





HIKVISION Solution for Analog Surveillance

V1.1, 2015.5





These are all found with the products either printed or on CD and on our website.

- User Manual of Hikvision analogue devices
- Specification of Hikvision analogue devices
- Catalog of Hikvision analogue devices
- Quick Start Guide of Hikvision analogue devices





- After this course, you will be able to:
 - Understand more about Hikvision Analogue based products
 - Understand more about Hikvision HD Analogue products -TURBO.
 - Design a small analog surveillance system using Hikvision products





- 1. Analogue Video Surveillance Overview
- 2. Hikvision Analog Surveillance Products
- 3. 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





Video Quality



- Analogue camera provides 720TVL resolution
- Turbo HD (TVI) provides 1080p (2MP) video quality over coaxial



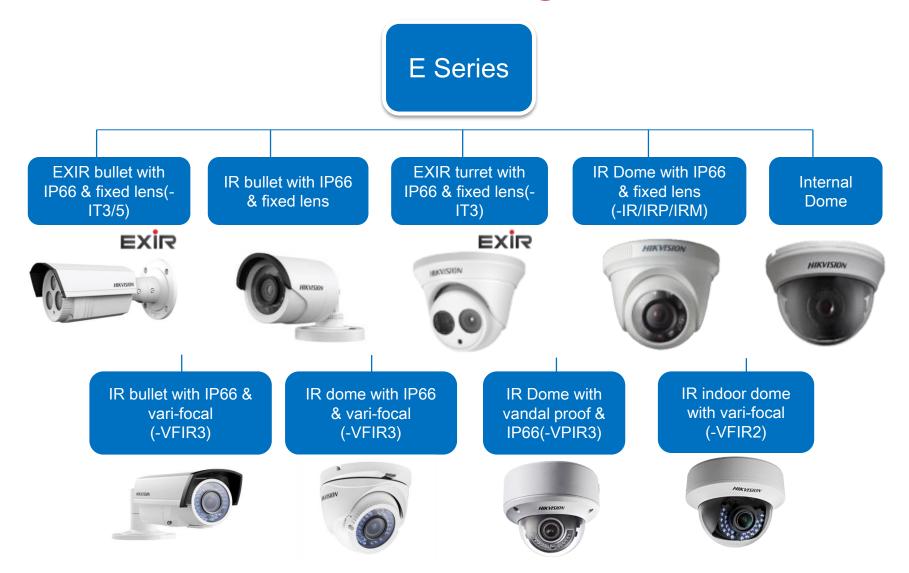




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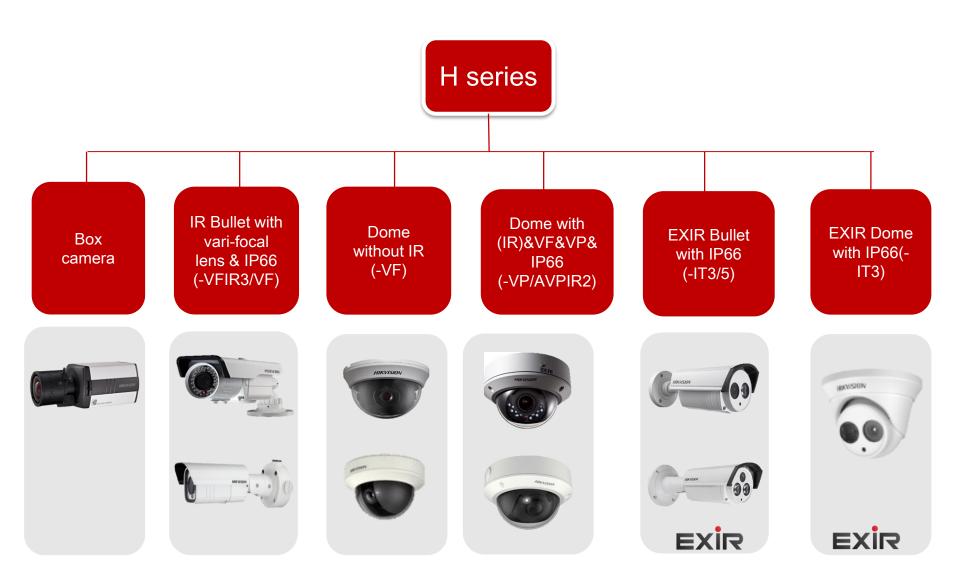
HIKVISION Traditional Analog Camera HIKVISION





