



Solution for HD Analog Surveillance

Hikvision Entry Learning



First Choice for Security Professionals

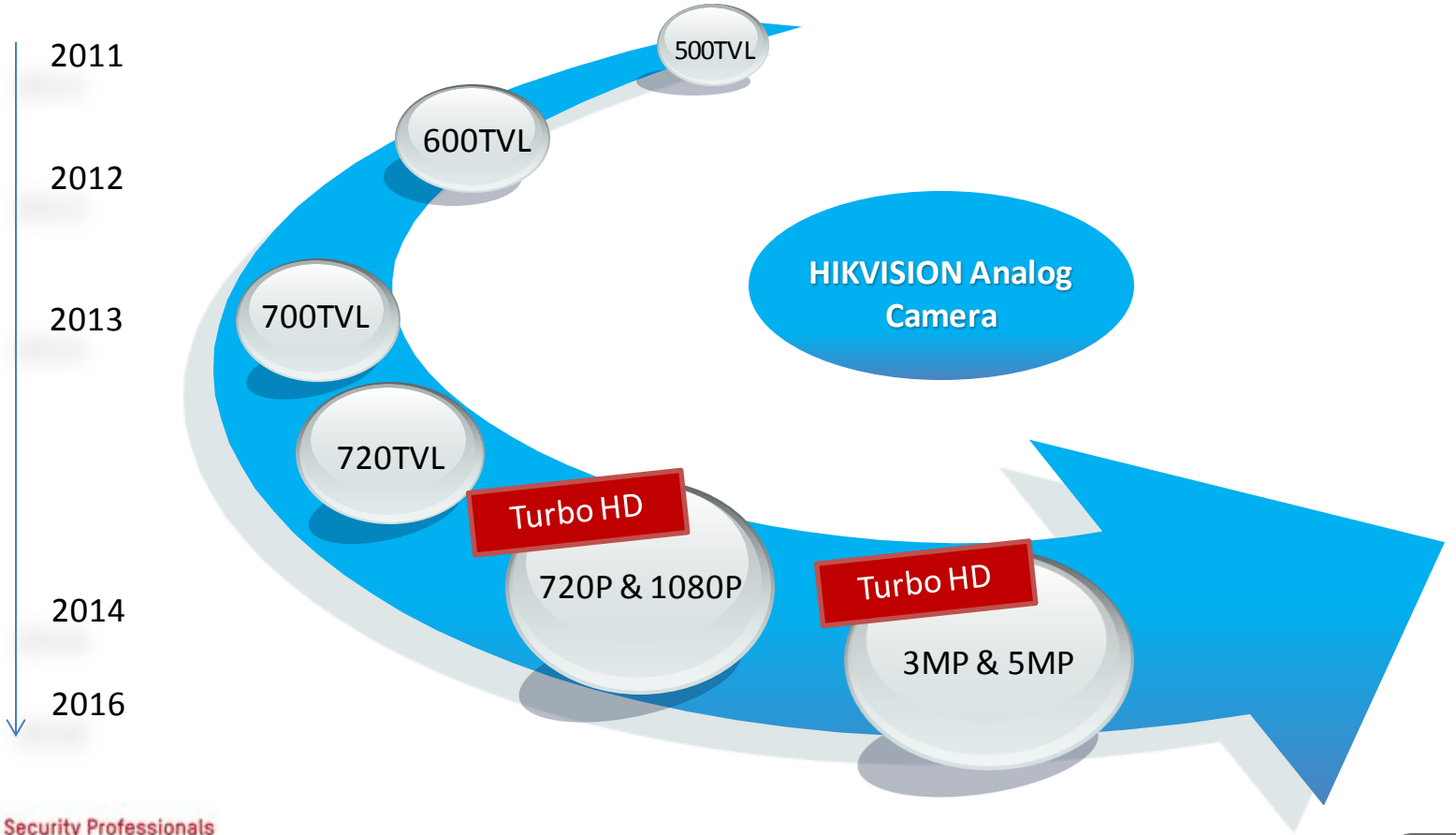
- **Analog Video Surveillance Overview**
- **Hikvision Turbo HD Surveillance Products**
- **System Advantages**

