



IPC Product Lines Roadmap

· Zhejiang Dahua Technology CO., LTD

Overseas Business Center

Product map

Network Camera

Retail Market

- Vari-focal lens
 - 2000 series
- Fixed Lens
 - 1000 series

Lite series

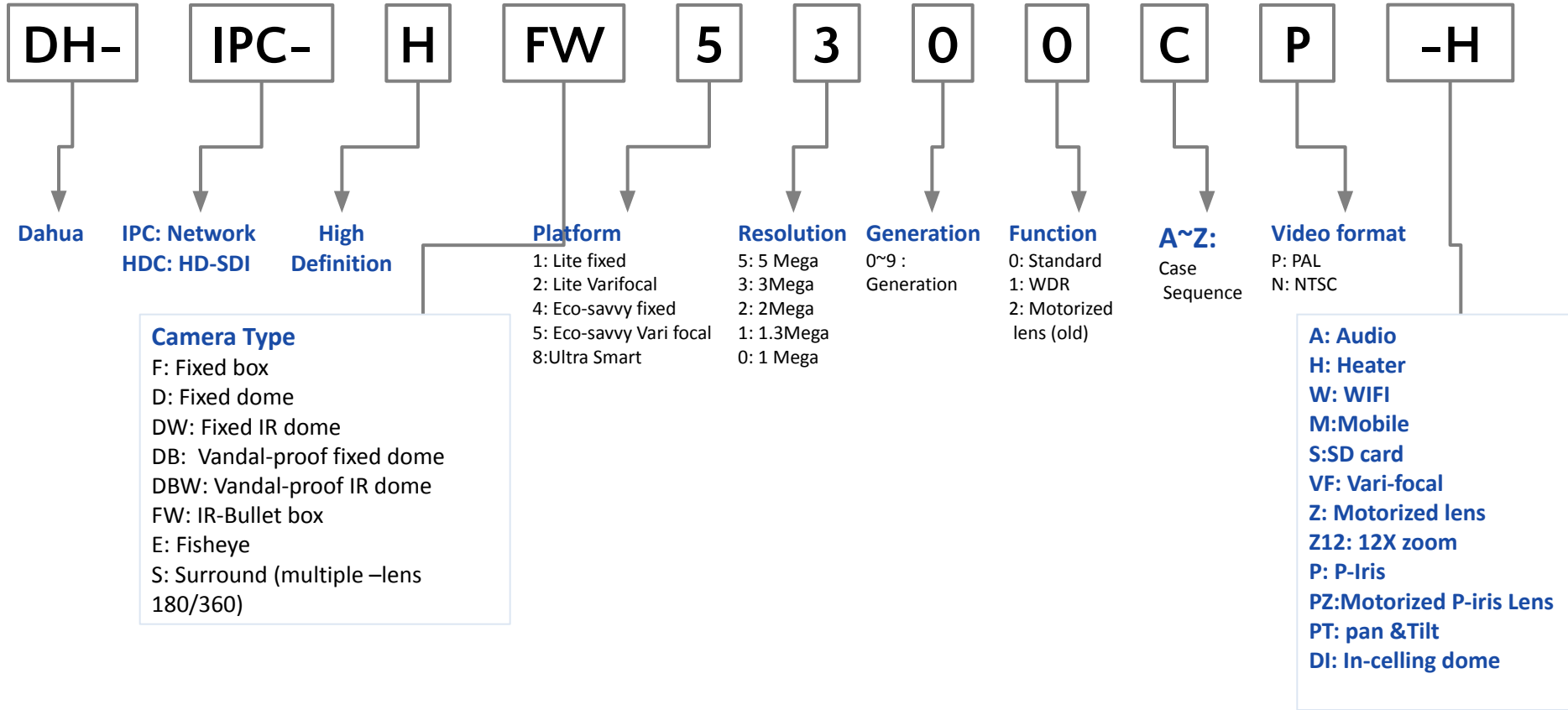
Project & Powerful & Special (8000 series)

- 4K Ultra-HD camera(HF81200E)
- Covert camera(HUM8101)
- Light-hunt series (8281 series)
- Fisheye product(EBW8600/81200)
- 3Megapixel WDR camera (8301 series)

