²	275625 pixels/m²	360000 pixels/m²
Brightness	800 cd/m²	800 cd/m²	800 cd/m²
Recommended viewing distance	≥2.5m	≥2m	≥1.7m
Power Consumption	174 W/m²	251 W/m²	250 W/m²

Splicing Series

PHSA2.5-SH/PHSA1.9-SH/PHSA1.6-SH
Small Pixel LED Display Unit

Introduction

Indoor LED splicing unit uses high-end LED light-emitting devices and the pixel pitch can reach 2.5mm or less to realize real seamless display. High brightness, strong adaptability to environment and easy to adjust. No reflect light, wide viewing angle, high-contrast, energy saving, long service life, easy to install and maintain. It can be widely used in the military industries, electric power, energy and transport industries

Product Features

High-definition, arbitrary split screen, large viewing angle
Good color expressive capacity, clear picture; high refresh rate, smooth picture
Coating technology, good moisture-proof effect
Seamless, high mechanical strength, good heat dissipation effect
Easy installation fast, concise and beautiful appearance

Indoor Die-casting Al Cabinet

Technical Specifications

Parameter	PHSA2.5-SH	PHSA1.9-SH	PHSA1.6-SH
Pixel Pitch	2.5 mm	1.904 mm	1.667 mm
Pixel configuration	1R1G1B	1R1G1B	1R1G1B
LED type	3-in-1 black SMD1010	3-in-1 black SMD1010	3-in-1 black SMD1010
Brightness	1000cd/ m²(before calibration)	800 cd/m²	800 cd/m²
Color temperature	6500K	6500K	6500K
Viewing angle	H: 160°; V:160°	H: 160°; V:160°	H: 160°; V:160°
Pixel density	160,000 pixels/m²	275625 pixels/m²	360000 pixels/m²
Recommended viewing distance	≥2.5M	≥2M	≥1.7M
Module size	240mm×240mm	240mm×240mm	240mm×240mm
Cabinet size(mm)	W480×H480×D88.24	W480×H480×D86	W480×H480×D86
Contrast ratio	4000:1	4000:1	4000:1
Video frame rate	50/60 Hz	50/60 Hz	50/60 Hz
Rate refresh	≥3200 Hz	≥3200 Hz	≥3200 Hz
Life Time	≥100,000 Hours	≥100,000 Hours	≥100,000 Hours

Monitor

- A variety of sizes optional
- Vertical and wall mounting
- High resolution, perfect display performance
- DHL22-F600 built-in speaker, high cost performance
- DHL28-4K & DHL42-4K provide super performance of 4K resolution
- Infrared point-to-point remote control

Model List

Model	DHL28-4K	DHL42-4K	DHL22-F600	DHL22-M600	DHL27	DHL32	DHL39	DHL46	DHL55
Diagonal	28"	42"	20.7"	21.5"	27"	32"	39"	46"	55"
Backlight	LED	LED	LED	LED	LED	LED	LED	LED	LED
Luminance(Standard)	350 cd/m²	450 cd/m²	200 cd/m²	200 cd/m²	450 cd/m²	450 cd/m²	450 cd/m²	450 cd/m²	450 cd/m²
Resolution	3840×2160	3840×2160	1920×1080	1920×1080	1920×1080	1366×768	1920×1080	1920×1080	1920×1080
Audio	--	--	3.5mm/HDMI	--	--	--	--	--	--
Power Consumption(Standard)	30w	160w	23w	30w	24w	50w	120w	150w	180w

4K Series

DHL28-4K/DHL42-4K

Product Features

- 4K extremely high resolution
- Professional narrow frame structure design, beautiful appearance
- Adopt imported industrial LCD screen, designed for monitoring
- High contrast and high brightness greatly enhance the video layer
- 16.7M colors, present the details of the video
- Build-in 3D COMB filter and 3D Noise Reduction
- 5ms fast response time, remove the picture ghosting and eliminate the ghosting automatically
- 178° wide view angle, ensure the image deformation, without distortion
- Long lifespan, high stability, suitable for 7×24 continuous works
- All metal design, anti-static, magnetic field, anti-interference, no radiation.
- Humanized design of menu, more convenient for controlling
- Abundant interfaces to meet various application requirements

