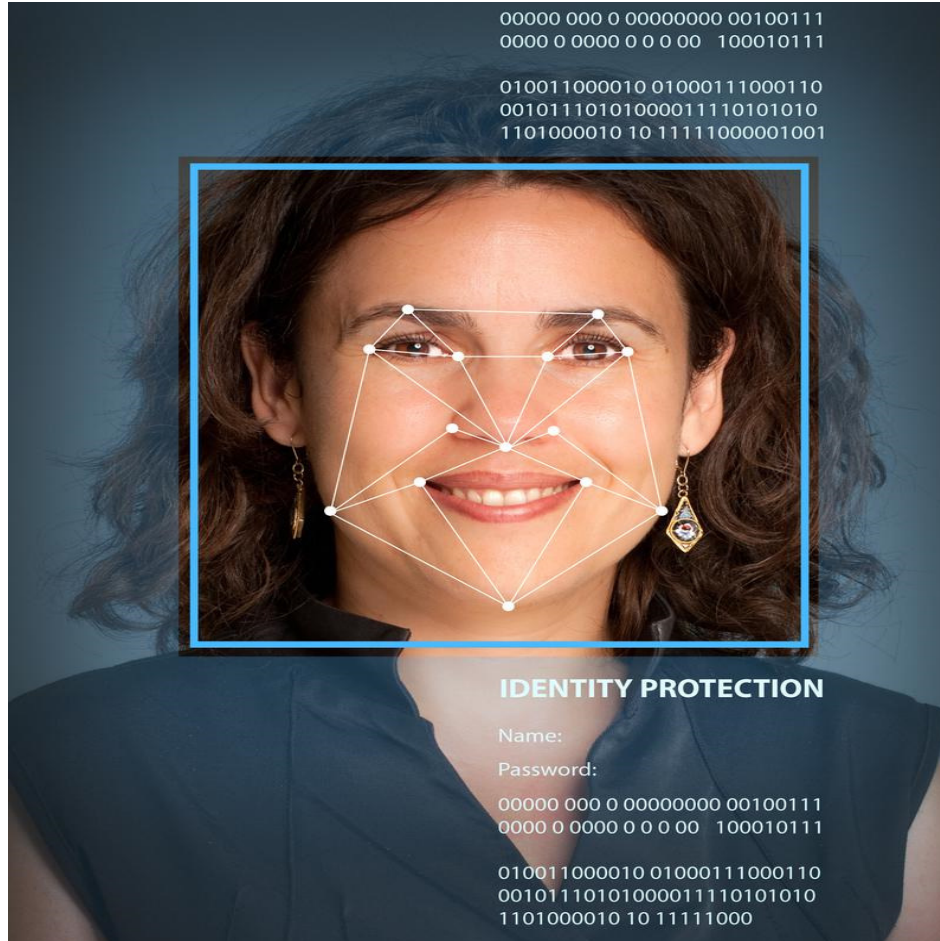


APPLICAZIONE: FACE RECOGNITION



DEEP LEARNING FACE CAPTURE SOLUTION

HIKVISION

SOLUZIONE SISTEMI FACE CAPTURE

PRODOTTI



PANOVU PT SERIES



7 SERIES

First Choice for Security Professionals

DEEP LEARNING FACE CAPTURE SOLUTION



SOLUZIONE SISTEMI FACE CAPTURE



PanoVu Selection Table

Camera	Resolution /MP	Max. Capture Width /m	Focal Length /mm	Capture Distance /m	Installation Height /m	Pupil Distance /pixels
iDS-2PT9122IX-DES (5-50mm)(4mm)	Fixed 2, VF 2 (Face capture mode)	2.5	Fixed 4, Manual focus 5-50	5.3-31	3.5	40
				5.7-30	4	
				6.2-29	4.5	
				7.0-28	5	
				7.7-27	5.5	
	8.6-26	6				
Fixed 2, VF 2 (Target capture mode)	15	Fixed 4, Auto focus 5-50	6.0-30	3.5-8	40	