Video Surveillance Requirements

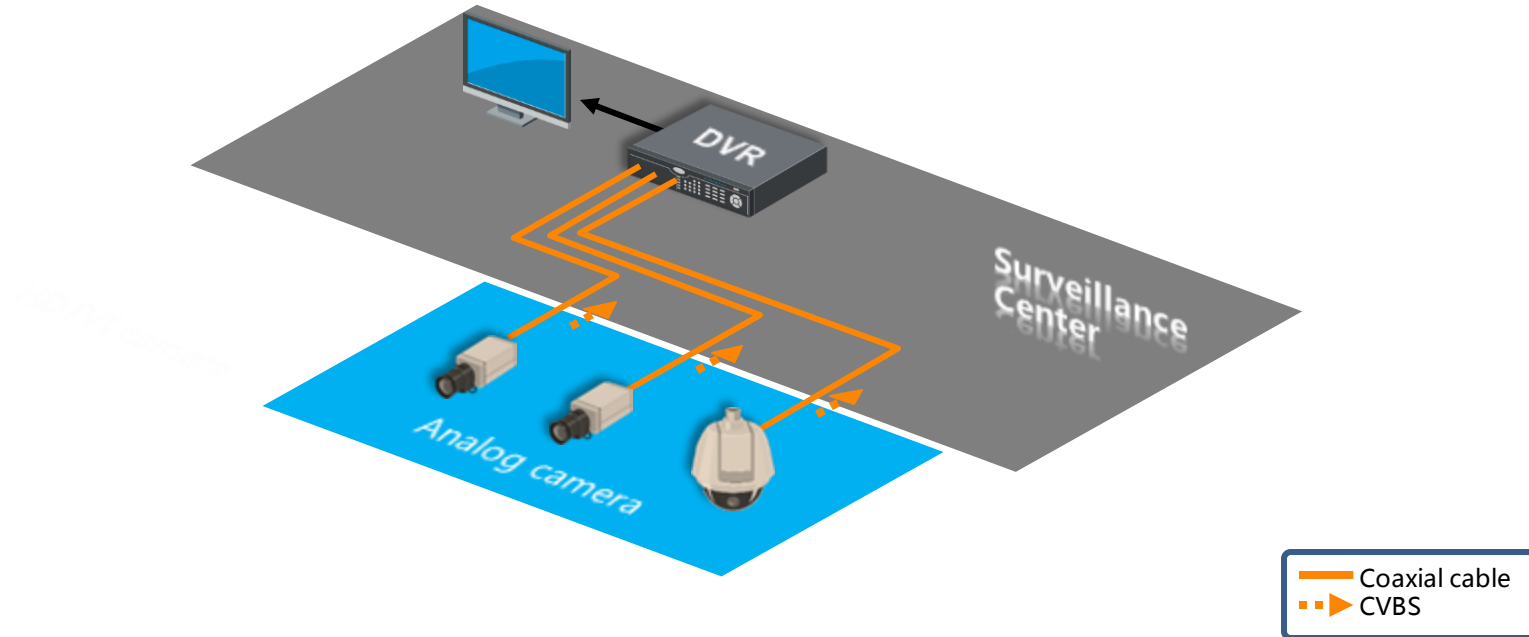
- Clear Images Day and Night
- Large Storage Availability
- Fast & Clear Playback of Recorded Footage
- Smart Detection to enhance uses of CCTV



