

Turbo HD Solution

HiLook Certification Program

First Choice for Security Professionals

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Turbo HD Product Lines

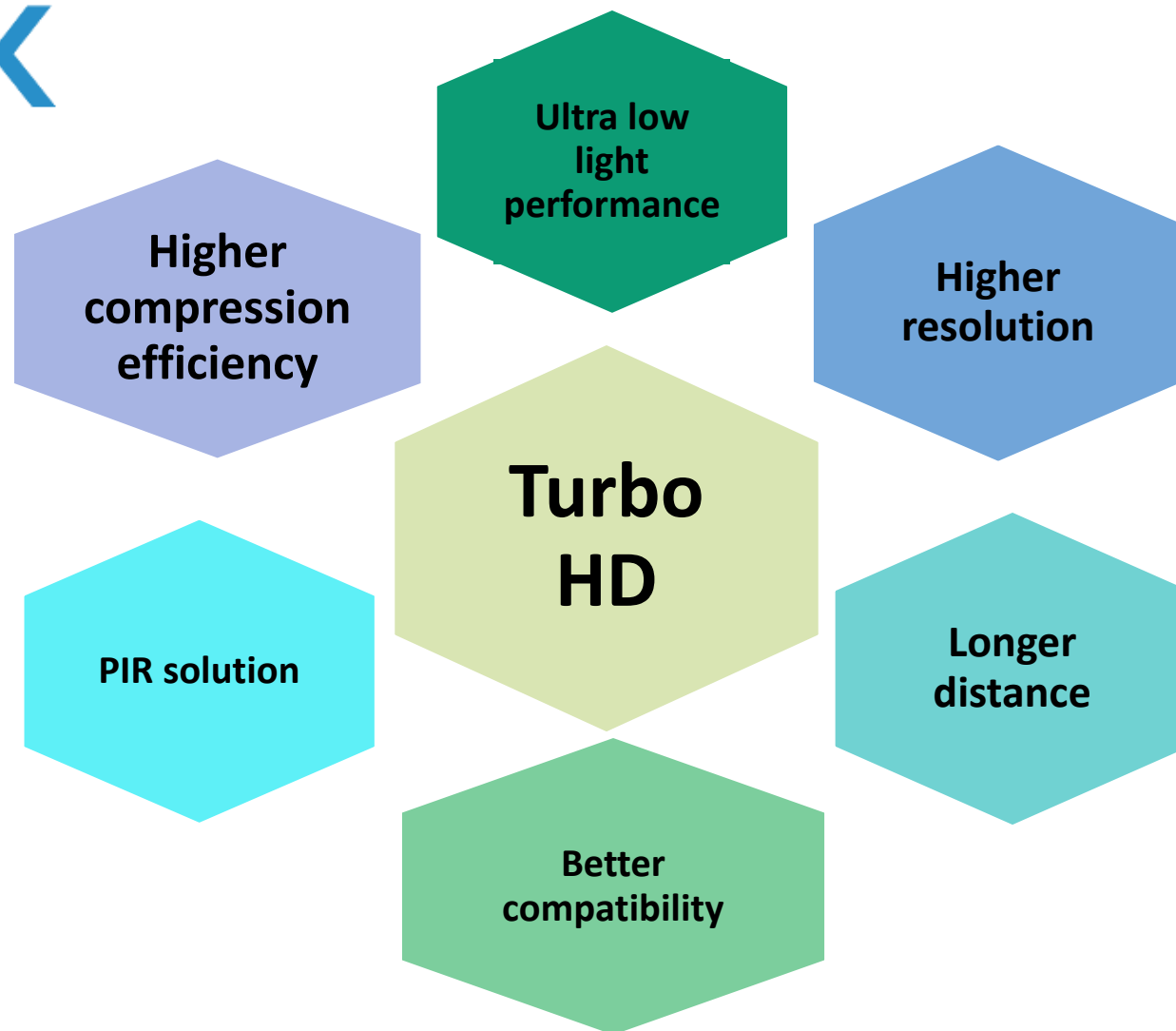


Objectives

- ❖ **Understand the basic concepts of Turbo HD HiLook technology.**
- ❖ **Clearly understand the advantages and benefits delivered by the HiLook Turbo HD solution.**
- ❖ **Grasp the basic knowledge of HiLook Turbo HD equipment.**
- ❖ **Guidance on how to design a video surveillance system using HiLook products.**

Overview

HiLook



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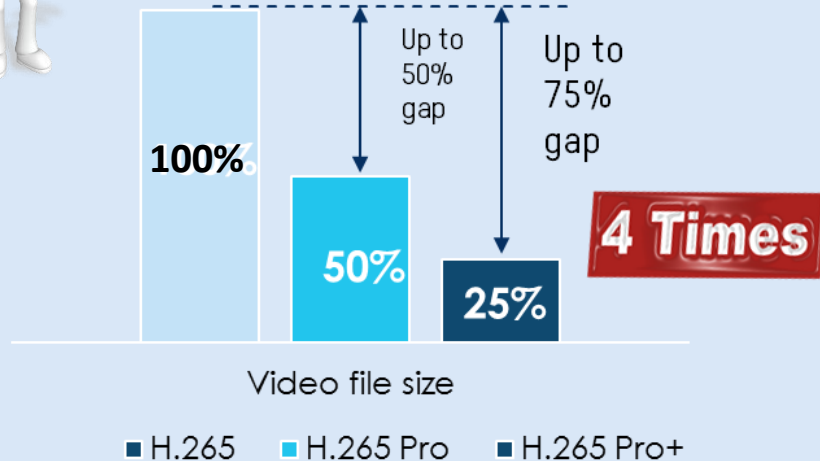
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Turbo HD Product Lines

Compression Efficiency -H.265 Pro+

H.265 Pro+, the super-compressive technique helps user save HDD cost.