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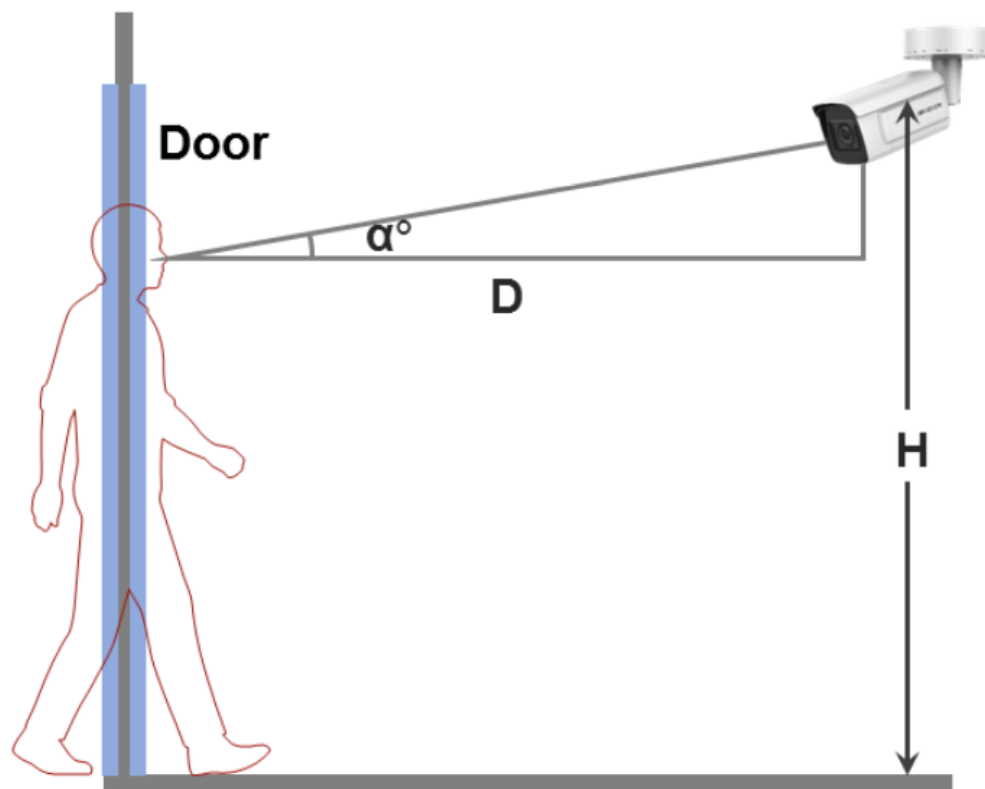
IP Camera Selection Table

Camera	Resolution /MP	Max. Capture Width /m	Focal Length /mm	Capture Distance /m	Installation Height /m	Min. Capture Distance /m	Max. Capture Distance /m	Min. Installation Height /m	Max. Installation Height /m	Pupil Distance /pixels
DS-2CD7A/71/75 XXG0	2	2.5	2.8-12	1.1	1.7	1.1	4.4	1.7	2.3	40
				1.7	1.8					
				2.8	2.0					
			4.4	2.3						
			2.8	2.0						
			8-32	5.6	2.5					
	8.3	3.0								
	11.1	3.5								
	4	3.5	2.8-12	1.1	1.7	1.1	5.0	1.7	2.4	
				3.3	2.1					
				5.0	2.4					
			3.9	2.2						
5.6			2.5							
8-32			8.3	3.0						
11.1	3.5									
13.9	4.0									
8	4	2.8-12	1.7	1.8	1.7	6.7	1.8	2.7		
			5.6	2.5						
			6.7	2.7						
		4.4	2.3							
		5.6	2.5							
		8-32	8.3	3.0						
	11.1	3.5								
	13.9	4.0								
	17.2	4.6								
	2	2.5	3.8-16	1.7	1.8	1.7	5.6	1.8	2.5	
				2.8	2.0					
				5.6	2.5					
5.6			2.5							
8.3			3.0							
11-40			11.1	3.5						
13.9		4.0								
4		3.5	3.8-16	2.8	2.0	2.8	7.2	2.0	2.8	
				5.6	2.5					
				7.2	2.8					
			6.1	2.6						
			11.1	3.5						
	10-50		16.7	4.5						
21.7	5.4									
8	4	3.8-16	2.8	2.0	2.8	8.9	2.0	3.1		
			6.7	2.7						
			8.9	3.1						
		3.3	2.1							
		5.6	2.5							
		5.7-21	8.3	3.0						
	11.1	3.5								
	12.2	3.7								
	11-40	4	11-40	8.3	3.0	8.3	22.2	3.0	5.5	
				11.1	3.5					
				13.9	4.0					
			16.7	4.5						
19.4			5.0							
22.2			5.5							
15-55	4	15-55	11.1	3.5	11.1	30.6	3.5	6.5		
			13.9	4.0						
			22.2	5.5						
		27.8	6.5							
		30.6	7.0							
		30.6	7.0							

