PTZ Introduction

Ultra /   Pro /   Value/   Special/   Analog
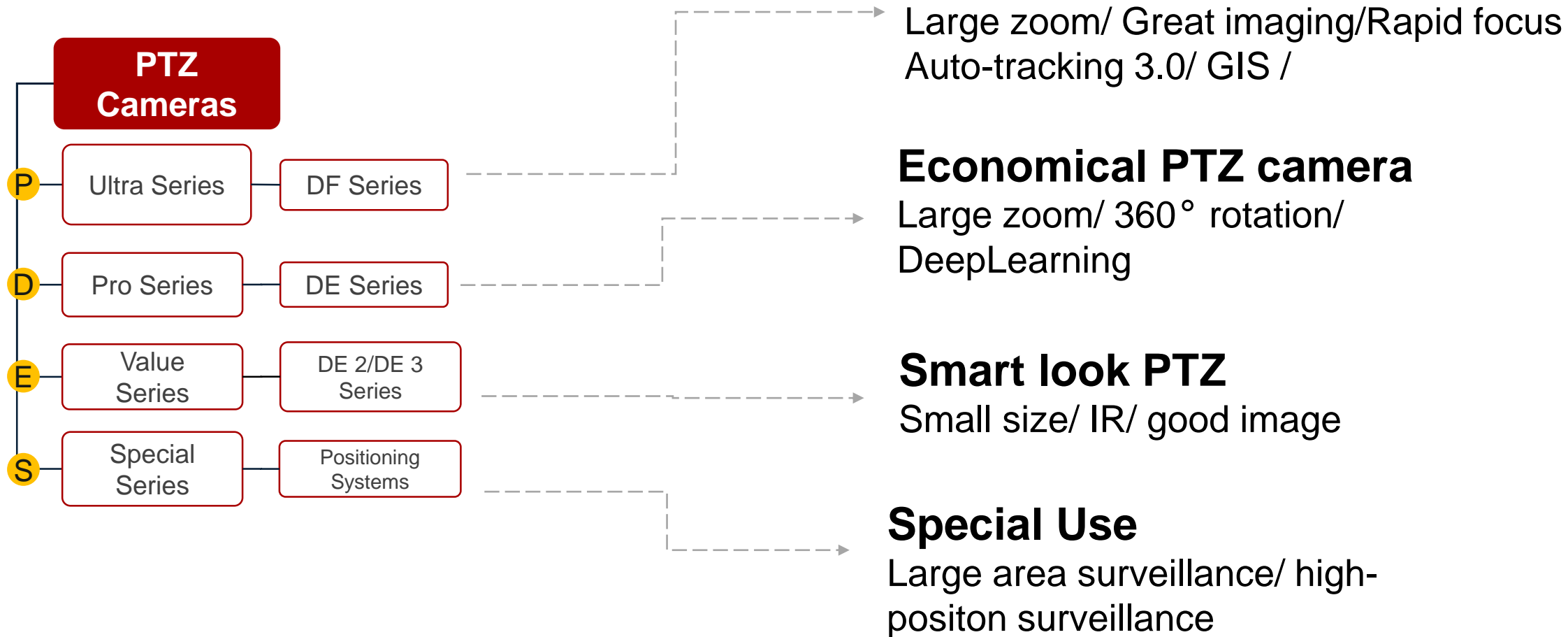
IP Product System (Front End)

HIKVISION®

IP Product Line

Network Cameras

- **P** DeepinView Series
  - 8 Series
  - 7 Series
- **P** Ultra Series
  - 5 Series
  - 4 Series
- **D** Pro Series
  - 2 Series
- **S** Special Series
  - Covert Series
  - Mobile Series

PTZ Cameras

- **P** Ultra Series — DF Series
- **D** Pro Series — DE Series
- **E** Value Series — DE 3/DE 2 Series
- **S** Special Series — Positioning Systems

Panoramic Cameras

- PanoVu Series
  - **D** PanoVu Mini
  - **P** PanoVu Camera
  - **P** PanoVu PTZ
- Fisheye Series
  - **P** Ultra Series
  - **D** Pro Series

Explosion-proof & Anti-corrosion Series

- **S** Explosion-proof Series
  - Camera
  - PTZ
- **S** Anti-corrosion Series
  - Camera
  - PTZ

Positioning

HIKVISION®

PTZ Cameras

P	Ultra Series	DF Series
D	Pro Series	DE Series
E	Value Series	DE 2/DE 3 Series
S	Special Series	Positioning Systems

High-end Project Camera
Large zoom/ Great imaging/Rapid focus
Auto-tracking 3.0/ GIS /

Economical PTZ camera
Large zoom/ 360° rotation/
DeepLearning

Smart look PTZ
Small size/ IR/ good image

Special Use
Large area surveillance/ high-positon surveillance

PTZ Family Highlights

Image

1
DarkFighterX

DF9C   DF8

- DarkFighterX imaging
- **ANPR / Face capture (DF9C)**
- **Sales Promotion**

2
DARKFIGHTER

DF8C   DF8A   DF8   DF6A
June

- DarkFighter
- **Face/ANPR tracking** (June)
- 25x/42x/ 48x (H2)
- GIS / Rapid focus

3
Powered by DarkFighter

DE series

- AcuSense 2.0
- 15x/32x

Function

5
Large Zoom

DF9C   DF8A   DF8
73x   60x (July) 50x

- 110° HOV
- **3 km detection distance**

4
Perimeter

DE7A   Bullet PTZ   Radar PTZ
        June   July

- **Audio & strobe light warning (no radar)**
- Dual lens cover large scene (bullet PTZ)
- Radar + PTZ linkage

6
Special

PT9A   VS435
Dual lens   Illegal parking

- Body structure
- **Illegal parking detection**
- Wrong driving detection

DF PTZ Key Features

HIKVISION

GIS/OIS
Image stabilization helps camera obtain a stable image even installed at a high area

High Resolution & DarkFighter/ DarkFighterX
2MP/4MP,Good night vision, 0.002Lux

IK10 & IP67

Auto-Homing
When the position of lens is changed accidently, it will return back automatically.