Special for Turbo HD






Only for Turbo HD

First Choice for Security Professionals



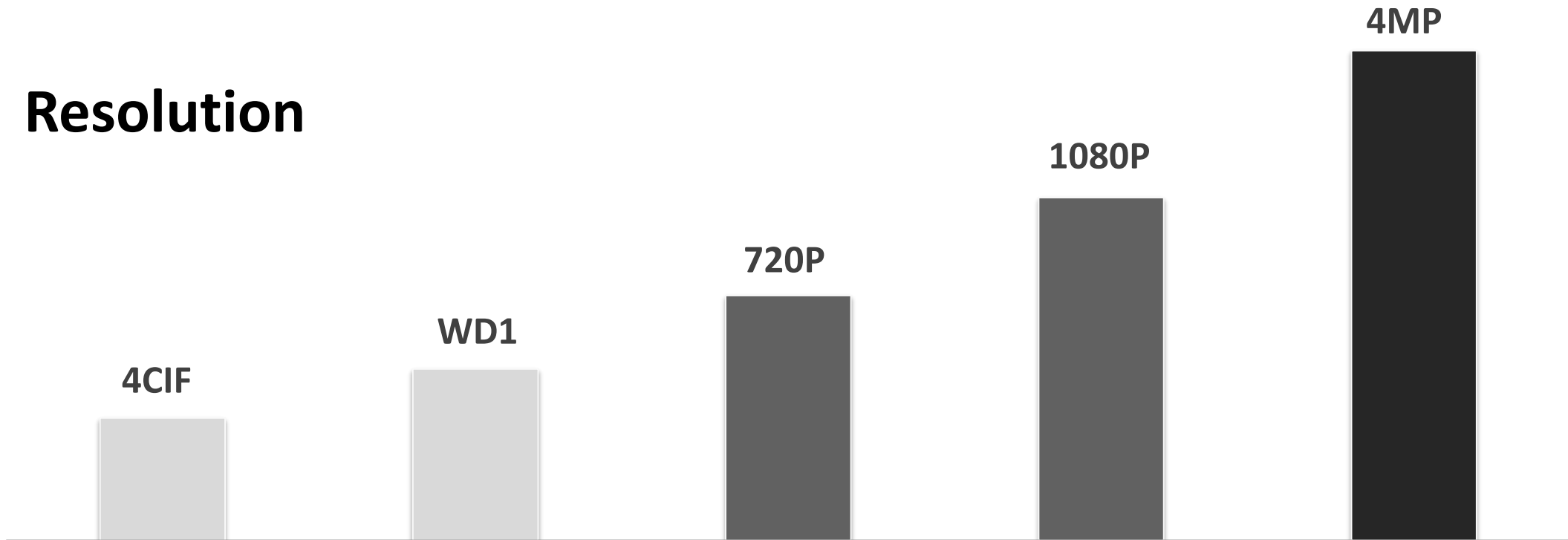
✓ HDD storage time extended fourfold

✓ Cost on HDDs reduced by 3/4

H.265	
H.265 Pro	
H.265 Pro+	

Higher Resolution-Ultra HD

Resolution



Traditional Camera

HiLook

Low Illumination Performance

Industry leading **ultra-low light** technology,
complete product offering and rich functions make colorful images possible in dim light environment.



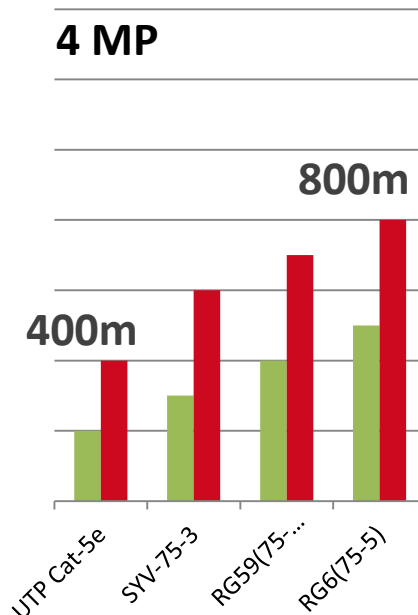
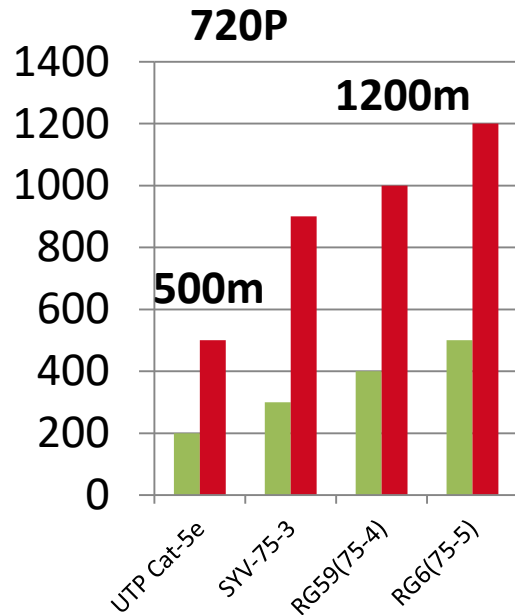
Cellphone