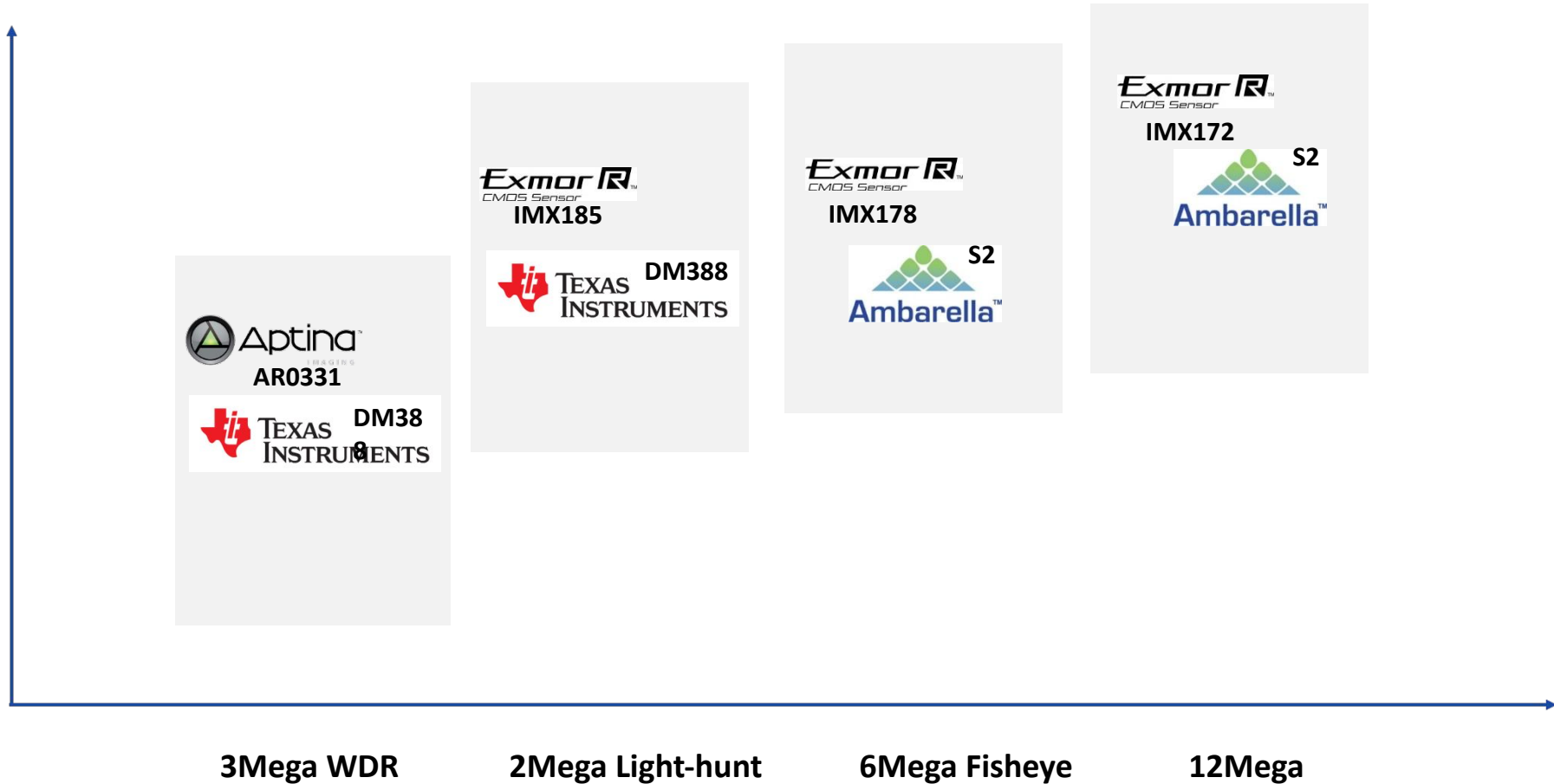
Industry & Commercial

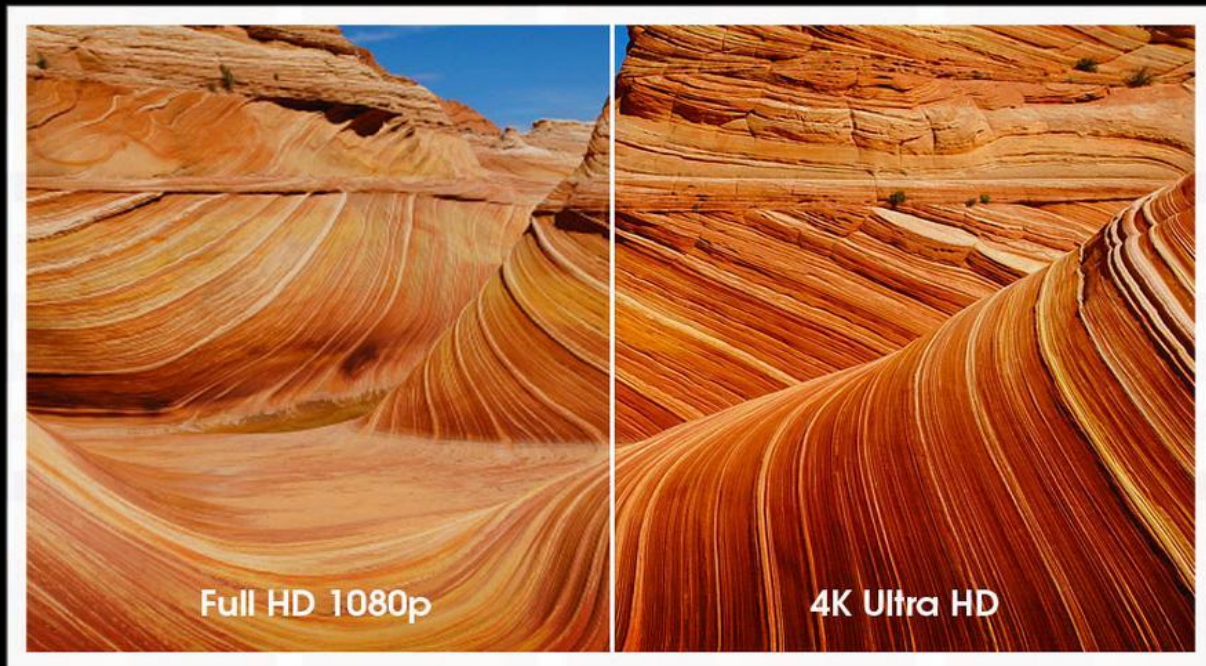
- Vari-focal lens
 - 5000 series
- Fixed lens
 - 4000 series