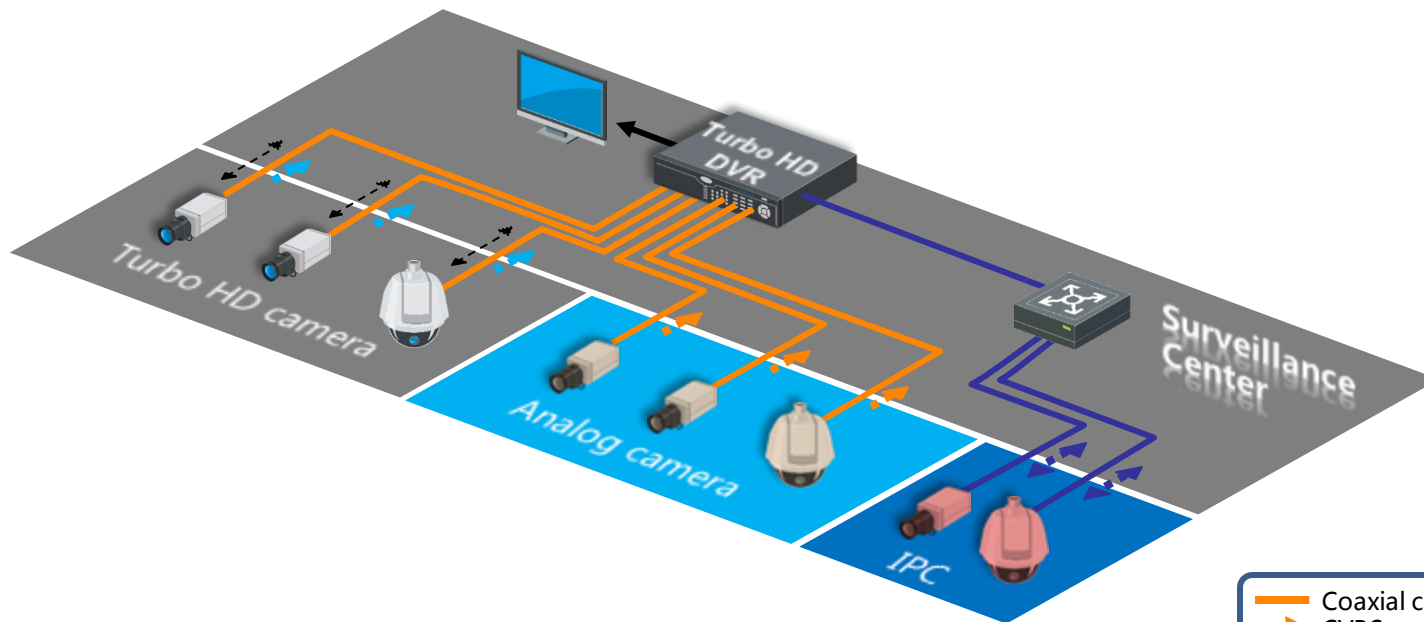
Development



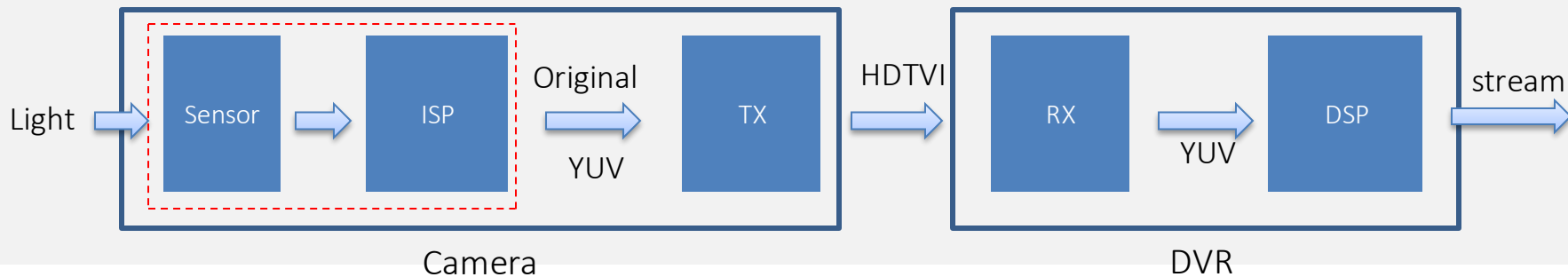
Traditional Analog System



Turbo HD System



- Coaxial cable
- CVBS
- HDTV signal
- Bi-directional control signal
- Network signal



Definition

HDTVI (High Definition Transport Video Interface)

Meet HD TVI Standard, Open Technology

----- Coaxial Cable Based High Definition Video Transmission

- High Definition: 720P 25/30fps; 720P 50/60fps; 1080P;.....
- Transmission media: RG59/RG6/UTP
- Low-frequency signal, long transmission distance and anti-interference performance
- Up the coax, two way control

Total replacement for traditional analog system!

First Choice for Security Professionals

- Analog Video Surveillance Overview
- **Hikvision Turbo HD Surveillance Products**
- System Advantages

Turbo HD Family Camera

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and more...

720P

- **C0T:** Entry level, fixed lens only
- **C2T:** 1/3", lowlight, full product line
- **C5T:** 1/3", Ultra lowlight, full product line, Support CVBS

1080P

- **D0T:** cost effective
- **D1T:** regular series, full product line
- **D5T:** high end , True WDR, lowlight, 3D DNR, Support CVBS
- **D7T:** True WDR, lowlight, new EXIR appearance