DEEP LEARNING FACE CAPTURE SOLUTION

HIKVISION

SOLUZIONE SISTEMI FACE CAPTURE



$$H = \tan(\alpha^\circ) \times D + 1.5$$

$$\rightarrow D = (H - 1.5) / \tan(\alpha^\circ)$$

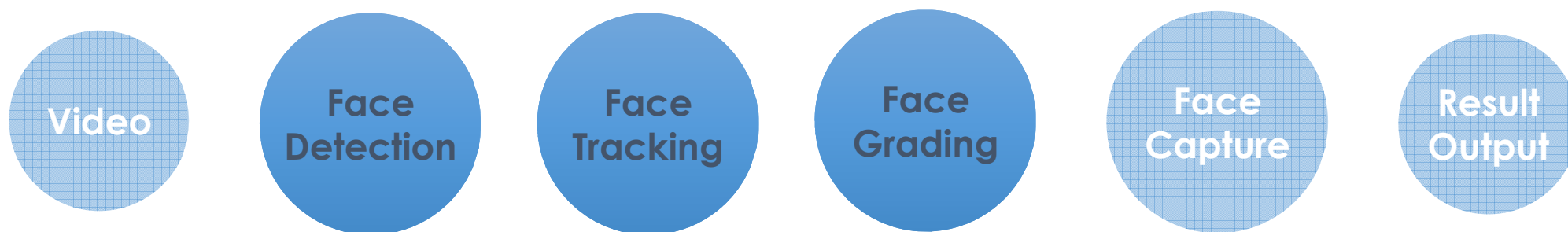
1. H: installation height
2. D: capture distance
3. The height below the head sets as an average value of 1.5 meters
4. α° is the vertically elevation angle,
 $\alpha^\circ = 15^\circ \pm 5^\circ$

The recommended α° is 10° , $\tan(10^\circ) \approx 0.18$

DEEP LEARNING FACE CAPTURE SOLUTION

HIKVISION

PROCESSO DI FACE CAPTURE



ALGORITMO DEEP LEARNING

Riconoscimento e Tracking:

Fino a 30 volti contemporaneamente

Risultati




Fino a 5 volti al secondo

First Choice for Security Professionals

DUAL LENS FACE RECOGNITION CAMERA



SCENARI APPLICATIVI

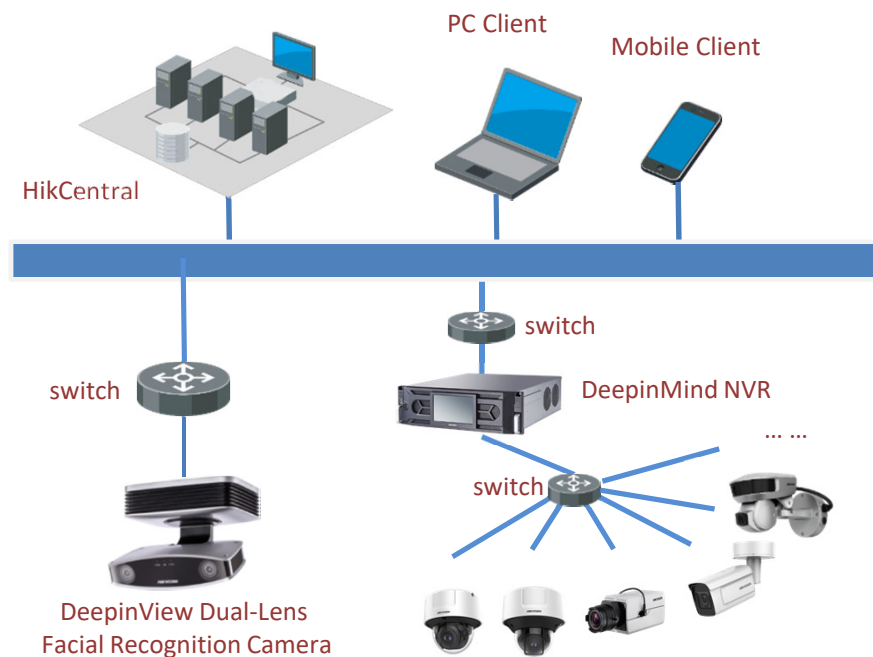
 <p>iDS-2CD8426G0/F-I</p> <p>HC 1.4.1</p>	<h3>Small System</h3>	<h3>Functions</h3> <ul style="list-style-type: none">• Real time face detection and capture• Real time face comparison
 <p>iDS-2CD8426G0/F-I</p> <p>HC 1.4.1</p>	<h3>Small & Medium System</h3> <p>Normal NVR</p> <p>SD Card</p>	<h3>Functions</h3> <ul style="list-style-type: none">• Real time face detection and capture• Real time face comparison• Download captured pictures• Record video
<p>Max 64</p>  <p>iDS-2CD8426G0/F-I</p> <p>iDS-2CD8426G0/F-I</p>	<h3>Large System</h3> <p>DeepinMind NVR</p> <p>DeepinMind Server</p>	<h3>Functions</h3> <ul style="list-style-type: none">• Manage multiple devices• Real time face detection and capture• Real time face comparison• Download captured pictures• Search by face picture• Record video

