



LED VIDEO WALL

Indoor



CONTENTS



Overview



Product Introduction



Application Solutions



Case study



OVERVIEW

Basic introduction of LED video wall



Overview

HIKVISION

You can see it everywhere



Overview

HIKVISION



Greater Color Performance
No ripple, clear edge



High Brightness
More abundant content display



Seamless Splicing Image

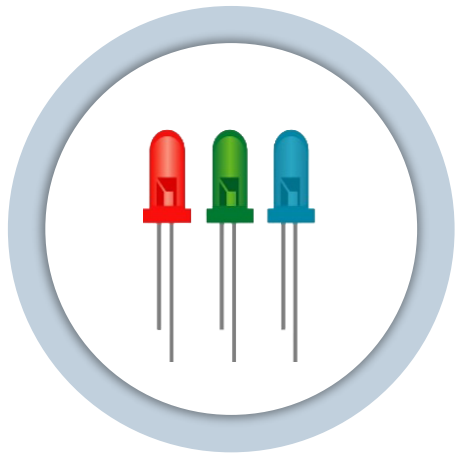


Rich application scenarios

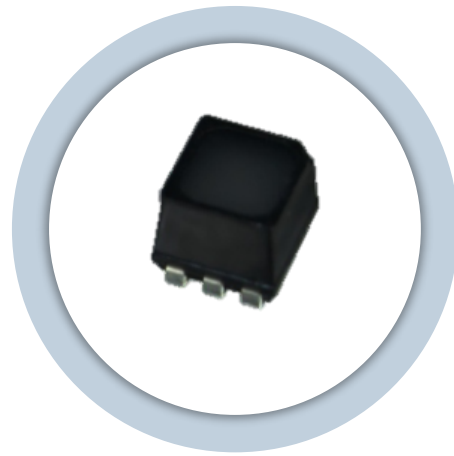
...



What is LED video wall?



Light emitting diode



LED lamp



LED unit



LED video wall

- LED lamp is commonly known as **Light Emitting Diode**, adopting the latest technology of high-density integrated circuit and surface mount.
- **LED Screen Unit** consists of multiple LEDs.
- Multiple LED screen units make it possible to realize wide-area display.

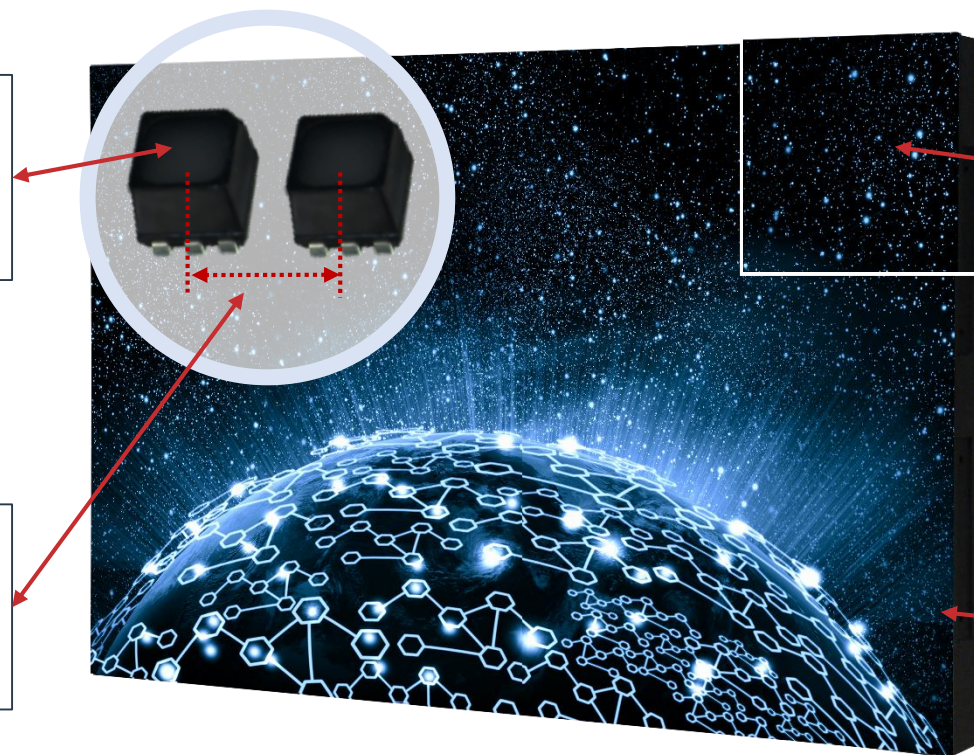
What is the component of LED?