3MP

- **F1T:** cost effective
- **F7T:** True WDR, new EXIR appearance

5MP

- **H1T-FITS:** fisheye

720P&1080P

- 720p/23x, 1080p/30x
- All PTZ dome cameras support UTC

First Choice for Security Professionals



1/2 SATA



1.5U chassis
4 SATA



2U chassis
8 SATA

Entry-level

720P real-time

- **HGHI-Ex series**
- **HGHI-Fx series:** H.264+

Mid-level

1080P non real-time

- **HGHI-SH series:** 720P real-time
- **HQHI-Fx/N:** 1080P Lite real-time

High-level

1080P real time

- **HQHI-SH series**
- **HUHI-Fx/N:** 3MP/5MP non real time

NEW
Turbo 3.0

Turbo HD Family DVR

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1/2 SATA



.....
1.5U chassis
4 SATA



2U chassis
8 SATA

720p

1080p

71/72HGHI-SH series

71/72HQHI-SH series

73HGHI-SH series

73HQHI-SH series

81HGHI-SH series

81HQHI-SH series

71/72HGHI-Ex series

90HQHI-SH series

NEW
Turbo 3.0

720P real-time

1080P non real-time, 1080P Lite real-time

1080p real time, 3MP/5MP non real-time

71/72HGHI-Fx series

71/72HQHI-Fx/N series

72HUHI-Fx/N series

73HQHI-F4/N series

73HUHI-F4/N series

81HQHI-F8/N series

81HUHI-F8/N series

90HUHI-F8/N series

1080P Lite



1080P Lite



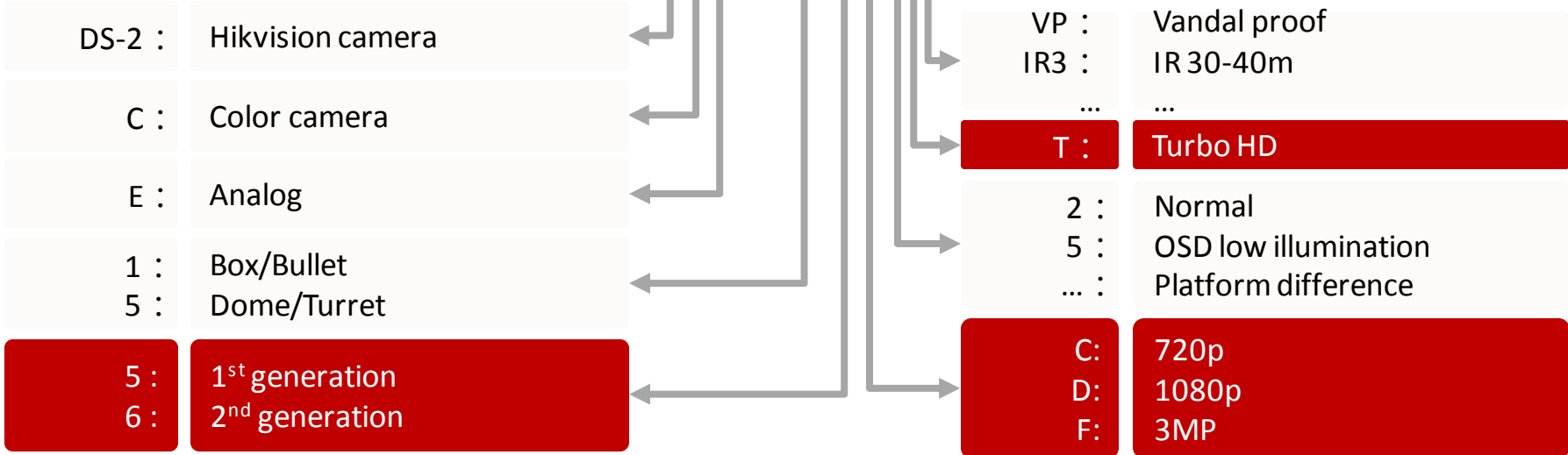
1080P

	Resolution	Visual Effect	Bitrates
720P	1280*720	700 TVL	2Mb
1080P Lite	960*1080	900 TVL	2Mb
1080P	1920*1080	1000 TVL	4Mb

Naming Rule Camera



① **DS-2** ② **C** ③ **E** ④ **1** ⑤ **6** ⑥ **D** ⑦ **5** ⑧ **T** - **VPIR3** ⑨



Naming Rule PTZ



① **DS-2** ② **A** ③ **F** ④ **5** ⑤ **1** ⑥ **23** ⑦ **T** ⑧ **-** ⑨ **A3**

DS-2: Hikvision camera

A: Analog PTZ

E: Entry-level

F: High-end

5: 5 inch

7: IR

1: 720P

2: 1080P

A: AC24V, outdoor, IP66

A3: AC24V, indoor

T: Turbo HD

23: 23x optical zoom

36: 36x optical zoom

① ② ③ ④ ⑤ ⑥ ⑦ ⑧
DS -72 16 H GHI- SH

DS: Hikvision product

72: 71/72/73/81 series

16: Number of channels

H: H.264 encoding

G: HD720P real-time

Q: HD1080P real-time

H : HDMI output

S : SATA interface

H : HD video input

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
DS -72 16 H U HI - F2 / N

DS: Hikvision product

72: 71/72/73/81/90 series

16: Number of channels

H: H.264/H.264+ encoding

G: G: 720P
Q: Q: 1080P
U: U: 3M/5M/...

N : Non real time encoding

2 : No. of SATA interfaces

F : Product Platform Code

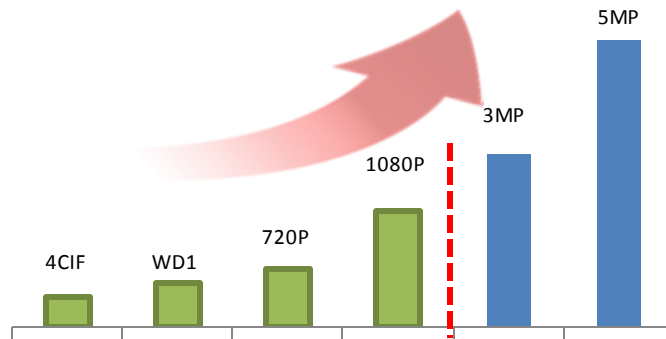
H : HD video input

- Analog Video Surveillance Overview
- Hikvision Turbo HD Surveillance Products
- **System Advantages**

High Resolution



Resolution Supported



High Resolution

3MP & 5MP Turbo HD Camera Input, “4K” Output(HDMI 2.0).