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APPLICAZIONI - RICONOSCIMENTO VISI (MODULO FACE)



SOLUZIONE CON HIKCENTRAL



Device Model	Functions
DeepinView Cameras	Face picture capture
DeeinMind NVR	Real-time Face Comparison Full-channel picture recognition Storage picture and video Search by picture
HikCentral	Device management Face Library management Alarm center

Solution for general security projects

APPLICAZIONI - RICONOSCIMENTO VISI - HIKCENTRAL

HIKVISION

The screenshot displays the HikCentral Control Client interface. The main window shows a live video feed from a camera labeled 'IDS-2CD3426G0/F-I' with the text 'Dual Lens Face Capture' overlaid. The video feed shows a group of people in a room. A green bounding box highlights a person in the center. The interface includes a search bar, a navigation tree on the left, and a 'HikCentral Face Group' panel on the right. The 'Face Group' panel shows three recognized individuals with their names and recognition percentages: Phil Wring (93%), Hannah Zem... (86%), and Gary Harmer (88%). Below the video feed is an event log table.

Event	Source	Description	Time	Open
Recognized.	Camera 01	Recognized person Phil Wring.	06/09/18 18:46:40	[i]
Recognized.	Camera 01	Recognized person Hannah Zemzam.	06/09/18 18:46:38	[i]
Unrecognized	Dual Lens Face Capt...	Unknown person detected.	06/09/18 18:46:38	[i]

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APPLICAZIONI - RICONOSCIMENTO VISI - SEARCH-HIKCENTRAL

HIKVISION

The screenshot displays the HikCentral Professional Control Client interface. The main area is divided into four columns: Surveillance, Investigation, Video Analysis, and Maintenance. Each column contains several application tiles with icons and labels. A sidebar on the right lists additional tools and management options.

Surveillance	Investigation	Video Analysis	Maintenance
Monitoring	Video Search	People Analysis	Health Monitoring
Alarm Center	Alarm/Event Search	Temperature Analysis	Audit Trail
	Vehicle Search	Vehicle Analysis	
	Identity Access Search		
	Evidence Search		

Tool

- Smart Wall
- VSPayer
- Broadcast
- Alarm Output
- Two-Way Audio

Management

- Download Center
- Local Picture
- Local Recording
- System
- Help

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APPLICAZIONI – RICONOSCIMENTO VISI – SEARCH DATABASE

HIKVISION

The screenshot displays the HikCentral Professional Control Client interface. The main area is divided into four columns: Surveillance, Investigation, Video Analysis, and Maintenance. Each column contains several application tiles with icons and labels. A mouse cursor is hovering over the 'Alarm/Event Search' tile in the Investigation column.

Surveillance	Investigation	Video Analysis	Maintenance
Monitoring	Video Search	People Analysis	Health Monitoring
Alarm Center	Alarm/Event Search	Temperature Analysis	Audit Trail
	Vehicle Search	Vehicle Analysis	
	Identity Access Search		
	Evidence Search		