Common Series

DHL22-F600/DHL22-M600

Product Features

- ABS material, mirage black technique
- Built-in 3D DNR
- IR remote control
- Support 1ch audio input for DHL22—F600
- 1920×1080 resolution
- Angle of view: 130°/178° for DHL22-F600; 90°/130° for DHL 22-M600
- Interfaces: VGA(D-Sub)×1, HDMI×1, DHL22-F600 built-in speaker

DHL27/DHL32

Product Features

• Metal drawing process, once shaping technique
• Build-in 3D COMB filter and 3D noise reduction
• Support point-to-point remote control
• Intelligent brightness control, energy saving
• Built-in power, low energy consumption, ultra-quiet
• 1920×1080 resolution
• Angle of view: 178°/178°
• Interfaces: VGA(D-Sub)×1, HDMI×1, CVBS(BNC)×2, DVI-D×1

DHL46/DHL55

Product Features

• Metal drawing process, once shaping technique
• Build-in 3D COMB filter and 3D noise reduction
• Support point-to-point remote control
• Intelligent brightness control, energy saving
• 1920×1080 resolution
• Angle of view: 178°/178°
• Interfaces: VGA(D-Sub)×1, HDMI×1, CVBS(BNC)×2, DVI-D×1

55"
46"
32"
27"

Other

NVP-E

NVP-E

• B/S structure, 1 RJ-45 100/1000Mbps
• Programing, release, approval, terminal management and setting, remote surveillance
• HDMI output, Android System
• Leisure, information guidance, office zone, interactive query

DVI0104

• Input 1 signal, and output 4 same signals
• Easy to adjust the image quality

DVI0104

Controller

Encoding & decoding, support audio & alarm local and network video signal input VGA/DVI/HDMI output to display WEB configuration, remote control various display split mode for video wall.
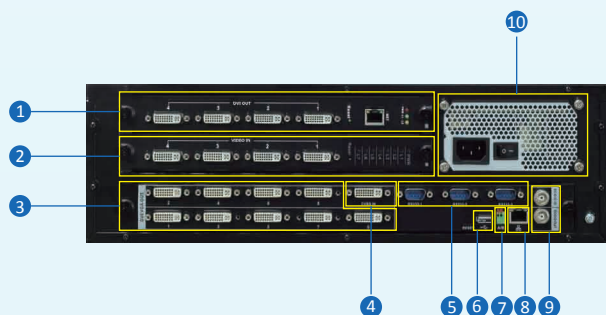
Image Controller

NVS0104DH-4K

Product Features

• H.265/H.264/MPEG-4 video decoding
• 1ch@12Mp / 4ch@4K / 16ch@1080P / 64ch@D1 decoding ability
• Support multiple resolution decoding: up to 8Mp and 12Mp network vide
• Support 1ch HDMI/VGA output, HDMI support Ultra HD 4K output
• Support 1 / 4 / 9 / 16 / 25 / 36 / 64 display split
• Support audio, alarm, bi-directional talk, RS485

M30

Product Features

Hardware Structure:
• 3U 19'' Standard industry box
• Support up to 9 video-wall display units
• Support configuration of 2×2, 2×3, 2×4, 3×3

Video Input: Local Video:
• Support CVBS/VGA/DVI/HDMI/HD-SDI

Network Video:
• IPC/DVR/NVR, etc.

Video Output:
• 9ch@DVI, support split, merge, splice, roam

Matrix Switch:
• Support control of external D1, VGA & DVI video matrix

Network & Control:
• Support 10M/100M/1000M for network video decoding & video-wall control
• Support control for matrix, video-wall, dome camera with RS485 & RS232
• Support mainstream manufacturers' protocol
• Support ONVIF/PSIA/GB28181/DB33/DB41/RTP/RTSP
• Support user authority management

| ❶ Decoding Card	❻ USB
❷ DVI Input	❼ RS-485
❸ DVI Output	❽ RJ45
❹ Analog Input	❾ Audio Interface
❺ RS-232	❿ Power