HIKVISION Traditional Analog Camera *HIKVISION*





HIKVISION Traditional Analogue DVR



DS-7200HWI-SH

DS-7200HVI-SV

DS-7300HWI-SH



ENTRY LEVEL

4-32 channels
HDMI Output
CIF Real-Time WD1
Real Time

DS-9100HWI-ST

DS-8124HWSI-SH/ DS-8132HWSI-SH

DS-9200HWI-ST



ADVANCED LEVEL

4/32 channels WD1 8 SATA Defog & 3D DNR

Turbo HD Family



PTZ Camera



normal and low illumination series

2 SATA

Entry Level



MINI





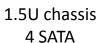




720p/23x, 1080p/30x 1080p: higher resolution imaging All PTZ dome cameras support UTC

DVR





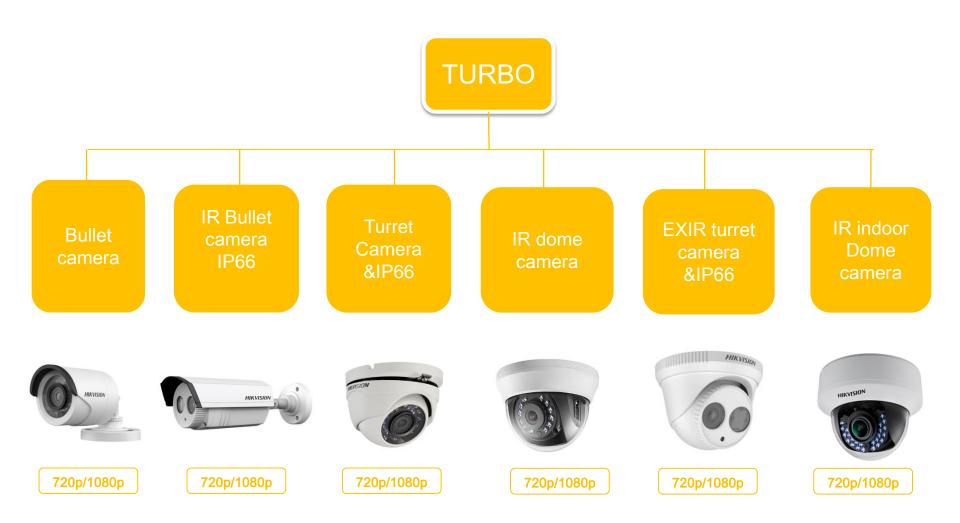


2U chassis 8 SATA

720 p	1080p
72HGHI-SH series	72HQHI-SH series
73HGHI-SH series	73HQHI-SH series
81HGHI-SH series	81HQHI-SH series

Turbo HD Camera Product Family





Turbo HD PTZ Speed Dome





DS-2AE4123TI-A(3) DS-2AE4223TI-A(3)