Pixel

One LED lamp, the smallest unit of LED display

Pixel Pitch

The central distance between two pixels



LED Module

The component of LED Unit

LED Unit

The component of LED video wall

Unit resolution = Horizontal pixels × Vertical pixels



PRODUCT INTRODUCTION



Application scenarios

HIKVISION

Indoor scenarios



Command center



Exhibition

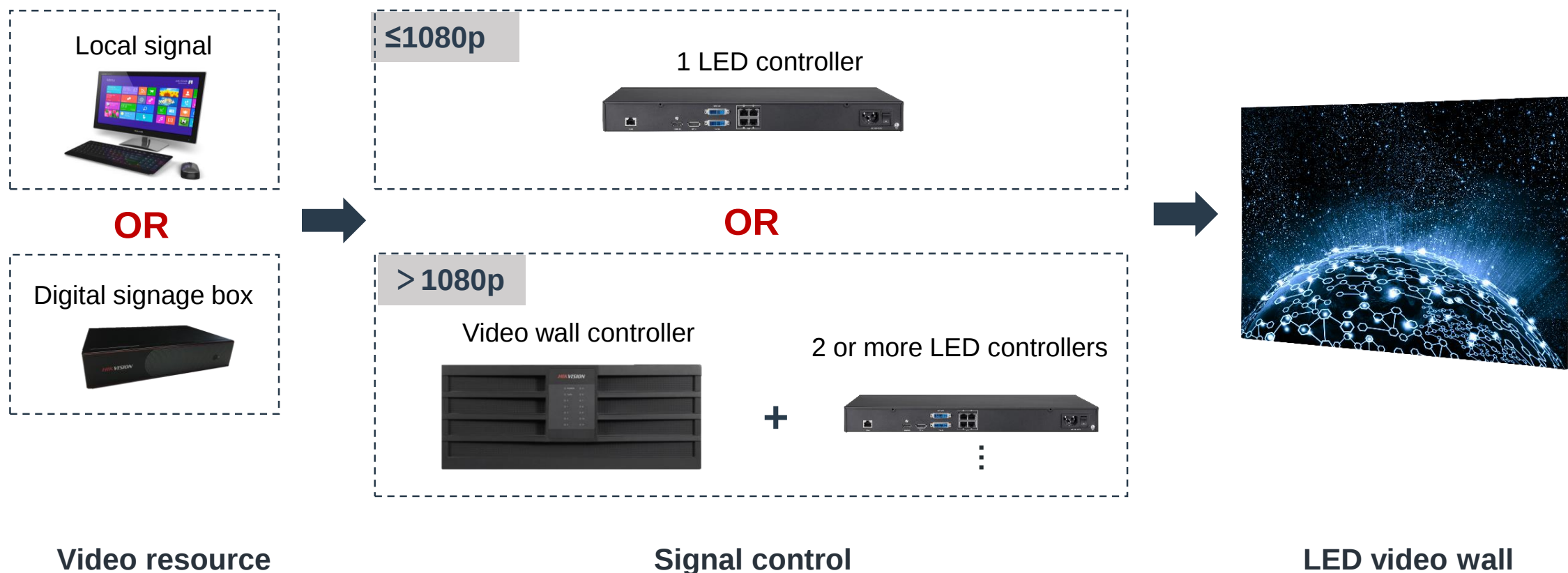


Conference room



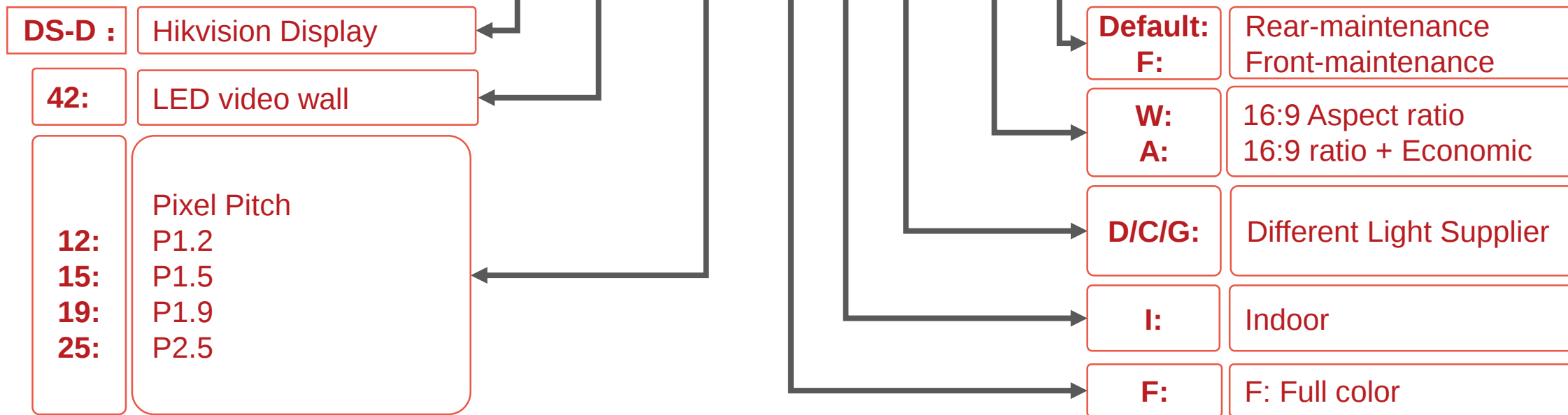
