Hikvision Transmission and Display
Product Introduction

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Product Line

Display
- Large Screen
- Monitor
- Decoder
- Controller

Control
- MVC
- Keyboard
- Fiber Transceiver
- PoE Network Switch

Transmission
- Accessory
- 1F02
- 68NTH-F
- Next...

X86
Content

1. **LCD Monitor**
   - Professional Surveillance Performance

2. **Video Wall Display System**
   - Security and Surveillance
   - Commercial

3. **Transmission Solution**
   - Network Switch, Fiber Transceiver, Wireless

4. **X86 Basic Platform**
   - An Open Platform for Software Partners
1. LCD Monitor
<table>
<thead>
<tr>
<th></th>
<th>DS-D5019FC</th>
<th>DS-D5021FC</th>
<th>DS-D5032SC</th>
<th>DS-D5042FC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>DS-D5019FC</td>
<td>DS-D5021FC</td>
<td>DS-D5032SC</td>
<td>DS-D5042FC</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>18.5”</td>
<td>20.7”</td>
<td>31.5”</td>
<td>42”</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1366×768</td>
<td>1920×1080</td>
<td>1366×768</td>
<td>1920×1080</td>
</tr>
<tr>
<td><strong>Contrast</strong></td>
<td>1000:1</td>
<td>600:1</td>
<td>1200:1</td>
<td>1400:1</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>250cd/㎡</td>
<td>200cd/㎡</td>
<td>500cd/㎡</td>
<td>500cd/㎡</td>
</tr>
<tr>
<td><strong>View angle</strong></td>
<td>170°/160°</td>
<td>170°/160°</td>
<td>178°/178°</td>
<td>178°/178°</td>
</tr>
<tr>
<td><strong>Signal Input</strong></td>
<td>HDMI, VGA</td>
<td>HDMI, VGA, BNC</td>
<td>HDMI, VGA, DVI, BNC</td>
<td>HDMI, VGA, DVI, BNC</td>
</tr>
<tr>
<td><strong>Signal Output</strong></td>
<td>--</td>
<td>--</td>
<td>BNC</td>
<td>BNC</td>
</tr>
<tr>
<td><strong>Audio in</strong></td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Audio Output</strong></td>
<td>Built-in Speaker</td>
<td>Built-in Speaker</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Casing</strong></td>
<td>Plastic</td>
<td>Plastic</td>
<td>Metal</td>
<td>Metal</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>100~240V AC</td>
<td>100~240V AC</td>
<td>100~240V AC</td>
<td>100~240V AC</td>
</tr>
</tbody>
</table>
Professional Surveillance Performance

Original Module Panel

- Lower power consumption, better stability
- Higher brightness, higher contrast
- Prominent layering, better colour rendition
Professional Surveillance Performance

Professional Display Board

- Gamma fine adjustment, enhanced definition
- Higher contrast, reduce the screen loss
- High temperature resistance,
- Protective circuits and high reliable component
Professional Surveillance Performance

- Normal PC Monitor: only DVI or VGA/DVI

- Professional Monitor: HDMI, VGA, BNC, USB, Audio in and build-in speaker
Professional Surveillance Performance

Connection

1. Analog
   - CVBS

2. NVR
   - HDMI

3. DVR
   - VGA
   - Audio

4. DVR
   - BNC Loop output
   - Build-in Speaker

HIK Monitor
Professional Surveillance Performance

View angle

- Horizontal 170~178°, vertical 160~178°
- Different monitoring angle
Freeze Image

Remote Control

Professional Surveillance Performance

Freeze image and identify target features
External Video and Picture Play via USB Interface

- Build-in DMP multimedia playing, play external video, audio, picture and text in U disk or USB hard disk.
Professional Surveillance Performance

Starting up

- ‘HIKVISION’ LOGO display
High Reliability

Original Module Panel

Professional Display Board

7×24h Working

Hikvision Professional LCD Monitor

Professional Power Board
High Reliability Testing

1. Radiation Disturbance and Anti-interference Testing
2. Working Temperature and Humidity Testing
3. Power and Signal Cable Conducted Emission Testing
4. Package Dropping Testing
5. Package Vibrating Testing
6. CVBS and Audio Signal Integral Testing
Excellent Image Processing Technology

Color Rendition 1:1

- True professional and perfect image quality

Image Display (Night with Light)

Image Display (Night without Light)
Excellent Image Processing Technology

3D High-quality Digital Processing Technology

- The combination of 3D noise reduction and spatial noise reduction, adaptive noise ratio, reduce noise and make image much clearer.