Rapid Focus
Focus Accurately and Fast

Face Capture / Plate Recognition

Auto-tracking 3.0
Support tracking specified target based on face image and plate number

AUTO TRACKING

5 Megapixel

Ultra Low Light

DarkFighterX - Only in HikVision

HIKVISION

DS-2DF8225IH-AEL
DS-2DF8225I5H-AEL

DS-2DF9C435IHS-DLW(T2)
DS-2DF9C245IHS-DLW(T2)

Features

- 4 MP DarkFighterX technology
- Face capture / ANPR
- Auto-tracking 3.0 – specific target tracking
- Rapid focus – instant focus without blurred image
- Auto wiper (DF9C)

Auto wiper video

DarkFighterX

Hikvision patented **DarkFighterX** technology has innovative dual-sensor design. One sensor captures B/W images with high brightness while the other captures colorful images. Two images integrate into a single, bright and colorful image.
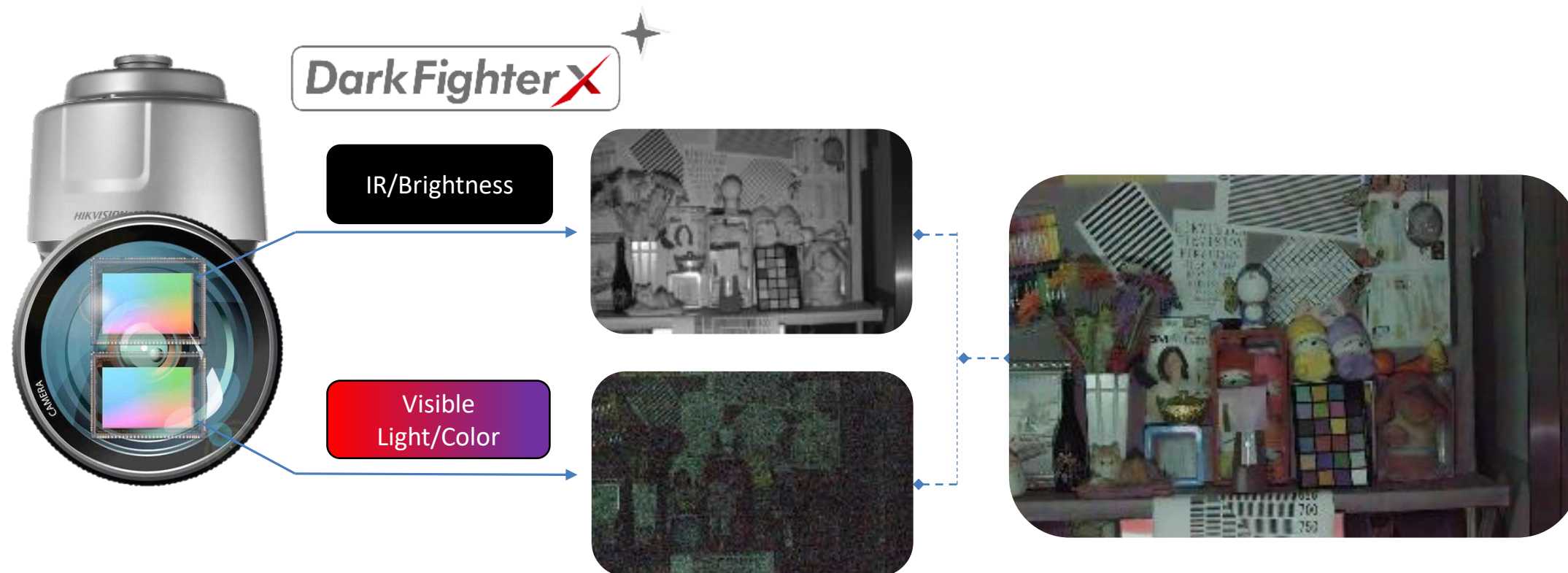
DarkFighterX Performance

Recorded by
conventional camera

Recorded by
DarkFighter camera

Recorded by
DarkFighterX camera

High Performance PTZ

DF9C IR

DS-2DF9C473IXS-DLW(T2)

DF8C IR

DS-2DF8C260IXS-AELW(T2)（Aug）
DS-2DF8C442IXS-AELW(T2)
DS-2DF8C842IXS-AELW(T2)

DF8 IR

DS-2DF8225IX-AELW(T3)
DS-2DF8242IX-AELW(T3)
DS-2DF8425IX-AELW(T3)
DS-2DF8442IXS-AELW(T2)

DS-2DF8250I8X-AEL(W)
DS-2DF8250I5X-AEL(W)

DF8A IR

DS-2DF8A442IXS-AEL(T2)
DS-2DF8A842IXS-AEL(T2)

DF6A Non-IR

DS-2DF6A225X-AEL(T3)
DS-2DF6A236X-AEL(T3)
DS-2DF6A425X-AEL(T3)
DS-2DF6A436X-AEL(T3)

Features

- 4 MP DarkFighter technology
- 73x/60x Super large FOV
- 50x optical zoom + Optical image stability
- Face capture / ANPR
- Auto-tracking 3.0 – specific target tracking
- Rapid focus – instant focus without blurred image

7"IR

DS-2DF7225IX-AEL
DS-2DF7232IX-AEL

6" Non-IR

DS-2DF6225X-AEL

5" Non-IR

DS-2DF5225X-AEL
DS-2DF5232X-AEL

High Resolution & DarkFighter

Hikvision patented **High Resolution & DarkFighter** technology provides bright and color image at night.

Test Environment: Darkroom(0.045LUX)

Recorded by 4MP DE camera
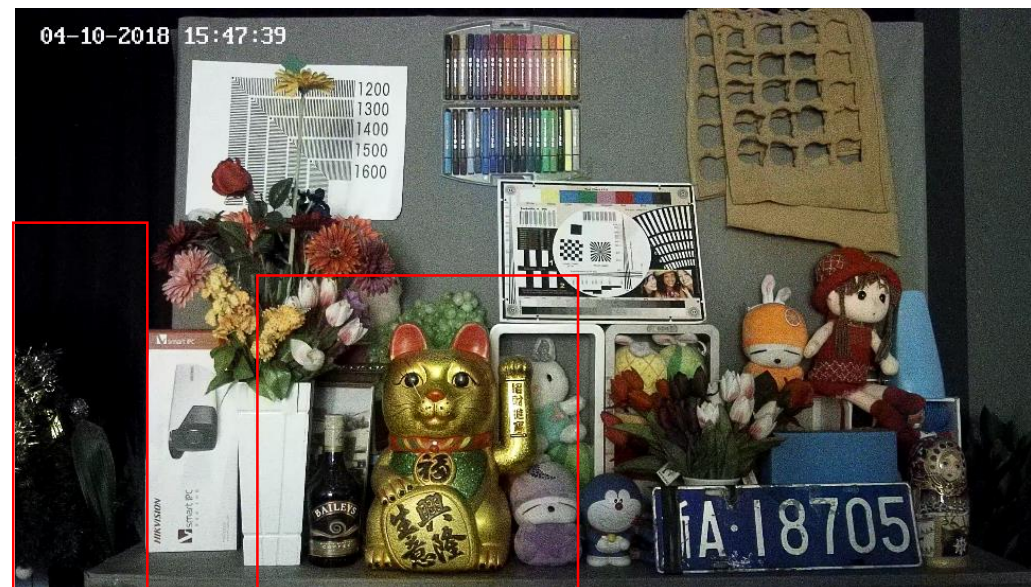
Recorded by 4MP DF camera