Public utility

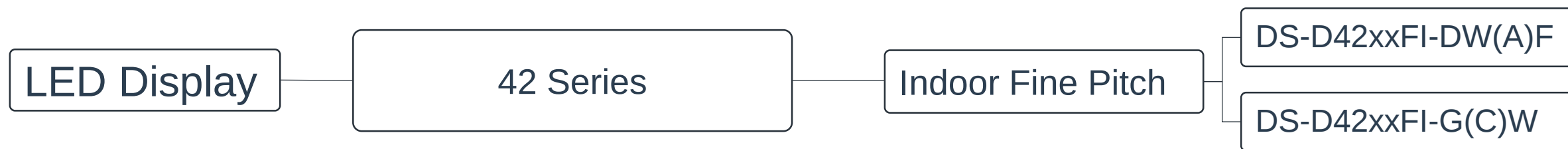
How Does LED Video Wall Work?



Naming rule

DS-D 42 12 F I-D W F





Product family

HIKVISION



Fine Pitch (Front)

DS-D4212FI-GWF
DS-D4214FI-GWF
DS-D4218FI-GWF
DS-D4212FI-DWF
DS-D4214FI-DWF

(Coming soon)



Fine Pitch LED (Rear)

DS-D4212FI-GW
DS-D4215FI-GW
DS-D4219FI-GW
DS-D4225FI-CW



LED Controller

DS-D42C04-H

Remark:

- Fine Pitch: Pixel pitch ≤ 2.5 mm.

