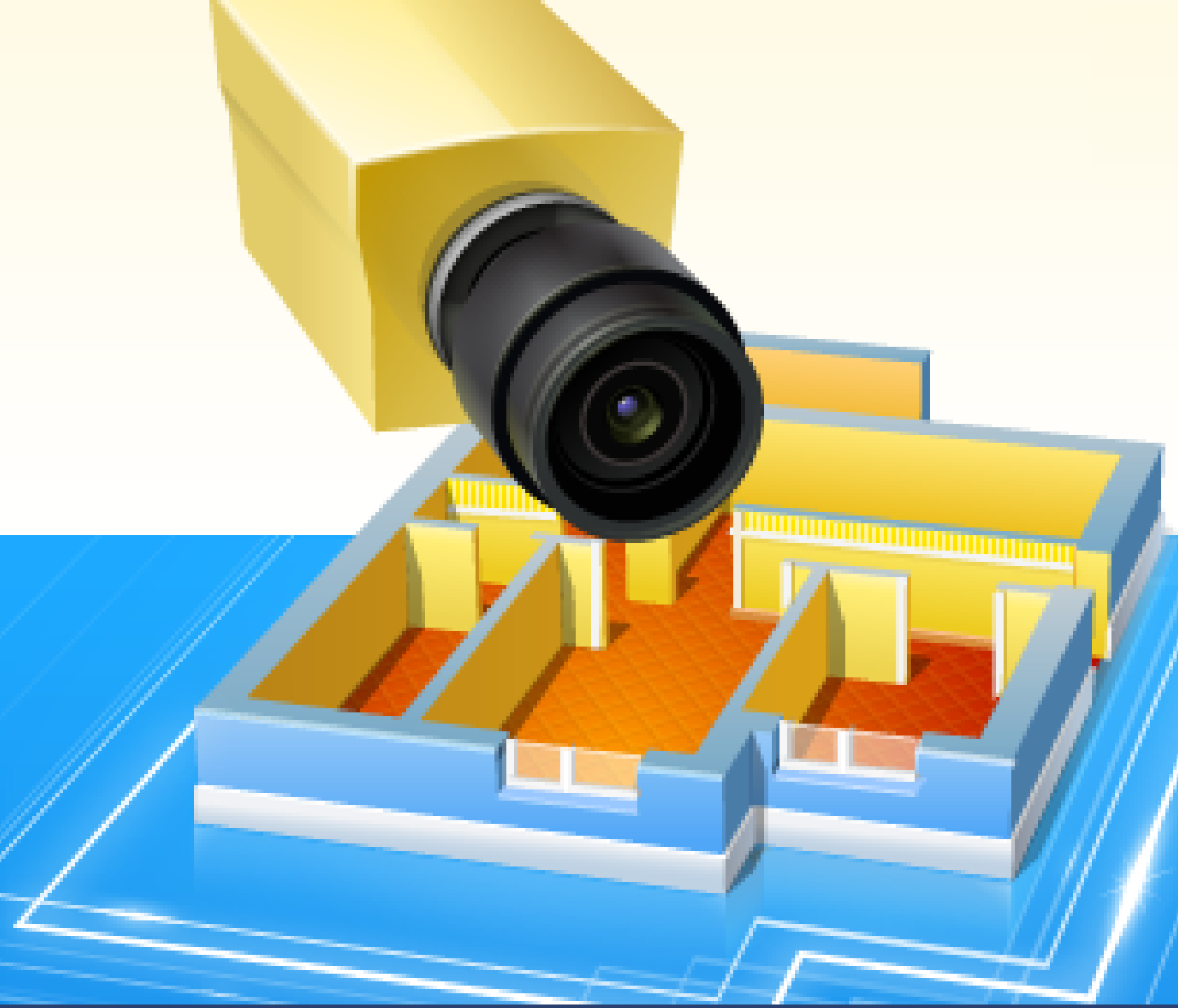


IP Video System Design Tool



Manufacturer: [Dropdown]

Model: [Dropdown]

Sensor Format: 1/3"

Resolution: 4000x2672 (11MP Pro)