Name Rule



Ultra Smart





- **3840x2160 (UHD)**
- **@30fps**
- **Four times bigger than 1080P**
- **Incredible details than FHD resolution**

IPC-HF81200E



- Max resolution up to 12Mega
- IR mode support (Day&Night)
- IP66 & IK10 protection
- PoE (802.3af)/ DC12V

IPC-EBW81200 (4K resolution)

IPC-EBW8600 (6Mega)



- 1/1.9 Sony Exmor low illumination Sensor
- Max 1080P@60fps
- Minimum illumination 0.005 lux/F1.2 (Color)
- Box , Bullet , Dome
- Video Analysis function support

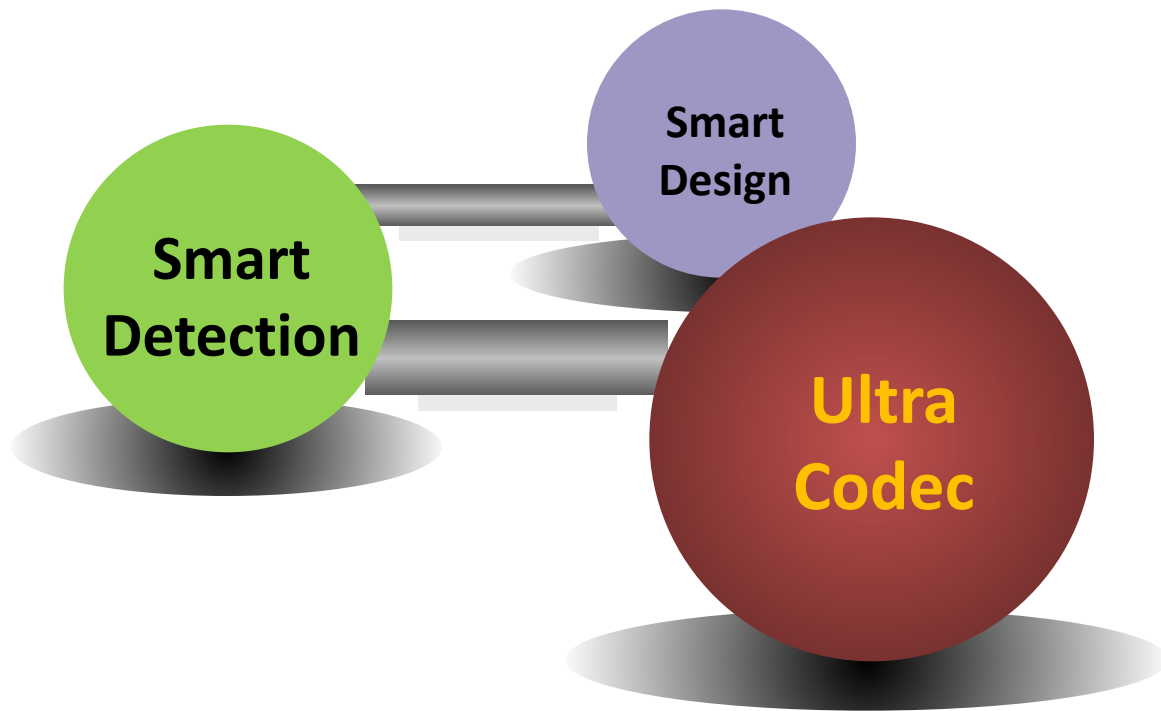
IPC-HF8281E

Upcoming

IPC-HFW8281E-VF/Z

IPC-HDBW8281-VF/Z

What is Ultra-Smart IPC?



- Triple streams
- Ultra 3DNR
- Ultra Defog
- Ultra WDR
- Corridor mode
- Smart IR
- ROI
- EIS
- SVC

Triple streams

- Three streams supported, each stream can have their own codec, frame, bitrate
- Two stream can support FHD resolution, one stream for mobile phone.



Stream1



View

Stream2



Record

Stream3



Mobile

Ultra 3DNR

- Reducing more image noise.
- Make clear image in low-light environment.



3DNR on

3DNR off

Ultra Defog

- Enhance the contrast
- Make clear image in foggy environment.