Super Zoom - 73x / 60x

Super zoom camera is equipped with two lenses which enables large field of view of 110° and large zoom. Two lens works seamlessly when zooming up to check details to ensure a excellent image.
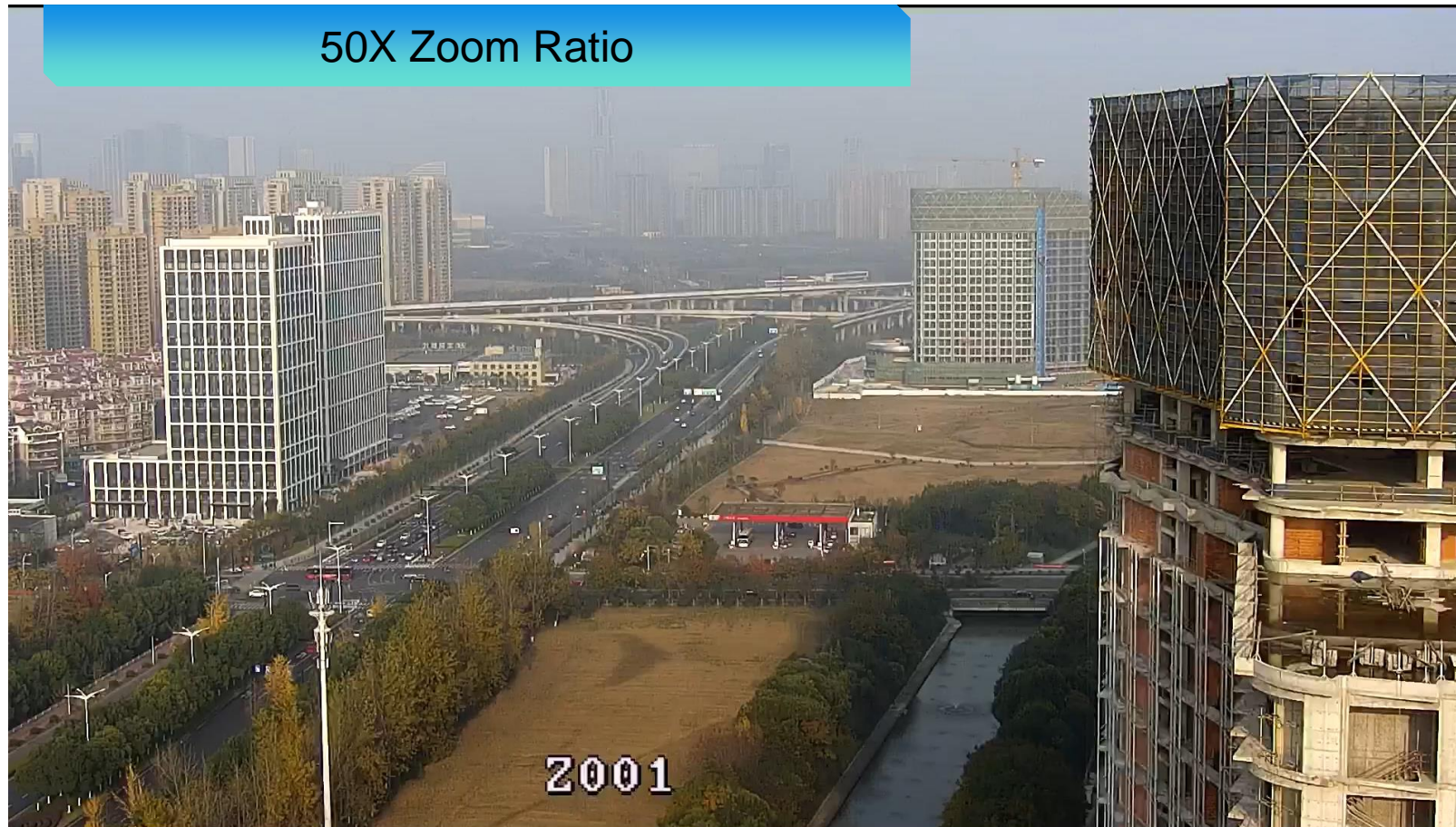

Recorded by 73x camera

Dual Optical Lens

Super wide FOV

* 60x will be released in 2020H2.

50X Zoom Ratio PTZ Camera

Recorded by 50X DF camera

Face Capture

PTZ camera supports 3 different face capture modes, which is more flexible in installation, maintenance, and capture targets to greater distance.
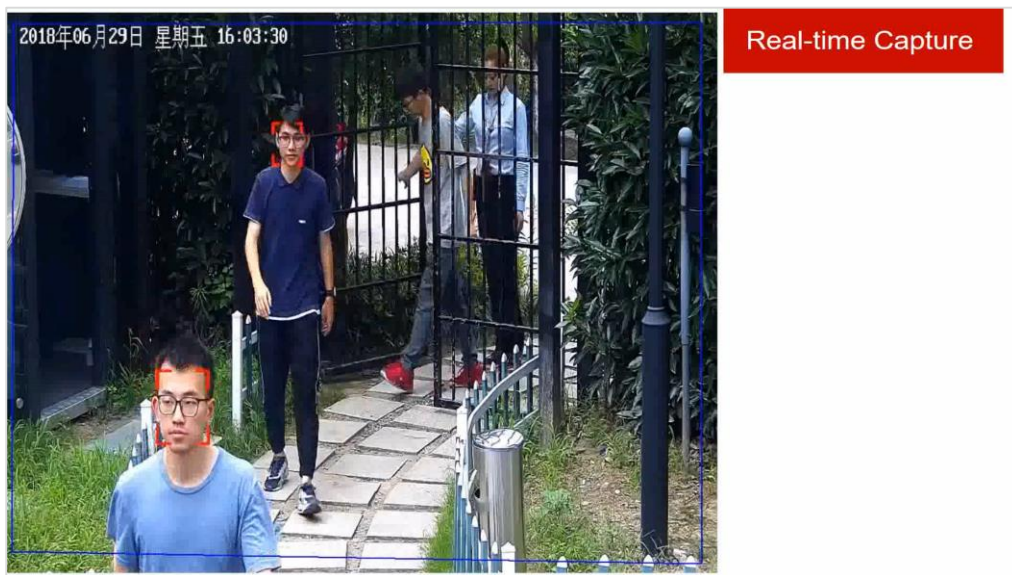
Checkpoint Mode