720P, 23X,100m IR 1080P,23X,100m IR



DS-2AE5230T-A(3) DS-2AE5223TI-A(3) DS-2AE5123TI-A(3) HIKVISION

DS-2AE7230TI-A DS-2AE7123TI-A

1080P, 30X 1080P,23X,150m IR 720P, 23X,150m IR

1080P, 30X, 120m IR 720P, 23X, 120m IR

Turbo HD DVR Family



DS-7100HGHI-SH

DS-7100HQHI-SH

DS-7200HGHI-SH

DS-7200HQHI-SH

DS-7300HGHI-SH

DS-7300HQHI-SH

DS-8100HGHI-SH

DS-9000HQHI-SH

DS-71/72HGHI-E1/2





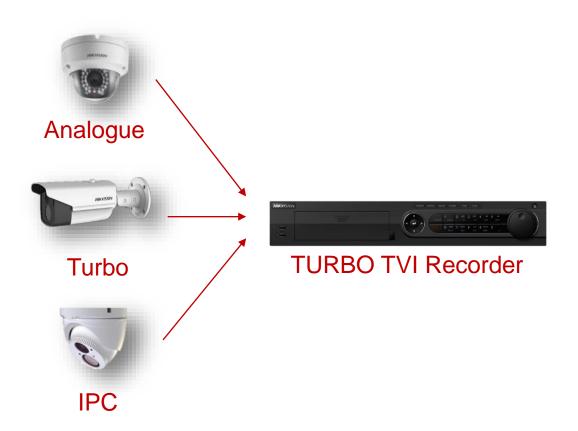


TURBO HD DVR

4/8/16/24/32 channels 720P/1080P Real Time 1/2/4/8 SATA

Turbo Tri-brid Technology



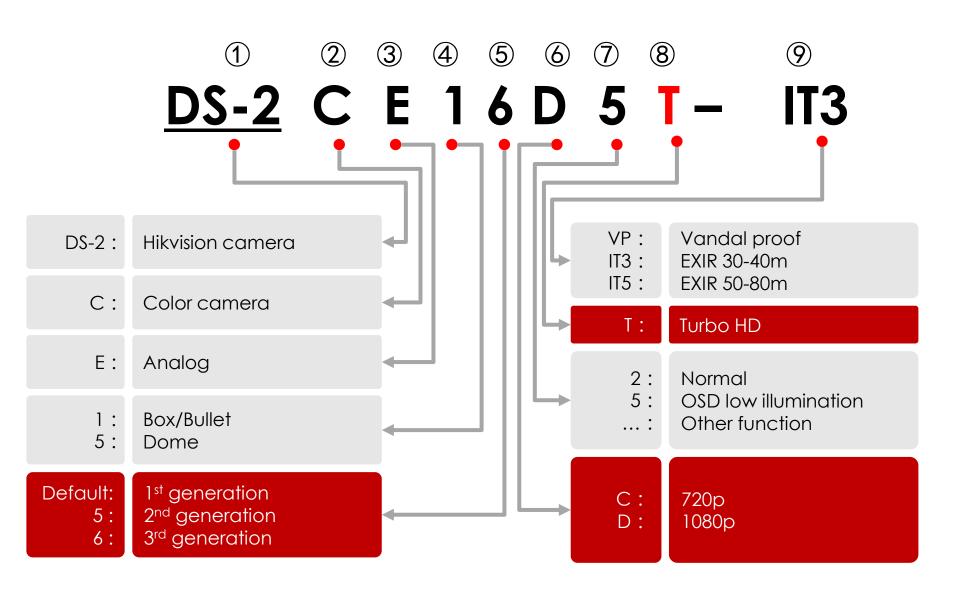




HDMI / VGA / BNC

