Who's KING of HD over Coax?

—— HDCVI vs HDTVI

HDCVI Family

Distributor

Monitor

Matrix

Optical transceiver

Converter

Encode card

Technology Overview

	HDCVI	HDTVI
Chipset	TX & TX embedded with ISP	TX only
Control Signal	Support	*Support (HDTVI 2.0)*
Audio	Support	NA
Transmission Distance (Coax)	500m(RG59)/700m(RG6)	300m(RG59)/500m(RG6) as publicity
UTP Transmission Distance	250m	<200m
HD/SD Switch (SD analog output)	Support	Support
Resolution	720P, 1080P & *2K/4K (HDCVI 2.0)*	720P & 1080P
DVR Compatibility	Tribrid *Compatible with HDCVI, Analog & IP Cameras (HDCVI & analog self-identified)*	Hybrid *only HDTVI & Analog Cameras, can not integrate with HD CVI as we test*
Status	Mass Production Over 3million units applied Patented	To be released in Q3 Patent risk

Technology Overview

	HDCVI	HDTVI
International Standard	HDcctv Alliance AT 2.0 100+ third-party manufacturers have released HDCVI devices	NA
System Solution	Optical fiber transceiver, Matrix, Distributor & Converter are all available	NA
Awards & Evaluations	• Finalist and Winner for the Best of Camera PROTECTOR Award 2014 • Gold Excellence Award 2014 of CPSE • Finalist for GIT SECURITY AWARD 2015 • Finalist of Benchmark Innovation Award • Great feedbacks from authoritative magazines (A&S, Benchmark etc) and third-party testing organizations	NA

HDTVI Family

Battle

HDCVI 720P System

VS

HDTVI 720P System

Round 1

Camera Performance

Spec

	DH-HAC-HFW1100S	DS-2CE16C2T-IR
Image Sensor	PO3100K	PO3100K
Effective Pixels	1280(H)* 720(V)	1280(H)* 720(V)
Min. illumination	0.01Lux@(F1.2,AGC ON),0 Lux with IR	0.01Lux@(F1.2,AGC ON),0 Lux with IR
IR Distance	20m	20m
Lens	2.8 mm, 3.6mm, 6mm, 8mm optional	2.8 mm, 3.6mm, 6mm optional
Power Consumption	Max 3.5W	Max 3.5W

The models we choose use same solution, have similar specification.