Capturing in a fixed zone with an up-to-150-meters radius

› **Manual Capture Mode**
   To capture faces on the screen with one-click

› **Checkpoint Mode**
   To capture faces in a fixed area

› **Auto-switch Mode**
   To set multiple capturing areas and switch automatically in between

ANPR — Automatic Number Plate Recognition

250m ANPR demonstration (daytime)

Supports overall 84 countries' plate recognition overseas:
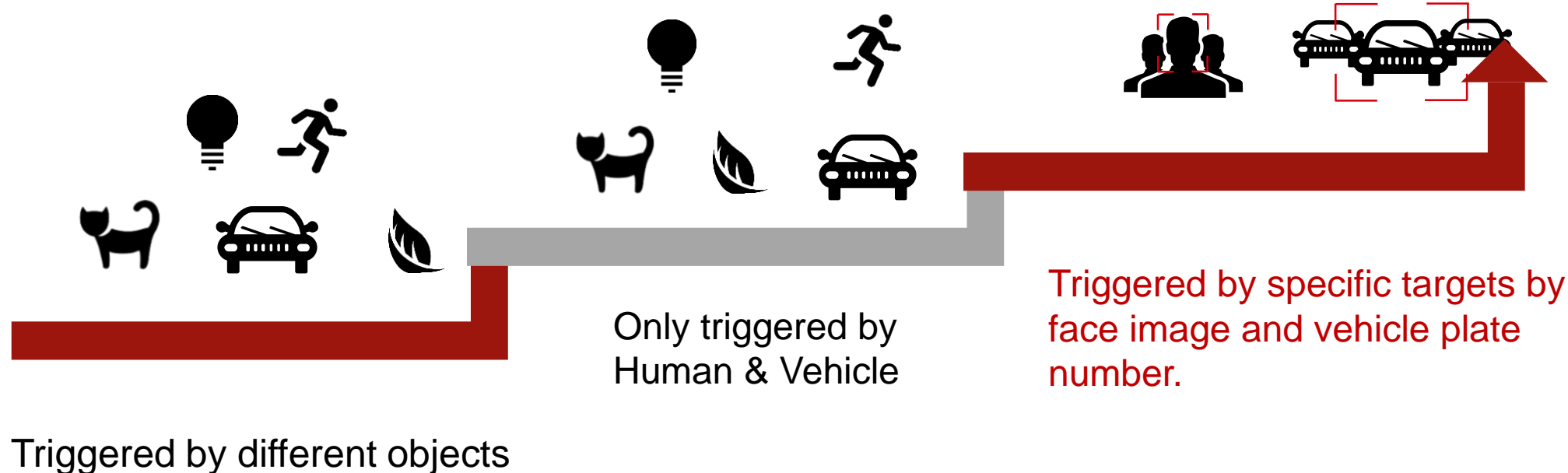
1. European/Russian
2. Asia
3. MENA
4. America & Africa

Auto-Tracking 3.0 – Specific target tracking

Intelligent Applications: Triggered by human, vehicle or VCA rule, a PTZ camera will track the target for checking details (auto-tracking).

Auto-tracking 1.0 ❯ **Auto-tracking 2.0** ❯ **Auto-tracking 3.0**

Triggered by specific targets by face image and vehicle plate number.

Only triggered by Human & Vehicle
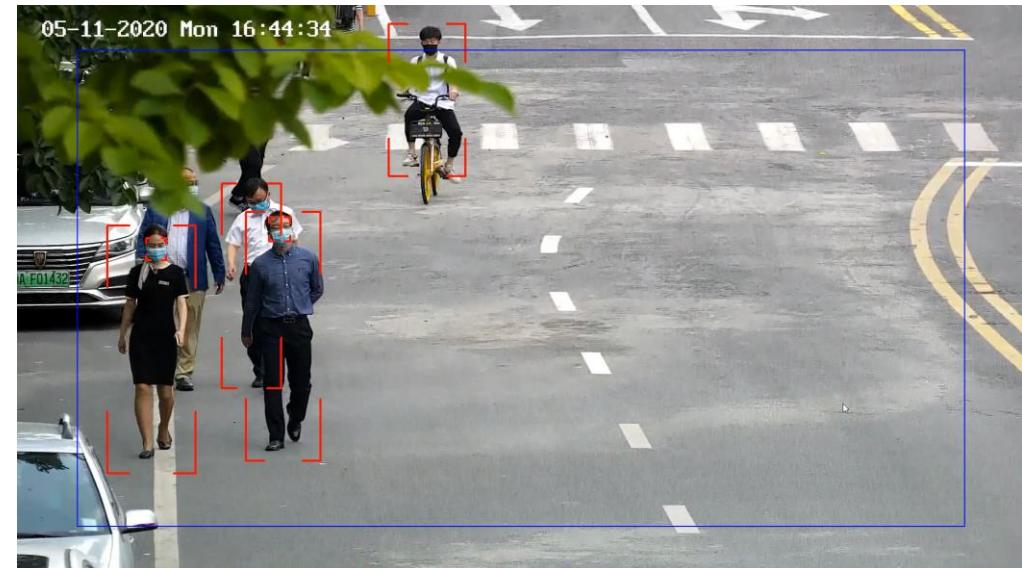
Triggered by different objects

Auto-Tracking 3.0 – Performance

Specific Vehicle Tracking

When the camera recognizes vehicle plate number, it will start tracking.

Specific Human Tracking

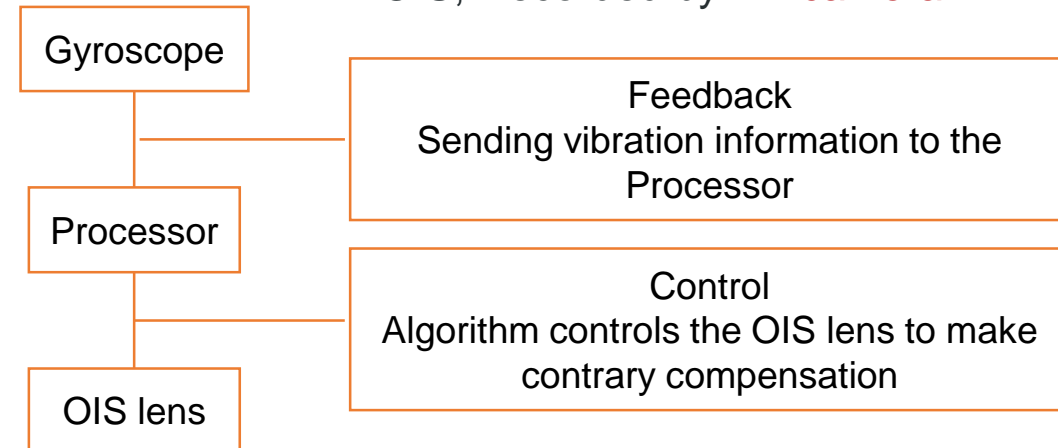Only the person in the face list can trigger tracking.