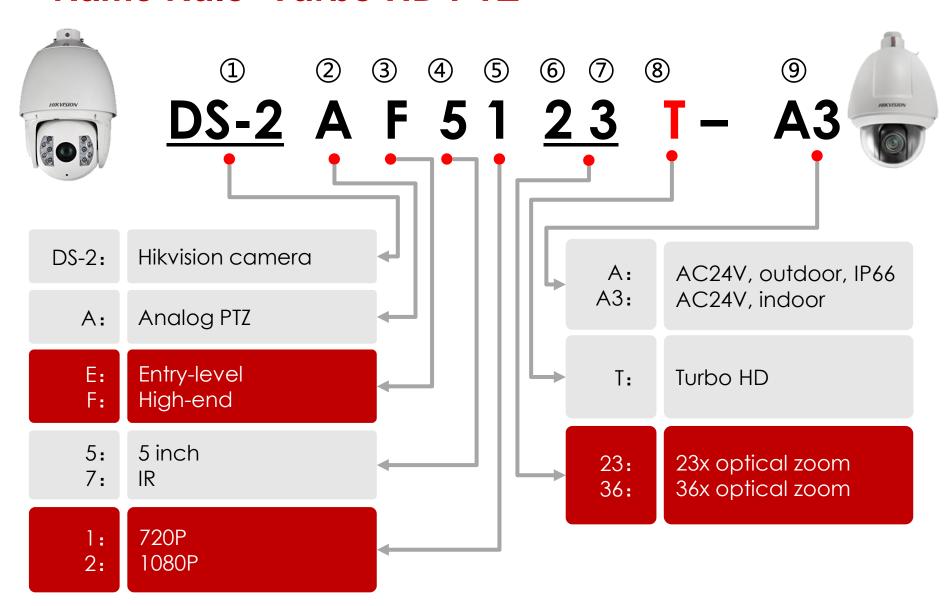
Name Rule- Turbo HD Camera





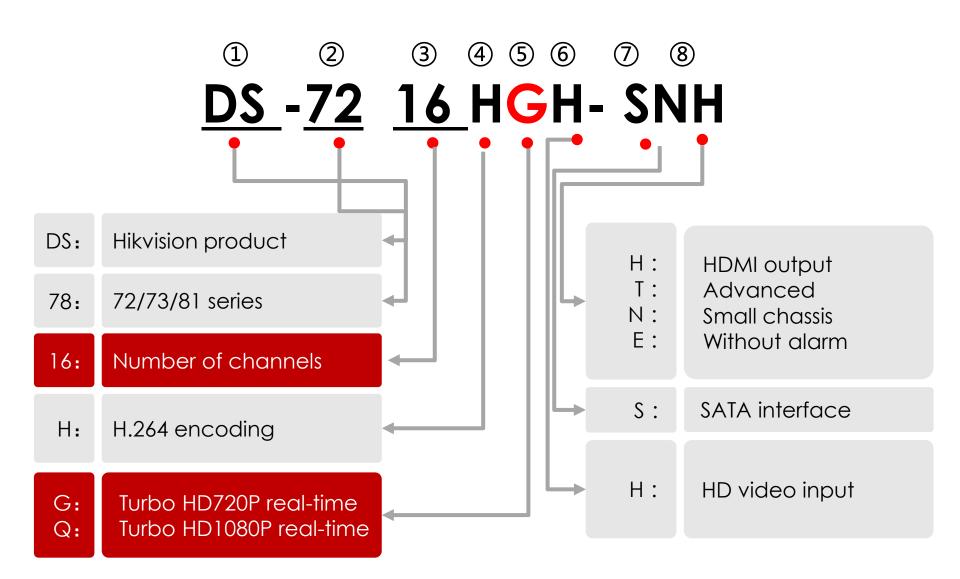
Name Rule- Turbo HD PTZ





Name Rule- Turbo HD DVR







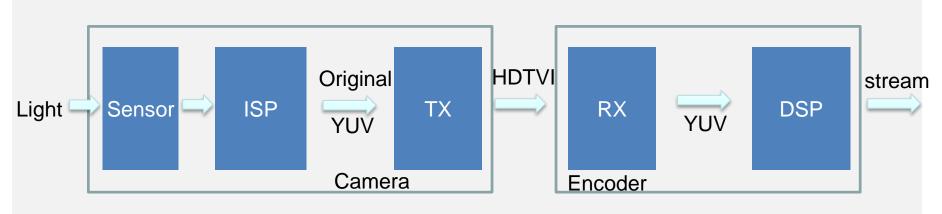


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Basic Theory



Theory:



Definition

- HDTVI(HD Transport Video Interface) standard
- Transmission media: SYV75-3/SYV75-5/UTP
- Further transmission distance
- Low-frequency signal, good anti-interference performance

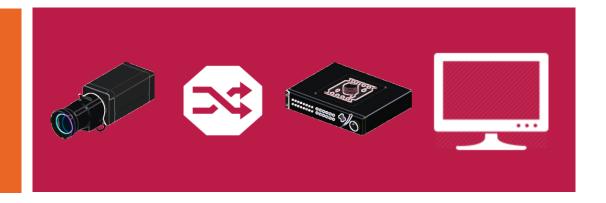
HDTVI system
V1.0 video data, two
way control,
V2.0 coaxial audio,
V3.0





