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TECHNOLOGY

**ENABLING A SAFER SOCIETY AND
SMARTER LIVING WITH CCTV SURVEILLANCE**



HDCVI Cameras

1080P

Model	HFW1200T	HDW1200RP	HDBW1200EP	HFW1200RP-Z-IRE6	HDBW1200RP-Z
Appearance					
Type	Fixed Bullet	Fixed Dome	Fixed Vandal Dome	VF Bullet	VF Vandal Dome
Lens	3.6mm/2.8mm	2.8mm	2.8mm	2.7-12mm Motorized	2.7-12mm Motorized
Image Sensor	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS
Field of View (H)	84°/101°	103°	103°	102°~33°	102°~33°
IR Distance	30m Smart IR	20m Smart IR	30m Smart IR	60m Smart IR	30m Smart IR
Backlight	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC
OSD Menu	Yes	Yes	Yes	Yes	Yes
WDR	D-WDR	D-WDR	D-WDR	D-WDR	D-WDR
Noise Reduction	2D	2D	2D	2D	2D
Frame Rate	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P
Video Output	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS
Audio In	-	-	-	-	-
Alarm In/Out	-	-	-	-	-
Protection	IP67	-	IP67, IK10	IP67	IP67, IK10
Temperature	-40°C~+60°C	-40°C~+55°C	-40°C~+60°C	-30°C~+60°C	-30°C~+60°C
Power Consumption	DC 12V Max. 3.3W (0.3A)	DC 12V Max. 3.3W (0.3A)	DC 12V Max. 3.4W (0.3A)	DC 12V Max. 12.1W (1A)	DC 12V Max. 6.3W (0.5A)
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year

HDCVI Cameras

	1080P Alarm Over Coax		1080P Audio Over Coax		Full-Colour Starlight	1080P Cooper		
Model	ME1200AP-PIR	ME1200DP-LED	HDW1200EMP-A	HFW1200TLP-A	HFW1239TP-LED	B1A21P	T1A21P	B4A21P-VF
Appearance								
Type	Fixed PIR Covert	Active Deterrence	Audio Dome	Audio Bullet	Full-Colour Bullet	Plastic Bullet	Plastic Dome	Metal VF Bullet
Lens	2.8mm	2.8mm	2.8mm	3.6mm	3.6mm	2.8mm	2.8mm	2.7~12mm
Image Sensor	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS
Field of View (H)	107°	111°	103°	87°	86°	103°	103°	103~33°
IR Distance	-	20m Smart IR	50m Smart IR	80m Smart IR	20m LED (White)	20m Smart IR	20m Smart IR	40m Smart IR
Backlight	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC
OSD Menu	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WDR	D-WDR	D-WDR	D-WDR	D-WDR	WDR 130dB	D-WDR	D-WDR	D-WDR
Noise Reduction	2D	2D	2D	2D	3D	2D	2D	2D
Frame Rate	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P	25fps@1080P 25/50fps@720P
Video Output	HDCVI/CVBS	HDCVI/CVBS	HDCVI/CVBS	HDCVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS
Audio	-	Built-In Siren	Built-In Mic	Built-In Mic	-	-	-	-
Alarm In/Out	110° Passive IR	PIR/LED Strobe	-	-	-	-	-	-
Protection	-	IP67	IP67, IK10	IP67	IP67	IP67	-	-
Temperature	-10°C~+50°C	-10°C~+50°C	-40°C~+60°C	-40°C~+60°C	-40°C~+60°C	-40°C~+60°C	-40°C~+60°C	-30°C~+60°C
Power Consumption	DC 12V Max. 0.8W (0.1A)	DC 12V Max. 4.9W (0.5A)	DC 12V Max. 3.6W (0.3A)	DC 12V Max. 5.3W (0.5A)	DC 12V Max. 3W (0.3A)	DC 12V Max. 2.7W (0.2A)	DC 12V Max. 2.3W (0.2A)	DC 12V Max. 4.6W (0.4A)
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year	2-Year	2-Year	2-Year

HDCVI Recorders

	1080P			Cooper 1080N		
Model	XVR5232AN-I	XVR5116HS-I	XVR5108HS-I	XVR1B16	XVR1B08	XVR1B04
Appearance	 	 	 			
Type	32CH AI DVR	16CH AI DVR	8CH AI DVR	16CH DVR	8CH DVR	4CH DVR
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Audio Compression	G.711A/G.711U/PCM	G.711A/G.711U/PCM	G.711A/G.711U/PCM	G.711A/G.711U/PCM	G.711A/G.711U/PCM	G.711A/G.711U/PCM
Video Standard	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS
Recording Resolution	720P@25fps 1080P@15fps	720P@25fps 1080P@15fps	720P@25fps 1080P@15fps	720P@15fps 1080N@15fps	720P@25fps 1080N@25fps	720P@25fps 1080N@25fps
IP Camera Input	24 (up to 6MP)	24 (up to 6MP)	12 (up to 6MP)	18 (up to 6MP)	10 (up to 6MP)	5 (up to 2MP)
IP Camera Bandwidth	128Mbps	128Mbps	64Mbps	64Mbps	40Mbps	20Mbps
HDD Support	2 x 10TB	1 x 10TB	1 x 10TB	1 x 6TB	1 x 6TB	1 x 6TB
Display	HDMI (3840x2160) VGA (1920x1080)	HDMI (3840x2160) VGA (1920x1080)	HDMI (3840x2160) VGA (1920x1080)	HDMI (1920x1080) VGA (1920x1080)	HDMI (1920x1080) VGA (1920x1080)	HDMI (1920x1080) VGA (1920x1080)
Ethernet	1 Gigabit Port	1 Gigabit Port	1 100M Port	1 100M Port	1 100M Port	1 100M Port
Artificial Intelligent Features **Not Combined	2CH Tripwire/Intrusion 2CH Facial Recognition 16CH Smart Motion Detection	2CH Tripwire/Intrusion 2CH Facial Recognition 16CH Smart Motion Detection	1CH Tripwire/Intrusion 1CH Facial Recognition 8CH Smart Motion Detection	8CH Smart Motion Detection	4CH Smart Motion Detection	4CH Smart Motion Detection
Power Consumption	DC12V Max. 60W (5A)	DC12V Max. 24W (2A)	DC12V Max. 24W (2A)	DC12V Max. 24W (2A)	DC12V Max. 18W (1.5A)	DC12V Max. 18W (1.5A)
Warranty	3-Year	3-Year	3-Year	2-Year	2-Year	2-Year