Key features

HIKVISION

Fine Pitch



DS-D4212/14/18FI-GWF
DS-D4212/14FI-DWF

- Pixel pitch: P1.25/P1.45/P1.875 (GWF)
- Pixel pitch: P1.25/P1.499 (DWF)
- Front maintenance



DS-D4212/15/19FI-GW
DS-D4225FI-CW

- Pixel pitch: P1.27/P1.588/P1.906/P2.54
- Rear maintenance

Key Features



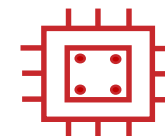
16:9 Aspect ratio
Supporting popular resolutions



Wide view angle
160°(H)/160°(V)



Compatible with 1080p,
4K LED controller



Built-in power board and
signal receiving card in unit

Key features

LED controller

— Screen Direct Connection and Display Signal Sending



DS-D42C04-H

- Input interfaces: DVI/HDMI/DP
- Output interfaces: 4/16*RJ45 interfaces, each port control up to 0.65MP
- Resolution control:

DS-D42C04-H: 2048x1152/1920x1200@60Hz



Switching LED screen signal source by IR remote controller



Adjusting the resolution of signal source to adapt to LED screen



Supporting the function of intelligent dehumidification



Adjusting LED screen brightness by manual/auto configuration



Switching the bottom picture of LED screen



Supporting the technology of image processing

Highlights

HIKVISION

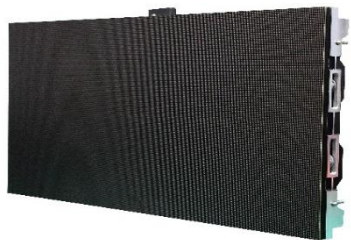


16:9 aspect ratio for popular resolutions

Benefits:

- Supporting display mainstream 1080p, 4K videos with equal proportion;
- Easy for splicing, installation and maintenance by this standard structure;
- Easy to update and replace because of reusable brackets.

—— Fine pitch series



- Die-casting aluminum box design
- Six-point magnetic suction structure

- Excellent flatness by die-casting aluminum box design and six-point magnetic suction structure;
- Unit Gap = LED pixel pitch, ensuring no bright line and dark line;
- Ensuring 100% unified brightness between LED modules;