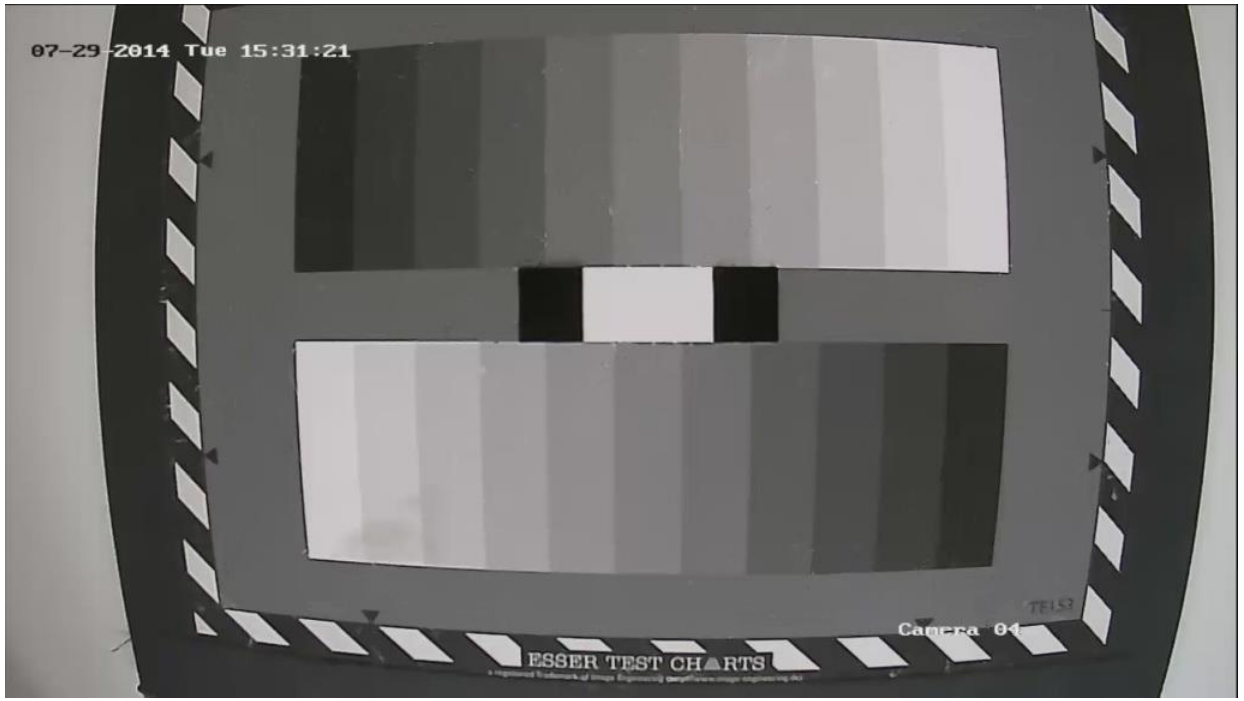
Performance | Color rendition

✓ Accurate color rendition

• Little color bias and definition is not good.

Performance | Grey scale

✓ 11 Scale, uniform luminance



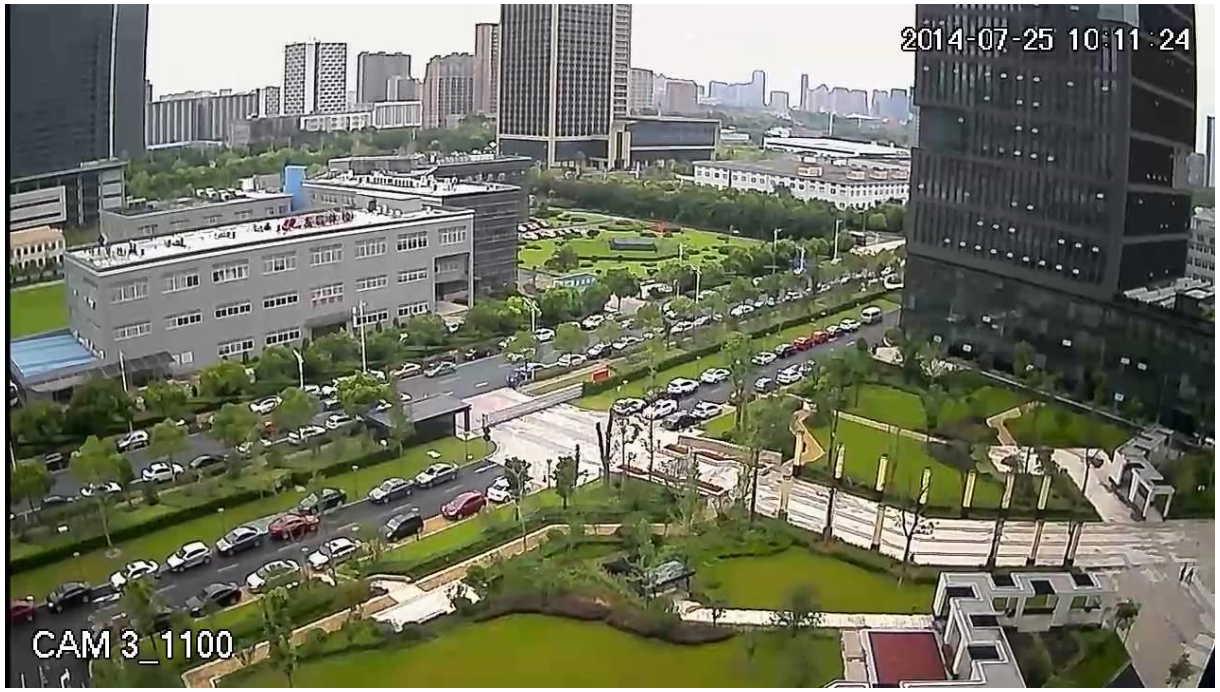
✓ 11 Scale

Performance | Indoor & Daytime

✓ Crisp image with sharp edge

• Little blur and less edge details.

