



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

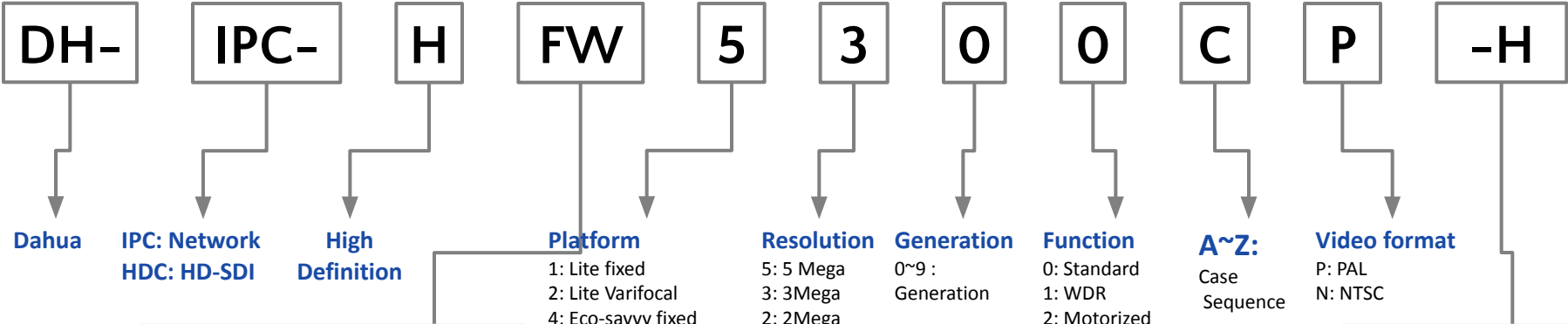
Project & Powerful & Special (8000 series)

- 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



Camera Type
F: Fixed box
D: Fixed dome
DW: Fixed IR dome
DB: Vandal-proof fixed dome
DBW: Vandal-proof IR dome
FW: IR-Bullet box
E: Fisheye
S: Surround (multiple –lens 180/360)

Platform
1: Lite fixed
2: Lite Varifocal
4: Eco-savvy fixed
5: Eco-savvy Vari focal
8: Ultra Smart

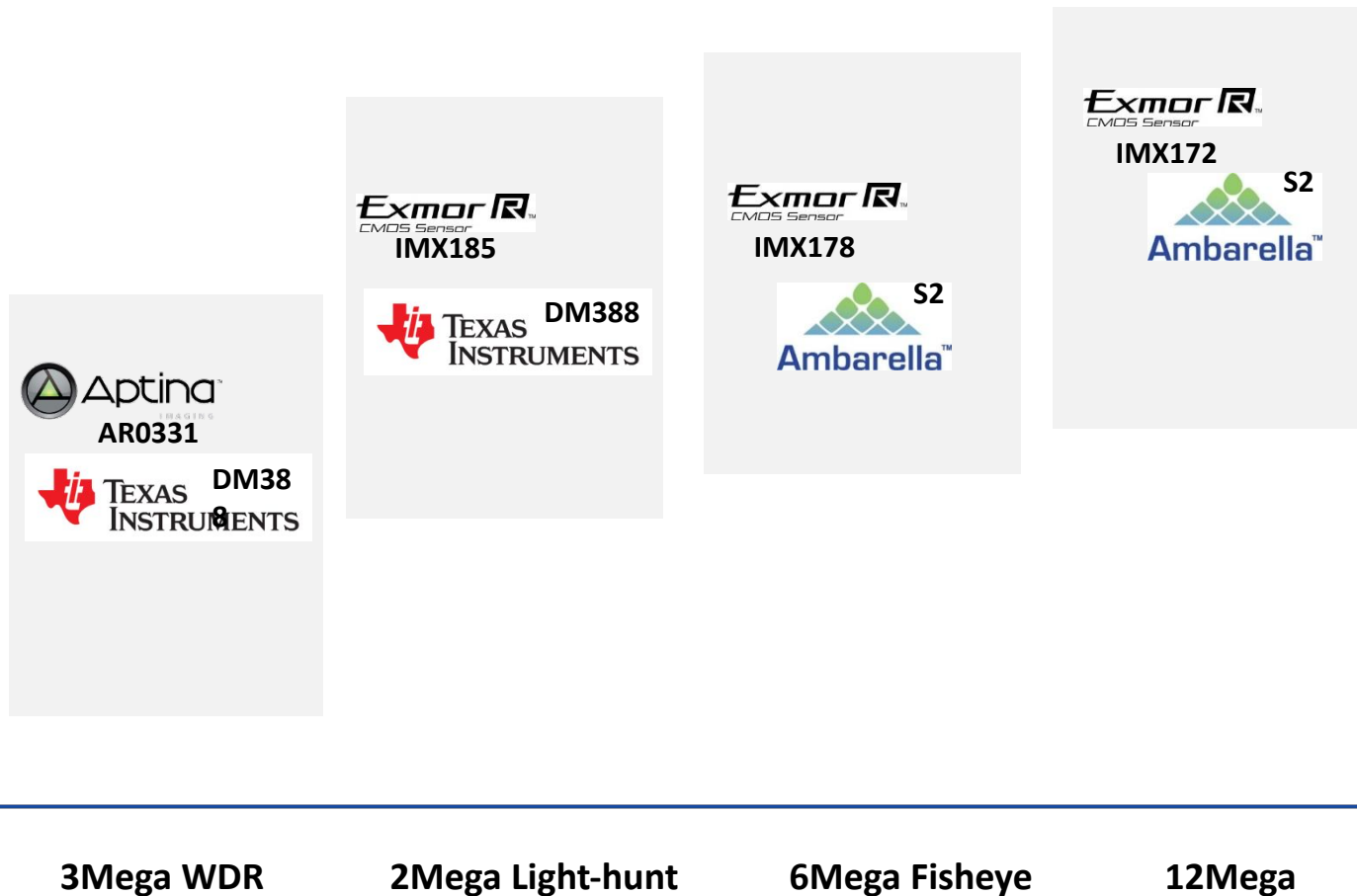
Resolution
5: 5 Mega
3: 3Mega
2: 2Mega
1: 1.3Mega
0: 1 Mega