Focal Length (mm): 4

Camera Tilt: 26.3

Target Height (m): 18.65

FOV Width (m): 58.47

Height of Lower Boundary (m): 0

Viewing Angles: Horizontal 63.9, Vertical 43.6

Camera	Sensor Size	Installation	Distance	FOV W/L	FOV H/L	Tilt	Focal Len.	Aspect Ra.	Lower Bound	X	Y	Direction	Resolution	Zone Visibility
1	1/3"	20	42.6	58.47	18.65	26.3	4	32	0	113	-69	306	4000x2672	✓



Field of View & Lens Focal Length

Camera Installation Height (m): 6.5

Manufacturer: [Dropdown]

Model: [Dropdown]

Sensor Format: 1/3"

Resolution: 3296x2472 (8MP Pro)

Focal Length (mm): 4.8

Camera Tilt: 28

Network Bandwidth & Disk Space

Camera Installation Drawing | Site Plan | 3D Views | DVR View

Field of View

Distance from Camera (m): 27.1

Target Height (m): 2.94

FOV Width: 27.87

Height of Lower Boundary (m): 0

Viewing Angles: Horizontal 53.1, Vertical 41.1

Camera	Sensor Size	Installation	Distance	FOV W/L	FOV H/L	Tilt	Focal Len.	Aspect Ra.	Lower Bound	X	Y	Direction	Resolution	Zone Visibility
1	1/3"	20	42.6	58.47	18.65	26.3	4	32	0	113	-69	306	4000x2672	✓

Who we are?

JVSG.com excels at creating innovative and unique video surveillance tools and the latest video surveillance design software from the company "IP Video System Design Tool 9.1" is a boon for CCTV system designers helping them to plan optimum surveillance systems while lowering risks of errors. The software also provides an easy and intuitive graphical interface which makes it easy to communicate and exchange ideas with clients.



twitter.com/cctvdesigner



facebook.com/IPVideoSystemDesignTool



support@jvsg.com



youtube.com/user/jvsgcom

Over 2000 companies design video surveillance systems with the help of IP Video System Design Tool.