Performance | Outdoor & Daytime



✓ Better exposure control & more details

• Dark image & loss details

Performance | Indoor & Nightview

- ✓ Good SmartIR performance
- ✓ Have a clear view on the main object

- Whole picture is unclear and details can hardly be captured

Performance | Outdoor & Nightview

✓ Bright image with rich details

• Dim & loss details

Round 2

Transmission

Transmission | Long-distance

Testing environment: **300m RG6/U** coaxial cable

HDCVI: Almost the same as short distance

HDTVI: Blur, nearly useless

Transmission | Long-distance

Testing environment: **300m RG59/U** coaxial cable

HDCVI: Little color bias

HDTVI: Become black & white, and blur

Transmission | Long-distance

Testing environment: 500m RG59/U coaxial cable

HDCVI: Little color bias

HDTVI: Become black & white, and blur

Transmission | UTP

Testing environment: **200m CAT5E** network cable

HDCVI: Normal, no attenuation

HDTVI: Serious attenuation, along with color cross-talk

Transmission | Delay

HDCVI: 78ms

HDTVI: 94ms

Transmission | Multi-signal

HDCVI v1.0: Video, audio & two way communication composite transmission.

HDCVI v2.0: Video, dual-way audio & two way communication composite transmission, Coax upgrade…

?

HDTVI v1.0: Video signal only

HDTVI v2.0: Video, audio & two way communication composite transmission.

Round 3

Design

Design | IR bullet

Dahua

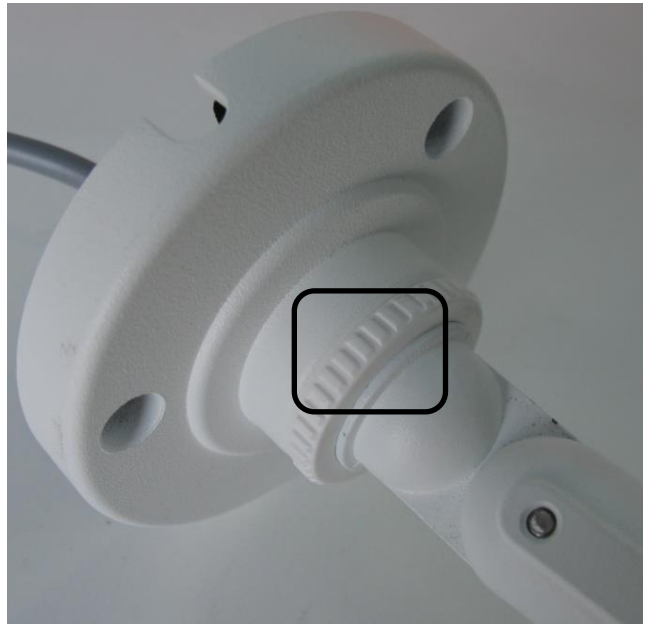
Hikvision

You can easily find the chromatism on Hik’s camera. While with strict quality control, Dahua guarantees the uniformity.

Design | IR bullet

Dahua

Hikvision



Dahua’s design guarantees both natural appearance and smooth feeling of screwing after professional force analysis.