Network Video Recorders

	PRO			PRO POE		LITE
Model	NVR5464-4KS2	NVR5232-4KS2	NVR5216-4KS2	NVR5232-16P-4KS2	NVR5216-16P-4KS2	NVR4108HS-4KS
Appearance						
Type	64CH NVR	32CH NVR	16CH NVR	32CH POE NVR	16CH POE NVR	8CH NVR
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
POE	-	-	-	16 Port (130W)	16 Port (130W)	-
Audio In/Out	1/2	1/1	1/1	1/1	1/1	1/1
Alarm In/Out	16/6	4/2	4/2	4/2	-	-
Bandwidth	320Mbps	320Mbps	320Mbps	320Mbps	320Mbps	80Mbps
HDD Support	4 x 10TB	2 x 10TB	2 x 10TB	2 x 10TB	2 x 10TB	1 x 6TB
Display	2 HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA
Ethernet	2 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 100M Port
Intelligent Video	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change
Star Features	Fisheye Dewarp, POS, ANPR, P2P	Fisheye Dewarp, POS, ANPR, P2P	Fisheye Dewarp, POS, ANPR, P2P	Fisheye Dewarp, POS, ANPR, P2P	Fisheye Dewarp, POS, ANPR, P2P	P2P
Power Consumption	AC220V 16.7W (without HDD)	DC12V Max. 48W (4A)	DC12V Max. 48W (4A)	AC220V 15.2W (Without HDD)	AC220V 15.2W (Without HDD)	DC12V Max. 24W (2A)
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year

Network Cameras

	4MP				Full-Colour Stralight	Audio	2MP	
Model	HFW2431SP-S	HDBW2431EP-S	HFW2431TP-ZS	HDBW2431RP-ZS	HFW2439SP-SA-LED	HDW3441TMP-AS	HFW2230SP-S	HDBW2230EP-S
Appearance								
Type	Fixed IP Bullet	Fixed IP Dome	VF IP Bullet	VF IP Dome	Full-Coulour IP Bullet	Audio AI IP Dome	Fixed IP Bullet	Fixed IP Dome
Lens	3.6mm	2.8mm	2.7~13.5mm Motorized	2.7~13.5mm Motorized	3.6mm	2.8mm	3.6mm	2.8mm
Field of View (H)	84°	102°	104°~28°	104°~28°	81°	103°	91°	110°
Image Sensor	4MP CMOS	4MP CMOS	4MP CMOS	4MP CMOS	4MP CMOS	4MP CMOS	2MP CMOS	2MP CMOS
IR Distance	30m Smart IR	30m Smart IR	60m Smart IR	30m Smart IR	30m LED (White)	50m Smart IR	30m Smart IR	30m Smart IR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	D-WDR	D-WDR
Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Frame Rate	20fps@4MP 25fps@3MP	20fps@4MP 25fps@3MP	20fps@4MP 25fps@3MP	20fps@4MP 25fps@3MP	20fps@4MP 25fps@3MP	25fps@4MP 25fps@3MP	25fps@1080P 25fps@720P	25fps@1080P 25fps@720P
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Perimeter Protection Smart Motion Detection	Tripwire, Intrusion	Tripwire, Intrusion
Audio In/Out	-	-	-	-	Built-In Mic	Built-In Mic	-	-
Alarm In/Out	-	-	-	-	-	-	-	-
Protection	IP67	IP67	IP67	IP67, IK10	IP67	IP67	IP67	IP67
Temperature	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
Power Consumption	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE	DC12V/PoE
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year