![Normal](image1)

![3D High-quality digital processing](image2)
Excellent Image Processing Technology

3D De-interlacing and Frame Rate Conversion Technology

- Eliminate image jaggies and mosaics, make it more clear and smooth.
Skin Color Correction

- Improve the display effect of skin colour, and make it more natural, realistic.
2. Video Wall Display System
Video Wall Display System

- Display: LCD/DLP/LED
- Control: Controller
  - Encoding/Decoding
- Management: Software
Content

1. Display Device

2. Control Device

3. Management Software

4. Case Study
Large Screen Category

- **Ultra Slim Bezel LCD**
  - Physical Seam: 3.5mm, 5.3mm

- **DLP**
  - Physical Seam: ≤0.5mm

- **LED**
  - Physical Seam: Seamless
Why choose ultra slim bezel screen?
Why choose ultra slim bezel screen?

Excellent performance for GIS map, E-map, PC Software UI display
Application

Security and Surveillance

1. Safe City

2. Traffic & Transport

3. Energy & Mine

4. Bank

5. Education

6. Building
Application

Commercial Display

1. Information Publish
2. Enterprise
3. Exhibition
4. Show
5. Advertisement
5. Video Session
LCD (Liquid Crystal Display)
## Ultra Slim Bezel LCD

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Backlight</th>
<th>Physical Seam</th>
<th>Brightness</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-D2046NL-C</td>
<td>46”</td>
<td>LED</td>
<td>3.5mm</td>
<td>500cd/m²</td>
</tr>
<tr>
<td>DS-D2046NH-C</td>
<td>46”</td>
<td>LED</td>
<td>3.5mm</td>
<td>800cd/m²</td>
</tr>
<tr>
<td>DS-D2046NL-B</td>
<td>46”</td>
<td>LED</td>
<td>5.3mm</td>
<td>500cd/m²</td>
</tr>
<tr>
<td>DS-D2046NH-B</td>
<td>46”</td>
<td>LED</td>
<td>5.5mm</td>
<td>800cd/m²</td>
</tr>
<tr>
<td>DS-D2055NL-B</td>
<td>55”</td>
<td>LED</td>
<td>3.5mm</td>
<td>500cd/m²</td>
</tr>
<tr>
<td>DS-D2055NH-B</td>
<td>55”</td>
<td>LED</td>
<td>3.5mm</td>
<td>800cd/m²</td>
</tr>
</tbody>
</table>
Ultra Slim Bezel LCD Advantages

- Adopt Samsung DID industrial board, direct LED backlight, working time more than 60000 hours, eliminate ”Solar effect”.

- The earliest to generalize ultra slim bezel LCD with 3.5mm physical seam.
Ultra Slim Bezel LCD Advantages

Defog and Low-light Compensation

Defog

Normal

Low-light Compensation

Normal
Ultra Slim Bezel LCD Advantages

HDMI/DVI/VGA/BNC loop output and splicing display
Ultra Slim Bezel LCD Advantages

Automatic adjusting color via software
Ultra Slim Bezel LCD Advantages

Interface

- Signal Input: HDMI, DVI, VGA, BNC, YPbPr
- Signal Output: DVI, VGA, BNC
- Remote Control: IR in, Address ID
- Control: RS232
Ultra Slim Bezel LCD Advantages

- Take 2(Row) * 3(Column) for example, the modular bracket quantity as below:

<table>
<thead>
<tr>
<th>Modular Bracket</th>
<th>Quantity</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Frame</td>
<td>6</td>
<td>Equal to large screen quantity</td>
</tr>
<tr>
<td>Pedestal</td>
<td>3</td>
<td>Equal to the column number</td>
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</table>
DLP (Digital Light Process)
## DLP (LED Light Source)