Image Quality

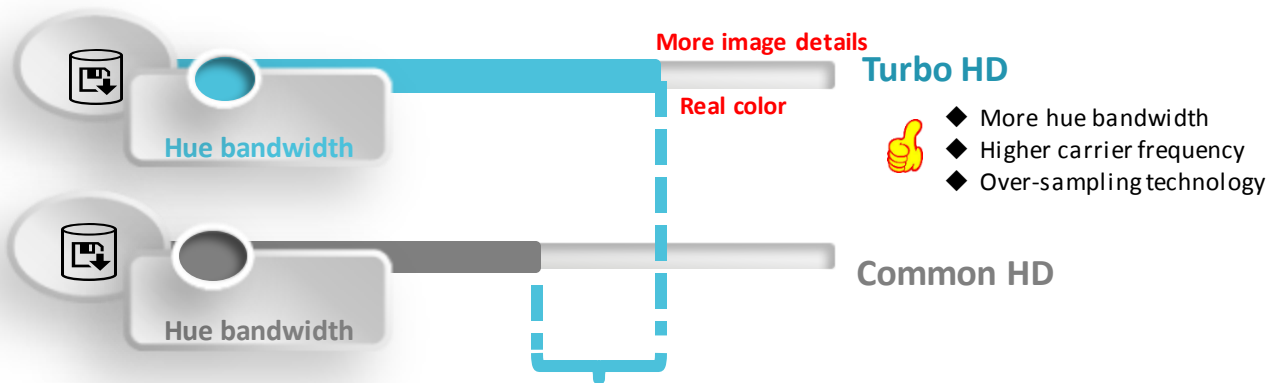
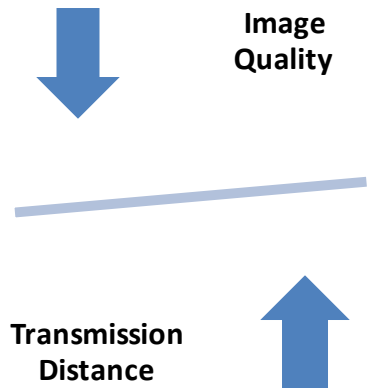
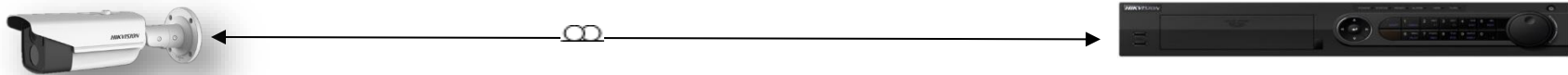


Image Quality Guarantee image quality and long transmission distance



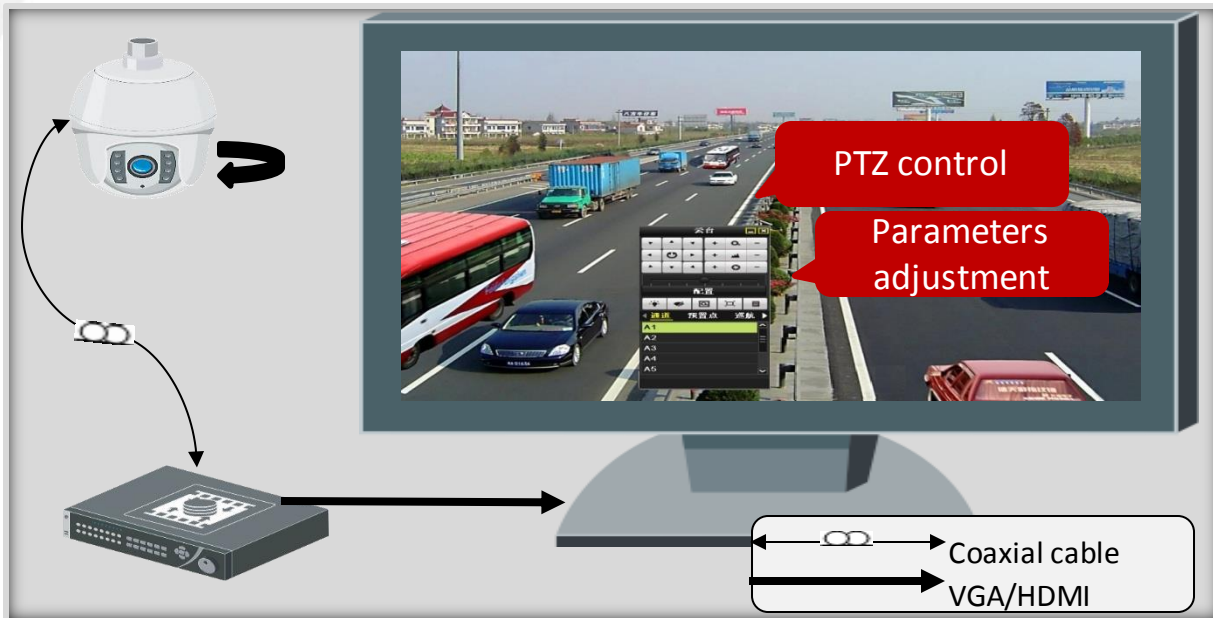
Low-frequency signal



Long transmission distance
(less video signal attenuation)
Anti-interference performance