M70
Multi-Service Matrix Platform

Product Features

- 19" standard 4U ATCA industry box
- Easy and flexible configuration with pluggable card module design
- 320ch@D1 or 80ch@1080P signal encoding (full configured)
- 640ch@D1 or 160ch@1080P signal decoding (full configured)
- Support analog/digital video signals input and matrix output
- Support SD/HD video signal matrix switch and output
- Support non-compressed digital signal encoding output
- 2 RJ-45 gigabit network ports for matrix control, preview and online central storage
- Support TCP/IP/RTP/RTSP/RTCP/TCP/UDP/DHCP/PPPoE and etc. network protocols
- Remote cast analog/digital video onto the video-wall
- Remote reboot/upgrade/default setting and etc. operations
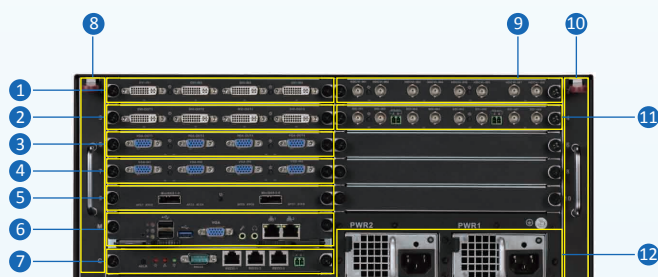
1	DVI Input	7	Control Board
2	DVI Output	8	Redundant Fan
3	VGA Input	9	HDCVI Input
4	VGA Output	10	Redundant Fan
5	Raid Board	11	SDI Input
6	Main Board	12	Power(Redundant)

Video Input

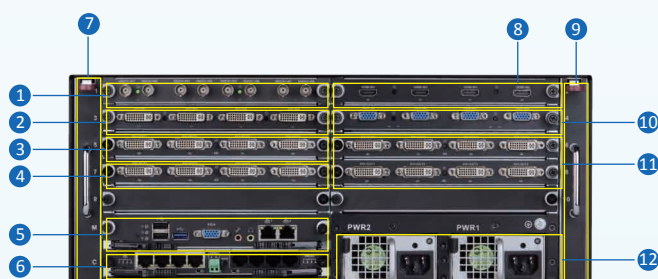| Model	VEC0404HD-M70 (4ch DVI-I)	VEC0404HH-M70 (4ch HDMI)	VEC0404HV-M70 (4ch VGA)	VEC3204FB-M70 (32ch BNC)	VEC0804HC-M70 (8ch BNC)	VEC0804HS-M70 (8ch BNC)
Encoding	H.264/MPEG4, 4ch@1080P, Support: 1080P/720P/UXGA	H.264/MPEG4, 4ch@1080P, Support: 1080P/720P/UXGA	H.264/MPEG4, 4ch@1080P, Support: 1080P/720P/UXGA	H.264/MPEG4, 32ch@D1	H.264/MPEG4, 8ch@1080P	H.264/MPEG4, 8ch@1080P

Video Output

Model	VDC0404D-M70 (4ch DVI-D)	VDC0404H-M7 (4ch HDMI)	VDC0404V-M70 (4ch VGA)
Decoding	16ch@1080P/32ch@720P/64ch@D1	16ch@1080P/32ch@720P/64ch@D1	16ch@1080P/32ch@720P/64ch@D1
Split	1/4/9/16	1/4/9/16	1/4/9/16

M70-E
Multi-service Matrix Platform

Product Features

• 19" standard 4U ATCA industry box
• Easy and flexible configuration with pluggable card module design
• 320ch@D1 or 80ch@1080P signal encoding (full configured)
• 1280ch@D1 or 320ch@1080P or 40ch@4K signal decoding (full configured)
• Support 80ch @1080P(6Mbps) SVAC real time output(full configured)
• Support analog/digital video signals input and matrix output
• Support SD/HD video signal matrix switch and output
• Support non-compressed digital signal encoding output
• 2 RJ-45 gigabit network ports for matrix control, preview and online central storage.
• Support TCP/IP/RTP/RTSP/RTCP/TCP/UDP/DHCP/PPPoE and etc. network protocols
• Remote cast analog/digital video onto the video-wall