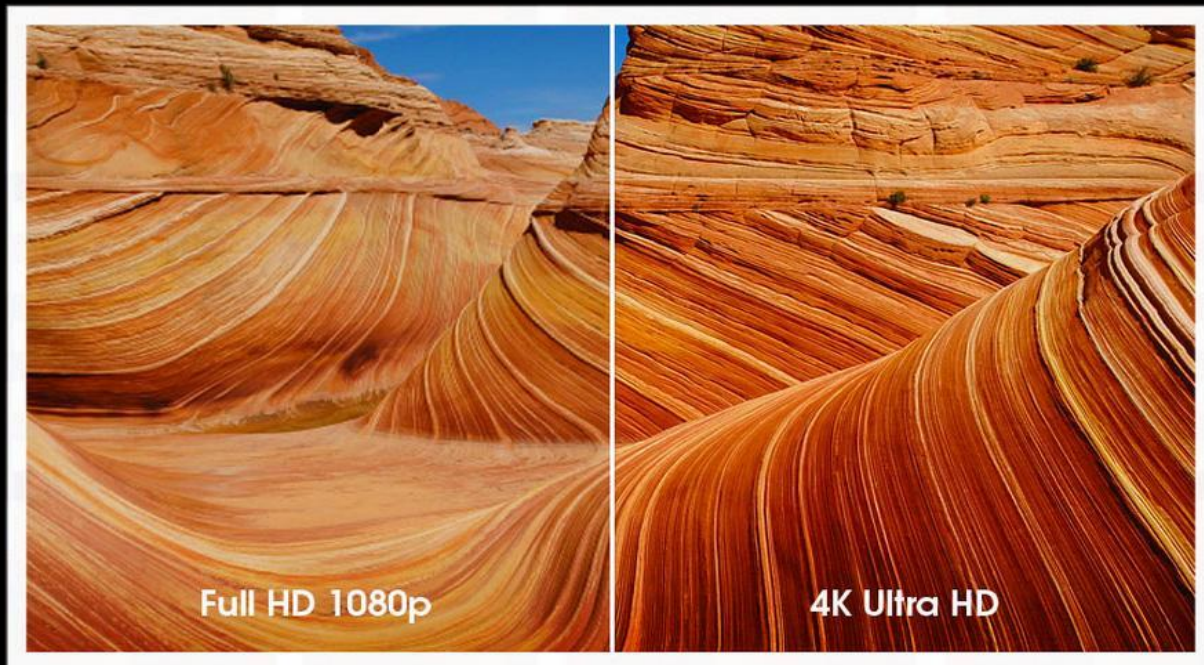
Generation
0~9 :
Generation

Function
0: Standard
1: WDR
2: Motorized lens (old)