Highlights

HIKVISION

Perfect structural design



High efficient heat dissipation
through excellent structural design



No fan
required to do additional heat dissipation



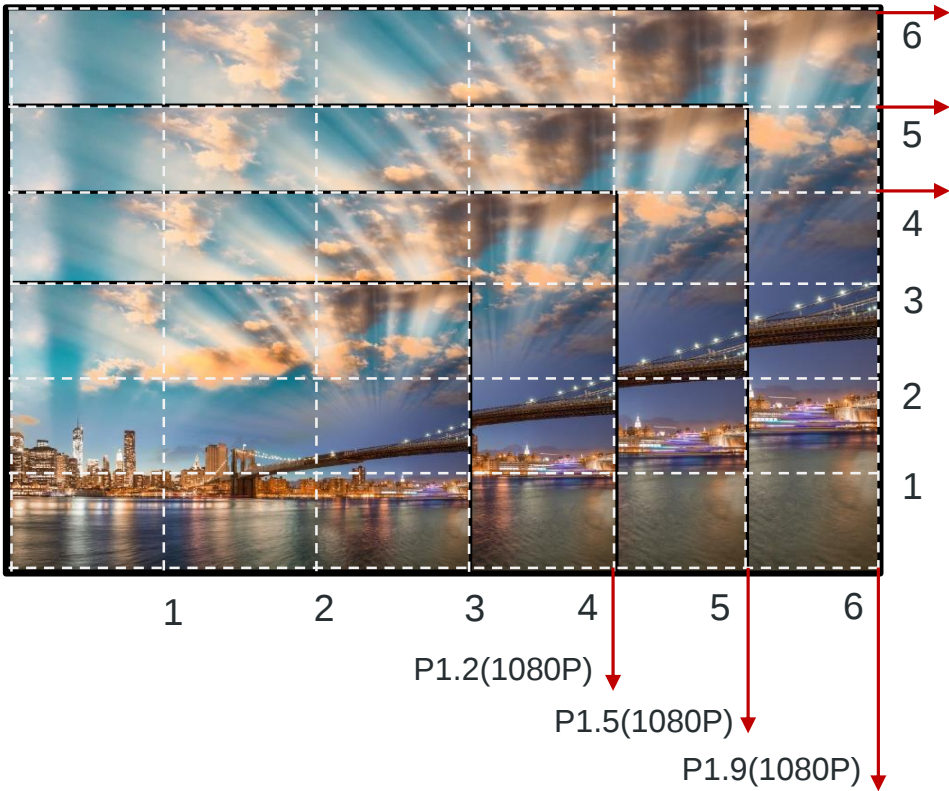
Low noise
of the whole LED screen

Highlights

Low cost of splicing

Standard 16:9 unit can also precisely achieve HD/FHD/UHD resolution just right by splicing

Models	Pixel pitch (mm)	Unit dimension(mm)	Unit resolution	1080P	Area
DS-D4212FI-DWF	1.25	480*270	384 x 216	(5×5) units	3.24m ²
DS-D4214FI-DWF	1.499	480*270	320 x 180	(6×6) units	4.67m ²
DS-D4212FI-GWF	1.25	600*337.5	480*270	(4×4) units	3.24m ²
DS-D4214FI-GWF	1.45	600*337.5	384*216	(5×5) units	5.06m ²
DS-D4218FI-GWF	1.875	600*337.5	320*180	(6×6) units	7.29m ²
DS-D4212FI-GW	1.27	609.92×343.08	480 x 270	(4×4) units	3.35m ²
DS-D4215FI-GW	1.588	609.92×343.08	384 x 216	(5×5) units	5.23m ²
DS-D4219FI-GW	1.906	609.92×343.08	320 x 180	(6×6) units	7.53m ²
DS-D4225FI-CW	2.54	609.92×343.08	240 x 135	(8×8) units	13.39m ²



Highlights

Self-adaption resolution

✓ Self-adaption



Hikvision LED Screen

- Supporting automatic adjustment of any non-standard input to fit the resolution of LED screen;
- Solving the problems of non-standard ratio LED screen, the black edge and complex debugging of LED.

Signal resource



✗ Black edge



LED resolution > Signal resolution

✗ Display insufficiency



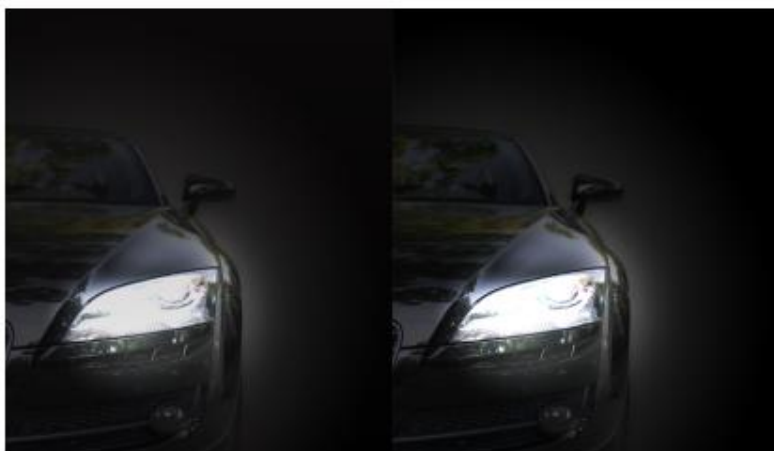
LED resolution < Signal resolution



Highlights

HIKVISION

Excellent technology of image processing



Benefits:

- Improving image clarity by enhancing sharpness;
- Enhancing display synchronization between LED controller and LED screen;
- Solving the problems of brightness under black background and darkness on the top row.