① HDCVI Intput		⑦ Redundant Fan	
② DVI Input		⑧ HDMI Input	
③ DVI Input		⑨ Redundant Fan	
④ DVI Output		⑩ VGA Input	
⑤ Main Board		⑪ DVI Output	
⑥ Control Board		⑫ Power(Redundant)	

Video Input

Model	VEC0404HD-M70 (4ch DVI-I)	VEC0404HH-M70 (4ch HDMI)	VEC0404HV-M70 (4ch VGA)	VEC3204FB-M70 (32ch BNC)	VEC0804HC-M70 (8ch BNC)	VEC0804HS-M70 (8ch BNC)
Encoding	H.264/MPEG4, 4ch@1080P, Support: 1080P/720P/UXGA	H.264/MPEG4, 4ch@1080P, Support: 1080P/720P/UXGA	H.264/MPEG4, 4ch@1080P, Support: 1080P/720P/UXGA	H.264/MPEG4, 32ch@D1	H.264/MPEG4, 8ch@1080P	H.264/MPEG4, 8ch@1080P

Video Output

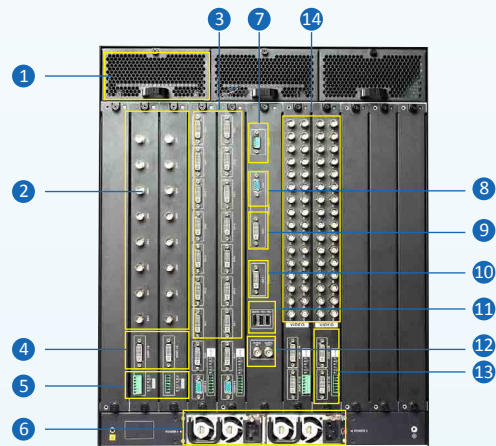| Model	VDC0404UD-M70 (4ch DVI-D)
Decoding Capability	4ch@4K/32ch@1080P/64ch@720P/128ch@D1
Split Capability	1/4/6/8/9/16
SVAC	8ch@1080P SVAC decoding
Resolution	4096×2160@20fps,3840×2160@30fps,1920×1080P@30fps, 1280×1024P@30fps,1280×720P@30fps, 1024×768P@30fps

M60
Video Platform

Product Features

- 19" standard 12U
- Easy and flexible configuration with pluggable card module design
- 320ch@D1 or 160ch@1080P signal encoding (full configured)
- 1280ch@D1 or 320ch@1080P signal decoding (full configured)
- Support analog/digital video signals input and matrix output
- Support SD/HD video signal matrix switch and output
- Support non-compressed digital signal encoding output
- 8 RJ-45 ports and 8 optical ports
- Support TCP/IP/RTP/RTSP/RTCP/TCP/UDP/DHCP/PPPoE and etc. network protocols
- Support network extended alarm signal input and output
- Remote cast analog/digital video onto the video-wall
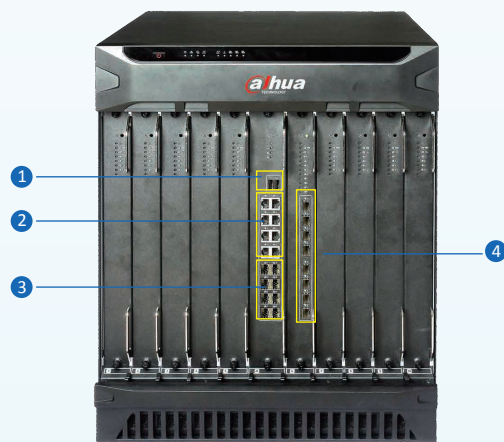
1 USB
2 Gigabit Ethernet Port
3 Fiber Interface
4 Cascade Fiber Interface

1 Fan	6 Power	11 USB&ESATA
2 HD-SDI Output	7 RS-232	12 Voice Intercom
3 DVI Output	8 VGA Display	13 Audio Input&RS-485
4 Audio Input	9 Main Board Control Information	14 BNC Input
5 RS-485	10 Main Board Status Information	