PTZ Cameras

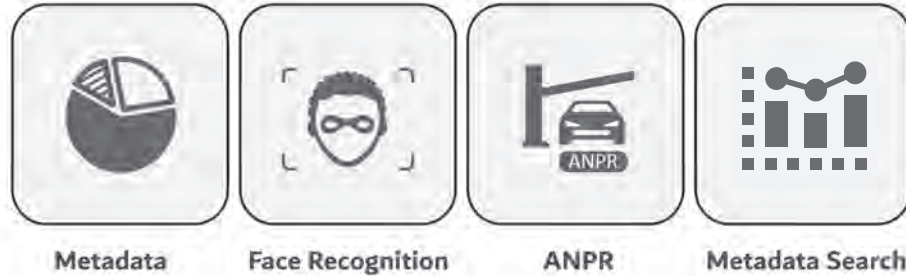
	IP Ultra		IP PRO		IP Lite		HDCVI Lite
Model	SD6AL445XA-HNR	SD6CE445XA-HNR	SD5A225XA-HNR	SD49225XA-HNR	SD1A203T-GN	SD22204UE-GN	SD49225I-HC
Appearance							
Type	Laser IP PTZ	IP PTZ	IP PTZ	IP PTZ	Mini IP PTZ	Mini IP PTZ	HDCVI PTZ
Lens	4~178mm 45x Optical Zoom	4~178mm 45x Optical Zoom	5~135mm 25x Optical Zoom	5~120mm 25x Optical Zoom	2.7~8.1mm 3x Optical Zoom	2.7~11mm 4x Optical Zoom	4.8~120mm 25x Optical Zoom
Field of View (H)	70° ~ 2°	70° ~ 2°	59° ~ 3°	63° ~ 3°	106° ~ 35°	112° ~ 30°	63° ~ 3°
Image Sensor	4MP CMOS	4MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS	2MP CMOS
IR Distance	550m Laser IR	250m Smart IR	150m Smart IR	100m Smart IR	15m IR	-	100m IR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Auto Tracking	Supported	Supported	Supported	-	-	-	-
Intelligent Video	Perimeter Protection Smart Motion Detection	Perimeter Protection Smart Motion Detection	Perimeter Protection Smart Motion Detection	Perimeter Protection Smart Motion Detection	Tripwire, Intrusion	Tripwire, Intrusion	-
Audio In/Out	1/1	1/1	1/1	1/1	1/1	-	-
Memory Slot	Micro SD, 256GB	Micro SD, 256GB	Micro SD, 256GB	Micro SD, 256GB	Micro SD, 256GB	Micro SD, 256GB	-
Alarm In/Out	7/2	7/2	2/1	1/1	-	-	-
Protection	IP67	IP67, IK10	IP67, IK10	IP66	IP66, IK08	IP66, IK10	IP66
Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
Power Consumption	DC36V, Hi-POE, 36W	AC24V, POE+, 26W	AC24V, POE+, 20W	DC12V, POE+, 22W	DC12V, POE, 11W	DC12V/POE, 10W	DC12V, 20W (1.6A)
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year

Artificial Intelligence (AI)

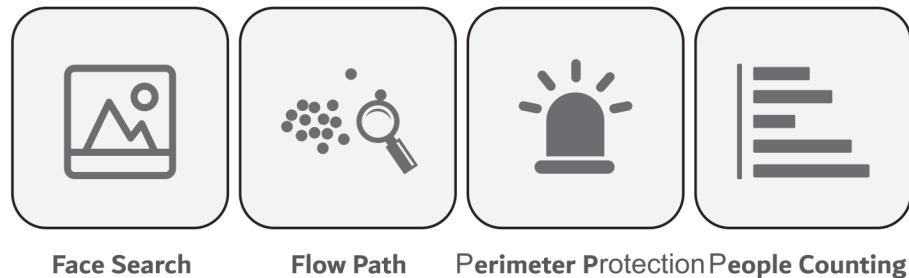
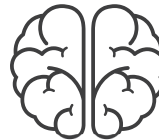
AI Applications

In the surveillance industry, primary target objects of deep learning algorithms are people and vehicles.

Taking this into account, Dahua provides the following technology suitable for various applications.



Deep Learning





Perimeter Protection

- Tripwire or Intrusion Block (Virtual Barriers)
- Human and Vehicle Detection
- Animal and Vegetation Filtering
- Highly Accurate Artificially Intelligent Algorithm
- Minimal Calibration Required
- Cost-Effective and Easy-to-Use

Metadata

- Search Video Incidents Faster and Easier
- Human Filters: Age, Gender, Glasses, Beard, Mask
- Clothing Filters: Shirt/Pants Style and Colour, Bag, Hat
- Vehicle Filters: Colour, Brand, Type, On-Call, Seatbelt
- Non-Vehicle Filters: Type, Colour, Number of People



Facial Recognition

- Access Control Functionality
- Tracks Visitor or Staff Movement within a Controlled Environment
- 98% Accuracy Rate Processing 24 Faces Per Second
- Back-End Facial Recognition on NVR (Limited)
- Front-End Facial Recognition on Dedicated IP Camera (Unlimited)
- 100 000 Users - Facial Database (Expandable)

AI Recorders (Back-End Analytics)

Model	NVR5216-8P-I	XVR5116H-I	XVR5108H-I	XVR5104H-I
Appearance	 	 	 	 
Type	16CH AI NVR	16CH AI DVR	8CH AI DVR	4CH AI DVR
Video Compression	H.265	H.265	H.265	H.265
Audio Compression	ACC/G.711/PCM	ACC/G.711/PCM	ACC/G.711/PCM	ACC/G.711/PCM
Compatibility	Dahua/ONVIF	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS	HDCVI/AHD/TVI/CVBS
Recording Resolution	8MP@25fps	720P@25fps 1080P@15fps	720P@25fps 1080P@15fps	720P@15fps 1080P@15fps
IP Camera Input	16	24 (up to 6MP)	12 (up to 6MP)	6 (up to 6MP)
IP Camera Bandwidth	320Mbps (160Mbps with AI)	96Mbps	48Mbps	24Mbps
HDD Support	2 x 8TB	1 x 10TB	1 x 10TB	1 x 6TB
Display	HDMI (3840x2160) VGA (1920x1080)	HDMI (3840x2160) VGA (1920x1080)	HDMI (1920x1080) VGA (1920x1080)	HDMI (1920x1080) VGA (1920x1080)
Ethernet	1 Gigabit Port 8-Port POE Built-In	1 Gigabit Port	1 100m Port	1 100m Port
AI Features	16CH Perimeter Protection 4CH Facial Recognition Metadata Search	2CH Perimeter Protection 16CH Smart Motion Detection (SMD Plus)	2CH Perimeter Protection 8CH Smart Motion Detection (SMD Plus)	2CH Perimeter Protection 4CH Smart Motion Detection (SMD Plus)
Power Consumption	AC220V Max. 130W (POE)	DC12V Max. 15W (2A)	DC12V Max. 10W (2A)	DC12V Max. 10W (1.5A)
Warranty	3-Year	3-Year	3-Year	3-Year