HIKVISION

SECURITON

IDIS

BOSCH

GEUTEBRÜCK

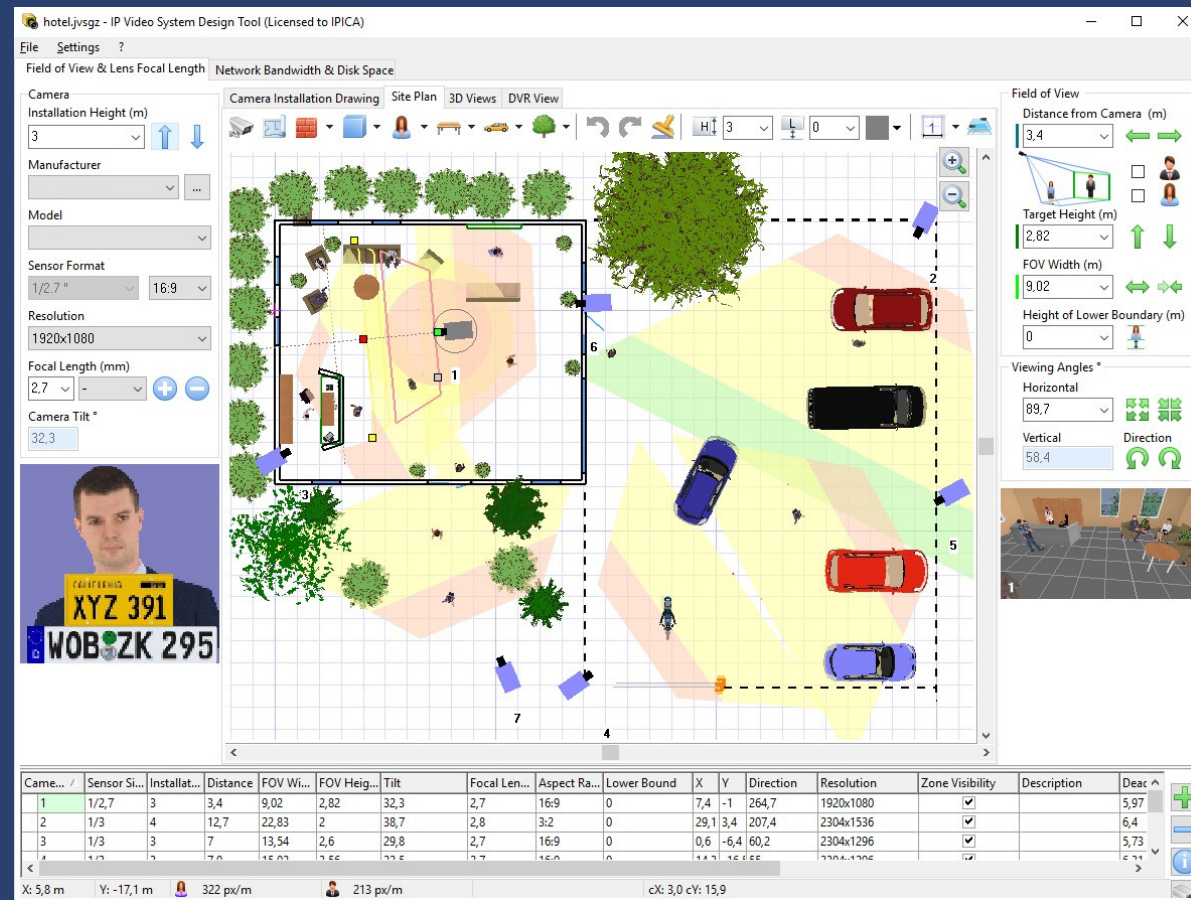
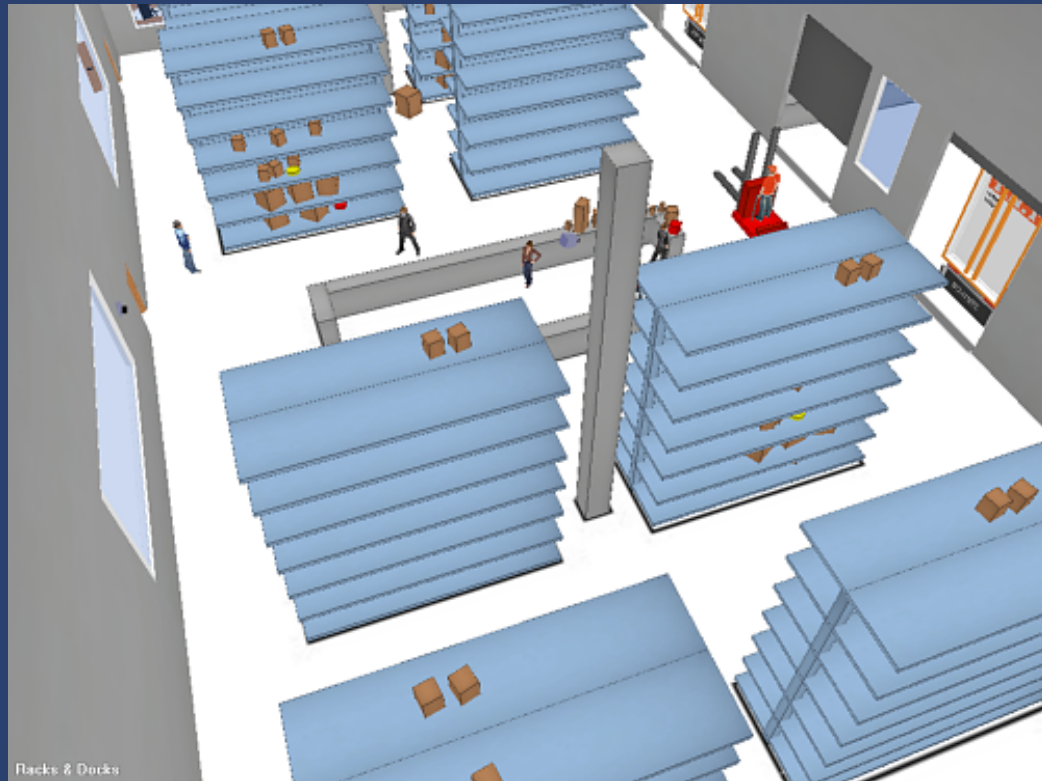
ANIXER

Dallmeier

Why our software

You will be able to show end-users:

- why cameras should be placed in this positions
- why they need a certain number of cameras
- why they need this type of the camera



Using our program you can quickly test different scenarios without actually taking the time to install them

