

# MONITORAGGIO TERMICO

Prodotti e Soluzioni

2017 Ver.1

# CONTENUTI

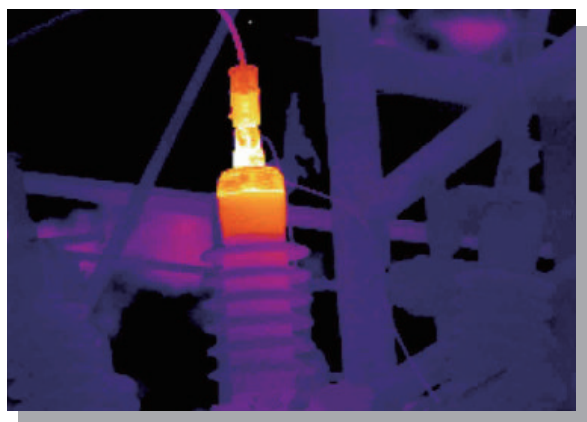
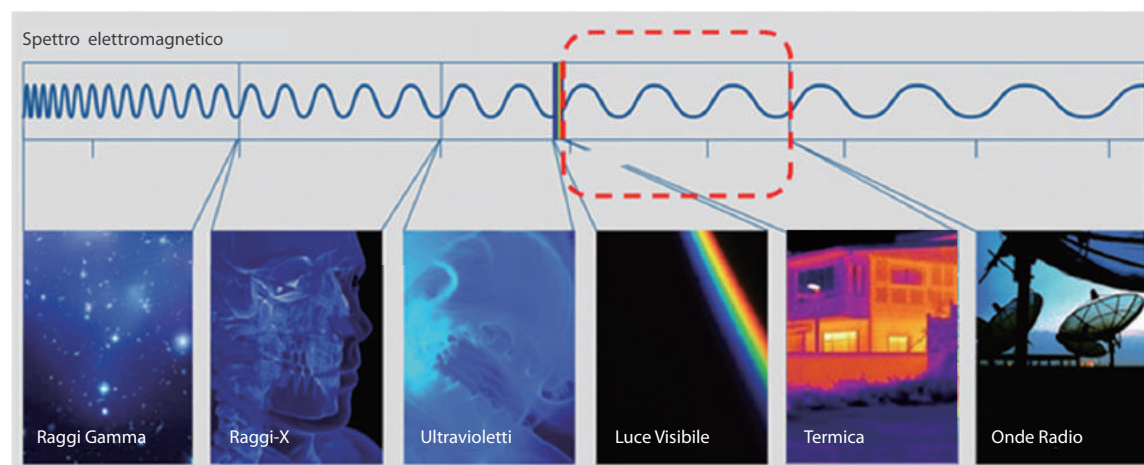
- **Telecamere Termiche** ..... 04 - 13
  - Serie Ultra
  - Series Pro
  - Serie Lite
- **NVR / Accessori** ..... 14 - 15
  - NVR
  - Accessori
- **Software Video** ..... 16 - 16
  - Software Video
- **Soluzioni Termiche** ..... 17 - 21
  - Controllo Perimetrale
  - Frontiere e Coste
  - Industrie
  - Altre Applicazioni
- **Distanza Effettiva** ..... 22 - 22
  - Distanza Effettiva

## Cos'è il rilevamento termico?

Ogni oggetto con una temperatura superiore allo zero assoluto ( $-273,15\text{ }^{\circ}\text{C}$ ) emette radiazioni. Le radiazioni infrarosse si trovano tra lo spettro visibile ( $0,4\sim 0,75\mu\text{m}$ ) e le microonde ( $>15\mu\text{m}$ ). Anche se non possiamo vederle le percepiamo tutti i giorni: il sole e il fuoco sono fonte di radiazioni infrarosse che possiamo percepire attraverso il calore. La qualità delle immagini dipende dalla differenza di temperatura e alti differenziali producono immagini migliori. Ecco come distinguiamo la differenza di temperatura nelle riprese termiche.

Oggetti diversi emettono diversi tipi di radiazioni e questi dati vengono raccolti dalle ottiche e inviati al rilevatore di infrarossi che li converte in un segnale elettrico. Il segnale viene poi processato in un'immagine dal DSP.

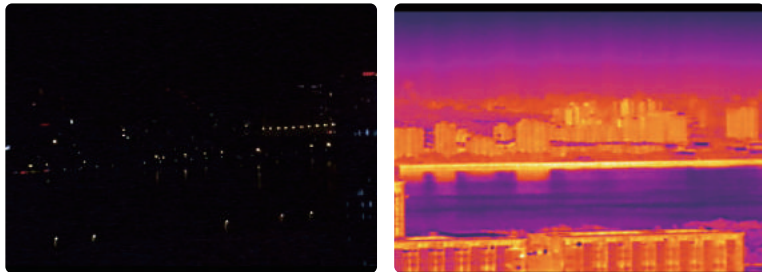
Le immagini termiche includono inoltre informazioni sulla temperatura che possono essere estratte con uno speciale algoritmo.



## Perchè Usare il rilevamento termico?

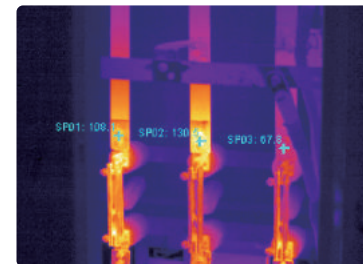
Ai giorni nostri la maggior parte delle telecamere impiegate nei sistemi di sicurezza non può effettuare monitoraggi in notturna o in pessime condizioni climatiche. Le telecamere termiche al contrario sono eccellenti per condizioni simili, in quanto non necessitano di una fonte luminosa. Inoltre, le termiche hanno una distanza di ripresa e rilevamento temperature molto elevata e possono essere affiancate alle telecamere classiche per ottenere una copertura totale.