AI IP Cameras (Front-End Analytics)

	4MP				Three-In-One Camera (TIOC)	
Model	HF3441EP-AS	HF3441TP-ZAS	HDBW3441EP-AS	HDBW3441RP-ZAS	HF3249T1P-AS-PV	HF3549T1P-AS-PV
Appearance						
						
Type	AI Fixed IP Bullet	AI Variable Focal IP Bullet	AI Fixed IP Dome	AI Variable Focal IP Dome	AI TIOC Fixed IP Bullet	AI TIOC Fixed IP Bullet
Image Sensor	4MP CMOS	4MP CMOS	4MP CMOS	4MP CMOS	2MP CMOS	5MP CMOS
Lens	3.6mm	2.7 ~ 13.5mm Motorized	2.8mm	2.7 ~ 13.5mm Motorized	3.6mm/6mm	3.6mm
Field of View (H)	84°	104° ~ 27°	103°	104° ~ 27°	84°/57°	77°
IR Distance	50m Smart IR	60m Smart IR	50m Smart IR	40m Smart IR	40m LED (White)	40m LED (White)
Compression	H.265	H.265	H.265	H.265	H.265	H.265
Frame Rate	4MP@25fps	4MP@25fps	4MP@25fps	4MP@25fps	2MP@25fps	5MP@20fps
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Audio In/Out	1/1	1/1	1/1	1/1	Built-In Mic & Speaker	Built-In Mic & Speaker
AI Features	Perimeter Protection Smart Motion Detection	Perimeter Protection Smart Motion Detection	Perimeter Protection Smart Motion Detection	Perimeter Protection Smart Motion Detection	Perimeter Protection Smart Motion Detection Active Deterrence	Perimeter Protection Smart Motion Detection Active Deterrence
Built-In Mic	Yes	No	No	No	Yes	Yes
Memory Slot	Micro SD, 256GB	Micro SD, 256GB	Micro SD, 256GB	Micro SD, 256GB	Micro SD, 256GB	Micro SD, 256GB
Protection	IP67	IP67	IP67, IK10	IP67, IK10	IP67	IP67
Power Consumption	DC12V 5.5W (POE)	DC12V 9.8W (POE)	DC12V 7.3W (POE)	DC12V 8.5W (POE)	DC12V 8.5W (POE)	DC12V 8.8W (POE)
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year

Network Thermal Cameras

Model		TPC-BF2221	TPC-BF5401	TPC-SD2221	TPC-SD8421
Appearance					
					
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	256 x 192	400 x 300	256 x 192	400 x 300
	Sensitivity	<50mk	<40mk	<50mk	<40mk
	Lens	3.5mm/7mm	7.5mm/13mm/25mm/35mm	3.5mm/7mm	25mm/35mm/50mm
	Field of View (H)	51°/24°	53°/30°/16°/11°	51°/24°	16°/11°/8°
Visible	Image Sensor	2MP CMOS	-	2MP CMOS	2MP CMOS
	Lens	4mm/8mm	-	4mm/8mm	6mm ~ 180mm 30x Zoom
	Field of View (H)	80°/40°	-	80°/40°	59° ~ 2°
	IR Distance	35m/50m	-	35m/50m	150m
General	Frame Rate	Thermal: 25fps@256x192 Visible: 25fps@1080P	Thermal: 25fps@400x300	Thermal: 25fps@400x300 Visible: 25fps@1080P	Thermal: 25fps@400x300 Visible: 25fps@1080P
	Video Output	IP/HDCVI	IP/HDCVI	IP/HDCVI	IP/HDCVI
	Intelligent Video	AI Perimeter & Fire Detection	AI Perimeter & Fire Detection	AI Perimeter & Fire Detection	AI Perimeter & Fire Detection
	Protection	IP67	IP67	IP66	IP66
	Temperature	-40°C ~ +60°C	-30°C ~ +55°C	-40°C ~ +60°C	-40°C ~ +70°C
	Power Consumption	DC12V/PoE (12W)	DC12V/PoE (13W)	DC12V/PoE (24W)	AC24V/PoE (38W)
	Warranty	3-Year	3-Year	3-Year	3-Year

Access ANPR Cameras

Access ANPR cameras are designed for license plate monitoring in low speed scenarios, such as parking lots, gas stations, campus streets, etc. They are suitable for vehicle entrance and exit management as they have a whitelist function and the ability to control barrier gates. With embedded ANPR algorithms and true WDR, the Access ANPR cameras can accurately detect and recognize vehicle license plates in all environments.