Defog on



Defog off

Ultra WDR

- Up to 120dB range
- Make clear image in sharp contrast environment



WDR on



WDR off

Corridor mode

•Support 9:16 Image ratio , suit for corridor monitoring



Smart IR

- Protect the image from over exposure



Smart IR on

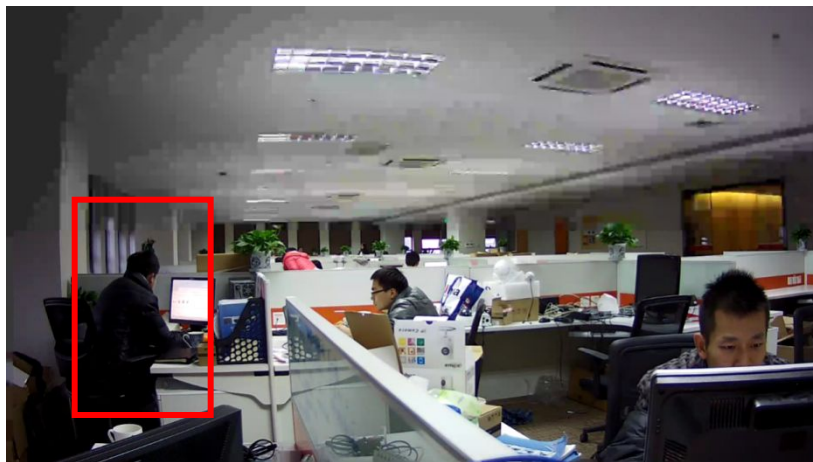
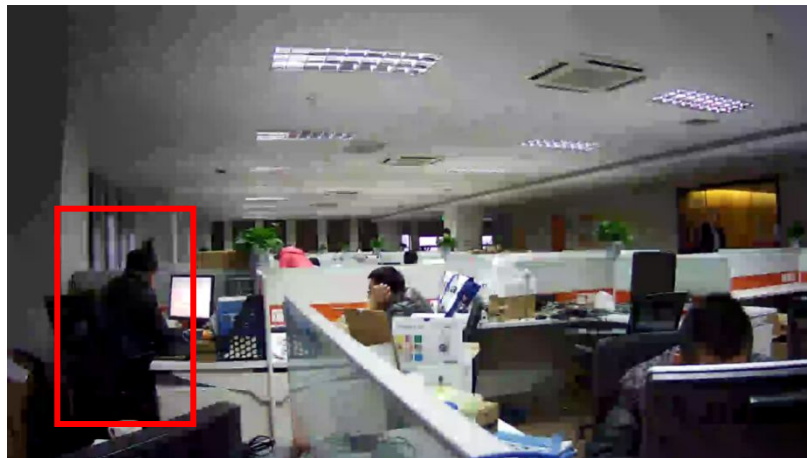


Smart IR off

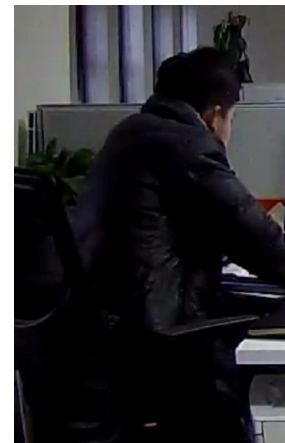
ROI

Region of interest

- Make important region clear in the low bitrate.
- Saving the storage usage



ROI off



ROI on

EIS

Electrical image stabilizer

Keep the image stable and clean



EIS on



EIS off

SVC

Scalable video coding

Co-working with NVR support SVC decode, the stream or record can be further compressed by dropping frame, saving **75% storage usage and reduce **75%** transport pressure at most.**

Benefits:

- Better network compatibility, protect the data from losing in a bad network**
- NVR can replay in a low bitrate, saving the resource of network**
- To a SVC stream, get a 30fps stream for preview while get a 15fps stream for record.**