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Light Source</th>
<th>Resolution</th>
<th>Physical Seam</th>
<th>Output Brightness</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-D1050EL</td>
<td>50”</td>
<td>3*6LED</td>
<td>XGA</td>
<td>≤0.5mm</td>
<td>1100 ANSI</td>
</tr>
<tr>
<td>DS-D1060EL</td>
<td>60”</td>
<td>3*6LED</td>
<td>XGA</td>
<td>≤0.5mm</td>
<td>1100 ANSI</td>
</tr>
<tr>
<td>DS-D1067EL</td>
<td>67”</td>
<td>3*6LED</td>
<td>XGA</td>
<td>≤0.5mm</td>
<td>1100 ANSI</td>
</tr>
<tr>
<td>DS-D1050EH</td>
<td>50”</td>
<td>3*6LED</td>
<td>SXGA</td>
<td>≤0.5mm</td>
<td>1100 ANSI</td>
</tr>
<tr>
<td>DS-D1060EH</td>
<td>60”</td>
<td>3*6LED</td>
<td>SXGA</td>
<td>≤0.5mm</td>
<td>1100 ANSI</td>
</tr>
<tr>
<td>DS-D1067EH</td>
<td>67”</td>
<td>3*6LED</td>
<td>SXGA</td>
<td>≤0.5mm</td>
<td>1100 ANSI</td>
</tr>
<tr>
<td>DS-D1080EH</td>
<td>80”</td>
<td>3*6LED</td>
<td>SXGA</td>
<td>≤0.5mm</td>
<td>1100 ANSI</td>
</tr>
</tbody>
</table>
DLP Advantages

LED Light Source

- Long service time, without motorized color wheel
- Wider color gamut, more vivid color, super wide color temperature range, 2800-10000K, better color uniformity.
DLP Advantages

Dual CPU Processing

- Light engine adapts two CPU chipsets design
- Main CPU for image processing
- Added CPU for control functions, such as communication, color adjustment, light engine detection

Light engine running more stable, and have better image processing.
DLP Advantages

One-key to adjust screens color brightness
DLP Advantages

Independent six-axis adjustment structure

- Adjust horizontal and rotate of X, Y, Z axis as up, down, left, right, incline, deflection, rotate, insure image accurate adjustment and geometry orientation
- Independently control the projection module movement as need
- Independently control the projection module rotation in as need
LED (Light Emitting Diode)
Small Pixel Pitch LED Screen

- Full Color

Front View

- DS-D4012FI
- DS-D4014FI
- DS-D4015FI

Rear View

- DS-D4016FI
- DS-D4019FI
- DS-D4025FI

- DS-D4030FI
- DS-D4040FI
- DS-D4050FI
Small Pixel Pitch LED Screen

P2.1

P4.8

P10
Small Pixel Pitch LED Screen
Perfect Seamless Splicing

- True seamless splicing, perfect image uniformity, no cut-off line.
Small Pixel Pitch LED Advantages

Super Contrast: up to 4000:1
Small Pixel Pitch LED Advantages

Low Brightness and High Gray Level
Small Pixel Pitch LED Advantages

Ponit-by-ponit Correction
Content

1. Display Device
2. Control Device
3. Management Software
4. Case Study
Control Device

Decoder
- DS-6400/6500

Video Wall Controller
- DS-C10S

Multi-function Video Center
- DS-B20
Decoder
<table>
<thead>
<tr>
<th>Model</th>
<th>DS-6401HDI-T</th>
<th>DS-6404HDI-T</th>
<th>DS-6408HDI-T</th>
<th>DS-6410HDI-T</th>
<th>DS-6412HDI-T</th>
<th>DS-6416HDI-T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decoding Capacity</td>
<td>1<em>12MP 1</em>8MP 2<em>5MP 3</em>3MP 4<em>1080P 8</em>720P 16*4CIF</td>
<td>2<em>12MP 2</em>8MP 4<em>5MP 6</em>3MP 8<em>1080P 12</em>720P 32*4CIF</td>
<td>4<em>12MP 4</em>8MP 8<em>5MP 12</em>3MP 16<em>1080P 32</em>720P 64*4CIF</td>
<td>5<em>12MP 5</em>8MP 10<em>5MP 15</em>3MP 20<em>1080P 40</em>720P 80*4CIF</td>
<td>6<em>12MP 6</em>8MP 12<em>5MP 18</em>3MP 24<em>1080P 48</em>720P 90*4CIF</td>
<td>8<em>12MP 8</em>8MP 16<em>5MP 24</em>3MP 32<em>1080P 64</em>720P 100*4CIF</td>
</tr>
<tr>
<td>Decoding Resolution</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12MP@14fps, 8MP@22fps, 5MP@25fps</td>
</tr>
<tr>
<td>Input</td>
<td>None</td>
<td>1-ch DVI-I, 1-ch VGA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVI output</td>
<td>None, 1 HDMI and 1 VGA</td>
<td>4</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>CVBS output</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Division</td>
<td>1/4/6/8/9/12/16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controls</td>
<td>Screen living, special purpose</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DS-6400HDI-T