A: Audio
H: Heater
W: WIFI
M: Mobile
S: SD card
VF: Vari-focal
Z: Motorized lens
Z12: 12X zoom
P: P-Iris
PZ: Motorized P-iris Lens
PT: pan &Tilt
DI: In-celling dome

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

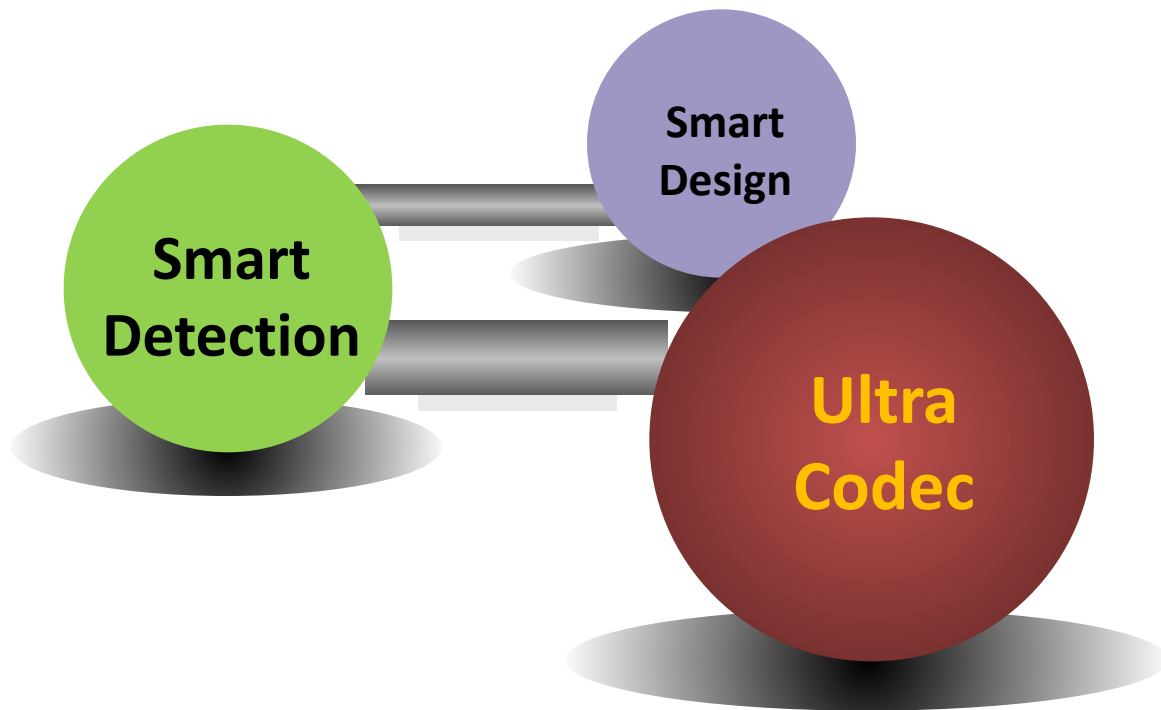
IPC-HF8281E

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

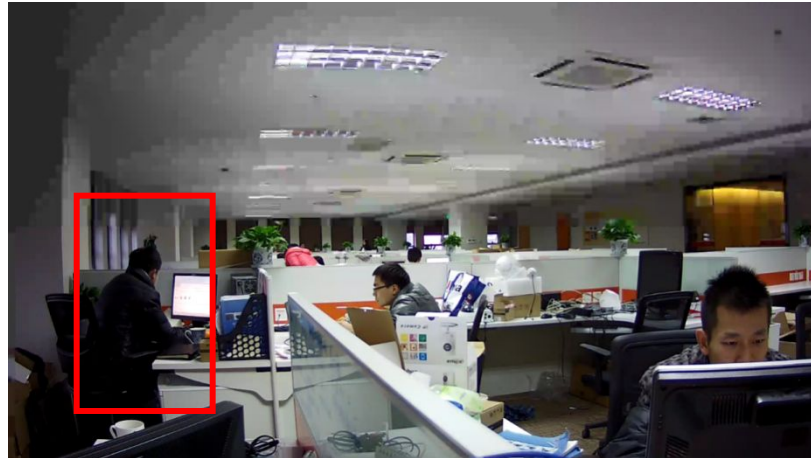
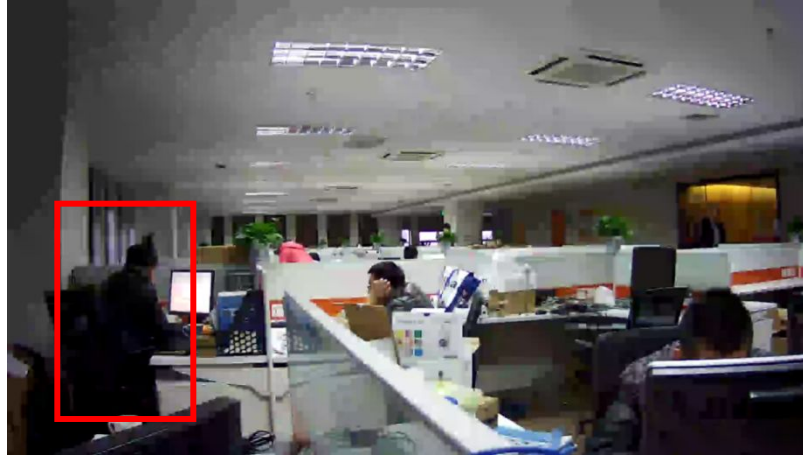