Long Distance

Turbo 1.0: Up to 500m @720P/1080P over RG6 coaxial cable
Turbo 3.0: Up to **1200m @720P**; **800m @1080P** over RG6 coaxial cable



Easy operation

Plug and Play configuration with UTC - up the coax control



Easy system upgrade

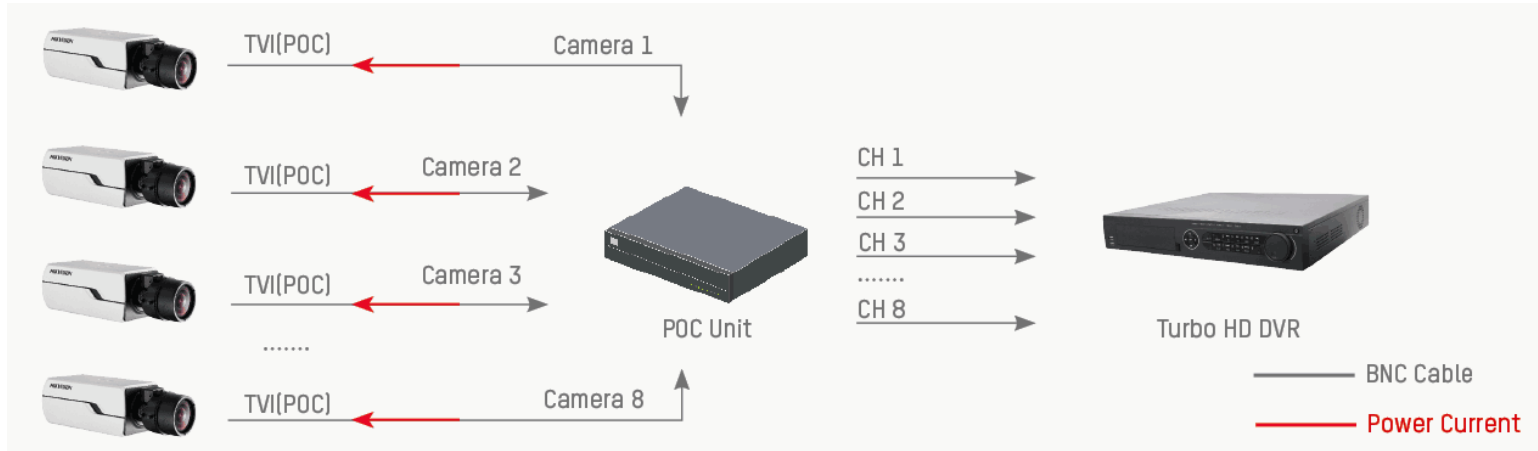
System upgrading with **Coaxial Cable**, no need to change original analog cable

Easy HD

Plug and Play

Up the Coax: video & PTZ control signal transmit on the coaxial cable

Easy System Upgrade: original wiring system, flexible expansion



HD1080P WDR POC Box
Camera

Coaxial Power Unit

Turbo HD DVR

— BNC Cable
— Power Current

Easy HD

Easier Installation with POC (Power over Coaxial)