Video Input

Model	VEC3204FB-M60 (Analog)	VEC0804HS-M60 (HD-SDI)	VEC1604HS-M60 (HD-SDI)	VEC0804HD-M60 (DVI-I)	VEC1604HC-M60 (HDCVI)
Encoding	32ch@D1,BNC	8ch@1080P	16ch@1080P	8ch@1080P	16ch@1080P
Audio	32ch, DB26(2.0Vp-p,1KΩ), G.711a	82ch, DB26(2.0Vp-p,1KΩ), G.711a	16ch, DB26(2.0Vp-p,1KΩ), G.711a	8ch, DB26(2.0Vp-p,1KΩ), G.711a	16ch, DB26(2.0Vp-p,1KΩ), G.711a

Video Output

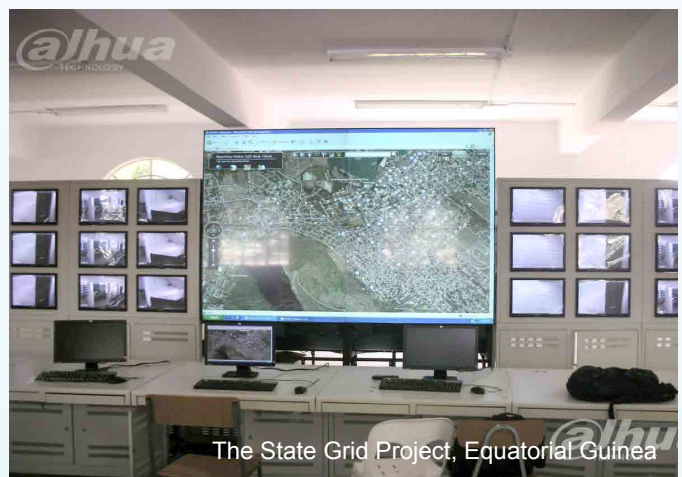| Model	VDC1204B-M60 (12ch BNC)	VDC0804V-M60 (8ch VGA)	VDC0804D-M60 (8ch DVI)
Decoding	48ch@D1	32ch@1080p/64ch@720p/128ch@D1	32ch@1080p/64ch@720p/128ch@D1
Split Capability	1/4	1/4/9/16	1/4/9/16
Audio	12ch, DB15 Line Out	8ch, DB15 Line out	8ch, DB15 Line out
RS485	2 Ports	2 Ports	2 Ports

Typical Cases

More Projects in

The State Grid Project, Equatorial Guinea

Hebei ICBC Project

The State Grid Project, Equatorial Guinea

Zhuji PBOC Project

Tianjin BOC Project

Mexico TVC

Pakistan Urban Unit

Operating Center Project

Binjiang Police Bureau Command Center
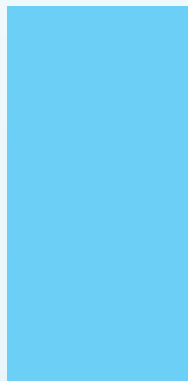

Traffic Command Center Project

The State Grid Project,
East Timor Grid
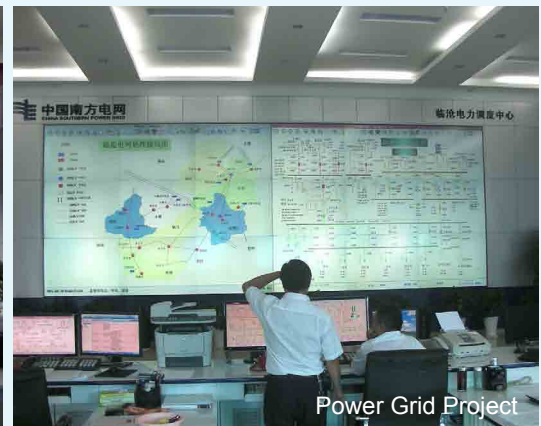

The Energy Power Station Project

Hebei ICBC Project

Petroleum Project

Changxing Police Bureau Command Center

Power Grid Project

DAHUA TECHNOLOGY...
...MAKE YOUR LIFE SAFER

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