Design | IR bullet

Dahua

Hikvision

Dahua’s product presents more delicate appearance and texture

Design | Eyeball

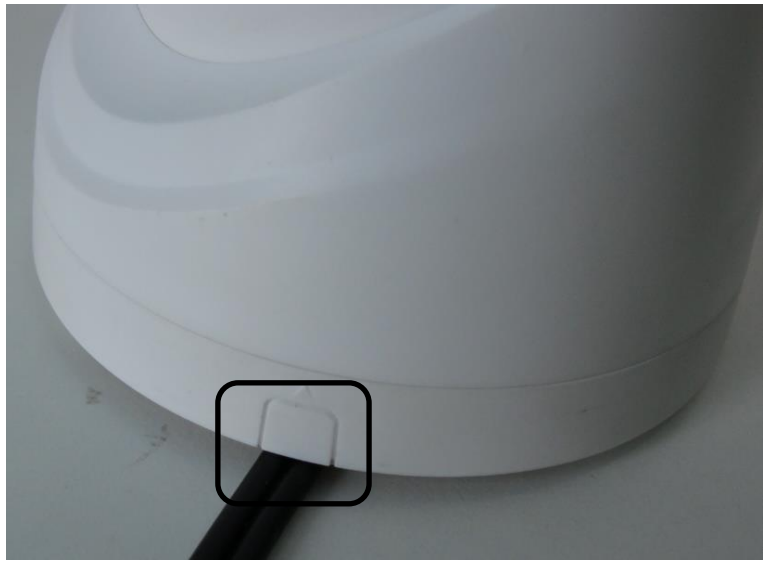
Dahua

Hikvision

The compact craftsmanship of Dahua ensures smaller gap between components.

Design | Eyeball

Dahua

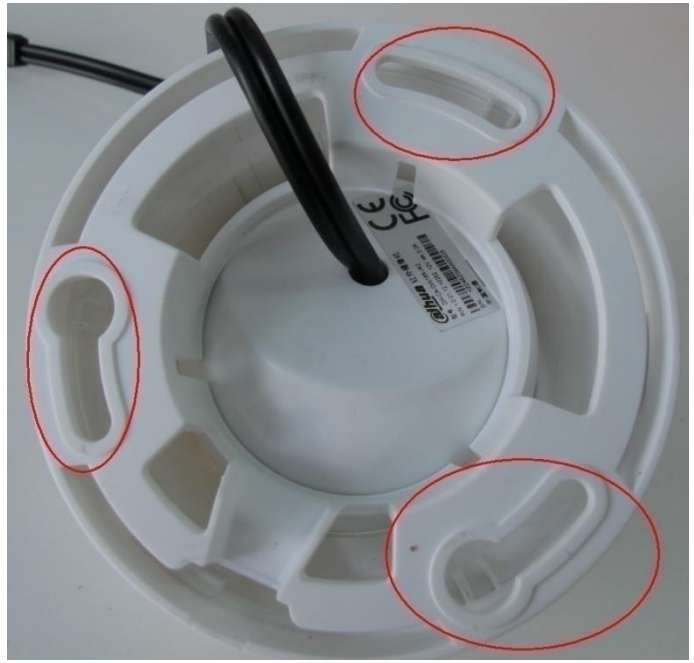


Hikvision

The side exit cable design of Dahua’s camera makes it adapt to various installation environment.