High Resolution images up to 1.3MP (720P), 2MP (1080P) over coaxial cable

Up the coaxial control



Real-Time with HD

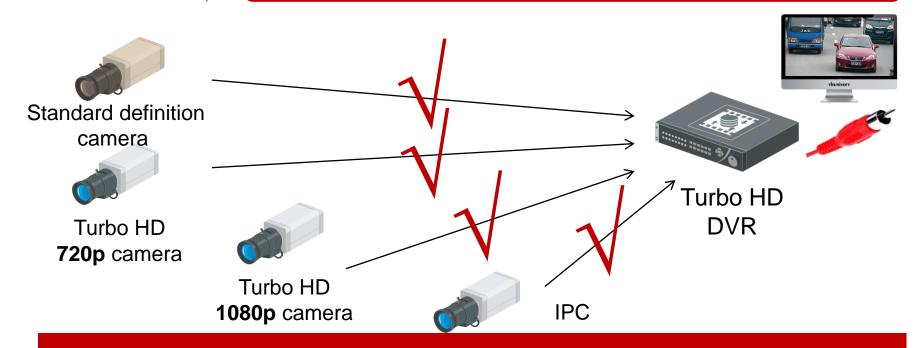
Go Further with HD





DVR Access

Self-adaptive access with standard definition camera or turbo HD camera

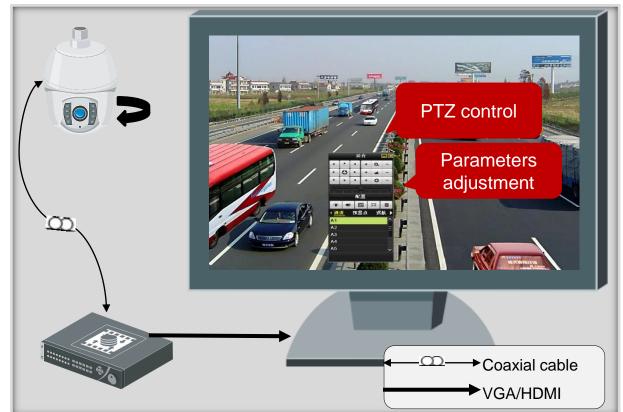


Self-adaptive access

- ◆ Turbo HD DVR supports self-adaptive access with camera, easy operation
- ◆ 1080P video can be accessed in 720P DVR, with 1080P non-real time encoding
- **♦** 73/81/90 series can increase 1 IP channel by canceling 1 HD analog channel.

Turbo HD







Plug and Play configuration with UTC - up the coax control



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

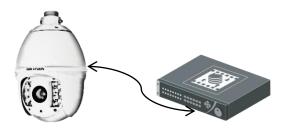


Turbo HD amazing analogue images

Real-Time HD









Real-Time

Real-Time Output

HD Image Quality Without Delay

HDTVI standard, image transmission without coding

Take Your HD Further



Further HD

- Long distance transmission with low-frequency signal
- Compound signal in one cable with OSD camera menu

Anti-Interference

- Turbo HD meets HDTVI standard, which offers good anti
 - interference performance





Up to 500m (720P/1080P) with high resolution images on SYV-75-5 Up to 300m (720P/1080P) with high resolution images on SYV-75-3

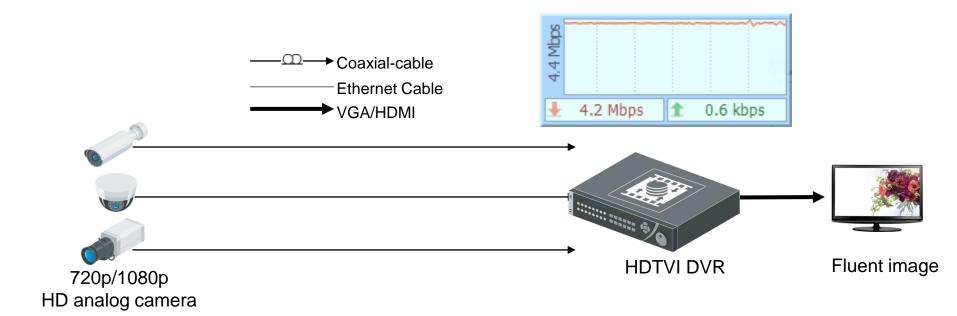
Highlight- Turbo HD DVR



Smart flow control

Smart flow control in HD TVI DVR

With smart flow control in Turbo HD DVR, normal decoding and fluent live view will be ensured even the transmission situation is not very well.



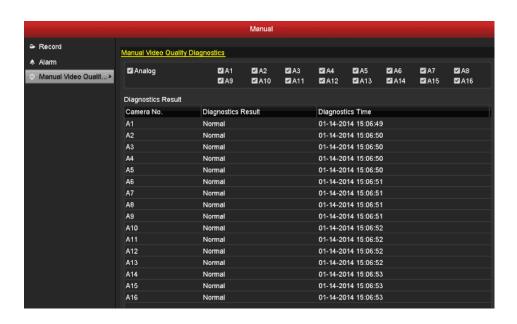
Highlight- Turbo HD DVR

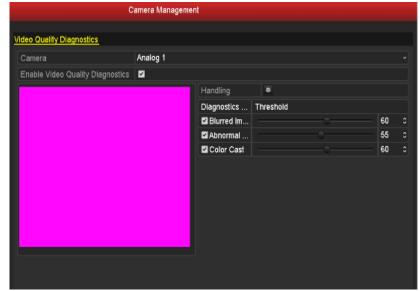


DVR VQD

Video Quality Diagnostic

Multiple types are included in the VQD: blurred image, abnormal brightness, and color cast.





- · Manual video quality diagnostics
- Support configure VQD exception handling and linkage action.

Highlight- Turbo HD DVR



VCA

Smart detection in Turbo HD DVR

 Multiple types are included in smart detection: intrusion detection, traversing virtual plane detection.