Intelligent dehumidification



Cold region



Hot region



Humid region



Dry region

Benefits:

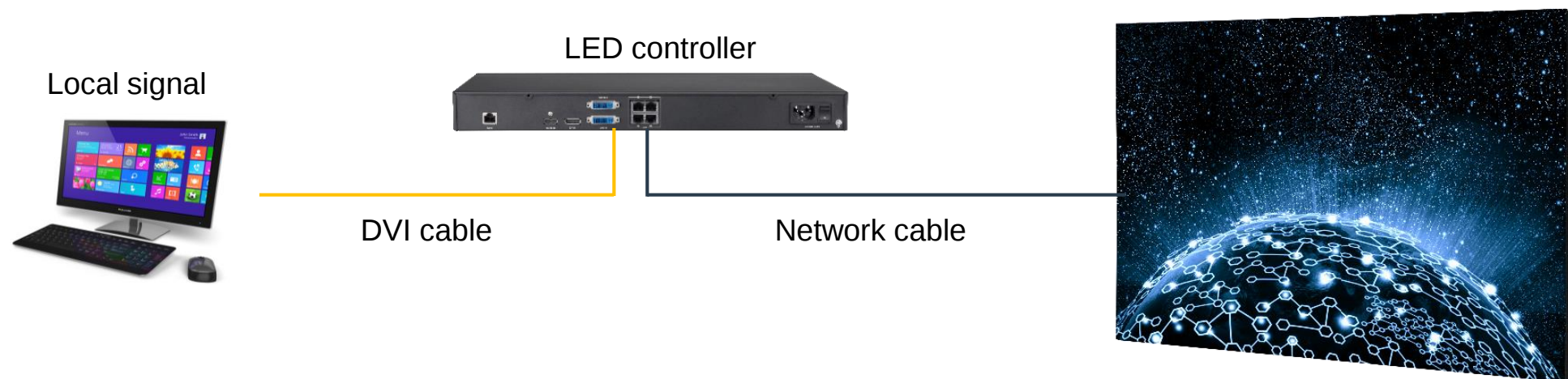
- Supporting for automatic dehumidification configuration;
- Supporting three dehumidification grade mode configurations for different humidity regions;
- Reducing the possibility of LED breaking and protecting LED from moisture to ensure product life;