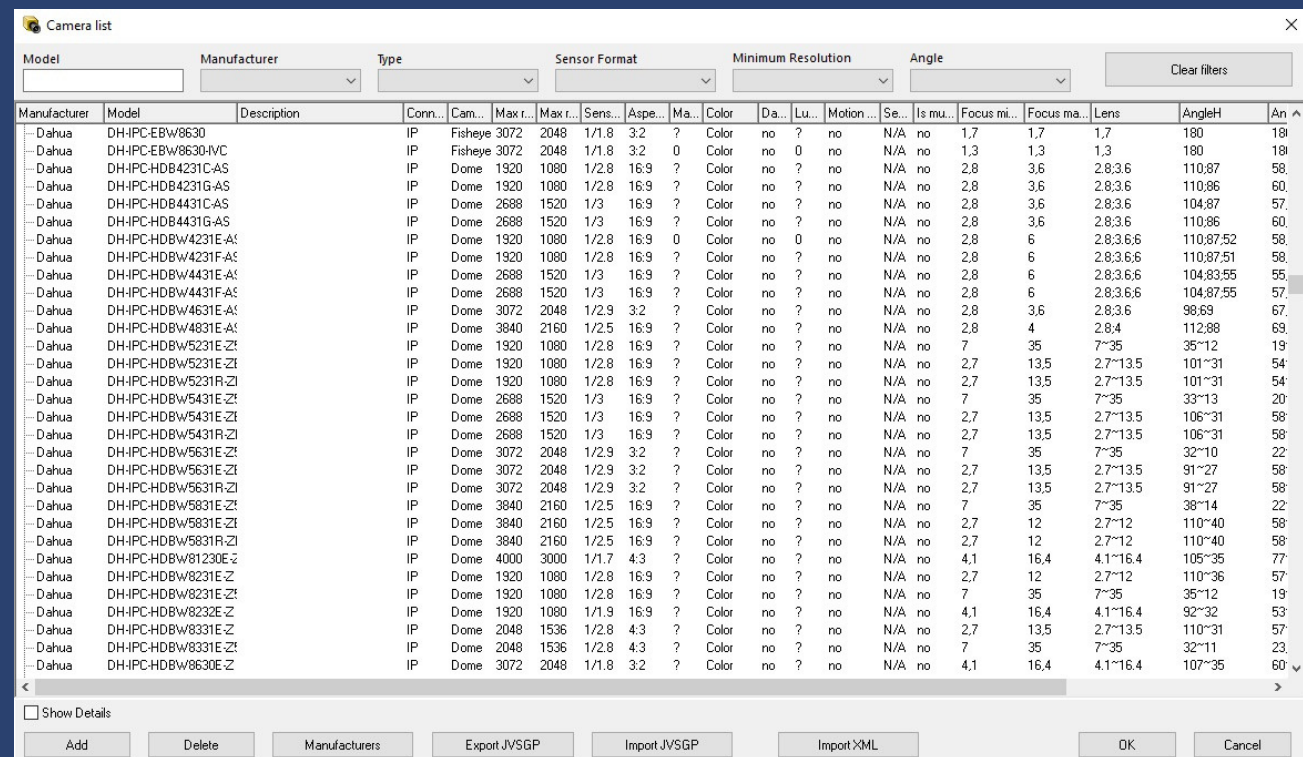
By using our program you seem professional and caring towards you client, standing out from your competitors