OIS

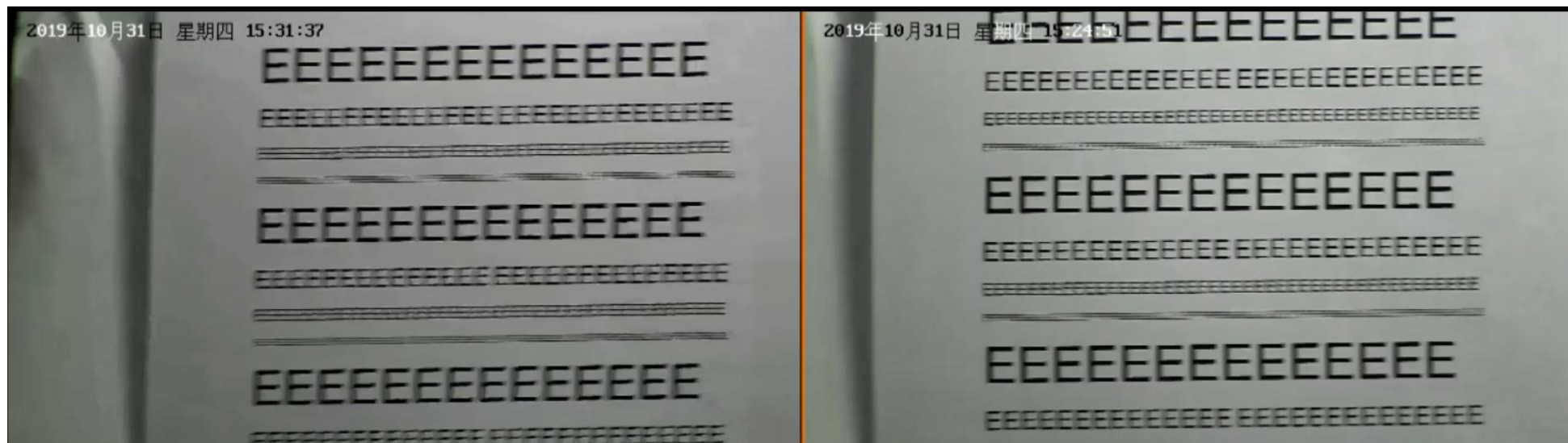EIS, Recorded by conventional camera

OIS, Recorded by DF camera

➢ **Principle**

Shaking image always be generated when camera at high zoom rate or deployed on the bridge . With OIS technology, camera can solve the issue very well.

| Gyroscope |
| Processor |
| OIS lens |

Feedback
Sending vibration information to the Processor

Control
Algorithm controls the OIS lens to make contrary compensation

OIS > GIS > EIS

Image Performance: Better image performance comes with gyroscope image stabilization (GIS).

EIS on   GIS on

Rapid Focus

With Hikvision Rapid Focus technology, camera focus accurately and fast when zoom ratio changed .

Recorded by conventional camera
Take time to focus when zoom in and out

Recorded by DF camera
Focus fast and accurately

Optical Defog

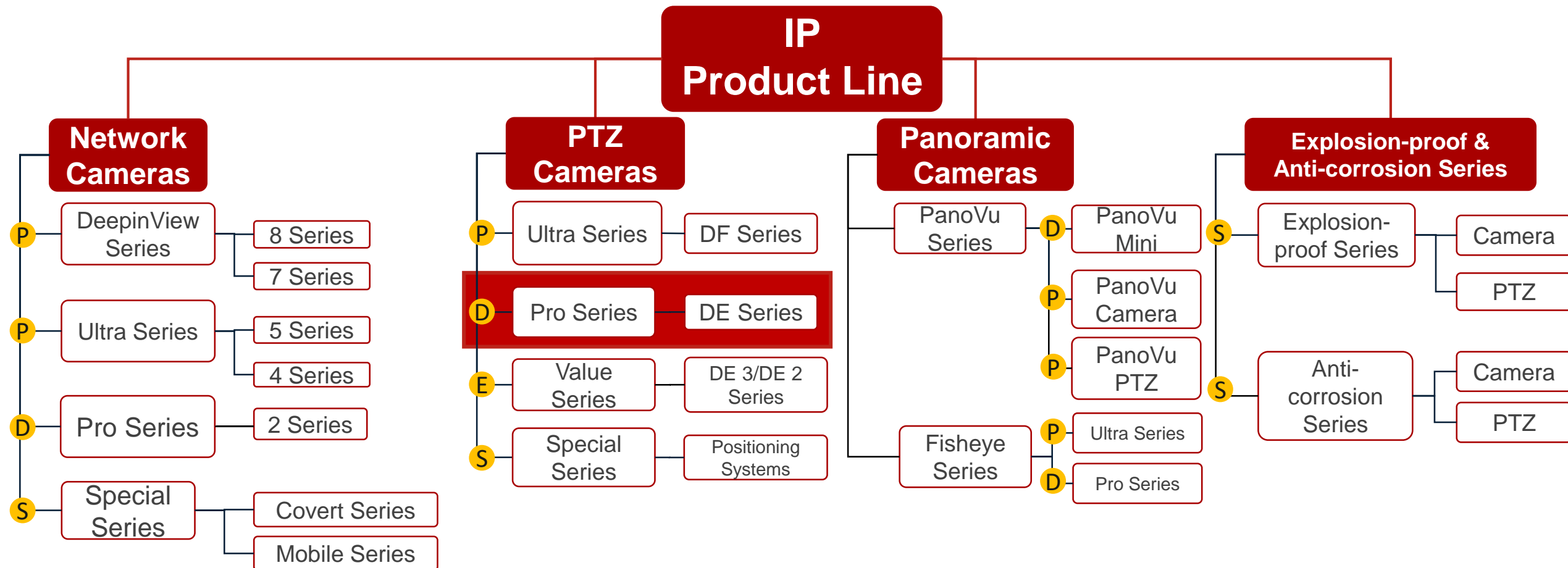Conventional Defog

Recorded by conventional camera

Optical Defog

Recorded by DF camera

IP Product System (Front End)

HIKVISION®

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  - DE Series
- **(E)** Value Series
  - DE 3/DE 2 Series
- **(S)** Special Series
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Panoramic Cameras