### Visione notturna



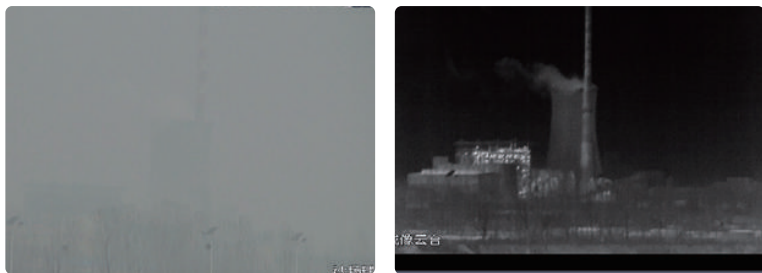
Le telecamere termiche non necessitano di luce e anche nell'oscurità totale offrono immagini perfette.

### Rilevamento Temperature



Le telecamere termiche possono misurare esattamente le temperatura e in caso di pericolo far scattare appositi allarmi.

### Efficacia nei climi difficili



Le telecamere termiche possono essere usate efficacemente anche sotto la pioggia o nella nebbia.

### Visione a lungo raggio



Le telecamere termiche lavorano ad infrarossi e hanno quindi un campo d'azione elevato (con un'ottica da 100mm è possibile rilevare una sagoma umana anche a più di 3 km di distanza).


# TELECAMERE TERMICHE








## Serie Ultra

- Hardware ad alte prestazioni:  
Sensore a microbolometro all'ossido di vanadio (Vox) non raffreddato  
Sensore Sony CMOS 2 Megapixel da 1/1.9"
- Performante ottica zoom (sul entrambi i sensori termico e CMOS)
- IVS altamente affidabile
- Ampia gamma di misurazione termica (Versioni "T")

Serie Ultra		Tribrid PTZ Thermal	
Model		DH-TPC-PT8620C	
Prezzo		100mm Su richiesta	
		20/100mm Su richiesta	
		30/150mm Su richiesta	
Thermal	Image Sensor	Uncooled Vox Microbolometer	
	Effective Pixels	640(H) x 512(V)	
	Sensitivity	<40mK@f/1.0	
	Lens	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional)	
Angle of View		H: 6.2° H: 30.4° ~ 6.2° (Optional) H: 20.6° ~ 4.2° (Optional)	
Visible	Image Sensor	1/1.9" 2M CMOS	
	Lens	6mm ~ 180mm 15mm ~ 360mm (Optional) 21mm ~ 500mm (Optional) 12.5mm ~ 775mm (Optional)	
	Angle of View	H: 51.2°~1.8° H: 32.3° ~ 1.4° (Optional) H: 23.5° ~ 1.0° (Optional) H: 28.8° ~ 0.5° (Optional)	
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W)	
Laser Rander Finder(Optional)	Wavelength	1.57µm (Eye safe)	
	Effective Distance	50m~5000m	
	Accuracy	±2m	
Laser Illuminator (Optional)	Wavelength	808±5nm	
	Effective Distance	1000m	
	Angle of Laser Beam	1°~ 30°	
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -60° ~ 45°, Tilt: -45° ~ 60° (Optional)	
	Intelligent Video	IVS, Fire detection & alarm	
	Compatibility	ONVIF PSIA CGI	
	Ingress Protection	IP66	
	Working Environment	-40°C ~ +70°C	
	Power	AC100V~AC300V/DC30V, <150W	





※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

## Serie Ultra

		Tribrid PTZ Thermal	Hybrid PTZ Thermal	
		DH-TPC-PT8320C	DH-TPC-PT8620B	DH-TPC-PT8320B
Model				
Prezzo		100mm Su richiesta 20/100mm Su richiesta 30/150mm Su richiesta	100mm Su richiesta 20/100mm Su richiesta 30/150mm Su richiesta	100mm Su richiesta 20/100mm Su richiesta 30/150mm Su richiesta
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	336(H) x 256(V)	640(H) x 512(V)	336(H) x 256(V)
	Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional)	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional)	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional)
	Angle of View	H: 3.1° H: 15.2° ~ 3.1° (Optional) H: 10.35° ~ 2.1° (Optional)	H: 6.2° H: 30.4° ~ 6.2° (Optional) H: 20.6° ~ 4.2° (Optional)	H: 3.1° H: 15.2° ~ 3.1° (Optional) H: 10.3° ~ 2.1° (Optional)
Visible	Image Sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm 15mm ~ 360mm (Optional) 21mm ~ 500mm (Optional) 12.5mm ~ 775mm (Optional)	6mm ~ 180mm 15mm ~ 360mm (Optional) 21mm ~ 500mm (Optional) 12.5mm ~ 775mm (Optional)	6mm ~ 180mm 15mm ~ 360mm (Optional) 21mm ~ 500mm (Optional) 12.5mm ~ 775mm (Optional)
	Angle of View	H: 51.2° ~ 1.8° H: 32.3° ~ 1.4° (Optional) H: 23.5° ~ 1.0° (Optional) H: 28.8° ~ 0.5° (Optional)	H: 51.2° ~ 1.8° H: 32.3° ~ 1.4° (Optional) H: 23.5° ~ 1.0° (Optional) H: 28.8° ~ 0.5° (Optional)	H: 51.2° ~ 1.8° H: 32.3° ~ 1.4° (Optional) H: 23.5° ~ 1.0° (Optional) H: 28.8° ~ 0.5° (Optional)
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W)
Laser Rander Finder(Optional)	Wavelength	1.57µm (Eye safe)	-	-
	Effective Distance	50m~5000m	-	-
	Accuracy	±2m	-	-
Laser Illuminator (Optional)	Wavelength	808±5nm	-	-
	Effective Distance	1000m	-	-
	Angle of Laser Beam	1° ~ 30°	-	-
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -60° ~ 45°, Tilt: -45° ~ 60° (Optional)	300 presets Pan: 0° ~ 360°endless Tilt: -60° ~ 45°, Tilt: -45° ~ 60° (Optional)	300 presets Pan: 0° ~ 360°endless Tilt: -60° ~ 45°, Tilt: -45° ~ 60° (Optional)
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP66	IP66	IP66
	Working Environment	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	AC100V~AC300V/DC30V, <150W	DC24V/AC30V, <100W	DC24V/AC30V, <100W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection




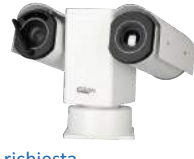
## Serie Ultra

		Hybrid Pan & Tilt Thermal			
		DH-TPC-P8620A-T	DH-TPC-P8620A	DH-TPC-P8320A-T	DH-TPC-P8320A
Model					
Prezzo		25mm Su richiesta 60mm Su richiesta 100mm € 39.460,00	35mm Su richiesta 60mm Su richiesta 100mm € 35.455,00	35mm € 17.235,00 60mm € 21.039,00 100mm Su richiesta	35mm € 14.231,00 60mm € 18.236,00 100mm € 24.242,00
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	25mm/60mm/100mm	35mm/60mm/100mm	35mm/60mm/100mm	35mm/60mm/100mm
	Angle of View	H: 25°/10.4°/6.2°	H: 18°/10.4°/6.2°	H: 13°/5°/3.3°	H: 9.3°/5°/3.3°
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Measurement Preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
Temperature Alarm	Support	-	Support	-	
Visible	Image Sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	Angle of View	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
	IR Distance	150m	150m	150m	150m
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -40° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -40° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -40° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -40° ~ 90°
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP67	IP67	IP67	IP67
	Working Environment	-40°C~+70°C	-40°C~+70°C	-40°C~+70°C	-40°C~+70°C
Power	AC24V, <70W	AC24V, <70W	AC24V, <70W	AC24V, <70W	

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection







## Serie Ultra

		Hybrid Mobile Pan & Tilt Thermal			
		DH-TPC-PT8620M-T	DH-TPC-PT8620M	DH-TPC-PT8320M-T	DH-TPC-PT8320M
Model					
Prezzo		19/25/35/50mm Su richiesta	19/25/35/50mm Su richiesta	19/25/35/50mm Su richiesta	19/25/35/50mm Su richiesta
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	19mm/25mm/35mm/50mm	19mm/25mm/35mm/50mm	19mm/25mm/35mm/50mm	19mm/25mm/35mm/50mm
	Angle of View	H: 32°/25°/18°/12.4°	H: 32°/25°/18°/12.4°	H: 17°/13°/9.3°/6.5°	H: 17°/13°/9.3°/6.5°
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Measurement Preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
	Temperature Alarm	Support	-	Support	-
Visible	Image sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	Angle of View	H: 59° ~ 2.4°	H: 59° ~ 2.4°	H: 59° ~ 2.4°	H: 59° ~ 2.4°
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
	IR Distance	150m	150m	150m	150m
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -90° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -90° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -90° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -90° ~ 90°
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP66	IP66	IP66	IP66
	Working Environment	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	DC12V/5A (DC9V~36V wide range input), <48W	DC12V/5A (DC9V~36V wide range input), <48W	DC12V/5A (DC9V~36V wide range input), <48W	DC12V/5A (DC9V~36V wide range input), <48W







※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

## Serie Ultra

		Hybrid Speed Dome Thermal			
		DH-TPC-SD8620-T	DH-TPC-SD8620	DH-TPC-SD8320-T	DH-TPC-SD8320
Model					
	Prezzo	25mm € 22.322,00 35mm € 23.363,00 50mm € 25.765,00	25mm € 19.959,00 35mm € 20.960,00 50mm € 22.562,00	25mm € 13.552,00 35mm € 14.433,00 50mm € 16.074,00	25mm € 11.469,00 35mm € 12.390,00 50mm € 14.152,00
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	25mm/35mm/50mm	25mm/35mm/50mm	25mm/35mm/50mm	25mm/35mm/50mm
	Angle of View	H: 25°/18°/12.4°	H: 25°/18°/12.4°	H: 13°/9.3°/6.5°	H: 13°/9.3°/6.5°
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Measurement preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
	Temperature Alarm	Support	-	Support	-
Visible	Image sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	Angle of View	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
	IR Distance	150m	150m	150m	150m
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -20° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -20° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -20° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -20° ~ 90°
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP66	IP66	IP66	IP66
	Working Environment	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	AC24V, <38W	AC24V, <38W	AC24V, <38W	AC24V, <38W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

## Serie Ultra







		Hybrid Bullet Thermal			
		DH-TPC-BF8620A-T	DH-TPC-BF8620A	DH-TPC-BF8320A-T	DH-TPC-BF8320A
Model					
Prezzo		19/35/50/60mm su richiesta 	19/35/50/60mm su richiesta	19mm € 10.352,00 35mm € 11.695,00 50mm € 12.956,00 60mm € 14.015,00 	19/35/50/60mm su richiesta
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	19mm/35mm/50mm/60mm	19mm/35mm/50mm/60mm	19mm/35mm/50mm/60mm	19mm/35mm/50mm/60mm
	Angle of View	H: 32°/18°/12.4°/10.4°	H: 32°/18°/12.4°/10.4°	H: 17°/9.3°/6.5°/5°	H: 17°/9.3°/6.5°/5°
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Measurement preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
Temperature Alarm	Support	-	Support	-	
Visible	Image sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	Angle of View	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
	IR Distance	150m	150m	150m	150m
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Tri-mode Video Output	IP/HD-CVI/Analog	IP/HD-CVI/Analog	IP/HD-CVI/Analog	IP/HDCVI/Analog
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP67	IP67	IP67	IP67
	Working Environment	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
Power	AC24V, <50W	AC24V, <50W	AC24V, <50W	AC24V, <50W	

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection




## Serie Pro

- Sensore a microbolometro all'ossido di vanadio (VOx) non raffreddato
- Lente Athermalized & focus free
- Misurazione termica (Versioni "T")
- Allarme incendio
- PoE+/PoE

Serie Pro		Speed Dome Thermal			
		DH-TPC-SD5600-T	DH-TPC-SD5600	DH-TPC-SD5300-T	DH-TPC-SD5300
Model					
					