Real-Time HD

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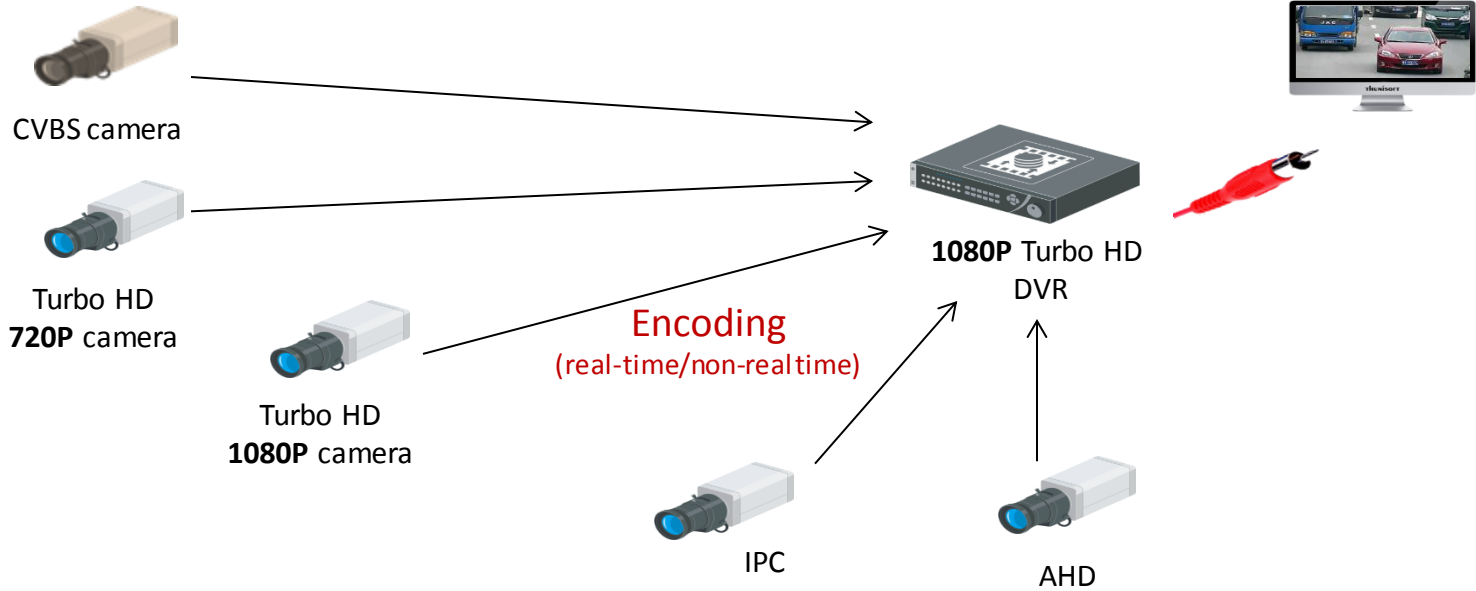


Real-Time HD

**Image transmission without encoding, No loss
Display without decoding, No delay**

First Choice for Security Professionals

Hybrid Access



DVR Access

Access with various cameras: SD analog camera, Turbo HD camera, IPC input and AHD

Smart Codec



- Storage with low bit rate

Smart flow control



- Smart flow control

Smart Detection

Line Crossing Detection



- Support smart storage, smart search, smart playback, smart backup

Intrusion Detection



VQD

Diagnostics ...	Threshold	
<input checked="" type="checkbox"/> Blurred Im ...		60
<input checked="" type="checkbox"/> Abnormal ...		55
<input checked="" type="checkbox"/> Color Cast		60

- Support manual/auto VQD: blurred image, abnormal brightness, and color cast

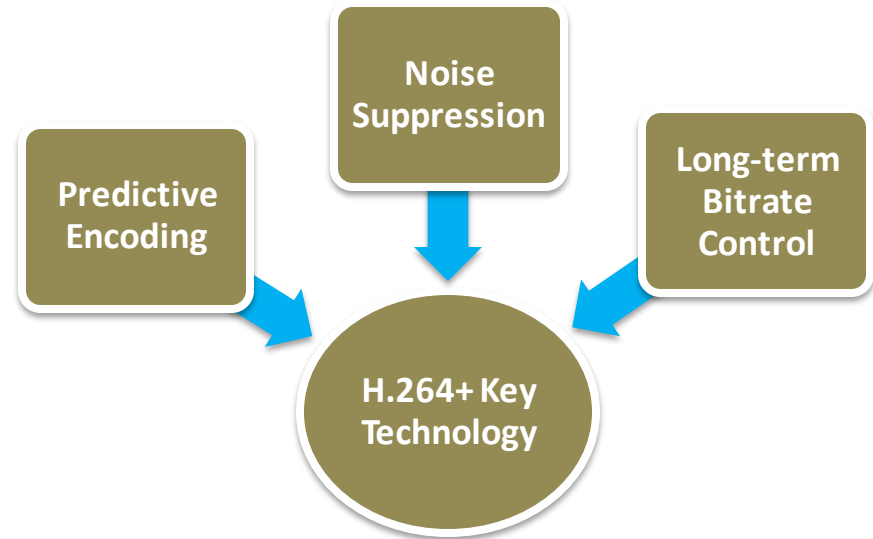
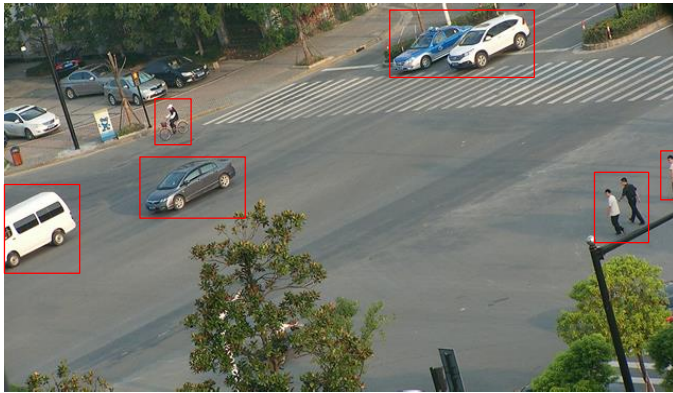
Smart System

Open and smart system: HDTVl with smart features

Smart detection types: line crossing detection, intrusion detection, scene change, audio exception.