What you can do

1

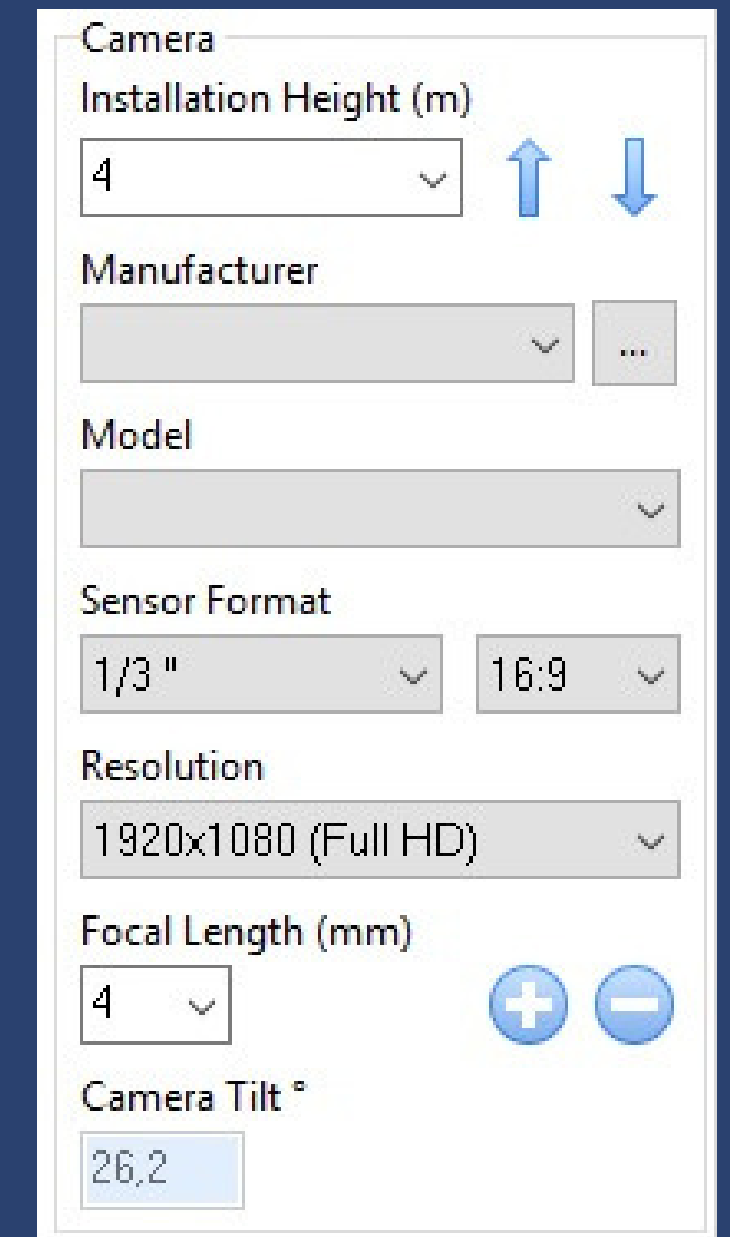
Choose a camera you need

Specify your camera's parameters in order to adapt it to your needs



Manufacturer	Model	Description	Conn.	Cam.	Max r.	Max r.	Sens.	Aspe.	Ma.	Color	Da.	Lu.	Motion...	Se.	Is m...	Focus m...	Focus ma...	Lens	AngleH	An
Dahua	DH-IPC-EBW8630		IP	Fisheye	3072	2048	1/1.8	3:2	?	Color	no	?	no	N/A	no	1.7	1.7	1.7	180	18
Dahua	DH-IPC-EBW8630-IVC		IP	Fisheye	3072	2048	1/1.8	3:2	0	Color	no	0	no	N/A	no	1.3	1.3	1.3	180	18
Dahua	DH-IPC-HDB4231C-AS		IP	Dome	1920	1080	1/2.8	16:9	?	Color	no	?	no	N/A	no	2.8	3.6	2.8:3.6	110:97	58
Dahua	DH-IPC-HDB4231G-AS		IP	Dome	1920	1080	1/2.8	16:9	?	Color	no	?	no	N/A	no	2.8	3.6	2.8:3.6	110:96	60
Dahua	DH-IPC-HDB4431C-AS		IP	Dome	2688	1520	1/3	16:9	?	Color	no	?	no	N/A	no	2.8	3.6	2.8:3.6	104:97	57
Dahua	DH-IPC-HDB4431G-AS		IP	Dome	2688	1520	1/3	16:9	?	Color	no	?	no	N/A	no	2.8	3.6	2.8:3.6	110:96	60
Dahua	DH-IPC-HDBW4231E-AI		IP	Dome	1920	1080	1/2.8	16:9	0	Color	no	0	no	N/A	no	2.8	6	2.8:3.6:6	110:97.52	58
Dahua	DH-IPC-HDBW4231F-AI		IP	Dome	1920	1080	1/2.8	16:9	?	Color	no	?	no	N/A	no	2.8	6	2.8:3.6:6	110:97.51	58
Dahua	DH-IPC-HDBW4431E-AI		IP	Dome	2688	1520	1/3	16:9	?	Color	no	?	no	N/A	no	2.8	6	2.8:3.6:6	104:93.55	55
Dahua	DH-IPC-HDBW4431F-AI		IP	Dome	2688	1520	1/3	16:9	?	Color	no	?	no	N/A	no	2.8	6	2.8:3.6:6	104:97.55	57
Dahua	DH-IPC-HDBW4631E-AI		IP	Dome	3072	2048	1/2.9	3:2	?	Color	no	?	no	N/A	no	2.8	3.6	2.8:3.6	98:69	67
Dahua	DH-IPC-HDBW4831E-AI		IP	Dome	3840	2160	1/2.5	16:9	?	Color	no	?	no	N/A	no	2.8	4	2.8:4	112:99	69
Dahua	DH-IPC-HDBW5231E-ZI		IP	Dome	1920	1080	1/2.8	16:9	?	Color	no	?	no	N/A	no	7	35	7~35	35~12	19
Dahua	DH-IPC-HDBW5231E-ZI		IP	Dome	1920	1080	1/2.8	16:9	?	Color	no	?	no	N/A	no	2.7	13.5	2.7~13.5	101~31	54