Prezzo		13mm € 13.633,00 19mm € 13.633,00	13mm € 11.201,00 19mm € 12.330,00	13mm € 8.015,00 19mm € 8.015,00	13mm € 6.477,00 19mm € 6.477,00
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Thermal Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	13mm/19mm	13mm/19mm	13mm/19mm	13mm/19mm
	Angle of View	H: 45°/32°	H: 45°/32°	H: 25°/17°	H: 25°/17°
	Digital Zoom	24X	24X	16X	16X
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Measurement Preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
	Temperature Alarm	Support	-	Support	-
	Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
General	Frame Rate	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P
	Tri-mode Video Output	IP/HDCVI/Analog	IP/HDCVI/Analog	IP/HDCVI/Analog	IP/HDCVI/Analog
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -15° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -15° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -15° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -15° ~ 90°
	Preset Speed	Pan: 0.1° ~ 240° /s Tilt: 0.1° ~ 120° /s	Pan: 0.1° ~ 240° /s Tilt: 0.1° ~ 120° /s	Pan: 0.1° ~ 240° /s Tilt: 0.1° ~ 120° /s	Pan: 0.1° ~ 240° /s Tilt: 0.1° ~ 120° /s
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP66	IP66	IP66	IP66
	Working Environment	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C
Power	AC24V/PoE+, <17W	AC24V/PoE+, <17W	AC24V/PoE+, <17W	AC24V/PoE+, <17W	

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

## Serie Pro

		Bullet Thermal			
Model		DH-TPC-BF5600-T	DH-TPC-BF5600	DH-TPC-BF5300-T	DH-TPC-BF5300
Prezzo		 9mm € 12.599,00    19mm € 12.639,00 13mm € 12.639,00    25mm € 14.441,00 35mm € 15.242,00	 9mm € 10.997,00    19mm € 11.037,00 13mm € 11.037,00    25mm € 12.919,00 35mm € 13.640,00	 7,5mm € 6.992,00    19mm € 7.032,00 13mm € 7.032,00    25mm € 8.674,00 35mm € 9.435,00	 7,5mm € 5.591,00    19mm € 5.631,00 13mm € 5.631,00    25mm € 7.313,00 35mm € 7.993,00
Thermal	Image sensor	Uncooled Vox Microbolometer		Uncooled Vox Microbolometer	
	Effective Pixels	640(H) x 512(V)		640(H) x 512(V)	
	Thermal Sensitivity	<40mK@f/1.0		<40mK@f/1.0	
	Lens	9mm/13mm/19mm/25mm/35mm		9mm/13mm/19mm/25mm/35mm	
	Angle of View	H: 69°/45°/32°/25°/18°		H: 69°/45°/32°/25°/18°	
	Digital Zoom	24X		24X	
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)		-	
	Temperature Measurement preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously		-	
	Temperature Alarm	Support		-	
	Video Compression	H.264/MJPEG		H.264/MJPEG	
General	Frame Rate	30fps@1280x1024 (default)/720P		30fps@1280x1024 (default)/720P	
	Tri-mode Video Output	IP/HDCVI/Analog		IP/HDCVI/Analog	
	Intelligent Video	IVS, Fire detection & alarm		IVS, Fire detection & alarm	
	Compatibility	ONVIF PSIA CGI		ONVIF PSIA CGI	
	Ingress Protection	IP67		IP67	
	Working Environment	-40°C ~ +60°C		-40°C ~ +60°C	
	Power	AC24V/DC12V/PoE, <7W		AC24V/DC12V/PoE, <7W	

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

## Serie Lite

- Sensore a microbolometro all'ossido di vanadio (VOx) non raffreddato
- Allarme incendio
- PoE
- Prezzo competitivo

Serie Lite		Mini Hybrid Bullet Thermal
Model		DH-TPC-BF2120
Prezzo		Su richiesta
Thermal	Image Sensor	Uncooled Vox Microbolometer
	Effective Pixels	160(H) x 120(V)
	Sensitivity	≤50mK@f/1.1
	Lens	1mm
	Angle of View	56°
	Temperature Range & Accuracy	-
	Measurement Preset	-
	Temperature Alarm	-
Visible	Image Sensor	1/3" 2M CMOS
	Lens	4mm
	Angle of View	H: 74.8°
	Min. Illumination	0.005Lux@F1.8 (Color) 0.0005Lux@F1.8 (B/W) 0Lux@F1.8 (IR On)
	IR Distance	30m
General	Frame Rate	Thermal: 1280x960 (default)/ 720P @30fps Visible: 1080P (default)/720P@30fps
	Video Output	HD/SD Switchable
	Intelligent Video	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI
	Ingress Protection	IP67
	Working Environment	-30°C ~ +55°C
	Power	DC12V/1.5A ± 15%, PoE, <12W