Camera with ultra low light
technology(0.005lux)

Longer Transmission Distances

Transmission distances

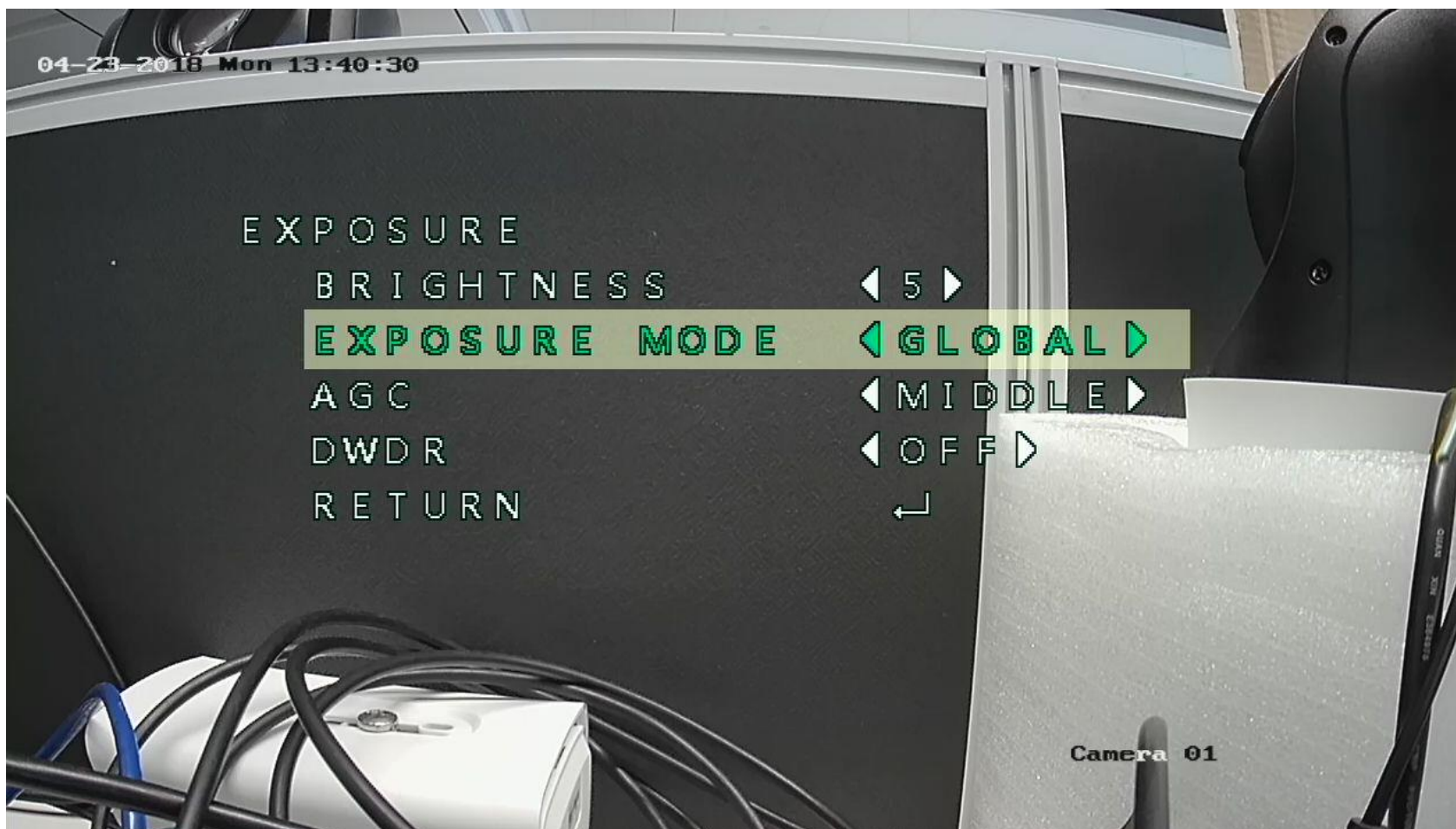


MPs	UTP (Cat-5E)	SYV (75-3)	RG59 (75-4)	RG6 (75-5)
4MP	400m	600m	700m	800m
2MP	400m	600m	700m	800m
1MP	500m	850m	1000m	1200m

Up to 1200mm @ 720p, 800m @ 1080p via Coaxial Cable RG6

OSD Menu

OSD Menu: Call PRESET 95 to enter the OSD menu and set the image parameters.



PIR

With **PIR** detection and flashing light warns off intruders, PIR series cameras can enhance your security



➤ Instant reaction

Warns off intruders with flashing white light alarm and possibly prevent break-ins.

➤ Clear evidence

Capture clear evidence of suspect in sufficient lighting when the alarm is triggered.

➤ Accurate alarms

Lower false alarm rate and save storage cost with motion detection function provided by DVR.