Traversing virtual plane

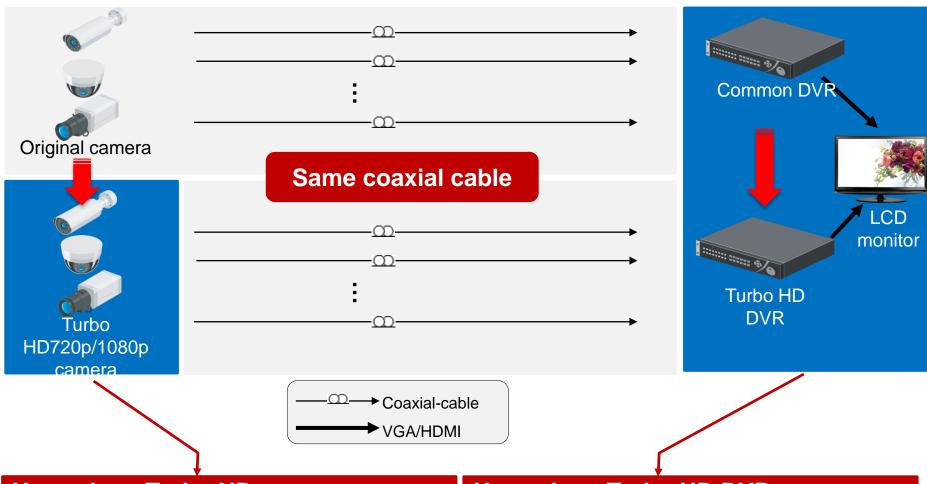


Intrusion detection



Upgrade to Turbo HD





Upgrade to Turbo HD camera

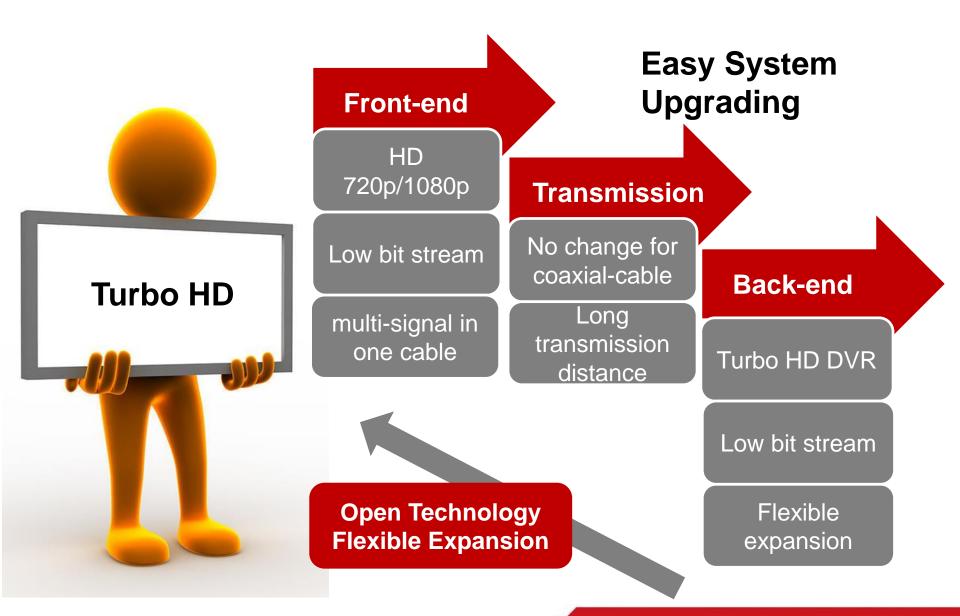
- Don't have to change the coaxial cable
- Add turbo HD720p/1080p camera
- Convenient adjustment with smart focus and function

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

Turbo HD- Advantage





Abbreviation



- DVR: Digital Video Recorder
- IPC: Network Camera
- NVR: Network Video Recorder
- TVL: TV Line
- VMS: Video Management Software
- PTZ: Pan, tilt and zoom
- LAN: Local Area Network
- WAN: Wide Area Network
- OSD: On Screen Display
- WDR: Wide Dynamic Range
- DNR: Digital Noise Reduction
- HD: High Definition

- CMS: Central Management
 Server
- NMS: Network Management Server
- AMS: Alarm Management Server
- VRM: Video Recording Management
- SMS: Stream Media Server
- HDD: Hard Disk
- S.M.A.R.T: Self-Monitoring Analysis and Reporting Technology



Thanks!

www.hikvision.com