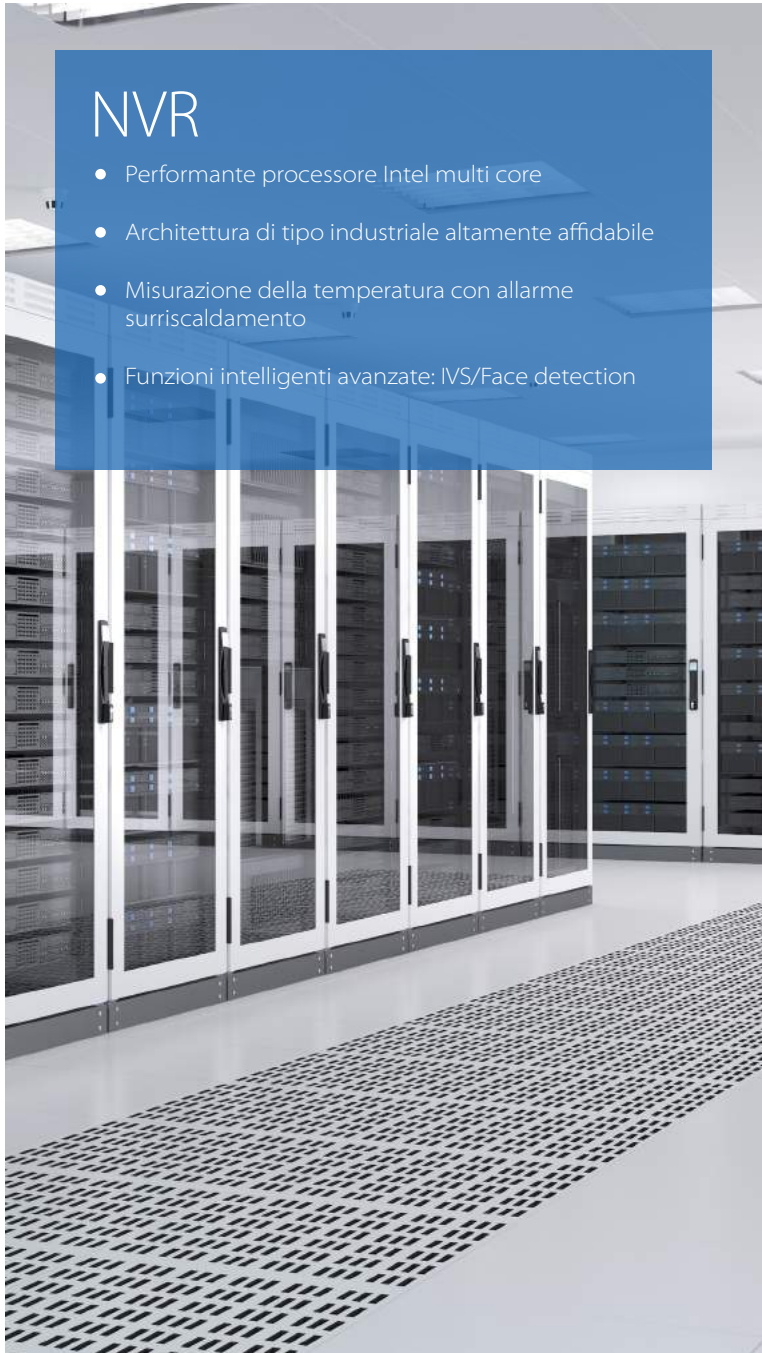
※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

# NVR

## NVR

- Performante processore Intel multi core
- Architettura di tipo industriale altamente affidabile
- Misurazione della temperatura con allarme surriscaldamento
- Funzioni intelligenti avanzate: IVS/Face detection






NVR			
	NVR616DR-128-4KS2	NVR608R-64-4KS2	NVR608-32-4KS2
Model			
Prezzo	€ 7.618,00	€ 3.491,00	€ 1.672,00
Processor	Intel Quad Core CPU	Intel Quad Core CPU	Intel Dual Core CPU
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
IP Video Inputs	128 channel	64 channel	32 channel
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P
Display	2HDMI (Optional: 6HDMI), VGA, LCD	2HDMI, VGA	2HDMI, VGA
Max HDD	16x6TB	8x6TB	8x6TB
RAID	0/1/5/6/10	0/1/5/6/10	0/1/5/6/10
eSATA/Mini SAS	1/1	1/-	1/-
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/8	16/8	16/8
Ethernet	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface	2 Gigabit Ports	2 Gigabit Ports
PoE	-	-	-
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V ~ 240V, Redundant <60W (Without HDD)	AC100V ~ 240V, Redundant <20W (Without HDD)	AC100V ~ 240V <20W (Without HDD)
Intelligent Video	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection, People Counting, Heat Map
Star Features	Support temperature measurement & alarm	Support temperature measurement & alarm	Support temperature measurement & alarm



TPC-BF5300/5600(-T)			TPC-BF2120(-T)			TPC-BF8320A/8620A(-T)				
										
Modello	PFA121	PFA121+PFA152	Modello	PFA122	PFA122+PFA152	Modello	PFA120	PFA140	PFA150	PFA151
Montaggio	Scatola giunzione	Montaggio a palo	Montaggio	Scatola giunzione	Montaggio a palo	Montaggio	Scatola giunzione	Power box	Montaggio a palo	Montaggio ad angolo

TPC-SD5300/5600(-T)							
							
Modello	PFA110+PFB300S	PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA150	PFA151	PFA140	PFA110+PFB303S
Montaggio	Montaggio a parete	Scatola giunzione	Montaggio a soffitto	Montaggio a palo	Montaggio ad angolo	Power box	Montaggio ad angolo

TPC-SD8320/8620(-T)							
							
Modello	PFA110+PFB300S	PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA150	PFA151	PFA140	PFA110+PFB303S
Montaggio	Montaggio a parete	Scatola giunzione	Montaggio a soffitto	Montaggio a palo	Montaggio ad angolo	Power box	Montaggio ad angolo

Alimentatori					
Modello	DC Power		AC Power		
Aspetto					
Descrizione	Wall mount	Junction box	Ceiling mount	Pole mount	Corner mount

Tool				
Modello	PFM880	PFM881	PFM886-10/20	PFM900
Aspetto				
Descrizione	Wall mount	Junction box	Ceiling mount	Pole mount



## Smart PSS

### Sistema intelligente di videosorveglianza professionale

Piattaforma di gestione di sicurezza Dahua



Correzione immagine Fish-eye



Conteggio persone



Videocitofonia



Controllo accessi



Assistenza

Sistemi operativi supportati	Windows/Mac OSX
Dispositivi supportati	CCTV/VDP/ACS
Numero di dispositivi	256
Numero di canali	2000
Numero di schemi	4
Canali di registrazione	32
Lingue	35
VTO supportati	100
VTH supportati	10000
Controllo accessi supportati	100
Porte supportate	1000
Funzioni di base	Preview, Record, Playback, Export, Snapshot, Instant playback
Funzioni intelligenti	Fisheye correction, People counting, Smart search, E-Map, E-PTZ, Smart Track, IVS, Face Detection
Edificio intelligente	Video Intercom, Access Control, Attendance