Tripwire detection

Intrusion detection

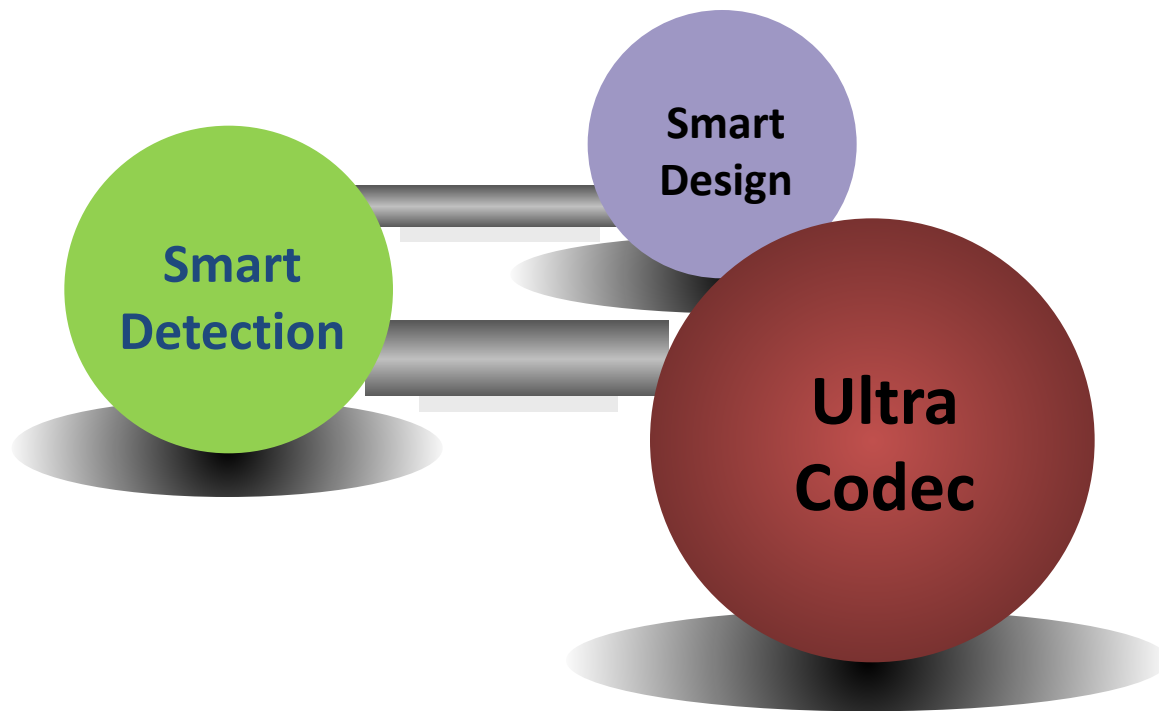
Abandoned/Missing

Defocus detection

Defocus detection

Face detection

Audio detection



Smart Detection

Tripwire detection



Intrusion detection



Smart Detection

Abandon object detection



Missing object detection



Smart Detection

Defocus detection



Face detection

2013-10-19 19:31:48 匹配人员照片

相似度: 82%

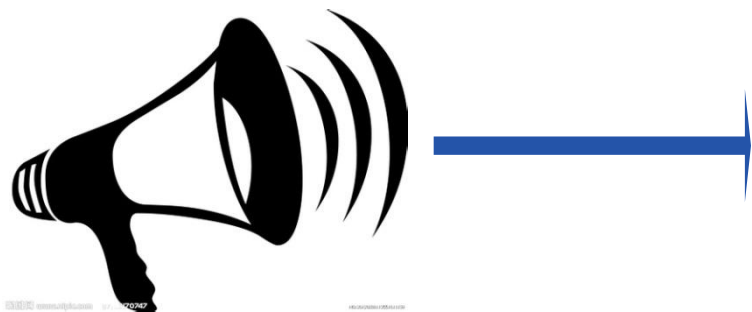
匹配人员信息			
姓名:	吴益平	性别:	男
省份:	浙江	城市:	金华
证件类型:	护照	证件号码:	336945575124
		出生日期:	1970-01-01
		注册等级:	1
		注册类型:	白名单