Design | Eyeball

Dahua

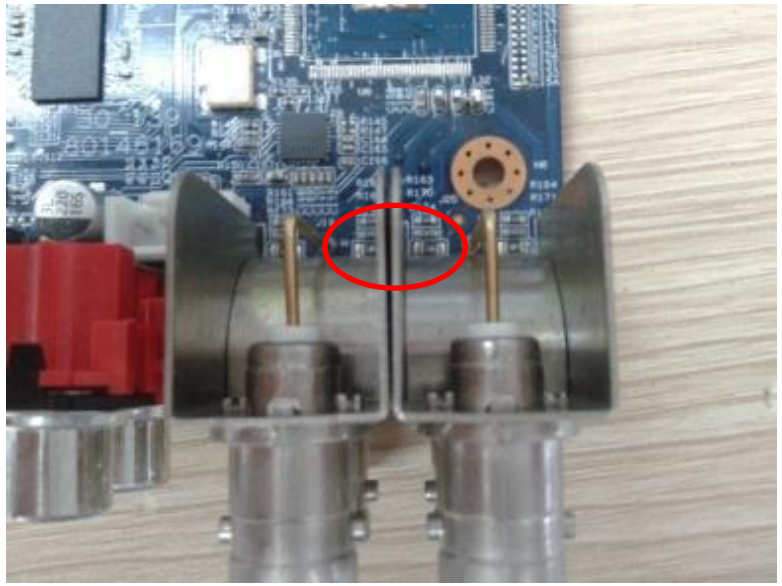


Hikvision

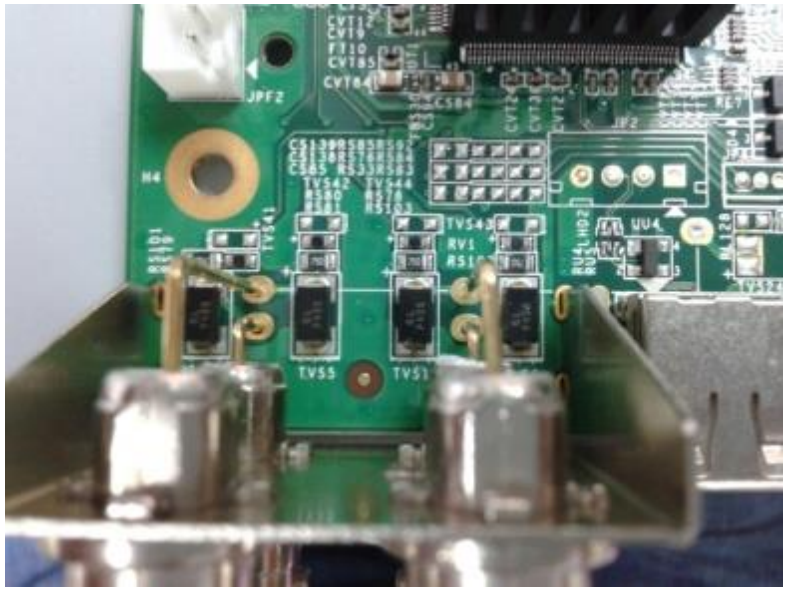
The quick installation holes of Dahua’s camera make installation a lot easier and more convenient.

Design | DVR

Dahua



Hikvision



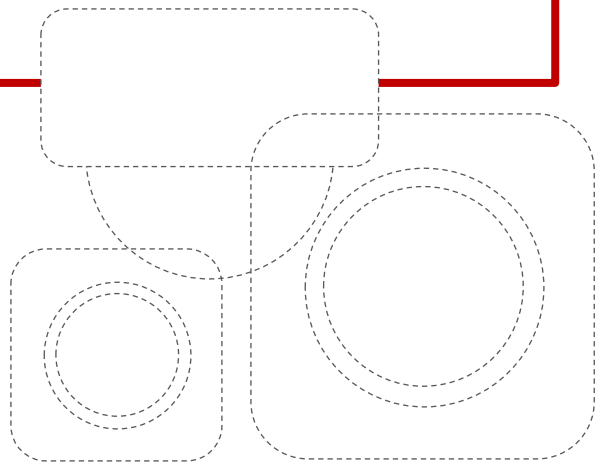
Prevention measures are taken in case of interferences among channels.

Design | Summary

What we want to say

We firmly believe that **details** determine success or failure.

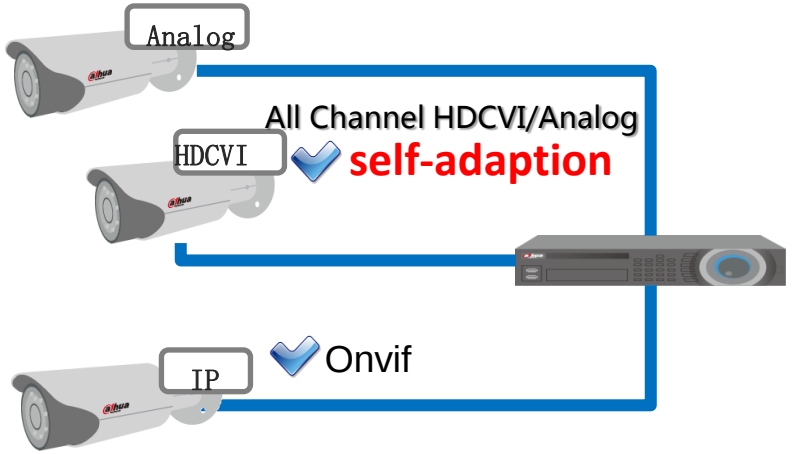
We design our products with **craftsman's perseverance**.