Key Features

Easy & Stable

Simple wizard-guided setup; true WDR and auto ICR suits all environments

Advanced Management

Embedded white/black list; relay out port to control barriers

Cost-Effective

Embedded ANPR algorithm saves on cost of maintaining smart servers

Compatible

Work with NVR Pro series or EMS/PMS DSS platforms

*Compatible with NVR Pro Series

Model	HFW7442HP-Z4	ITC231-RU1A-IRL-0316	ITC231-RU1A-IRL-1042
Appearance			
WDR	140dB	100dB	100dB
Lighting Distance	120m Smart IR	40m IR	80m IR
Compression	H.265/H.264	H.265/H.264	H.265/H.264
Resolution	4MP (2688X1520)	2MP (1920x1080)	2MP (1920x1080)
Frame Rate	25/50fps@4MP	25fps@1080P	25fps@1080P
Multi-Streaming	5 Streams	2 Streams	2 Streams
Mounting Bracket	Yes	Not Included	Not Included
Intelligent Video	Embedded ANPR 10~50m 1 Lane up to 80km/h Relay Out to Control Barrier	Embedded ANPR 4~40m 2 Lanes up to 80km/h Relay Out to Control Barrier	Embedded ANPR 10~80m 2 Lanes up to 80km/h Relay Out to Control Barrier
Audio In/Out	1/1	2/1	2/1
Memory Slot	Micro SD, Max. 64GB	Micro SD, Max. 64GB	Micro SD, Max. 64GB
Alarm In/Out	3/2	2/1	2/1
Protection	IP67, IK10	IP66	IP66
Temperature	-40°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
Power Consumption	DC12V, AC24V,PoE+,ePOE	PoE+ (802.3at) 17W	PoE+ (802.3at) 17W
Warranty	3-Year	3-Year	3-Year

Ranger 2

360° Coverage with AI Human Detection and Privacy Mode

Human Detection | 1080P | 360° Coverage | Built-In Siren | Smart Tracking |

Privacy Mode | Abnormal Sound Alarm | Night Vision | Two-Way Talk | Cloud



Network Switches

	Access Switch			PoE Switch			Aggregation
Model	PFS3005-5GT	PFS3008-8GT	PFS3006-4ET-60	PFS3010-8ET-96	PFS4218-16ET-240	PFS4226-24ET-360	PFS5428-24GT
Appearance							
Ethernet Ports	5-Port Gigabit	8-Port Gigabit	4 x 10/100 PoE 2 x 10/100 Uplink	8 x 10/100 PoE 2 x Gigabit Uplink	16 x 10/100 PoE 2 x Gigabit Uplink	24 x 10/100 PoE 2 x Gigabit Uplink	24-Port Gigabit
SFP Fibre Ports	-	-	-	-	2-Gigabit SFP	2-Gigabit SFP	4 10GB SFP
Switching Capacity	1Gbps	1.6Gbps	1.6Gbps	5.6Gbps	8.8Gbps	8.8Gbps	128Gbps
Packet Forwarding	7.44Mpps	11.9Mpps	890Kpps	4.17Mpps	5.36Mpps	6.55Mpps	96Mpps
Buffer Memory	1Mb	1.5Mb	786Kb	4Mb	2.75Mb	2.75Mb	32Mb
MAC Table Size	2K	4K	2K	16K	4K	4K	32K
PoE Standard	-	-	PoE/PoE+/Hi-PoE	PoE/PoE+/Hi-PoE	PoE/PoE+/Hi-PoE	PoE/PoE+/Hi-PoE	-
PoE Budget	-	-	60W	96W	240W	360W	-
PoE Extend Mode	-	-	250m	250m	250m	250m	-
VLAN	-	-	-	-	Supported	Supported	Supported
Flow Control	-	-	Supported	Supported	Supported	Supported	Supported
Management	-	-	-	-	Web	Web	Web, CLI, SNMP
Lightning Protection	Common: 4KV Extend: 0.5KV	Common: 4KV Extend: 0.5KV	Common: 2KV Extend: 1KV	Common: 2KV Extend: 1KV	Common: 4KV Extend: 2KV	Common: 4KV Extend: 2KV	Common: 4KV Extend: 2KV
Temperature	0°C ~ +40°C	0°C ~ +40°C	-10°C ~ +55°C	-10°C ~ +55°C	-10°C ~ +55°C	-10°C ~ +55°C	-20°C ~ +55°C
Dimensions (mm)	100×64×25	186×106×33	130×85×26	190×100×30	440×300×44	440×300×44	440×300×44
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year

Accessories

Surveillance HDD						
Model	NCHDD1000	NCHDD2000	NCHDD4000	NCHDD6000	NCHDD8000	NCHDD10
Appearance						
Description	1TB Surveillance HDD 24/7 Reliability 180MB/s Transfer Rate 64MB Cache 3-Year Limited Warranty	2TB Surveillance HDD 24/7 Reliability 180MB/s Transfer Rate 64MB Cache 3-Year Limited Warranty	4TB Surveillance HDD 24/7 Reliability 190MB/s Transfer Rate 64MB Cache 3-Year Limited Warranty	6TB Surveillance HDD 24/7 Reliability 195MB/s Transfer Rate 256MB Cache 3-Year Limited Warranty	8TB Surveillance HDD 24/7 Reliability 210MB/s Transfer Rate 256MB Cache 3-Year Limited Warranty	10TB Surveillance HDD 24/7 Reliability 210MB/s Transfer Rate 256MB Cache 3-Year Limited Warranty