检测时间: 2013-10-19 19:31:42

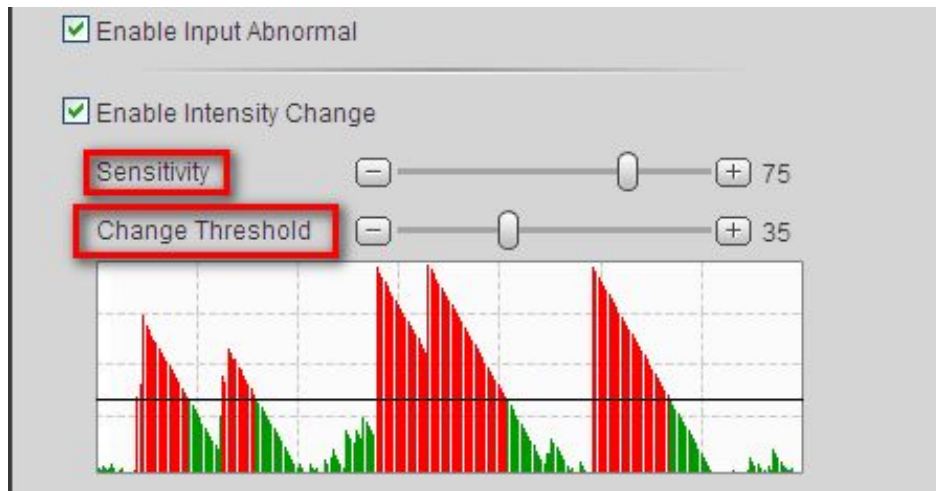
下一个

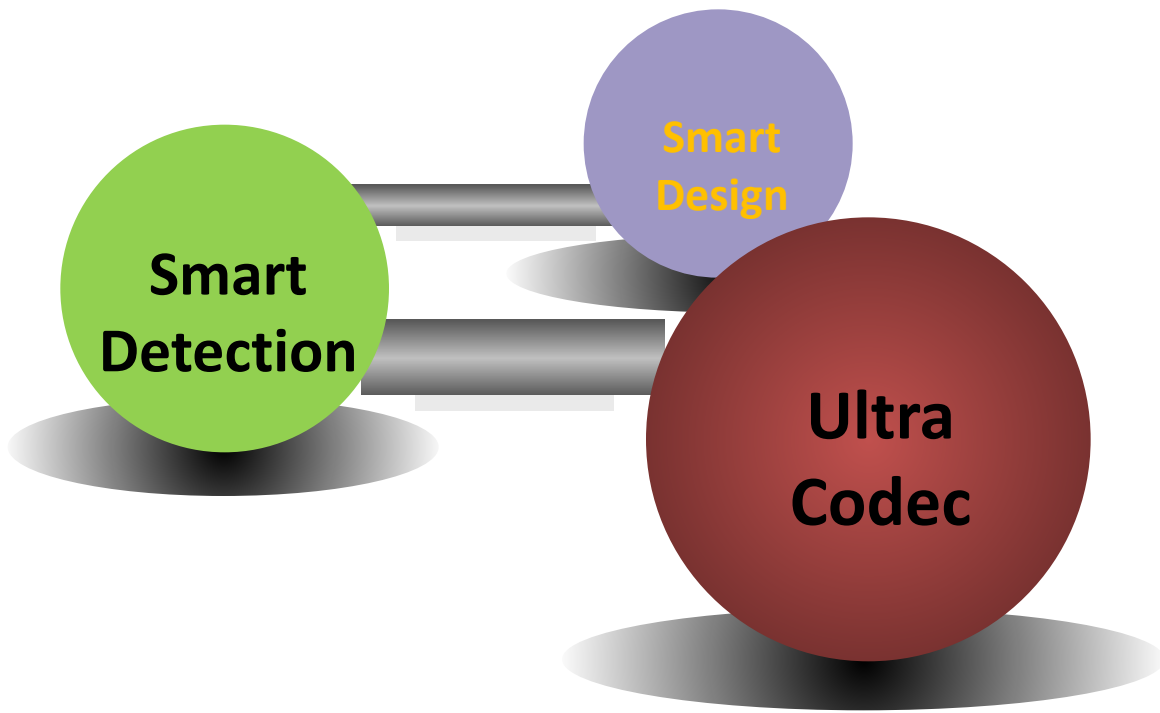
Smart Detection

Audio detection



- Input abnormal detect
- Audio intensity change detect





New case

Box camera

Bullet camera

New case

“E” Series Case

- Streamline design thought
- Easy to use design idea
 - a) Box camera support ABF function
 - b) Bullet camera support manual focus outside
- Classic color combination black & white
- Contain Box Bullet (mini), Dome (mini)



Box camera



- aluminum alloy metal structure
- Excellent heat dissipation

- ABF(Auto back focus)
- Easy to focus

Bullet camera



aluminum alloy metal structure

Efficient heat dissipation

- Smoke glass, hidden IR LED
- Efficient array Led, up to 30 meters distance
- IP66 design

Manual focus outside

SD card easy installed

- **Commercial & industry product**
- **4000 Series Fixed lens**
- **5000 Series Vari-focal lens**
- **Various product optional**
- **Reliable quality**
- **Ambarella platform**

Eco-savvy Series

Eco-savvy Chipset Feature

A5

Green technology

- ✓ **Low consumption**: save half energy cost
- ✓ **Efficient codec**: maximum save 75% bitrate than normal camera.
- ✓ **Less storage**: Saving maximum 75% storage cost

Green technology

Perfect image performance

Efficient codec :save your network & storage

Image processing technology

- ✓ **Real 3D DNR technology**: provide wonderful low light performance
- ✓ Nice image performance under low bitrate.

Ambarella VS TI

A5s

TI365/
368

	A5s	TI365/ 368
Power consumption	lower	Higher
3DNR	Supported	N/A
Low lux	Better	Normal
bitrate	Lower	Higher
Life time	Longer	Normal

- **Low bitrate**
- **Ultra Low illumination**
- **Low consumption**

- **Stylish product**
- **Smart IR infrared tech**
- **Core ISP technology**
- **Stable & efficient system**

Low bitrate

- Maximum save 75% bitrate
- 1080P resolution storage space same with D1 resolution
- Image quality is better than Ti product but only take $\frac{1}{4}$ bandwidth

720P@4Mbps (Ti Platform)

720P@1Mbps (Ambarella Platform)

Benefit of low bitrate

- Save the network bandwidth Easy for you to build the network for the Project solution
- Save the storage space maximum save 75% HDDs, easy to build storage center

- Save electricity cost

Storage calculate

System	Resolution	Bitrate	Time (hour)	Time (day)	Camera amount	HDD (GB)	HDD (TB)	HDD (TB)	HDD amount (per/1TB)
	1080P	2	24	30	100	63281.25	61.80	68.66	77.00
	1080P	8	24	30	100	253125.00	247.19	274.66	306.00

- 100 channels 1080P/2Mbps record one month, **save HDDs 206 per month**, save HDDs 7 per day.
- Each HDD's consumption 12 Watt, one year HDD can save power like follow:
100 channels 1 year=12W*24H*7(HDD)*365(day)=735 840W

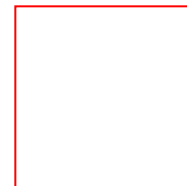
Ultra Low illumination

- Ultra 3D DNR supported
- Provide bright , low noise ,clear picture in the low-lux scene