1. Decode
   - Max. Resolution: 12MP, 14fps
   - 1/4/6/8/9/16 division

2. Input
   - 1-ch DVI and 1-ch VGA signal input (Except DS-6401HDI-T)

3. Output
   - 6401 support HDMI/VGA/BNC
   - Other models support DVI/BNC (HDMI/VGA need convertor)

4. Control
   - PC signal to TV wall
   - Screen joint and display
   - Cross-window video roaming

5. Display Enhancement
   - Enhance video fluency, the decoding capacity is only 1/4 of original after enable this function
Add external 25 frame based on the algorithm in FPGA, improve video fluency, especially for 1080P video stream when monitoring road situation.
- PC signal input and display to TV wall
- Screen splicing, video decoding and cross-window video roaming
Video Wall Controller
Video Wall Controller

- DS-C10S-41/E
- DS-C10S-22/E
- DS-C10S-11/E

Input / Output Slot: 23/18, 12/10, 6/5 optional
Video Wall Controller

Function Boards

- **Input:**
  - BNC(8), SDI(4), YPbPr(2), HDMI(2/4),
  - DVI(2/4), VGA(2/4), TVI(4), DP(4)

- **Output:**
  - HDMI(2/4), DVI(2/4), VGA(2/4), SDI(4)
Video Wall Controller

1. Input
   - HDMI, DVI, VGA, TVI, SDI, BNC, DP, YPbPr
   - Max 184-ch analog, or 92-ch TVI/SDI or 92-ch HDMI/DVI/VGA input

2. Output
   - HDMI, DVI, VGA, SDI
   - Max 72-ch HDMI/DVI/VGA output

3. Joint
   - Max 72 pcs large screen for joint
   - Meet different joint requirement

4. Control
   - Build-in matrix
   - Joint, division and display
   - Base map
   - Cross-window video roaming

5. Maintenance
   - Hot plug
   - Redundant power supply
   - FPGA design with high reliability
- BNC, TVI, VGA, DVI, HDMI signal matrix switch
- PC signal input
- Large screen splicing and display
- Base image and cross-window video roaming
Control Function

Splicing and Display
Control Function

Base Map

Cross-window Video Roaming
Keyboard
Keyboard

Network Keyboard
- DS-1600KI

Network Keyboard
- DS-1100KI

RS-485 Keyboard
- DS-1004KI

USB Keyboard
- DS-1005KI
DS-1600KI

1. Touchscreen
   - 10.1” capacitive touchscreen for display, configuration and operation

2. Detachable
   - Touchscreen and joystick are detachable

3. Interface
   - Wifi connection
   - PoE power supply
   - HDMI, DVI output
   - Audio input and output

4. Functions
   - Live view
   - TV wall control, screen joint, cross-window roaming
   - External video play

5. UI Design
   - Friendly and convenience
DS-1600KI

- Access Hikvision’s DVR, NVR, IPC, IP PTZ dome, decoder and screen controller
- Real-time preview camera video
- PTZ control through joystick
- TV wall control: window division, screen splicing, cross-window roaming
- Emergency event recording and picture capturing, save into USB disk or FTP server
DS-1004KI

PTZ Dome Controlling
- Pan, tilt, zoom control
- Preset, patrol, pattern setting and calling
- Max. 128 PTZ dome can be connected

DVR controlling
- Completely DVR menu control
- Max. 128 DVRs can be connected
DS-1005KI

- Support USB HID protocol
- Power supply and communication by USB port directly
- PTZ dome control: pan, tilt, zoom, preset, patrol and pattern
- DVR/NVR menu control
- Compatible with client software and platform software