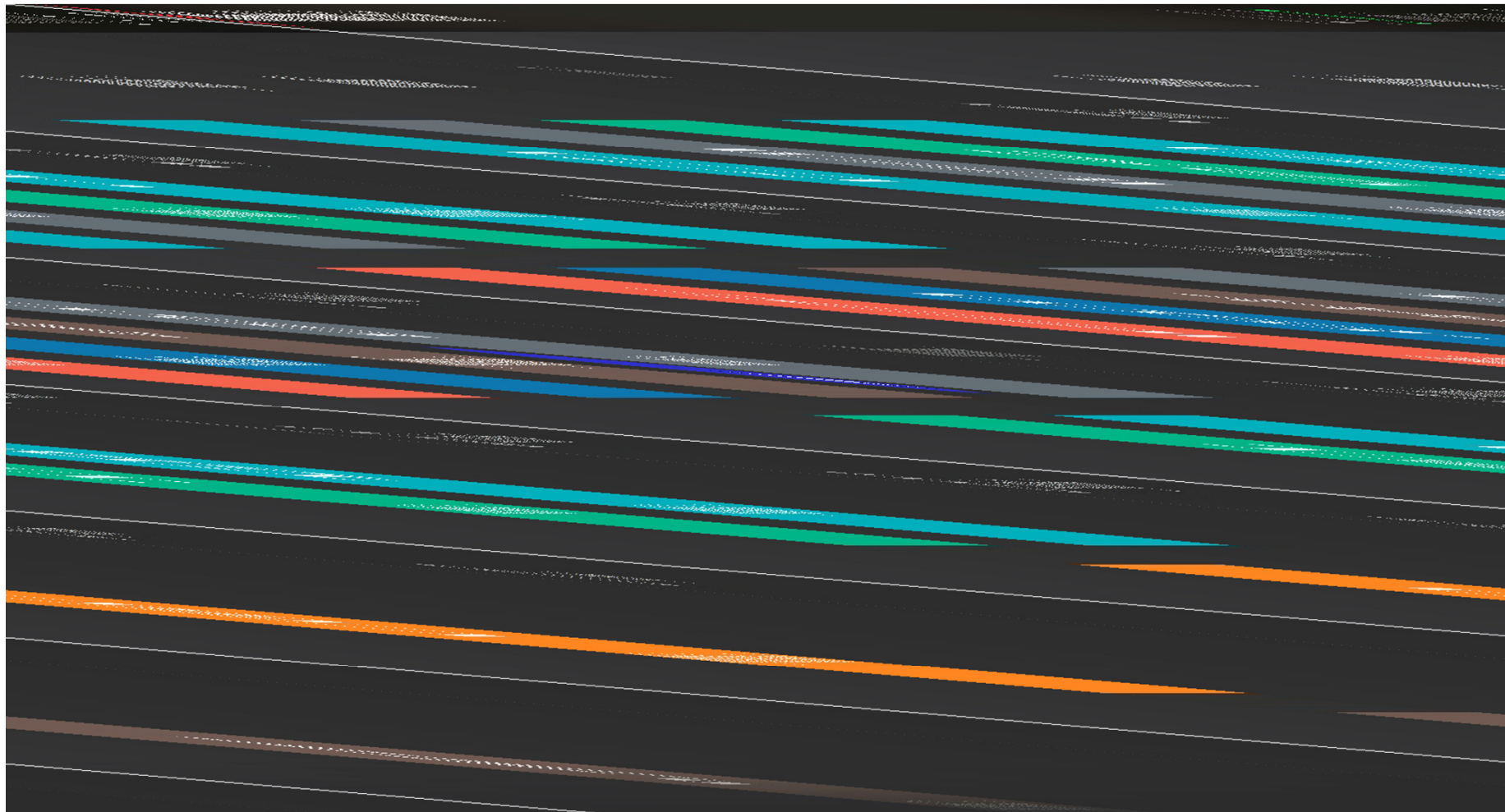
The right sidebar contains the following sections:

- Tool**
 - Smart Wall
 - VSPayer
 - Broadcast
 - Alarm Output
 - Two-Way Audio
- Management**
 - Download Center
 - Local Picture
 - Local Recording
 - System
 - Help

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APPLICAZIONI – RICONOSCIMENTO VISI – STRANGER - **HIKCENTRAL**

HIKVISION



First Choice for Security Professionals

STATISTICHE UOMO/DONNA SU FACE RECOGNITION



Person Feature Analysis

Type

Feature Analysis for One Camera

Feature Analysis in One Region

Camera

Search

- HikCentral Professional
- Face Recognition Retro

Report Type

Daily Report

Time

Today

Generate Report

+ Add to Dashboard Export

Infant Child Teenage Adolescent Youth Prime Middle-Aged Middle and Old Age Elderly

All Persons

Age Group	Percentage
Infant	0%
Child	0.05%
Teenage	0.05%
Adolescent	0.05%
Youth	5.48%
Prime	40.9%
Middle-Aged	49.03%
Middle and Old Age	3.92%
Elderly	0.52%

Gender: Male 79.91%, Female 20.09%

Male Age Distribution

Female Age Distribution

2019/11/12

Middle-Aged 200(47.06%)

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