Color



B/W



Night view performance



Low consumption

5.76W (Ti Platform)



3W (Ambarella Platform)



New product nearly save 50% power consumption, make the product green and long time using

Smart IR infrared tech

- Provide smooth night view
- Fixed closed object over exposure issue when IR on
- Save the power consumption



Core ISP technology

- Perfect color reproduction
- Great white balance display
- Keep lot of details

Dahua



Other



Core ISP technology

- Provide over 75dB WDR by latest ISP technology
- Offer better High light control(HLC) performance

DWDR ON



DWDR off

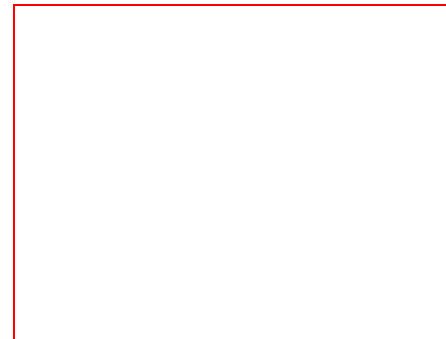
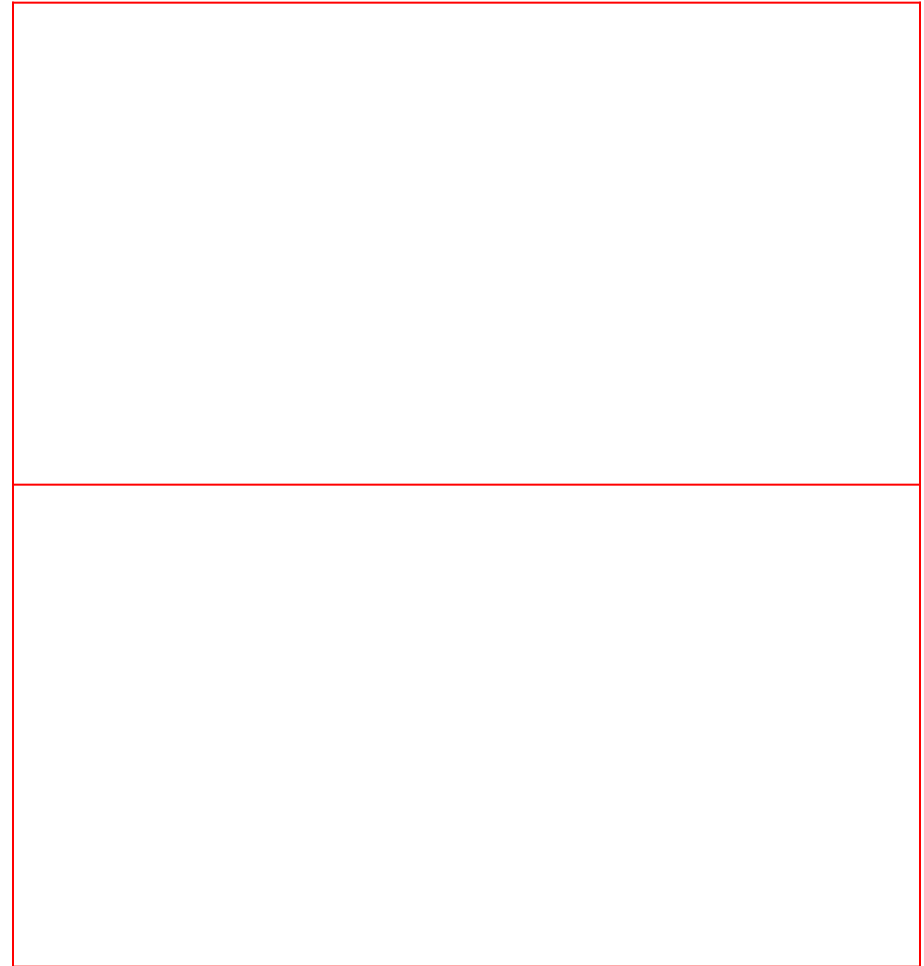


table & efficient system

- 6 users view 1080P video under 4Mbps bitrate at same time
- 100 meters, data packet is not lost
- Dual system backup make the system more stable



Eco-savvy -Varifocal

5Mega		HFW5502C-(L)(H)	HDBW5502	
3Mega		HFW5300C-(L)(H) HFW5302C-(L)(H)	HDBW5300 HDBW5302	HFW5300E-VF HFW5300E-Z
2Mega	HF5200	HFW5200C-(L)(H) HFW5202C-(L)(H)	HDBW5200 HDBW5202	HFW5200E-VF HFW5200E-Z HFW5200E-Z12
1.3Mega	HF5100	HFW5100C-(L)(H)	HDBW5100	HFW5100E-VF

Eco-savvy - Fixed lens



3Mega

HFW4300S

HDW4300S

HDB4300C-(A)

HFW4300E

HDBW4300E-(AS
)

HDB4300F-PT

2Mega

HFW4200S

HDW4200S

HDB4200C-(A)