Mode 1

- Client
- DS-1005KI
- USB Switch
- DVR
- IP PTZ Dome
- Analog

Mode 2

- PTZ Dome
- DVR/NVR
- USB
- DS-1005KI
Content

1. Display Device
2. Control Device
3. Management Software
4. Case Study
iVMS-5200Pro

Main Interface

Video Wall Interface
iVMS-4200

Main Interface

Video Wall Interface
Ultra Slim Bezel LCD
DLP
3. Transmission Solution
Transmission Solution

PoE Network Switch

HD TVI Optical Transmitter and Receiver

Network Fiber Transceiver

PoE

HD TVI

Network
PoE Network Switch
## PoE Network Switch

### Managed Second Layer PoE Ethernet Switch

<table>
<thead>
<tr>
<th>Model</th>
<th>DS-3D2208P</th>
<th>DS-3D2216P</th>
<th>DS-3D2228P</th>
</tr>
</thead>
<tbody>
<tr>
<td>100M Ethernet Port</td>
<td>8, PoE</td>
<td>16, PoE</td>
<td>24, PoE</td>
</tr>
<tr>
<td>1000M Ethernet Port</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>1000M Optical Port</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>PoE Power Supply</td>
<td>Max. 170W</td>
<td>Max. 400W</td>
<td>Max. 400W</td>
</tr>
<tr>
<td>Protocol</td>
<td>Self-adaptive 802.3af(15.4W), 802.3at(30W)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Management Standard</td>
<td>SNMP, Telnet, RMON, CLI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Second Layer Switch, Web managed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**PoE Network Switch**

1. **Plug and Play**
   - PoE power supply
   - Automatic self-adaptive 802.3af and 802.3at

2. **Network Security**
   - IEEE 802.1x port authentication
   - IP ACL, MAC ACL and VLAN ACL
   - ARP prevention

3. **Network Management**
   - SNMP, RMON, Telnet, CLI
   - Support general SNMP network management s/w

4. **Flexible Assembly**
   - Support SFP, flexible combine with network optical transceiver
   - Suitable for different requirement

5. **Easy to Maintain**
   - Easy for user to confirm device status and maintain
- Plug and play, easy installation and maintenance
- Optical port used for long distance transmission, the transmission distance depends on the optical module.
## PoE Network Switch

### Unmanaged Second Layer PoE Ethernet Switch

<table>
<thead>
<tr>
<th>Model</th>
<th>DS-3E2105P</th>
<th>DS-3E2109P</th>
<th>DS-3E2118P</th>
<th>DS-3E2126P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>100M Ethernet Port</strong></td>
<td>5(4 PoE and 1 normal)</td>
<td>9(8 PoE and 1 normal)</td>
<td>16, PoE</td>
<td>24, PoE</td>
</tr>
<tr>
<td><strong>1000M Ethernet Port</strong></td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>1000M Combo Port</strong></td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>PoE Power Supply</strong></td>
<td>Max. 58W</td>
<td>Max. 123.2W</td>
<td>Max. 180W</td>
<td>Max. 370W</td>
</tr>
<tr>
<td><strong>Protocol</strong></td>
<td>Self-adaptive 802.3af(15.4W), 802.3at(30W)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Level</strong></td>
<td>Second Layer Switch, Unmanaged</td>
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<td></td>
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</tbody>
</table>
HD TVI Optical Transmitter and Receiver
## HD TVI Optical Transmitter and Receiver