- PanoVu Series
  - **(D)** PanoVu Mini
  - **(P)** PanoVu Camera
  - **(P)** PanoVu PTZ
- Fisheye Series
  - **(P)** Ultra Series
  - **(D)** Pro Series

Explosion-proof & Anti-corrosion Series

- **(S)** Explosion-proof Series
  - Camera
  - PTZ
- **(S)** Anti-corrosion Series
  - Camera
  - PTZ

DE PTZ Camera Product Map

HIKVISION

7-inch

2/4/5 MP
25x / 30x / 32x
IK10 (except the lens)

4MP 32X
2MP 45X

DE7 / DE7 (S5) AcuSense   **DE7A** AcuSense

5-inch

2/4 MP
25x / 32x

2/4 MP
25x / 32x
IK10

DE5 / DE5 (S5) AcuSense

DE5

4-inch
DE4 / DE4A

2/4 MP
15x / 25x

2/4 MP
4x / 15x / 25x

2/4 MP
15x / 25x

DE4 / DE4 (S5) AcuSense   **DE4A**

DE4

3-inch
DE3 / DE3A

4 MP
4x

2/3 MP
4x
IK10

DE3A

DE3

2-inch

2/4 MP
4x
IK10

DE2A

IR   **Non-IR**

Deep Learning Technology

False Alarm Reduction

HIKVISION

Line Crossing	Intrusion Detection	Region Entrance	Region Exit

Light   Animal   Leaf   Human   Vehicle

Deep-learning algorithm

Targets Classification

Alarm!

Human   Vehicle

Reduced!

X

Others

Before: Alarms are triggered by different objects

After: Irrelevant targets are filtered out
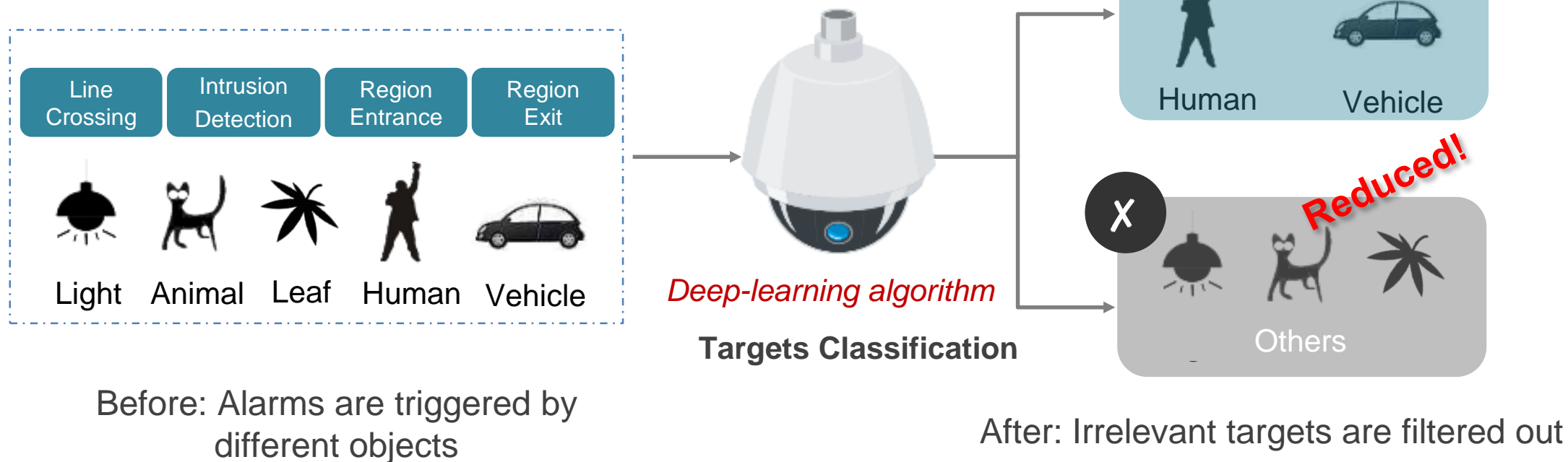
Deep learning algorithm reduces false alarm caused by irrelevant targets such as animals, leaves or light. It greatly improves the accuracy of perimeter protection.

DE PTZ Overview

HIKVISION

7A IR

DS-2DE7A232MW-AE(T3)

7"IR

DS-2DE7530IW-AE
DS-2DE7430IW-AE
DS-2DE7425IW-AE
DS-2DE7232IW-AE
DS-2DE7225IW-AE

5" Non-IR

DS-2DE5425W-AE
DS-2DE5232W-AE
DS-2DE5225W-AE

DARKFIGHTER

4A"IR

DS-2DE4A425IW-DE
DS-2DE4A225IW-DE
DS-2DE4A215IW-DE
DS-2DE4A404IW-DE
DS-2DE4A204IW-DE

5"IR

DS-2DE5432IW-AE
DS-2DE5425IW-AE
DS-2DE5232IW-AE
DS-2DE5225IW-AE

4" IR

DS-2DE4425IW-DE
DS-2DE4415IW-DE
DS-2DE4225IW-DE
DS-2DE4215IW-DE

4" Non-IR

DS-2DE4425W-DE
DS-2DE4415W-DE3
DS-2DE4225W-DE
DS-2DE4225W-DE3
DS-2DE4215W-DE3

Features

- Outdoor/indoor surveillance
- Powered by DarkFighter
- True 120 dB WDR

- Auto-tracking 2.0 (DE7, 5, 4)
- 32x optical zoom

True WDR

HIKVISION

Hikvision **True WDR** technology provides images without losing details under strong backlight.