HFW4200E

HDBW4200E-(AS
)

HDB4200F-PT

1.3Mega

HFW4100S

HDW4100S

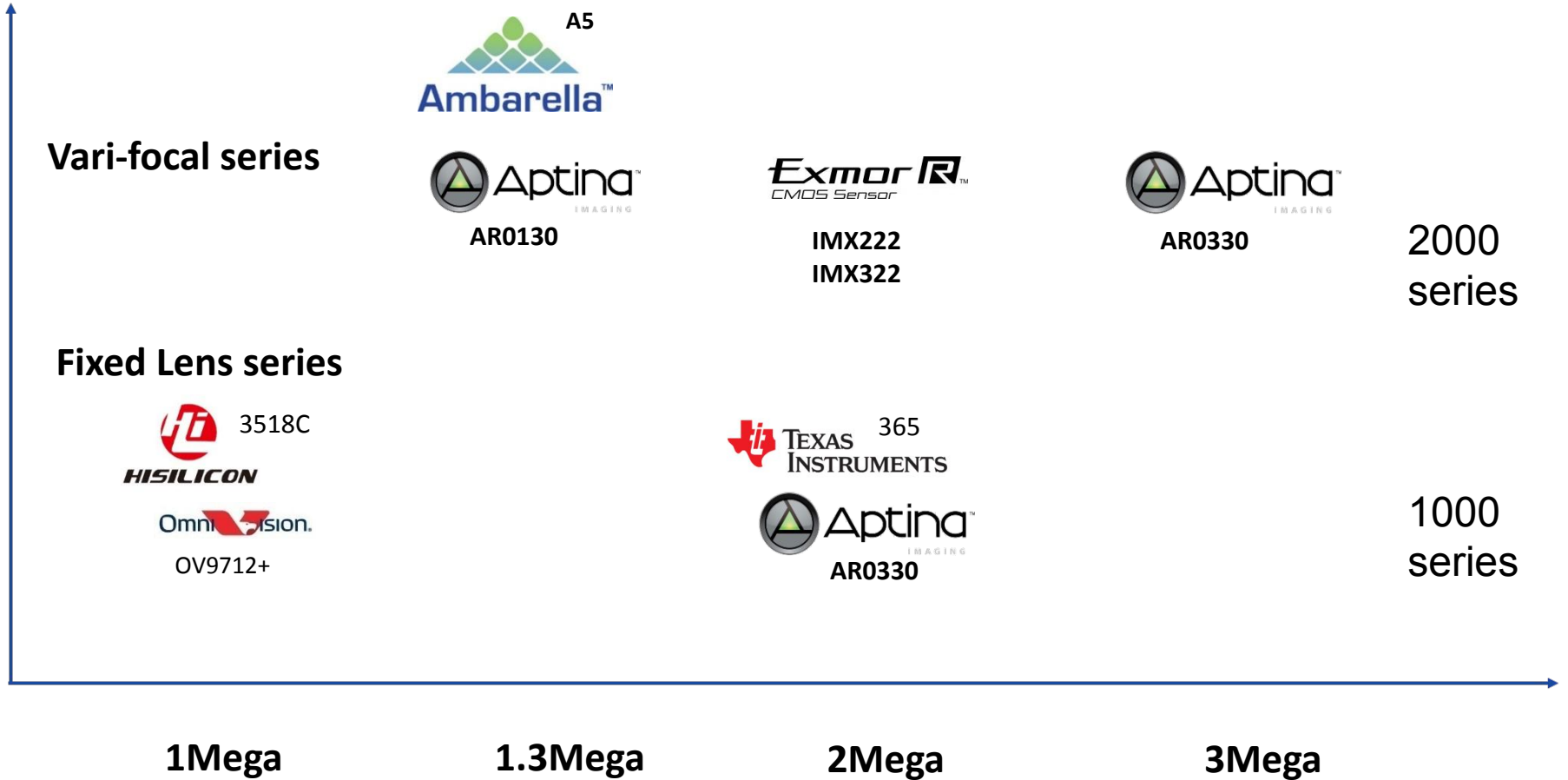
HDB4100C-(A)

HFW4100E

HDBW4100E-(AS
)

HDB4200F-PT

Lite Series



Lite -Varifocal



3Mega	HFW2300R-VF HFW2300R-Z	HDBW2300R-VF HDBW2300R-Z
2Mega	HFW2200R-VF HFW2200R-Z	HDBW2200R-VF HDBW2200R-Z
1.3Mega	HFW2100R-VF HFW2100R-Z	HDBW2100R-VF HDBW2100R-Z

Lite -Fixed lens



2Mega	HFW1200S	HDW1200S	HD1200C	HDBW1200E-(S)
1Mega	HFW1000S	HDW1000S	HD1100C	HDBW1100E-(S)

Consumer Camera



2Mega	K200	C20(S)
	K200A	
	K200W	
1.3Mega	K(W)100	
	K(W)100A	
	K(W)100W	
1Mega	KW10/12(W)	C10(S)

S :Sport (contain battery)



***Dahua Technology
Make Your Life Safer***