<table>
<thead>
<tr>
<th>Resolution</th>
<th>TVI Channel</th>
<th>Transmitter</th>
<th>Stand-alone Receiver</th>
<th>Rack-mounted Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>720P</td>
<td>1</td>
<td>DS-3V01T-A/720</td>
<td>DS-3V01R-A/720</td>
<td>DS-3V01R-AU/720</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>DS-3V02T-A/720</td>
<td>DS-3V02R-A/720</td>
<td>DS-3V02R-AU/720</td>
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<tr>
<td></td>
<td>4</td>
<td>DS-3V04T-A/720</td>
<td>DS-3V04R-A/720</td>
<td>DS-3V04R-AU/720</td>
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<tr>
<td></td>
<td>8</td>
<td>DS-3V08T-A/720</td>
<td>DS-3V08R-A/720</td>
<td>DS-3V08R-AU/720</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>DS-3V16T-A/720</td>
<td>DS-3V16R-A/720</td>
<td>--</td>
</tr>
<tr>
<td>1080P</td>
<td>1</td>
<td>DS-3V01T-A/1080</td>
<td>DS-3V01R-A/1080</td>
<td>DS-3V01R-AU/1080</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>DS-3V02T-A/1080</td>
<td>DS-3V02R-A/1080</td>
<td>DS-3V02R-AU/1080</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>DS-3V04T-A/1080</td>
<td>DS-3V04R-A/1080</td>
<td>DS-3V04R-AU/1080</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>DS-3V08T-A/1080</td>
<td>DS-3V08R-A/1080</td>
<td>DS-3V08R-AU/1080</td>
</tr>
<tr>
<td>Transmission Distance</td>
<td></td>
<td></td>
<td></td>
<td>20KM</td>
</tr>
</tbody>
</table>
HD TVI Optical Transmitter and Receiver

1. Plug and Play
   - Directly connect the TVI signal and fiber without external configuration

2. Up the Coax
   - Transmitter support UTC function, transfer control command through coaxial cable

3. Flexible Assembly
   - Flexible combine, suitable for different requirement

4. Easy to Maintain
   - Easy for user to confirm device status and maintain

5. High Reliability
   - Industrial grade design
   - All metal steel structure
   - Working temperature: -30°C~75°C
HD TVI Optical Transmitter and Receiver

Mode 1

Remote Site

TVI Camera

Coaxial

Transmitter

Fiber

Center

Stand-alone Receiver

Coaxial

DVR

Network Switch

Workstation

Remote Site

TVI Camera

Coaxial

Transmitter

Fiber

Mode 2

Remote Site A

TVI Camera

Coaxial

Transmitter

Fiber

Center

Coaxial

DVR

Network Switch

Workstation

Remote Site B

TVI Camera

Coaxial

Transmitter

Fiber

Rack-mounted Receiver
Network Fiber Transceiver
## Network Fiber Transceiver

![Network Fiber Transceiver](image)

<table>
<thead>
<tr>
<th>Optical Port</th>
<th>Network Port</th>
<th>Transmitter</th>
<th>Stand-alone Receiver</th>
<th>Rack-mounted Receiver</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 100M</td>
<td>1</td>
<td>DS-3D01T-A</td>
<td>DS-3D01R-A</td>
<td>DS-3D01R-AU</td>
<td>All network ports of these models are 100M.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>DS-3D02T-A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>DS-3D04T-A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>DS-3D08T-A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 1000M</td>
<td>1</td>
<td>DS-3D201T-A</td>
<td>DS-3D201R-A</td>
<td>DS-3D201R-AU</td>
<td>Network port: 1000M</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>DS-3D204T-A</td>
<td></td>
<td></td>
<td>Network ports: 1 1000M and 3 100M</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>DS-3D208T-A</td>
<td></td>
<td></td>
<td>Network ports: 1 1000M and 7 100M</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transmission Distance</th>
<th>20KM</th>
</tr>
</thead>
</table>
## Network Fiber Transceiver

<table>
<thead>
<tr>
<th>Model</th>
<th>Cascaded</th>
<th>Looping</th>
<th>Looping</th>
<th>Looping</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DS-3D14F-A</td>
<td>DS-3D214F-A</td>
<td>DS-3D224F-A</td>
<td>DS-3D228F-A</td>
</tr>
<tr>
<td><strong>1000M Optical Port</strong></td>
<td>--</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>100M Optical Port</strong></td>
<td>2</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td><strong>1000M Network Port</strong></td>
<td>--</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>100M Network Port</strong></td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>Transmission Distance</td>
<td>20KM</td>
<td></td>
<td>20KM</td>
<td></td>
</tr>
</tbody>
</table>
Network Fiber Transceiver

1. Plug and Play
   - Directly connect the network device without external configuration

2. Network
   - Support QoS
   - Broadcasting storm protection
   - Data switch less than 5us

3. Flexible Assembly
   - Three type: normal, cascade, looped
   - Flexible combine, suitable for different requirement

4. Easy to Maintain
   - Easy for user to confirm device status and maintain

5. High Reliability
   - Industrial grade design
   - All metal steal structure
   - Working temperature: -30°C~70°C
High link reliability, when the link between two optical transceiver is broken, it will automatic detect and recover the network link.
4. X86 Basic Platform
X86 Basic Platform
Strategic Partner