Smart IR off

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

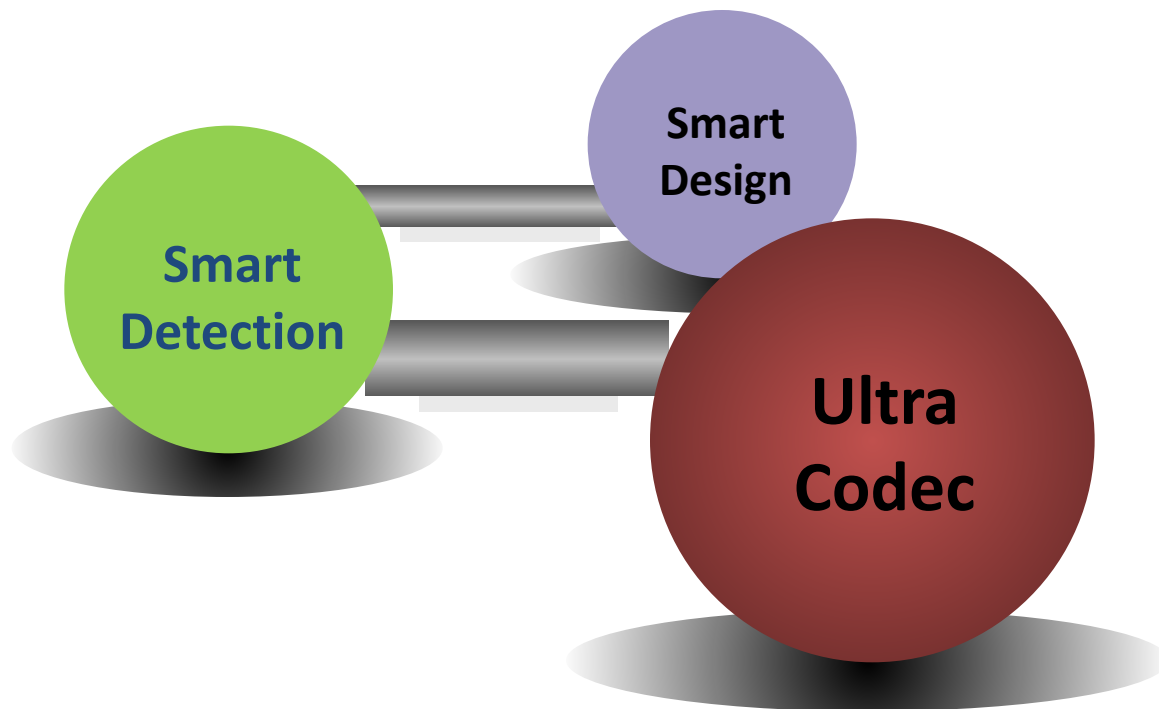
Abandoned/Missing

Defocus detection

Defocus detection

Face detection

Audio detection



Smart Detection

Tripwire detection