## DMSS

### Sistema di sorveglianza mobile digitale

Monitorare tutto con il tuo smartphone o tablet sempre e ovunque



Dispositivi	Dispositivi supportati	DVR, NVR, IPC, VTO
	Metodo di aggiunta dispositivi	IP/domain, SN, Import from cloud
	Caratteristiche	Remote config, Alarm config, HDD info, Share device list
Video	Formato compressione	H.265/H.264/MPEG-4/JPEG
	Risoluzione schermo	Up to 1920 x 1080
Anteprima	Massimo di canali che possono essere aperti allo stesso tempo	256
	Caratteristiche	Snapshot, Record, Instant playback, PTZ, Stream control, Talk, Audio, Alarm, Color, Favorites, Remember channels
Playback	Periodo di riproduzione video	72 hours
	Caratteristiche	Snapshot, Record, Faster/slower play, Play next frame, Cut
Notifica allarme	Tipo di allarme	Motion detect, Camera masking, Local alarm, Disk alarm(no disk, Low space, disk Error), Face detection, Ivs alarm
	Tipo di notifica	Video, Preview, Image

# SOLUZIONI MONITORAGGIO TERMICO



Confine



Industria



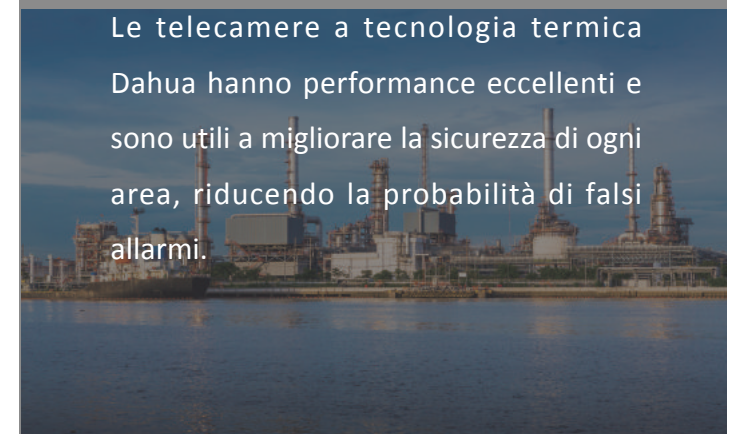
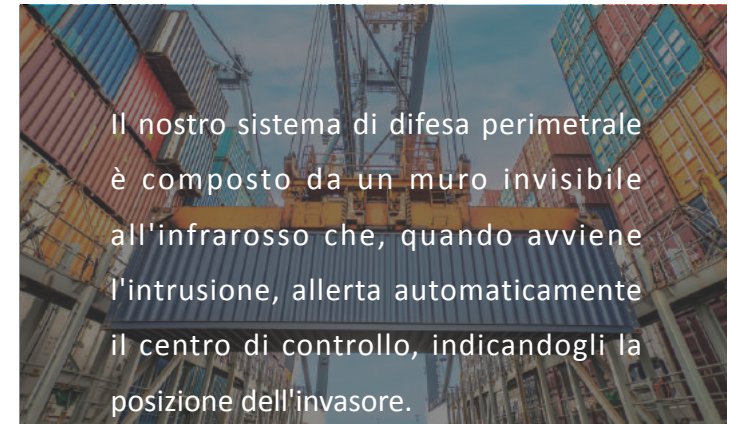
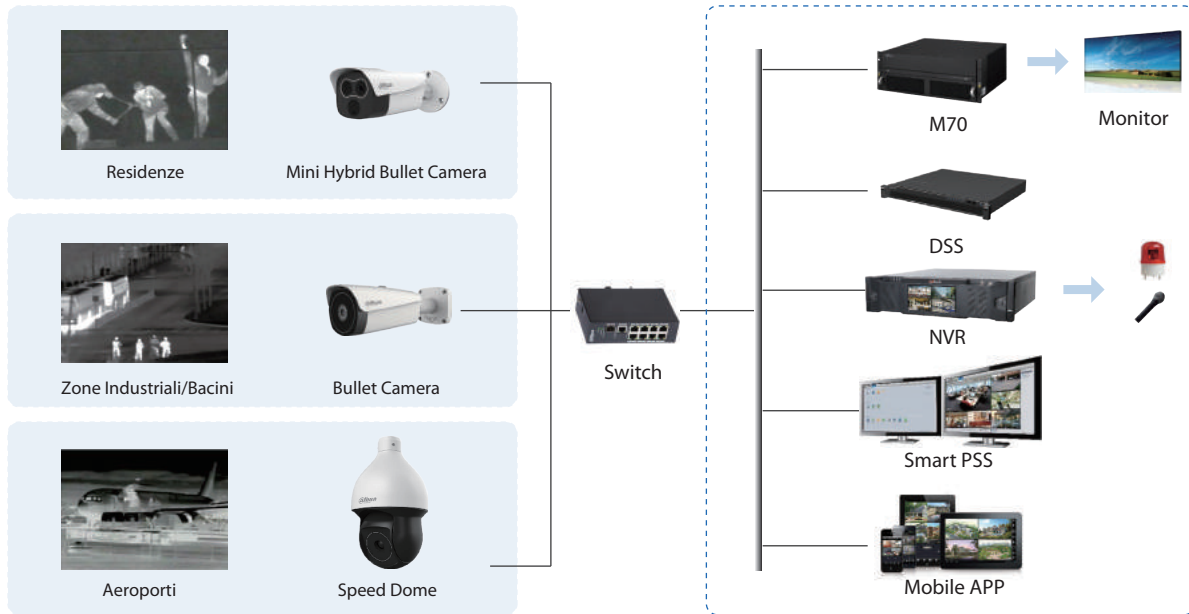
Foresta



Elettrico

# STRUTTURE PERIMETRALI

Residenza / Zona Industriale / Bacino / Aeroporto



## Caratteristiche Principali

- Analisi intelligente altamente affidabile in ogni condizione meteo
- Soluzione end to end
- Supporto interazione eventi di allarme