APPLICATION SOLUTIONS



LED display system



Video resource

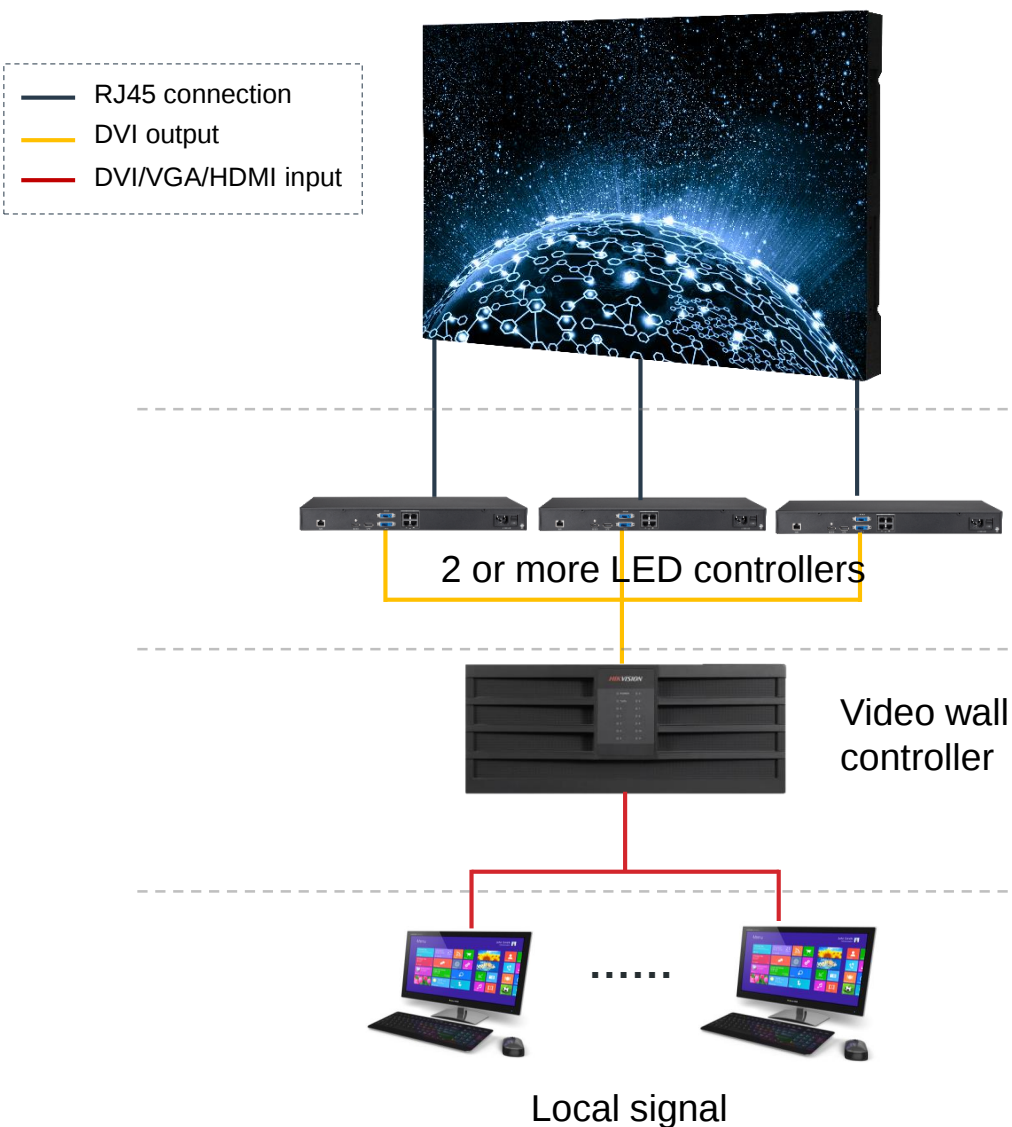
- Video input by 1-ch DVI port

Signal control

- 1 channel;
- Screen connection and image sending;
- Resolution control

LED video wall (Indoor & Outdoor)

- Display resolution $\leq 1920 \times 1080$;
- Full color LED video wall;
- Displaying images from the LED controller



LED splicing control system

LED video wall (Indoor & Outdoor)

- Display resolution > 1920*1080

Signal control

- Realizing large display area by some LED controllers;
- Screen connection and image sending;
- Resolution control;

Multiple signal matrix

- Splicing, division, image roaming;
- Video inputs to LED controller;

Video resource

- Multiple Video Inputs



CASE STUDY



Case study

HIKVISION

Zhejiang Police Station Conference room Project

Pixel pitch: 1.9mm, Area: 34.56 m²

Display meeting contents on this
LED screen;

Information Broadcast

Case study

HIKVISION

Nanjing Traffic Command Center Project

Pixel pitch: 1.2 mm, Area: 200 m²



Display Nanjing campaign videos for visitors;



Show welcome banners



Broadcast policy advertisements for citizens.