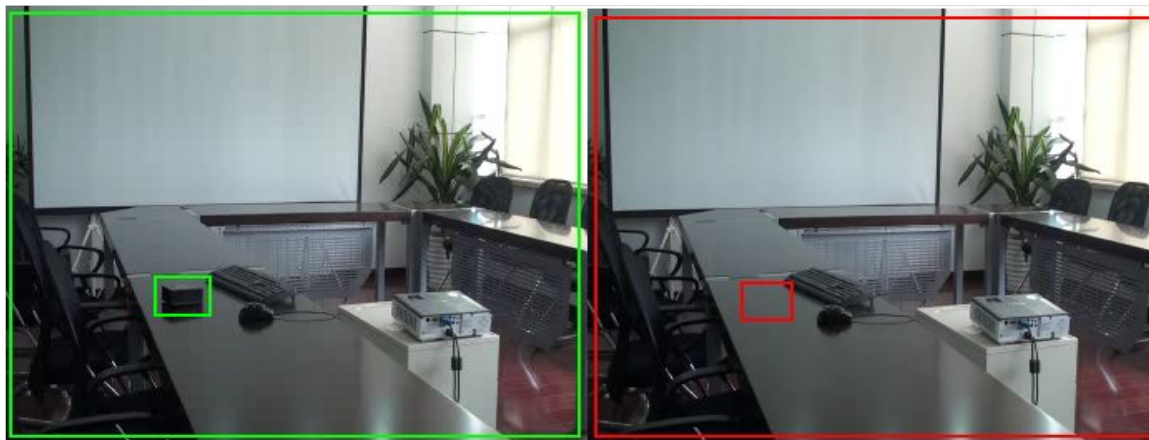


Intrusion detection

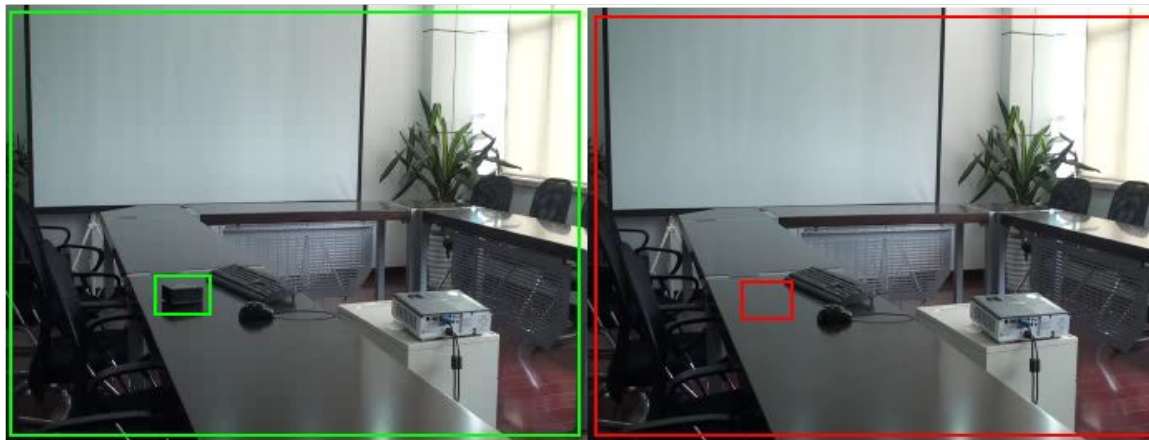


Smart Detection

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%

检测时间: 2013-10-19 19:31:42

匹配人员信息

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