Dahua	DH-IPC-HDBW5231R-ZI		IP	Dome	1920	1080	1/2.8	16:9	?	Color	no	?	no	N/A	no	2.7	13.5	2.7~13.5	101~31	54
Dahua	DH-IPC-HDBW5431E-ZI		IP	Dome	2688	1520	1/3	16:9	?	Color	no	?	no	N/A	no	7	35	7~35	33~13	20
Dahua	DH-IPC-HDBW5431E-ZI		IP	Dome	2688	1520	1/3	16:9	?	Color	no	?	no	N/A	no	2.7	13.5	2.7~13.5	106~31	58
Dahua	DH-IPC-HDBW5431R-ZI		IP	Dome	2688	1520	1/3	16:9	?	Color	no	?	no	N/A	no	2.7	13.5	2.7~13.5	106~31	58
Dahua	DH-IPC-HDBW5631E-ZI		IP	Dome	3072	2048	1/2.9	3:2	?	Color	no	?	no	N/A	no	7	35	7~35	32~10	22
Dahua	DH-IPC-HDBW5631E-ZI		IP	Dome	3072	2048	1/2.9	3:2	?	Color	no	?	no	N/A	no	2.7	13.5	2.7~13.5	91~27	58
Dahua	DH-IPC-HDBW5631R-ZI		IP	Dome	3072	2048	1/2.9	3:2	?	Color	no	?	no	N/A	no	2.7	13.5	2.7~13.5	91~27	58
Dahua	DH-IPC-HDBW5831E-ZI		IP	Dome	3840	2160	1/2.5	16:9	?	Color	no	?	no	N/A	no	7	35	7~35	38~14	22
Dahua	DH-IPC-HDBW5831E-ZI		IP	Dome	3840	2160	1/2.5	16:9	?	Color	no	?	no	N/A	no	2.7	12	2.7~12	110~40	58
Dahua	DH-IPC-HDBW5831R-ZI		IP	Dome	3840	2160	1/2.5	16:9	?	Color	no	?	no	N/A	no	2.7	12	2.7~12	110~40	58
Dahua	DH-IPC-HDBW81230E-Z		IP	Dome	4000	3000	1/1.7	4:3	?	Color	no	?	no	N/A	no	4.1	16.4	4.1~16.4	105~35	77
Dahua	DH-IPC-HDBW8231E-ZI		IP	Dome	1920	1080	1/2.8	16:9	?	Color	no	?	no	N/A	no	2.7	12	2.7~12	110~36	57
Dahua	DH-IPC-HDBW8231E-ZI		IP	Dome	1920	1080	1/2.8	16:9	?	Color	no	?	no	N/A	no	7	35	7~35	35~12	19
Dahua	DH-IPC-HDBW8232E-ZI		IP	Dome	1920	1080	1/1.9	16:9	?	Color	no	?	no	N/A	no	4.1	16.4	4.1~16.4	92~32	53
Dahua	DH-IPC-HDBW8331E-ZI		IP	Dome	2048	1536	1/2.8	4:3	?	Color	no	?	no	N/A	no	2.7	13.5	2.7~13.5	110~31	57
Dahua	DH-IPC-HDBW8331E-ZI		IP	Dome	2048	1536	1/2.8	4:3	?	Color	no	?	no	N/A	no	7	35	7~35	32~11	23
Dahua	DH-IPC-HDBW8630E-Z		IP	Dome	3072	2048	1/1.8	3:2	?	Color	no	?	no	N/A	no	4.1	16.4	4.1~16.4	107~35	60