HDCVI Cable				Network Cable		
Model	CB-COAX	CB-POAX	CB-POAX300	DH-PFM920C-A1	DH-PFM920I-5EUN	DH-PFM920I-6UN-C
Appearance						
Description	RG59 Coax UV Stabilized Black 75 Ohms 100m Roll Video Only	RG59 Coax + Power UV Stabilized Black 75 Ohms 100m Roll 2 x 0.5mm Power Cable	Rg59 Coax + Power UV Stabilized Black 75 Ohms 300m Roll 2 x 0.5mm Power Cable	Dahua UTP CAT5e Solid Copper (OFC) Grey/Indoor Use 100m Roll Unshielded Twisted Pair	Dahua UTP CAT5e Solid Copper (OFC) Grey/Indoor Use 305m Roll Unshielded Twisted Pair	Dahua UTP CAT6 Solid Copper (OFC) Grey/Indoor Use 305m Roll Unshielded Twisted Pair

HDCVI Connectors				Network Connectors		
Model	NCBNC	VB109PH	PC108/9	NCOC	NCOC-CAT6	NCCTVBOOT
Appearance						
Description	BNC Male Crimp Type Connector 1mm Gold Pin 6mm Ferrule	HD Single Channel Balun HDCVI, AHD, TVI & CVBS Press Fit Terminals HD Transmission: 200m SD Transmission: 400m	Power Jack Plugs Male or Female 2.5mm DC Connector Press Fit Terminals	RJ45 CAT5 Crimp Type Connector 8-Pin Configuration for CAT5	RJ45 CAT6 Crimp Type Connector 8-Pin Configuration for CAT6	RJ45 Boot Grey Rubber Boot for RJ45 Connector

Power Supplies						
Model	DH-PSU-12V3A	MD100-12V	CCTVPSU10A	CCTVPSU20A	DH-PFM350-900	N851
Appearance						
Description	Plug-In Transformer Output: DC 12V/3A Input: AC 220V Switch-Mode Power Supply SA 2-Pin Plug	2CH Switching Power Supply Output: DC 12V/10A Input: AC 220V Dual Channel (5A) Excludes Plug	9CH Switching Power Supply Output: DC 12V/10A Input: AC 220V 9 Channel (1.1A) SA 3-Pin Plug	18CH Switching Power Supply Output: DC 12V/25A Input: AC 220V 18 Channel (1.3A) SA 3-Pin Plug	1.5kVA UPS Inverter Line-Interactive 1500VA/900W 2-6ms Transfer Time	2.4kVA Mecer 24V Inverter Automatic Switch-Over 2400VA/1440W 20ms Transfer Time Incl. 2 x 105A Batteries & Mobile Battery Box

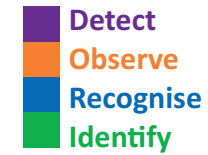
Tools			CCTV Testers			
Model	T009	T5005	T042	CT2800HDA	DH-PFM900-E	DH-PFM907
Appearance						
Description	RG59 Crimping Tool Coaxial Crimper 8mm; 6mm; 5mm; 3mm; 1mm Handle Lock	Stripping Tool 0.2mm ~ 4mm Adjustable Blade Cable Stripper Wire Cutter	RJ45 Crimping Tool CAT5/6 Crimper Stripping Tool Cutting Tool Handle Lock	HDCVI Camera Tester 3.5 Inch LCD Screen (480x320) HDCVI/AHD/TVI/CVBS 1080P/720P/960H PTZ/OSD Menu Control 3000mAh Lithium Ion	All-In-One Camera Tester 4 Inch IPS Screen (800x480) IP/HDCVI/AHD/TVI/CVBS IP Camera Compatible H.265 Decoding Protocol 3000mAh Lith-Ion Battery	All-In-One Camera Tester 7 Inch Touch Screen (1920x1200) IP/HDCVI/AHD/TVI/CVBS Wi-Fi/Spectrum Analyzer PoE Output 2 x 5000mAh Lith-Ion Battery

Display						
Model	DH-LM18	VS230HD	DH-L32	DH-PFM700-E	DH-PFM701-4K	CB-HDMI
Appearance						
Description	18.5 Inch Monitor Industrial 24/7 LCD Panel 1366x768 @ 60Hz 1 VGA/ 1 HDMI VESA Mount	23 Inch Monitor LCD Panel 1920x1080 @ 60Hz 1 VGA/1 HDMI VESA Mount	32 Inch Monitor Industrial 24/7 LCD Panel 1920x1080 @ 60Hz 1 VGA/2 HDMI VESA Mount	60m HDMI Extender UTP CAT5e or CAT6 PoE TX to RX 1 x DC 5V Adapter Metal Casing	HDMI Splitter 2 Way (1:2) DC 5V Adapter Metal Casing	HDMI Cables 1m, 2m, 5m & 10m HDMI 1.4 HDMI 2.0 Available