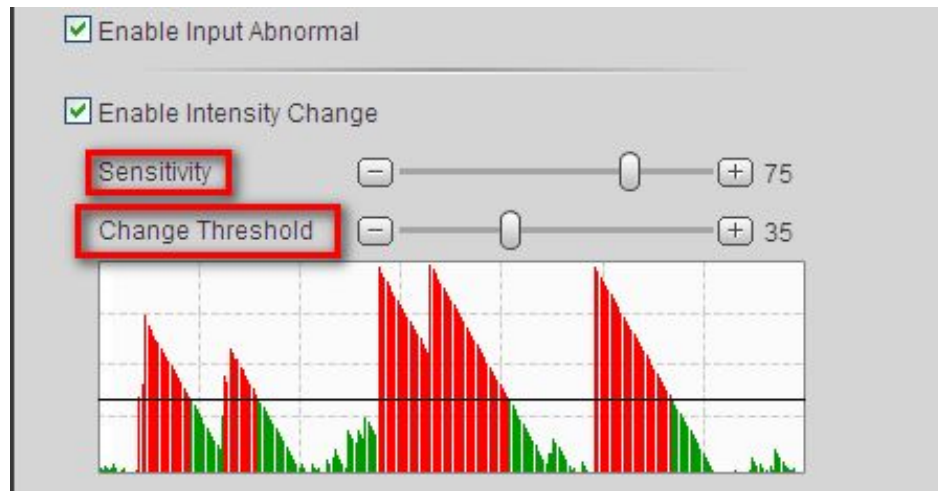
下一个

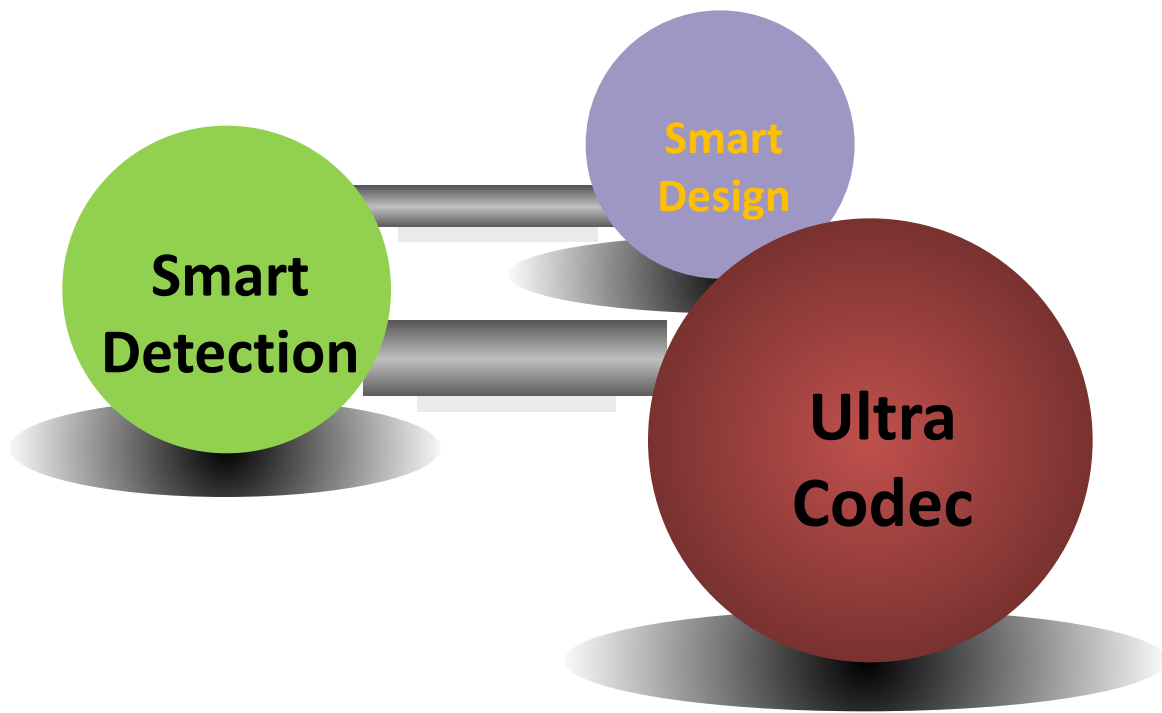
Smart Detection

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
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**