PIR - Demonstration



White Light Warning

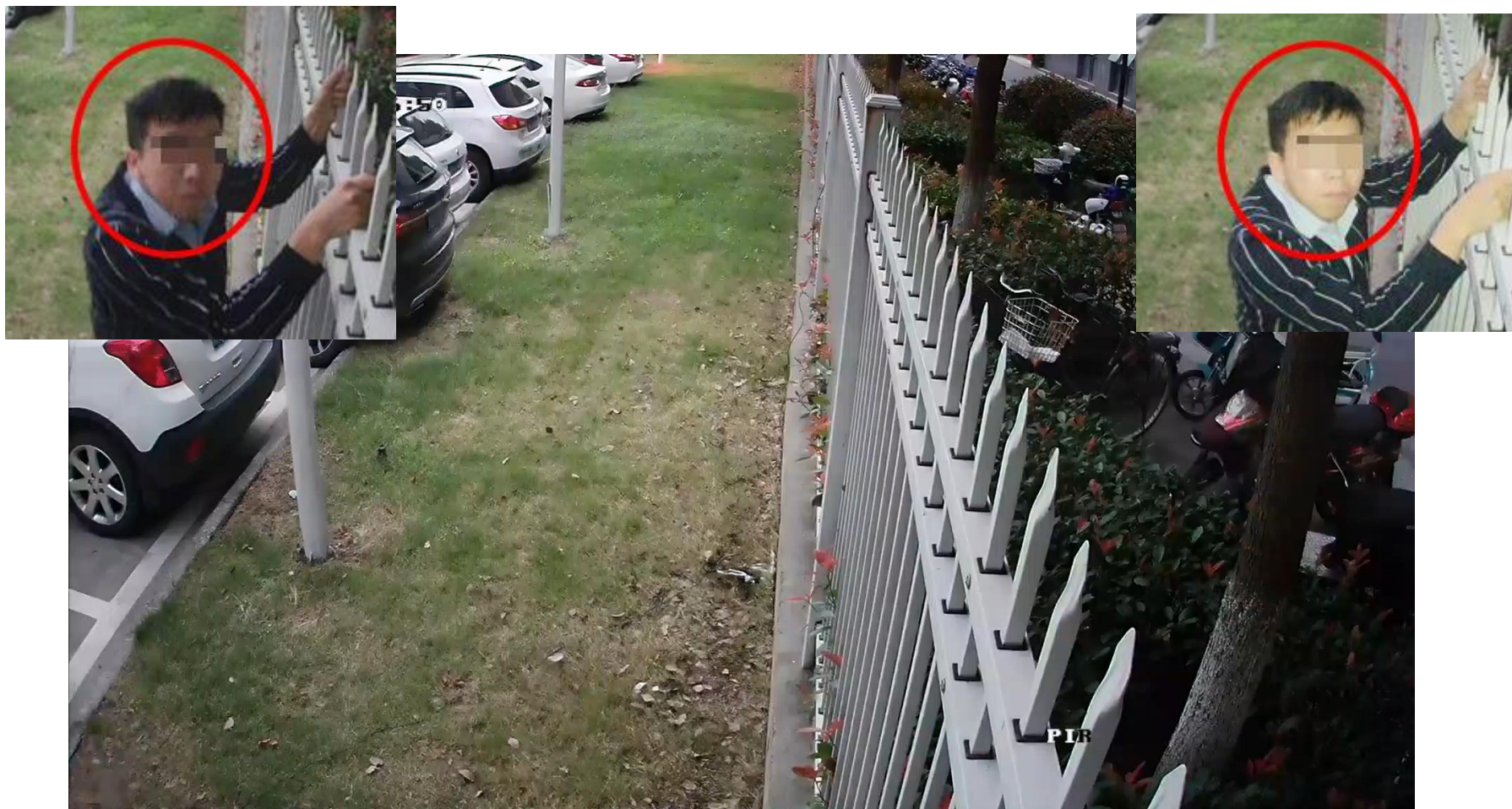


Intrusion Stop



Crime Prevention

PIR - Demonstration



White Light Warning



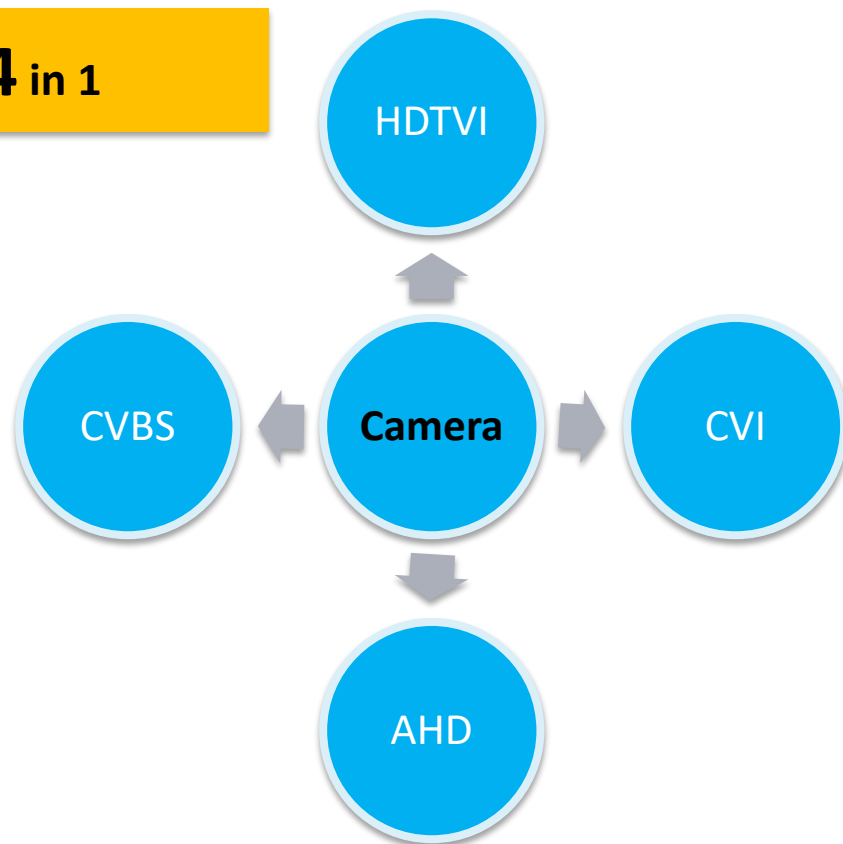
Unconscious Glance



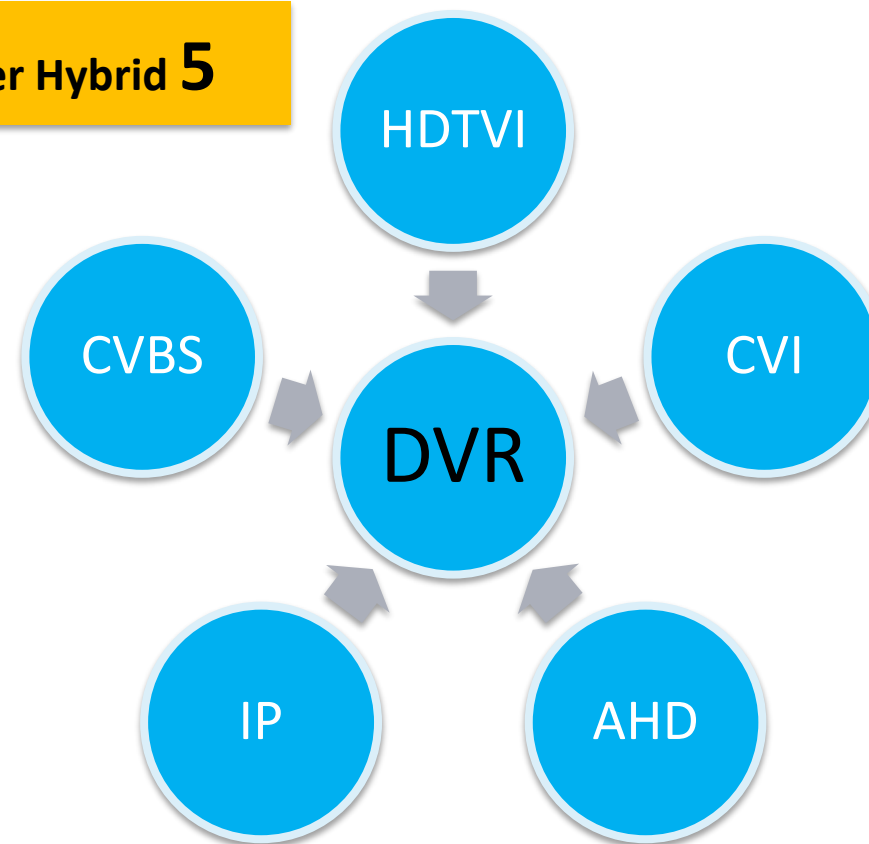
Facial Information

Better Compatibility

4 in 1



Super Hybrid 5



**Better
Compatibility**

Camera: Signal output switchable
DVR: Signal access self-adaptive

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Turbo HD Product Lines

Naming Rule

Turbo HD Camera										
	①		②		③	④		⑤		⑥
	THC	-	B	1	1	0	-	P	/	XX
	Turbo HD Camera		Form Factor: B: Bullet D: Dome T: Turret	Sub form: 0/1/2/3... Different housing for same appearance. Bullet:B1,B2,B3...	Resolution 1: 1MP 2: 2MP 3: 3MP 4: 4MP ...	Reserved For different generation and platform		Extension info P: Plastic M: Metal		Extension info
Example	THC-B110-P		1MP IR Bullet Camera							
	THC-T120		2MP IR Turret Camera							

Naming Rule

PTZ HD Camera													
	①		②	③	④	⑤	⑥		⑦	⑧	⑨	⑩	⑪
	PTZ	-	N	2	2	04	I	-	A/D	E	(3)	XX	(X)
	PTZ Camera		N: Network T: Turbo HD	Sub form: 2/3/4/5... For Different size housing 2: 2.5" 3: 3" 4: 4" 5: 5"	Resolution: 1- 1/1.3MP 2- 2MP 3- 3MP	Zoom: 04: 4X; 15: 15X; 20: 20X; ...	Default: non-IR I: support IR		A : AC24V; D: DC12V;	E: support POE	Default: Outdoor 3: Indoor	Extension info /W: wifi	Reserved For different generation and platform
Example	PTZ-N2204I-DE3		2.5" 2MP 4x IR PTZ indoor network Camera										
	PTZ-N3204-DE		3" 2MP 4x non-IR PTZ TVI Camera (IP66)										
	PTZ-T4215-D3		4" 2MP 15x non-IR indoor PTZ TVI Camera										