If you know, which camera you need, just select it from the program's database, which now consists of more than 2000 cameras



Camera

Installation Height (m)

4

Manufacturer

Model

Sensor Format

1/3"

16:9

Resolution

1920x1080 (Full HD)

Focal Length (mm)

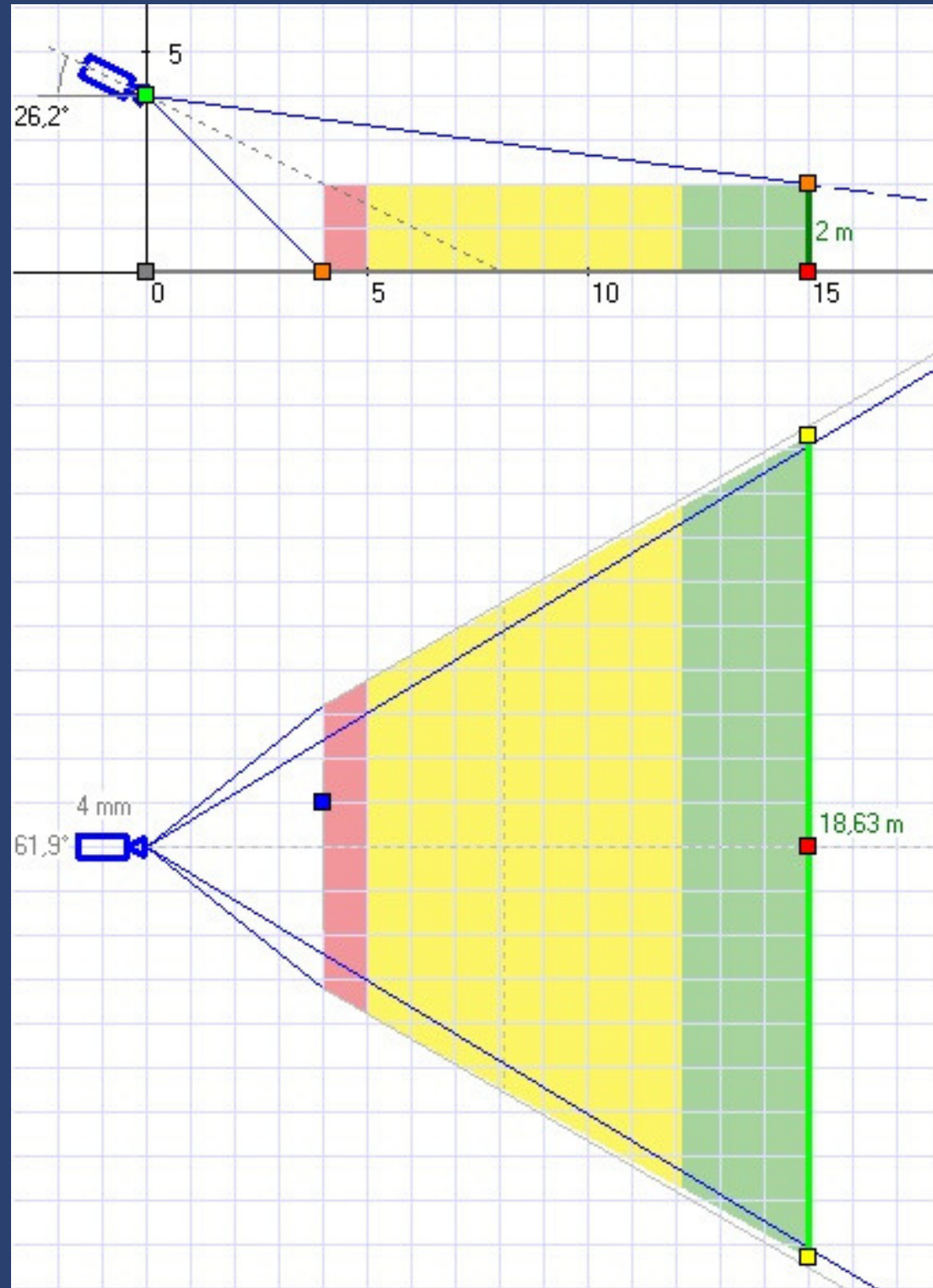
4

Camera Tilt °

26,2

2

Camera zones in 3D



The elevation view of the camera and view from the top will help you to set necessary camera **installation height**, **distance** from the camera to the target, **field of view width** and check **blind spots**