Round 4

Functionality

Functionality | Compatibility



HCVR : HDCVI/Analog/IP tri-brid input

HDTVI v1.0: Hybrid (HDTVI&Analog).

Functionality | Face Detection

dahua TECHNOLOGY

HIKVISION

?

Functionality | Playback

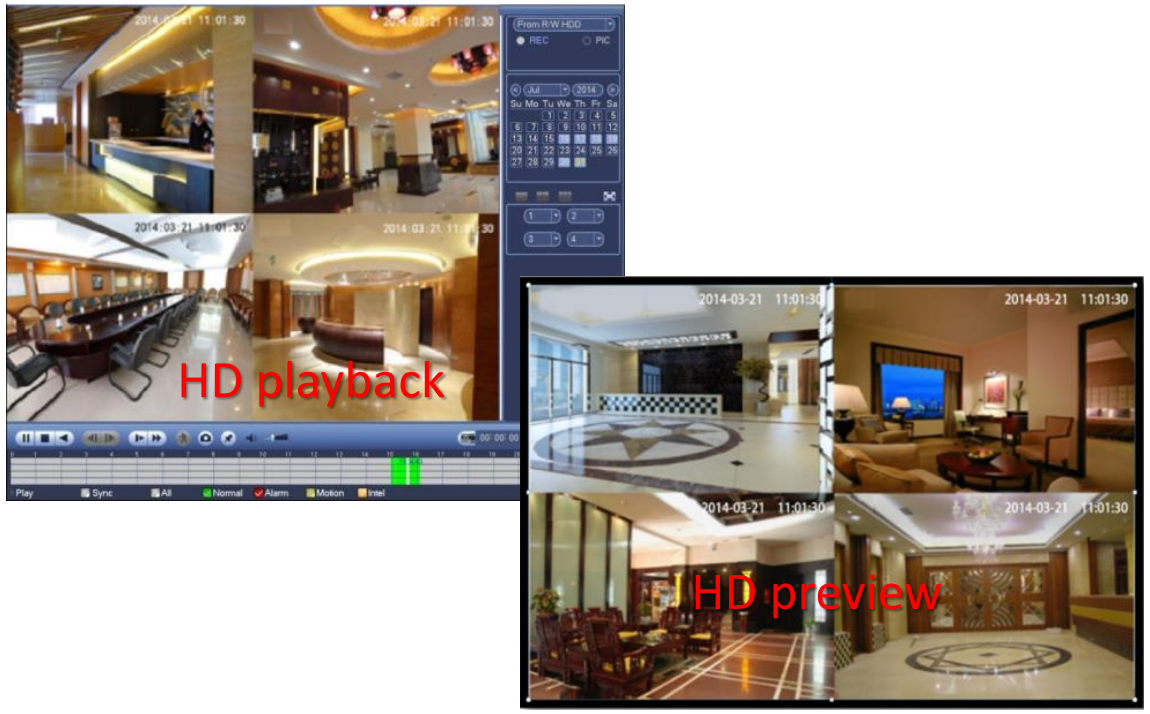
HCVR : All channel (up to 16) real-time playback

Hik's DVR: 4 channel real-time playback

Functionality | Video Quality Diagnosis

HCVR : More options available

Functionality | Interface



HCVR : 2 HDMI output, easily implement HD preview & HD playback monitor at the same time

Summary

Summary

- ✓ Better color rendition
- ✓ Better exposure control
- ✓ Crisp image with rich details
- ✓ Better IR performance, both indoor & outdoor
- ✓ Much better long-distance performance
- ✓ Lower delay
- ✓ Calculated design
- ✓ More powerful functionality

A much more mature performance, presented by a much more mature technology

KING HDCVI
High Definition Composite Video Interface

THANK YOU!

www.dahuasecurity.com