Naming Rule

DVR									
	①		②	③	④	⑤		⑥	⑦
	DVR	-	1	0	4	G	-	F	1
	Hikvision Turbo HD DVR		1: Mini Chasis(Plastic) 2: 1U Chasis(Metal)	Channel Number 04: 4-ch 08: 8-ch 16: 16-ch		Max Encoding Resolution G: HD1080p Lite; Q: 3MP; U: 5MP; T: 8MP;		Platform Revision F,K,....	HDD Number 1: 1 x HDD; 2: 2 x HDD;
Example	DVR-104G-F1			4-ch HD1080P Lite Mini DVR					
	DVR-216U-F2			16-ch 5MP 1U DVR					

Naming Rule

KIT															
	①		②	③	④	⑤	⑥	⑦		⑧	⑨		⑩	⑪	⑫
	TK	-	4	1	4	2	B	(H)	-	P	M	/	P	/XX	(A)
	TK: Turbo HD Kit IK : Network Kit		4:4 cameras 8:8 cameras ...	HDD 1:1T 2:2T ...	Recorder Channels: 04: 4-ch 08: 8-ch 16: 16-ch	Camera Resolution: 1:1MP 2:2MP ...	B:Bullet D:Dome T:Turret M:Mix (Bullet+Dome, Dome+Turret, Bullet+Turret) ...	Default:H .264 H: H.265		DVR Material P: Plastic M: Metal	Camera Material P: Plastic M: Metal H: Hybrid		Default: without PoE P:PoE	Extension info /W: wifi	Platform Revision A,B...
Example	IK-4142B-MM/W			4x 2MP Bullet IPC, 4-ch H264+ NVR, WIFI Kit with 1TB HDD, NVR Metal,Camera Metal											
	IK-4142MH-MM			2x 2MP Bullet IPC+2x 2MP Dome IPC, 4-ch H265+ NVR Kit with 1TB HDD,NVR Metal,Camera Metal											
	TK-4142T-MM			4x 2MP Turret TVI Camera, 4-ch H264+ DVR Kit with 1TB HDD,DVR Metal,Camera Metal											
	TK-4042T-MM			4x 2MP Turret TVI Camera, 4-ch H264+ DVR Kit without HDD,DVR Metal,Camera Metal											

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Turbo HD Product Lines







HiLook Turbo HD Solution–Camera

Turbo HD Camera

	T1xx series IR Mini Turret	T1xx-P series IR Mini Turret	T1xx-M series IR Mini Turret	T2xx-M series IR Turret	T2xx-P series IR Turret	T3xx-VF series IR Turret
Resolution						
4MP	THC-T140	THC-T140-P	THC-T140-M	THC-T240-M	THC-T240-P	THC-T340-VF
HD 1080P	THC-T120	THC-T120-P	THC-T120-M	THC-T220-M	THC-T220-P	THC-T320-VF
HD 720P	THC-T110	THC-T110-P	THC-T110-M	THC-T210-M	THC-T210-P	THC-T310-VF

HiLook Turbo HD Solution–Camera





Turbo HD Camera

Resolution	B1xx-M series IR Mini Bullet	B1xx-P series IR Mini Bullet	B2xx series IR Bullet	B2xx-M series IR Bullet	B3xx-VF series IR Bullet	D3xx-VF series IR Dome
						
4MP	THC-B140-M	THC-B140-P	THC-B240	THC-B240-M	THC-B340-VF	THC-D340-VF
HD 1080P	THC-B120-M	THC-B120-P(B)	THC-B220	THC-B220-M	THC-B320-VF	THC-D320-VF
HD 720P	THC-B110-M	THC-B110-P(B)	THC-B210	THC-B210-M	THC-B310-VF	THC-D310-VF

HiLook Turbo HD Solution–Camera

New







Ultra low light Camera

	T1xx series IR Mini Turret	T1xx-P series IR Mini Turret	T1xx-M series IR Mini Turret	T2xx-M series IR Turret	T2xx-P series IR Turret	T3xx-Z series IR Turret
						
HD 1080P	THC-T123	THC-T123-P	THC-T123-M	THC-T223-M	THC-T223-P	THC-T323-Z
Features	0.005 Lux/F1.2, 30/50/70m IR, ICR, True WDR, 3D DNR, OSD Menu					

HiLook Turbo HD Solution–Camera


New

Ultra low light Camera


	B1xx-P series IR Bullet	B1xx-M series IR Bullet	B2xx series IR Bullet	B2xx-M series IR Bullet	B3xx-Z series IR Bullet	D3xx-Z series IR Doom
						
HD 1080P	THC-B123-P	THC-B123-M	THC-B223	THC-B223-M	THC-B323-Z	THC-D323-Z
Features	0.005 Lux/F1.2, 30/50/70m IR, ICR, True WDR, 3D DNR, OSD Menu					