Case study

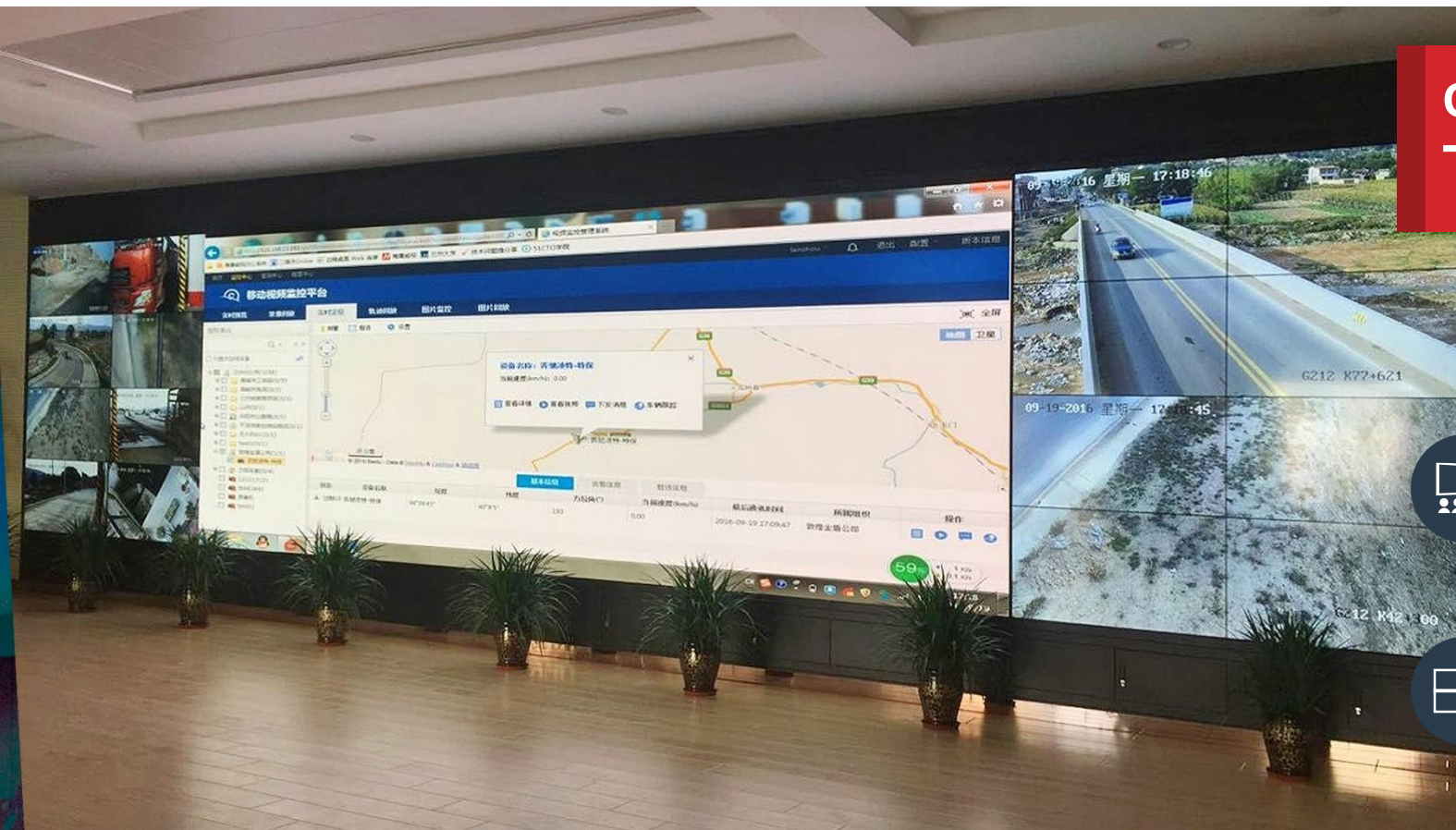
HIKVISION

Gansu Traffic Command Center Project

Pixel pitch: 1.8 mm, Area: 19.44 m²

The middle is the LED screen used to display the main information;

Combined LED with LCD to splicing to show traffic monitoring conditions.



Case study

HIKVISION

Hangzhou INTIME Mall Project

Pixel pitch: 1.5 mm, Area: 84 m²



Show mall's latest promotion video;



Information broadcast;



Play background programs:
music videos, fun video clips...



**Thanks for
Watching**