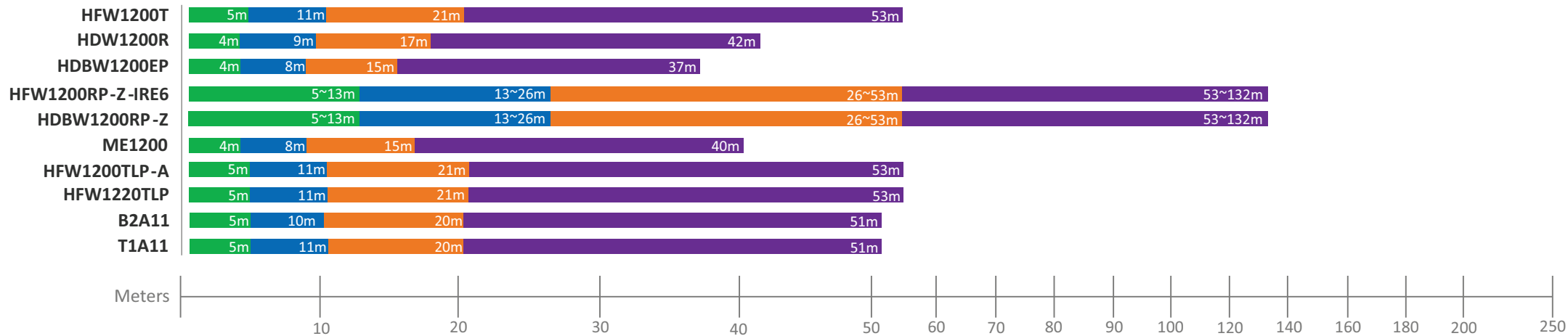
DORI Distance

Find the Optimal Camera for Your Individual Surveillance Needs

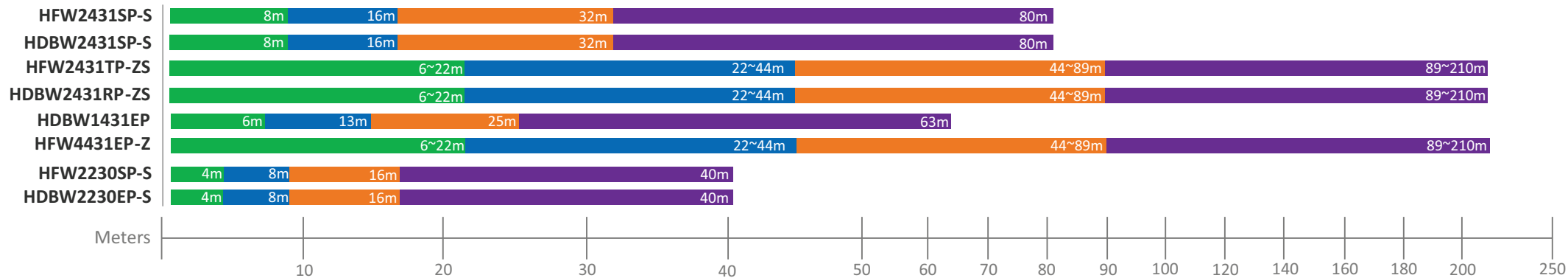
The DORI distance is a 'general proximity' of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test results according to EN 62676-4 which defines the criteria for *Detect*, *Observe*, *Recognize*, and *Identify*, respectively.