## Modelli Consigliati

Residenze



BF2120

Zone Industriali/Bacini



BF5600/BF5300

Aeroporti

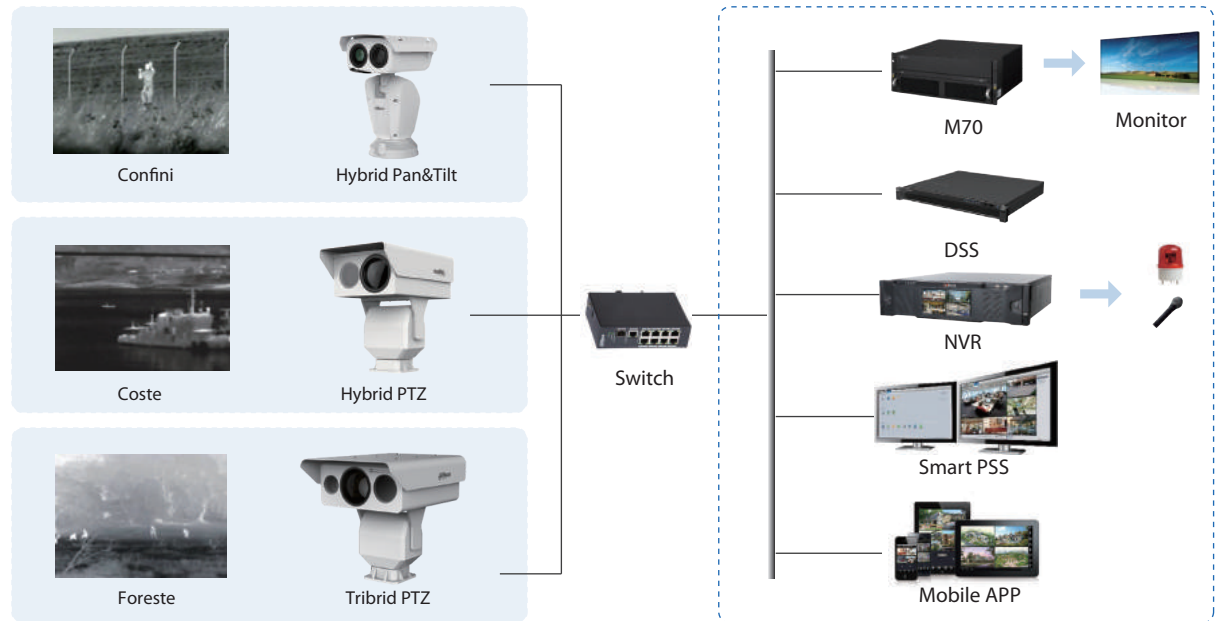


SD5600/SD5300



I controlli di frontiera e costieri sono fondamentali per la sicurezza di ogni nazione.

I prodotti a tecnologia termica Dahua offrono un monitoraggio preciso anche sulle lunghe distanze e sono in grado di eliminare eventuali punti ciechi grazie ad un ampio angolo di riprese.



## Caratteristiche Principali

- Rilevazione a lunga distanza
- Rilevazione incendi
- Soluzione end to end
- Affidabilità in ogni condizione meteo

## Modelli Consigliati

Confini



PT8620A/PT8320A

Coste



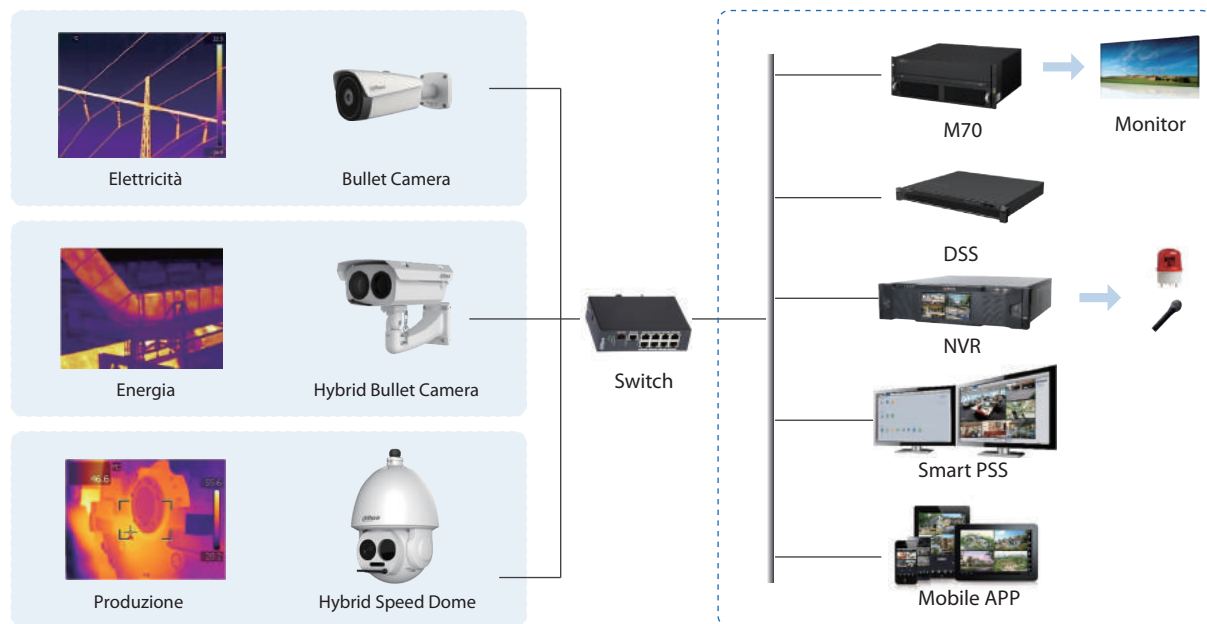
PT8620B/PT8320B

Foreste



PT8620C/PT8320C

Elettricità / Energia / Produzione



## Caratteristiche Principali

- Misurazione termica di alta precisione
- Allarme superamento soglia di temperatura
- Soluzione end to end
- Operazioni facilitate

## Modelli Consigliati

Elettricità



BF5600-T/BF5300-T

Energia



BF8620A-T/BF8320A-T

Produzione



SD8620-T/SD8320-T

In infrastrutture ad alto rischio è di vitale importanza assicurarsi che ogni operazione si svolga in tutta sicurezza.