High Compression Efficiency

- Based on current H.264 standard, Hikvision analyzed and optimized the encoding technology. The developed H.264+ can reduce the bandwidth and storage requirements.

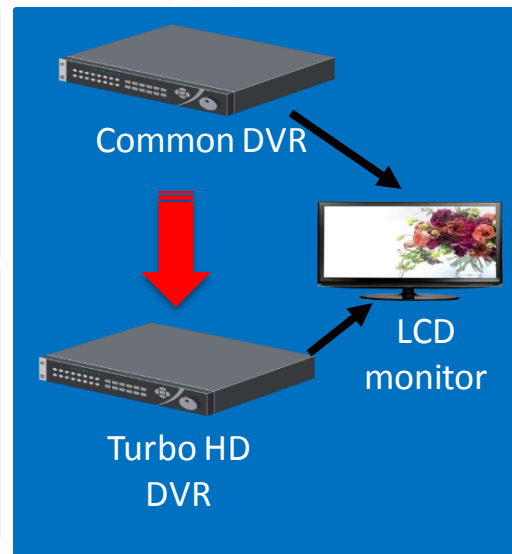
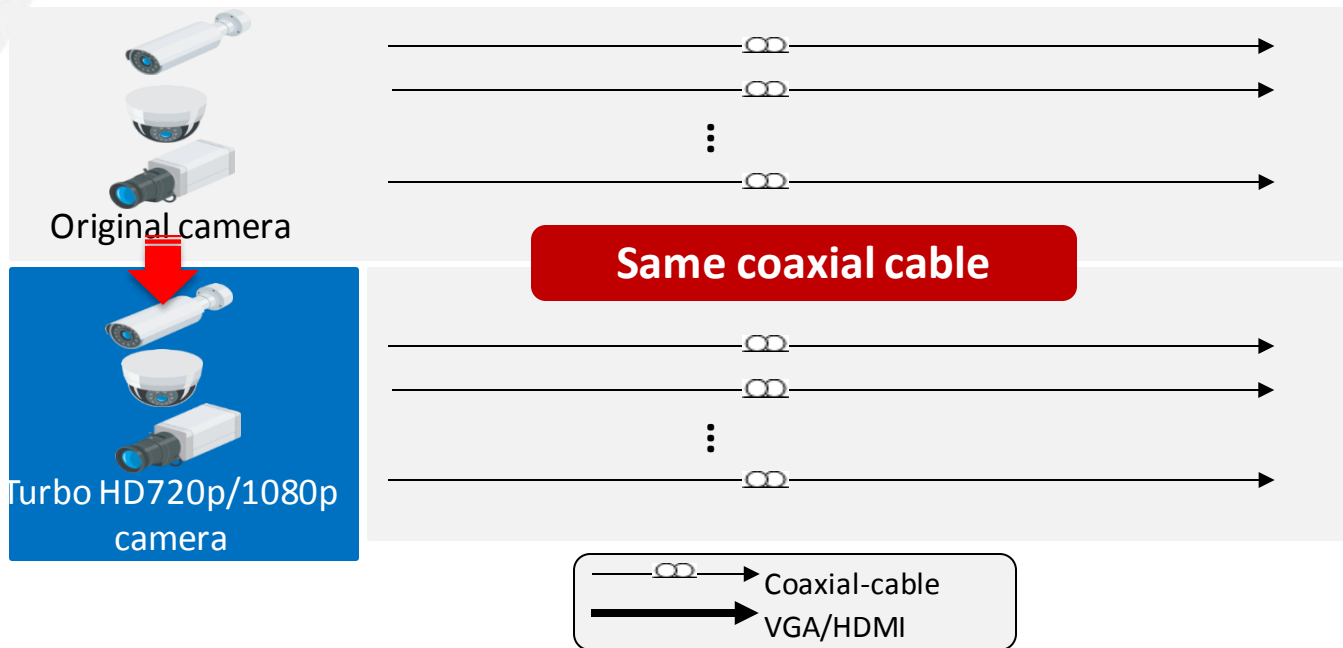


Lower bitrate

Under the same picture quality(resolution) setting , the same HDD capacity enables longer time recording and less bandwidth required for remote live view or playback.

Upgrade to Turbo HD

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Upgrade to Turbo HD camera

- Don't have to change the coaxial cable
- Add turbo HD720p/1080p camera
- Convenient adjustment with smart focus and function

Upgrade to Turbo HD DVR

- Self-adaptive access: analog CVBS and turbo HD camera can be accessed at the same time
- Storage with low bite stream
- Smart turbo HD DVR

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