Recorded by conventional camera

Recorded by DE series camera

Audio and Strobe Light Alarm

Based on human and vehicle classification, it warns off the intruders in real time.
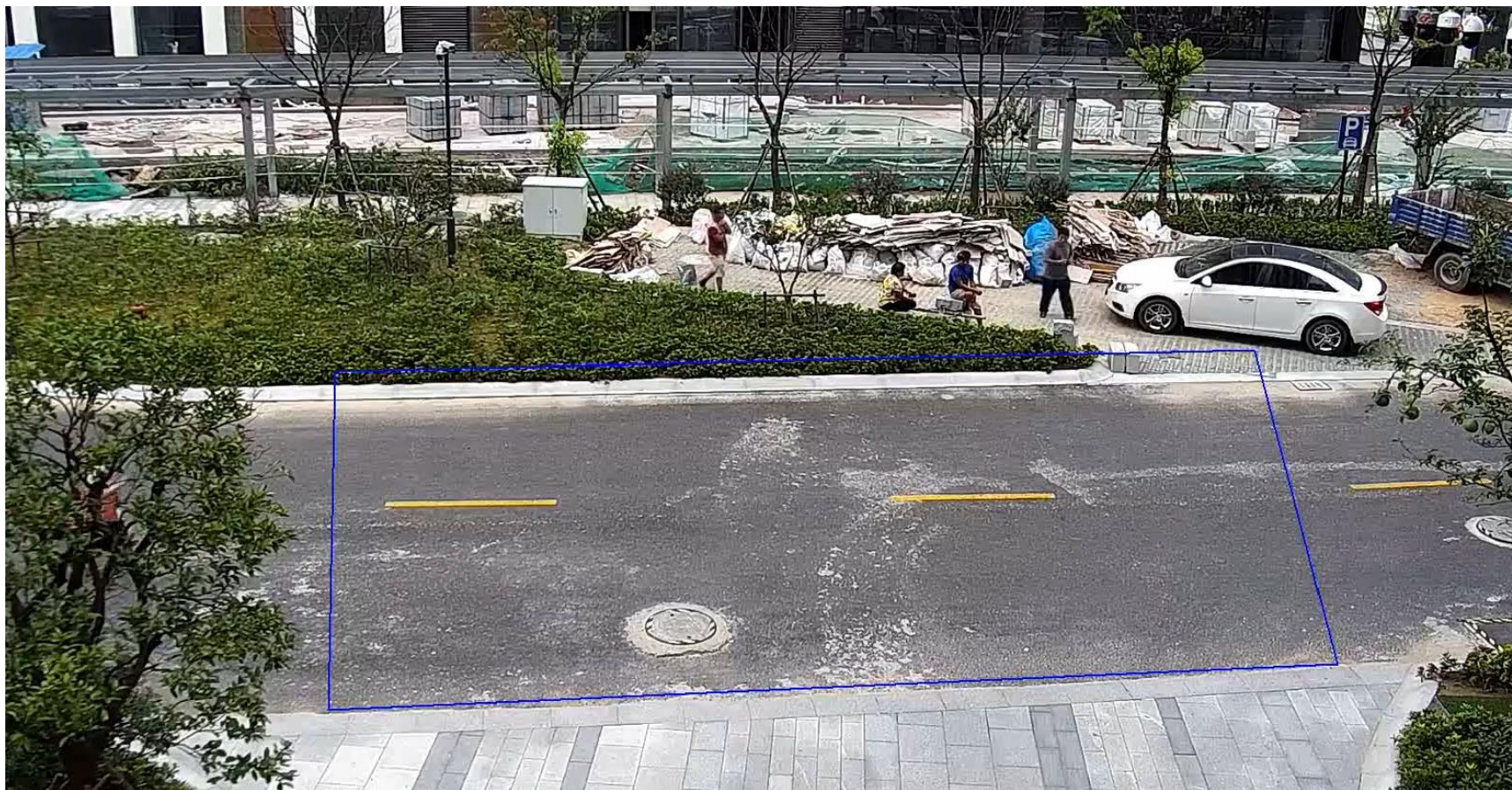
DS-2DE7A232MW-AE(T3)

Intrusion alarm on vehicle

Difference Between DF & DE

HIKVISION®

DF VS DE

2/3", 1/1.8"	**Sensor**	1/2.8", 1/1.9"
DarkFighterX / DARKFIGHTER	**Imaging**	Powered by DARKFIGHTER
8 MP	**Resolution** (Max.)	5 MP
73x/60x50x/42x/25x	**Optical Zoom**	32x/25x/15x
800/500/400 m	**IR** (laser)	150 m / NA
Wiper / Rapid Focus Face Capture/ ANPR Auto Tracking 3.0 IP67 IK10 / -40°	**Smart Function**	Auto Tracking 2.0

High-end Project Camera

Large zoom/ Great imaging / Rapid focus/ auto tracking 3.0

Hot Models

DF9C435IHS-DLW
DF8A442IXS-AEL
DF8242I5X-AELW

Economical PTZ camera

Large zoom/ 360° rotation

Hot Models

DE7232IW-AE
DE4225IW-DE
DE4A225IW-DE

MORE

IP Product System (Front End)

HIKVISION

IP Product Line

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Panoramic Cameras

- PanoVu Series
  - **D** PanoVu Mini
  - **P** PanoVu Camera
  - **P** PanoVu PTZ
- Fisheye Series
  - **P** Ultra Series
  - **D** Pro Series

Explosion-proof & Anti-corrosion Series

- **S** Explosion-proof Series
  - Camera
  - PTZ
- **S** Anti-corrosion Series
  - Camera
  - PTZ

Mini PTZ

3" IR
DS-2DE3A404IW-DE
DS-2DE3A404IW-DE/W

2.5" IR & Non-IR
DS-2DE2A404IW-DE3
DS-2DE2A404W-DE3
DS-2DE2A204IW-DE3
DS-2DE2A204W-DE3

Features

- Small size / smart look
- Wi-Fi access
- Accessible control over internet
- Audio and strobe light

Image Performance

WDR

Powered by DarkFighter

IR

IP Product System (Front End)

HIKVISION®

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Panoramic Cameras

- PanoVu Series
  - **D** PanoVu Mini
  - **P** PanoVu Camera
  - **P** PanoVu PTZ
- Fisheye Series
  - **P** Ultra Series
  - **D** Pro Series

Explosion-proof & Anti-corrosion Series

- **S** Explosion-proof Series
  - Camera
  - PTZ
- **S** Anti-corrosion Series
  - Camera
  - PTZ

Positioning System PTZ

HIKVISION

Hierarchy

DY3

- **20x**
- 100m IR
- Tilt: -40° to 30°
- **Stand / Wall mounting**

DY5
DARKFIGHTER

- DarkFighter
- **Tilt: -90° to 90°**
- **Mobile certificate**
- Hi-PoE (AE models)

DY7
DARKFIGHTER

- **36x**
- **DarkFighter**
- 150m IR
- Tilt: -90° to 10°

DY9
DARKFIGHTER

HOT

- 36x / **50x**
- **Up to 1000m laser**
- Tilt: -90° to 40°
- Alarm I/O: 7/2

DY9
DarkFighterX

- **DarkFighterX**
- 25x
- 2 MP
- Tilt: -90° to 40°
- Alarm I/O: 7/2

Features

Positioning System PTZ

HIKVISION®

Features

- Durability — heat radiation/Heater/anti-fog/anti-frost
- Great imaging — DarkFighter technology / Long distance IR
- Large surveillance area — install in high position
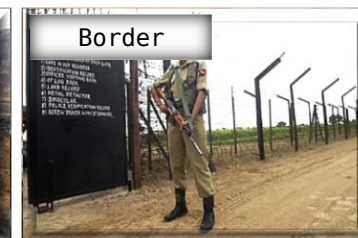- Wide tile angle: +40° to -90°