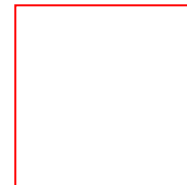
Ultra Low illumination

- 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



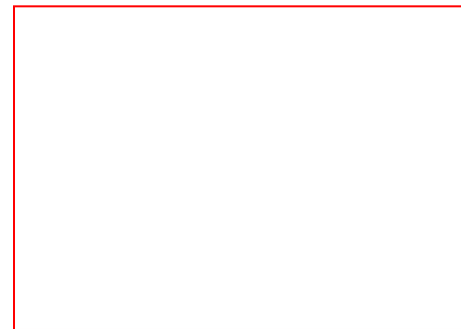
Other



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

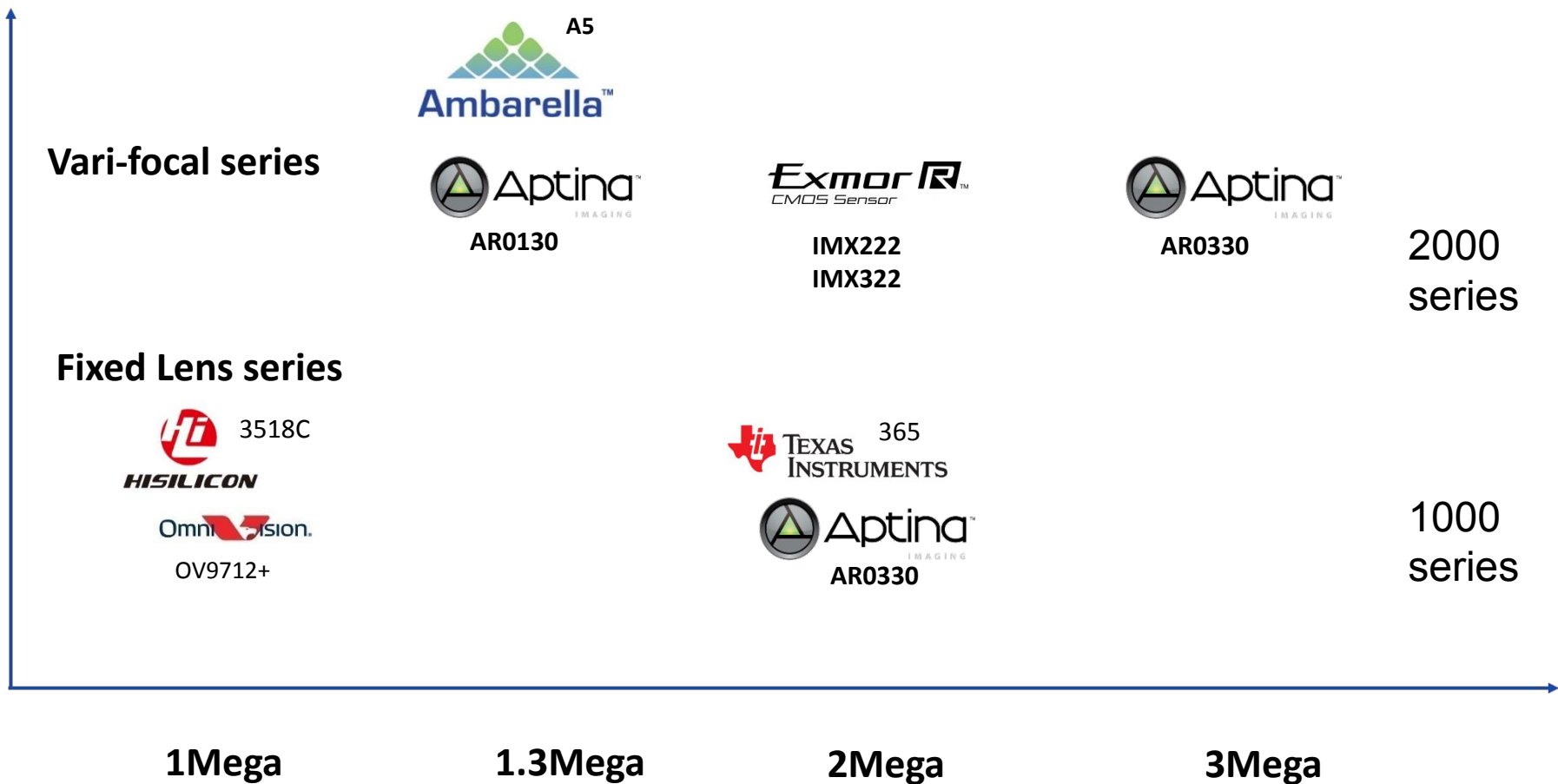
5Mega		HFW5502C-(L)(H)	HDBW5502	
3Mega		HFW5300C-(L)(H) HFW5302C-(L)(H)	HDBW5300 HDBW5302	HFW5300E-VF HFW5300E-Z
2Mega	HF5200	HFW5200C-(L)(H) HFW5202C-(L)(H)	HDBW5200 HDBW5202	HFW5200E-VF HFW5200E-Z HFW5200E-Z12
1.3Mega	HF5100	HFW5100C-(L)(H)	HDBW5100	HFW5100E-VF

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***