HIKVISION + Intel

Grantley
Haswell
Bay Trail
Braswell
Cherry Trail

Sky Lake

Network Devices
## X86 Basic Platform

<table>
<thead>
<tr>
<th>Model</th>
<th>DS-68CU-F</th>
<th>DS-1F02-2H-4</th>
<th>DS-1F02-2H-8</th>
<th>DS-1F02-4H</th>
<th>DS-1F02-4H-8/16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>Bay Trail-D J1900 (2.0GHz)</td>
<td>Bay Trail-D J1900 (2.0GHz)</td>
<td>Bay Trail-D J1900 (2.0GHz)</td>
<td>Bay Trail-D J1900 (2.0GHz)</td>
<td>Bay Trail-D J1900 (2.0GHz)</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>4GB</td>
<td>2GB</td>
<td>4GB</td>
<td>4GB</td>
<td>4GB</td>
</tr>
<tr>
<td><strong>GPU Decoding</strong></td>
<td>12-ch 1080P</td>
<td>12-ch 1080P</td>
<td>12-ch 1080P</td>
<td>12-ch 1080P</td>
<td>12-ch 1080P</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Built-in mSATA, 32GB</td>
<td>2, 3.5” SATA HDDs</td>
<td>2, 3.5” SATA HDDs</td>
<td>4, 3.5” SATA HDDs</td>
<td>4, 3.5” SATA HDDs</td>
</tr>
<tr>
<td><strong>HDMI Output</strong></td>
<td>1, 1920×1080/60Hz</td>
<td>1, 1920×1080/60Hz</td>
<td>1, 1920×1080/60Hz</td>
<td>1, 1920×1080/60Hz</td>
<td>1, 1920×1080/60Hz</td>
</tr>
<tr>
<td><strong>VGA Output</strong></td>
<td>1, 1920×1080/60Hz</td>
<td>1, 1920×1080/60Hz</td>
<td>1, 1920×1080/60Hz</td>
<td>1, 1920×1080/60Hz</td>
<td>1, 1920×1080/60Hz</td>
</tr>
<tr>
<td><strong>Network Interface</strong></td>
<td>1, 10/100/1000Mbps self-adaptive Ethernet interface;</td>
<td>1, 10/100/1000Mbps self-adaptive Ethernet interface;</td>
<td>1, 10/100/1000Mbps self-adaptive Ethernet interface;</td>
<td>2, 10/100/1000Mbps self-adaptive Ethernet interface;</td>
<td>1, 10/100/1000Mbps self-adaptive Ethernet interface;</td>
</tr>
</tbody>
</table>
X86 Basic Platform

Center

DS-68CU-F as Workstation
(Third party software)

19" Server with multi output
(Third party software)

Network

Site A

DS-1F02
(Third party software)

IP
IP
IP

DS-1F02
(Third party software)

IP
IP
IP

DS-1F04
(Third party software)

IP
IP
IP
Accessory
Accessary

DS-1H05 (IP convert to Coaxial Transmission)
DS-1H18 (TVI convert to UTP Transmission)
DS-1H33 (TVI convert to HDMI output)
DS-1H20 (IP convert to UTP Transmission)
DS-1H14 (SDI Splitter)
DS-1H11 (HDMI Repeater)
DS-1H13 (SDI Repeater)
DS-1H15 (DVI Repeater)
Accessary

**DS-1H05 Series Coaxial Transmission**
- Analog
- IPC
- 1H05-T
- Coaxial Cable
- 1H05-R
- DVR
- Monitor
- TVI Camera
- DS-1H05
- Coaxial Cable
- NVR
- Workstation

**DS-1H18 TVI convert to UTP**
- TVI Camera
- Coaxial Cable
- DS-1H18
- UTP
- DS-1H18
- TVI DVR
- Monitor

**DS-1H33 TVI convert to HDMI**
- TVI Camera
- Coaxial Cable
- DS-1H33
- HDMI
- Monitor
THANKS!