Highway | Railway | Airport | Shipping

Harbor | Electric | Gas/oil | Border

High ground | Road | Construction site | Prison

DeepinView

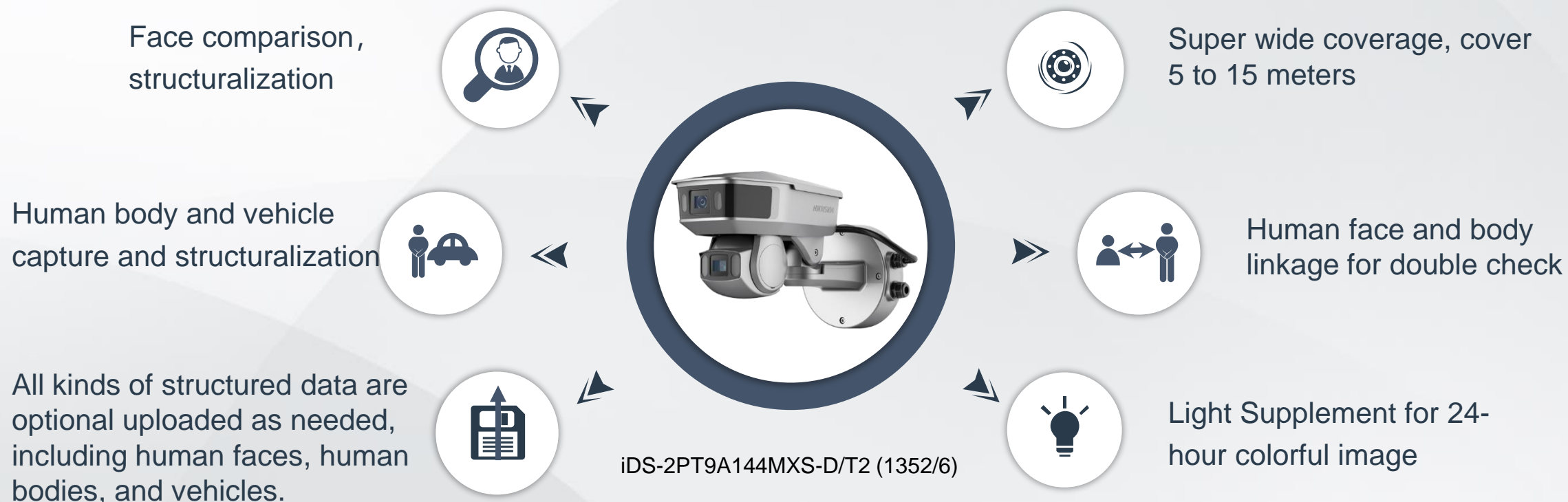Target Capture Camera
iDS-2PT9A144MXS-D/T2 (1352/6)

Traffic Violation Detection
iDS-2VS435-F840-EY

Bullet PTZ
iDS-2SK8144IXS-D/J

Target Capture Camera

Hikvision PanoVu PT Series 4 MP + 4 MP Target Capture Camera is able to get both panoramic views and close-ups with the integration design of a PanoVu camera and a PTZ camera.

Face comparison , structuralization

Super wide coverage, cover 5 to 15 meters

Human body and vehicle capture and structuralization

Human face and body linkage for double check

All kinds of structured data are optional uploaded as needed, including human faces, human bodies, and vehicles.

iDS-2PT9A144MXS-D/T2 (1352/6)

Light Supplement for 24-hour colorful image

Face Capture with Rapid Focus

- Exclusive mechanism to reduce repeated capture rate
- Rapid focus for clear face captured image
- Pupil distance larger than 40 pixels, which can guarantee the facial comparison accuracy later

Traffic PTZ Camera

Algorithm is upgraded with deep learning feature to ensure high detection accuracy

HIKVISION®
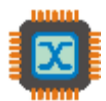
GPU-supported Deep Learning Algorithm

H.265 Codec
Saving bandwidth greatly

DarkFighter
Detecting illegal parking and providing colorful images with street lamps

Rapid focus
Instant focus with no blur

iDS-2VS435-F840-EY

Function →
← **Features**

Illeagal Vehicle Event Detection

Illegal Parking

Wrong direction driving

Illegal lane change

Over lane line

Wrong U-turn

24 | 24/7 working hours

Weather adaptive

123 | Vehicle plate number accurate recognition

Real-time alarm and record

Bullet Linkage PTZ

HIKVISION

DARKFIGHTER

Audio & Strobe light

- Audio warning up to 40 m (audio massage is customizable)

Bullet Lens Support PT Movement

- Pan range: -45°~45°
- Tilt range: -5°~30°
- HFOV: 90°
- Focal: 2.8~12 mm
- 50m IR

PTZ

- 4 MP @ 40X
- IR 400 m

iDS-2SK8144IXS-D/J
Release time: June

Event

- Face capture/ ANPR
- Specific target tracking
- PTZ & Bullet linkage

Showcase

Applications

Square

City council

Detention Center

Analog AE PTZ

Analog PTZ

HIKVISION

4 in 1 Analog PTZ Camera

1 BNC,4 Switchable Video Output TVI/AHD/CVI/CVBS

7"IR

DS-2AE7225TI-A (D)
DS-2AE7232TI-A (D)
DS-2AE7225TI-D (D)
DS-2AE7232TI-D (D)

5" IR

DS-2AE5225TI-A (D)
DS-2AE5232TI-A (D)

5" Non-IR

DS-2AE5225T-A3 (D)
DS-2AE5232T-A3 (D)
DS-2AE5225T-A (D)
DS-2AE5232T-A (D)

4" IR

DS-2AE4225TI-A (E)
DS-2AE4215TI-A (E)
DS-2AE4225TI-D (E)
DS-2AE4215TI-D (E)
DS-2AE4115TI-D (Non 4 in 1)

4" Non-IR

DS-2AE4225T-A3 (D)
DS-2AE4225T-D3 (D)
DS-2AE4215T-A3 (D)
DS-2AE4215T-D3 (D)
DS-2AE4225T-A (D)
DS-2AE4215T-A (D)
DS-2AE4225T-D (D)
DS-2AE4215T-D (D)

HDTVI Series

HIKVISION

Multiple Appearances
Different shapes meet different scenario requirement

True WDR
120dB true WDR

4 in 1 Video Output
1 BNC,
4 Switchable Video Output
TVI/AHD/CVI/CVBS

High Definition
1920 * 1080

Good Night Vision
Color: 0.005 Lux @(F1.6, AGC ON)

Thanks for Watching !

HIKVISION®

International Product and Solution Center