HiLook Turbo HD Solution–Camera

New




PIR Camera	
HD 1080P PIR Detection Strobe Light Alarm	B1xx-M series IR Bullet
	
	THC-B120-MPIRL

HiLook Turbo HD Solution–PTZ

Turbo HD PTZ Camera		
	IR PTZ	IR PTZ
		
2MP @ 25X	PTZ-T4225I-D	
2MP @ 15X	PTZ-T4215I-D	PTZ-T4215-D3
Features	Color:0.005 Lux/F1.6, B/W: 0.001 Lux/F1.6 120 dB WDR, 8 privacy masks	

HiLook Turbo HD Solution–DVR

Update

H.265 Pro+ DVR			
4MP series			
	1-HDD @ 4-CH	1-HDD @ 8-CH	2-HDD @ 16-CH
Metal			
	DVR-204U-K1	DVR-208U-K1	DVR-216U-K2
Decoding Capability	2-ch 1080P 25/30fps	4-ch 1080P 25/30fps	4-ch 1080P 25/30fps
IP channels	8 ch (up to 8MP)	16 ch (up to 8MP)	32 ch (up to 8MP)

HiLook Turbo HD Solution–DVR

Update



H.265 Pro+ DVR					
4MP Lite series					
	1-HDD @ 4-CH	1-HDD @ 8-CH	1-HDD @ 16-CH	2-HDD @ 8-CH	2-HDD @ 16-CH
Metal					
	DVR-204Q-K1	DVR-208Q-K1	DVR-216Q-K1	DVR-208Q-K2	DVR-216Q-K2
Decoding Capability	2-ch 1080P 25/30fps	2-ch 1080P 25/30fps	4-ch 1080P 25/30fps	2-ch 1080P 25/30fps	4-ch 1080P 25/30fps
IP channels	6 ch (up to 6MP)	12 ch (up to 6MP)	24 ch (up to 6MP)	12 ch (up to 6MP)	24 ch (up to 6MP)

HiLook Turbo HD Solution–DVR

New

H.265 Pro+ DVR		
4MP Lite series		
	2-HDD @ 24-CH	2-HDD @ 32-CH
Metal		
	DVR-224Q-K2	DVR-232Q-K2
IP channels	26 ch (up to 4MP)	34 ch (up to 4 MP)




HiLook Turbo HD Solution–DVR

H.264+ DVR			
720P/1080P Lite series			
	1-HDD @ 4-CH	1-HDD @ 8-CH	1-HDD @ 16-CH
Plastic			
	DVR-104G-F1	DVR-108G-F1	DVR-116G-F1
IP channels	1 ch (up to 960P)	2 ch (up to 960P)	2 ch (up to 960P)
Metal			
	DVR-204G-F1	DVR-208G-F1	DVR-216G-F1
IP channels	1 ch (up to 960P)	2 ch (up to 960P)	2 ch (up to 960P)

HiLook Turbo HD Solution – KIT

KIT			
4MP series			
			
KIT	TK-4144BH-MM	TK-4144TH-MH	TK-4144MH-MH
Camera	4*THC-B140-M	4*THC-T140	2*THC-T140 2*THC-B140-M
DVR	DVR-204Q-K1	DVR-204Q-K1	DVR-204Q-K1
HDD	1T	1T	1T

HiLook Turbo HD Solution – KIT

KIT			
2MP series			
			
KIT	TK-4142BH-MM	TK-4142TH-MH	TK-4142MH-MH
Camera	4*THC-B120-M	4*THC-T120	2*THC-B120-M 2*THC-T120
DVR	DVR-204Q-K1	DVR-204Q-K1	DVR-204Q-K1
HDD	1T	1T	1T

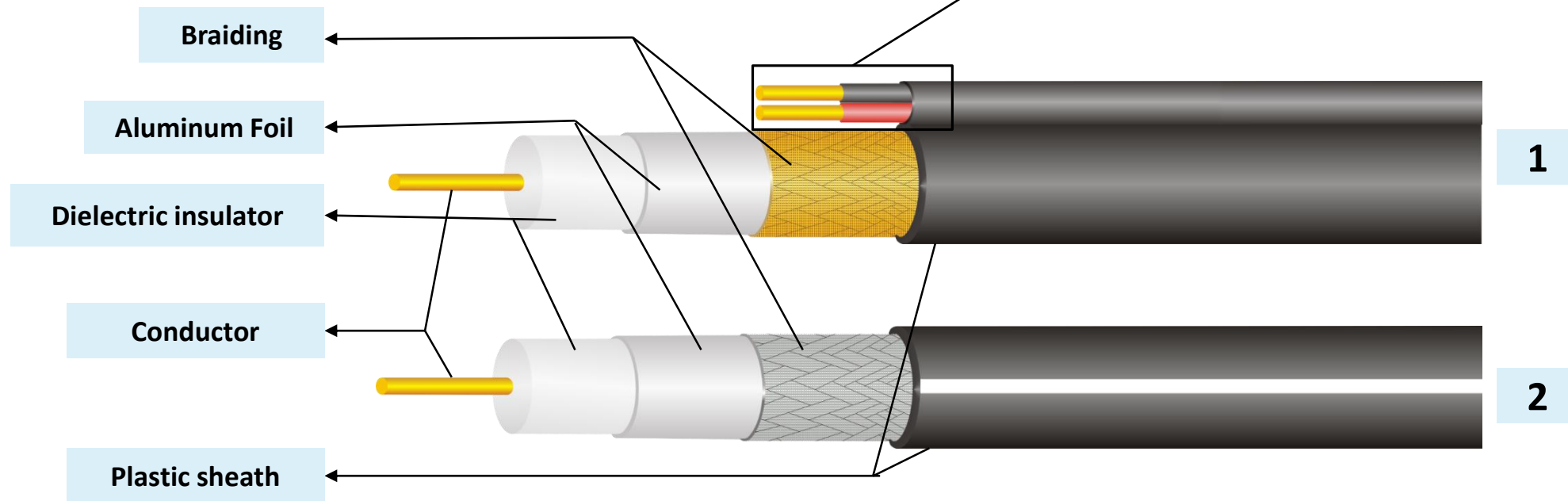
HiLook Coaxial Cable

Two types:

- ❑ 1 Coaxial Cable with power cable (Powax)
- ❑ 2 Coaxial Cable (No power cable) (Coax)

Power Cable :

- ❑ Conductor : 0.38mm *7 copper wires
- ❑ Voltage : MAX AC/DC 300V
- ❑ Current : MAX 7A

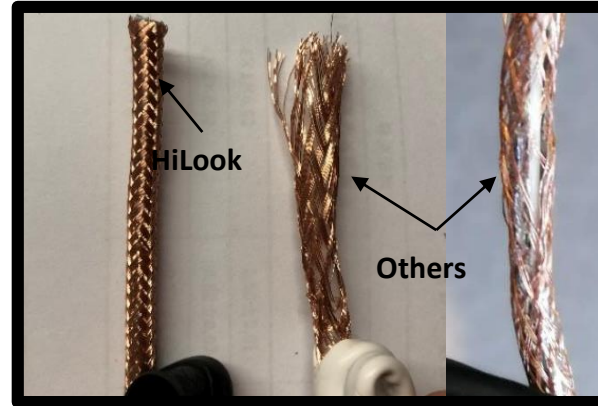


HiLook Coaxial Cable



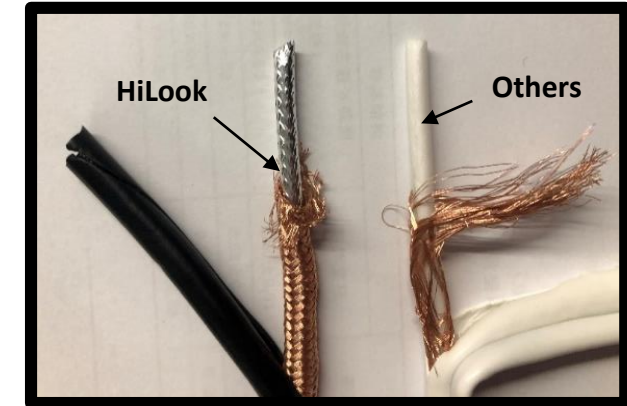
Conductor

- Conductor is oxygen free copper(OFC), diameter exactly meets the standard 0.81mm RG59.



Braiding Density

- HIKVISION Braiding density reaches to 95% ;
- Small manufacturers braiding density reaches to 60-75%

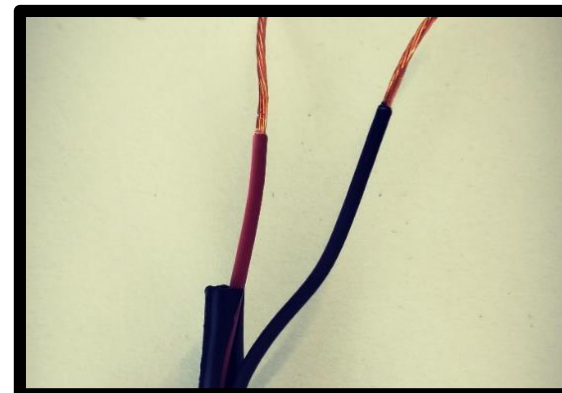
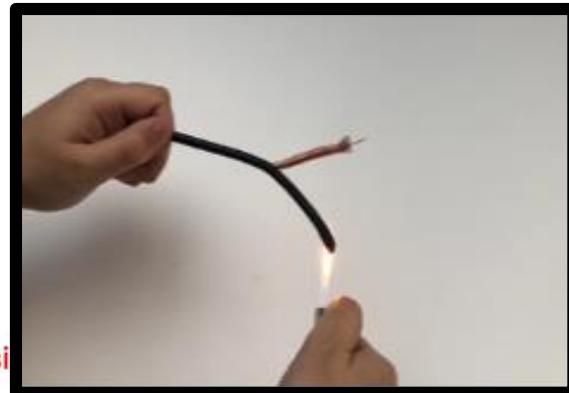


Aluminum Foil

- HIKVISION with Aluminum foil ;
- Small manufacturers are often without aluminum foil.

Flame Resistance

- Up to VW-1 Rating(Part of UL)



Power Cable

- HIKVISION power cable always use OFC material;
- Small manufacturers may use CCA material with higher resistance



Review

1. Which types of compatibility does the Turbo HD solution have?

2. By enabling H.265 Pro+, how much storage space can we save ?

A person in a dark suit and tie is shown from the chest up, pointing their right index finger towards a glowing shopping cart icon. The background features a stylized world map in shades of blue and green, with several other shopping cart icons scattered across it. The overall image has a soft, ethereal quality with a light blue and green color palette.

Thanks