HDCVI Cameras

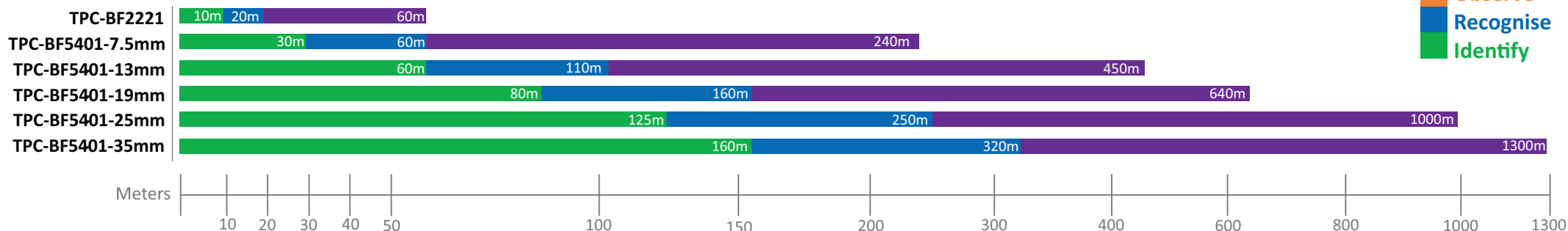


IP Cameras

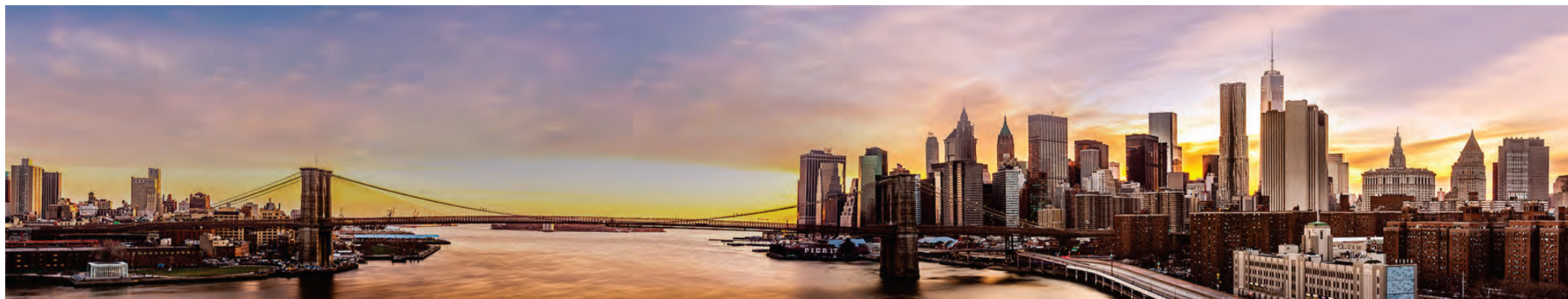
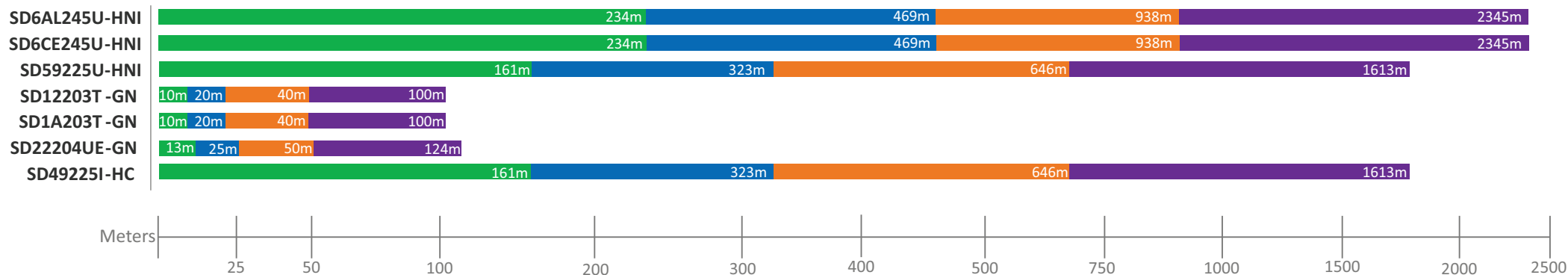


DORI Distance

Thermal Cameras



PTZ Cameras



WWW.



ENABLING A SAFER SOCIETY AND SMARTER LIVING WITH CCTV SURVEILLANCE

CONTACT US

GAUTENG BRANCHES	Johannesburg East (H.Q)	219 Jet Park Road, Aerostar Business Park	011 397 3507
	Johannesburg North	174 Bernie Street, Kya Sand, Randburg	011 708 6442
	Johannesburg South	12 Dante Street, Alberton	010 157 1161
	Johannesburg West	599 Ontdekkers Road, Florida, Roodepoort	011 472 8823
	Centurion	74 Cantonments Road, Cnr. Botha Ave, Lyttelton	012 880 0222
	Pretoria	1185 Steve Biko Road, Wonderboom South	012 335 4290
	Vanderbijlpark	4 Prime Business Park, 6 Rabie Street	016 931 0408
	Johannesburg Training Centre	80 Herman Road, Harmelia, Ext. 2	011 397 3507
KZN BRANCHES	Durban North	Unit B, 213 Kenneth Kaunda Road	031 563 0274
	Newcastle	12A Harding Street	034 880 0330
	Pietermaritzburg	51 Winston Road	033 342 6722
	Pinetown	Unit 1, Suffert Industria Park, 7 Suffert Street	031 702 6351
	Vryheid	Unit F, 153 President Street, Cnr Hlobane Street	034 981 0318
WESTERN CAPE BRANCHES	Cape Town (Epping)	Unit 15, Viking Business Park, 7B Park Road, Epping Industria	021 534 5056
	Cape Town (Diep River)	Shop 2, Tramways Village, 89 Main Road	010 880 8281
	Cape Town (Brackenfell)	Unit 17B, Brackenfell Business Park, Old Paarl Road	021 879 1978
	Cape Town (Montague Gardens)	16 Montague Drive	021 879 3102
	George	No 8, C.J. Langenhoven Road, George Central	044 874 0669
	Paarl	Shop 2, Huguenot Park, Cnr.Klein Drakenstein Road	021 862 0886
	Somerset West	Shop 1, Broadway Centre, 11 Urtel Crescent	021 851 1978
NORTHERN CAPE BRANCHES	Kimberley	27A Schmidtsdrift Road, Rhodesdene	053 861 5631
	Upington	67 Schroeder Street	054 332 1458
EASTERN CAPE BRANCHES	East London	Shop 5B, Paphos Park, 9 Devereaux Avenue	043 880 0830
	Port Elizabeth	No 35 Third Avenue, Newton Park	041 365 7178
MPUMALANGA BRANCHES	Nelspruit	Unit 4, 20 Rapid Street, Riverside Industrial Park	013 752 7152
	Ermelo	22 Kerk Street	017 880 0888
FREE STATE BRANCHES	Bloemfontein	18 Kolbe Lane, Oranjesig	051 448 6695
	Bethlehem	Shop 8 & 9, River Walk Centre, 4 Muller Street	058 050 1090
LIMPOPO BRANCH	Polokwane	Cnr. Zune and Veldspaat Street, Extension 42	015 292 6273
NORTH WEST BRANCHES	Klerksdorp	72 Central Avenue, Flamwood	018 468 8273
	Potchefstroom	Havenga Building, 35 Dr. James Moroka Avenue	018 297 1488
	Rustenburg	Shop 8, Waterfall Mall, 1 Howick Avenue	014 537 2884
INTERNATIONAL BRANCHES	JVA Australia	55-57 Kabi Circuit, PO Box 527, Deception Bay QLD	+61 499 000 455
	JVA USA	4838 FM2001, Lockhart, Texas	+1 512 413 8661

Although the information received from the manufacturers and presented in this product brochure is believed to be accurate and reliable, no responsibility for inaccuracies can be assumed by Ndlovu Fencing. Performance data is typical only and variations owing to component manufacturing tolerances are normal.

ISO 9000 - 2000 Approved