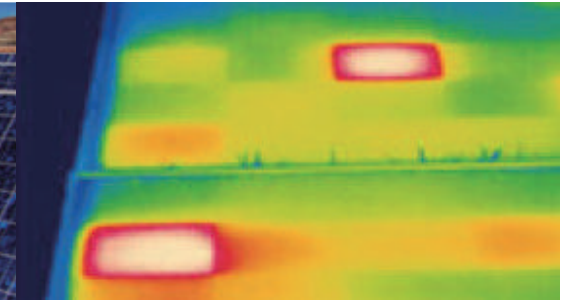
I prodotti a tecnologia termica Dahua hanno rilevatori di temperatura che avvertono ad avvenuto superamento della soglia di pericolo.

Il monitoraggio costante con queste tecnologie permette inoltre di analizzare i problemi in corso e raccogliere dati utili per migliorare le procedure di manutenzione e prevenzione.



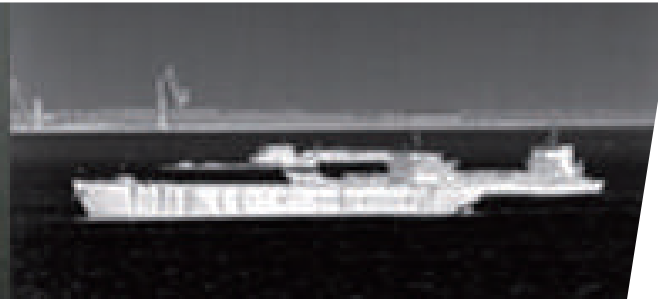
## Energia Solare

Il controllo delle temperature raggiunte dei pannelli solari aiuta a prevenire pericolosi surriscaldamenti



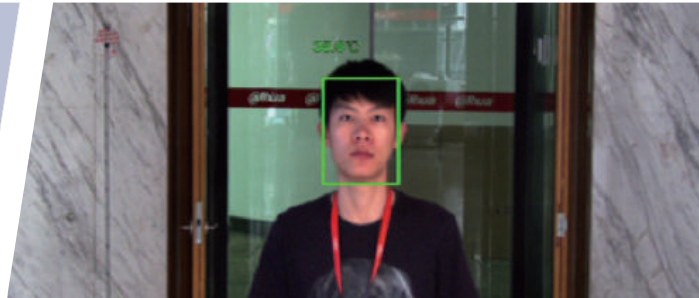
## Trasporti Industriali

Monitoraggio 24 ore su 24 dei flussi merci in ogni condizione climatica



## Ispezioni e Quarantene

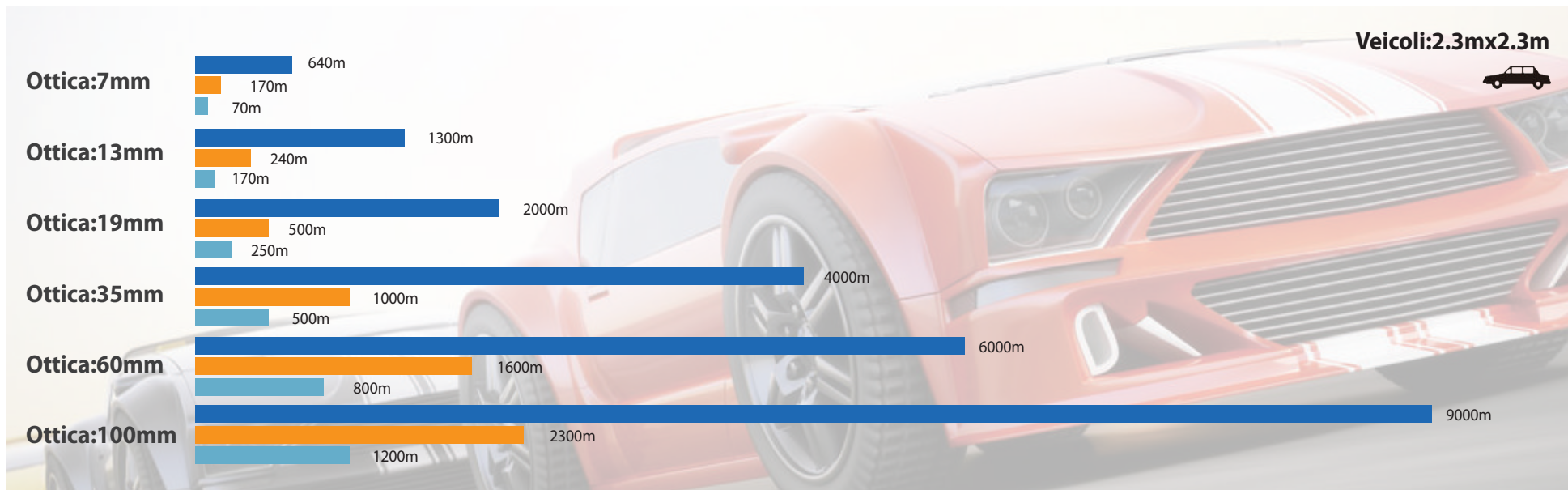
Il rilevamento termico è accurato, rapido e non invasivo, perfetto per limitare la diffusione di eventuali epidemie.



## Incendi

Per aiutare i vigili del fuoco a individuare e raggiungere i superstiti, anche dietro una spessa coltre di fumo

■ Distanza di rilevamento 
 ■ Distanza di riconoscimento 
 ■ Distanza di identificazione



\* Nota: I valori di distanza effettivi mostrati in precedenza sono valori nominali e devono essere utilizzati solo come stima. I calcoli di valore esatto dipendono da un'ampia varietà di condizioni.



DAHUA TECHNOLOGY...  
...MAKE YOUR LIFE SAFER

Distribuito da

\* Design e specifiche sono soggette a modifiche senza preavviso.

Selezione di prodotti Monitoraggio termico - 2017 /V1



**DAHUA TECHNOLOGY CO., LTD.**

No.1199 Bin'an Road, Binjiang District, Hangzhou, China. 310053

Tel: +86-571-87688883 Fax: +86-571-87688815

Email: [overseas@dahuatech.com](mailto:overseas@dahuatech.com)

[www.dahuasecurity.com](http://www.dahuasecurity.com)



© Dahua Technology, All rights reserved