Change parameters quickly with the mouse by moving colored end-points

Field of View

Distance from Camera (m)
15

Target Height (m)
2

FOV Width (m)
18,63

Height of Lower Boundary (m)
0

Viewing Angles °

Horizontal
61,9

Vertical
37,3

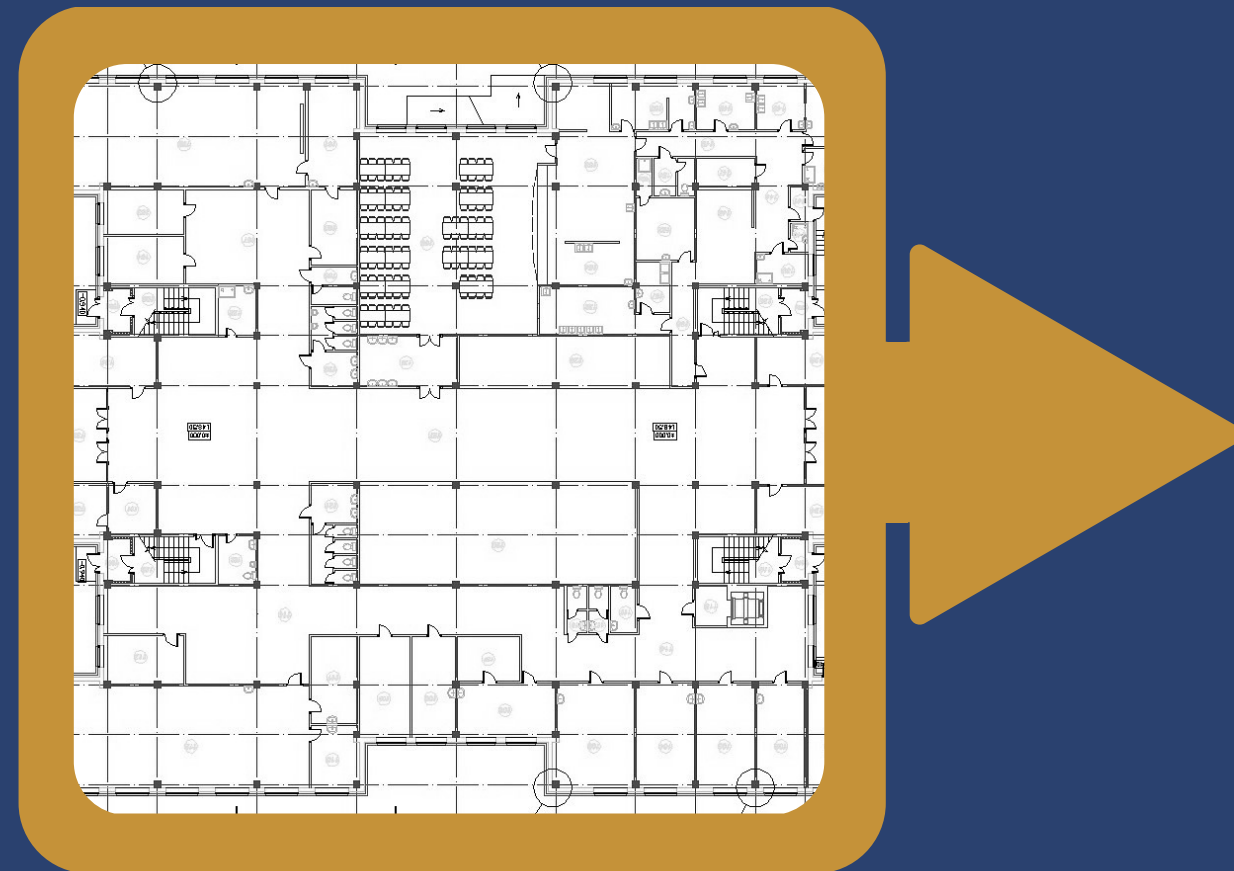
Direction

3

Create a 3D view

Load a background image from a **picture**, **PDF** or **AutoCAD drawing** and construct 3D model of the building with **built-in objects**

Use existing **3D models** or import your own



- Brick Wall
- Thick Brick Wall
- Brick curved wall
- Painted Wall
- Thin Painted Wall
- Painted curved wall
- Picture
- Glass
- Fence
- Window
- Doorway
- Door

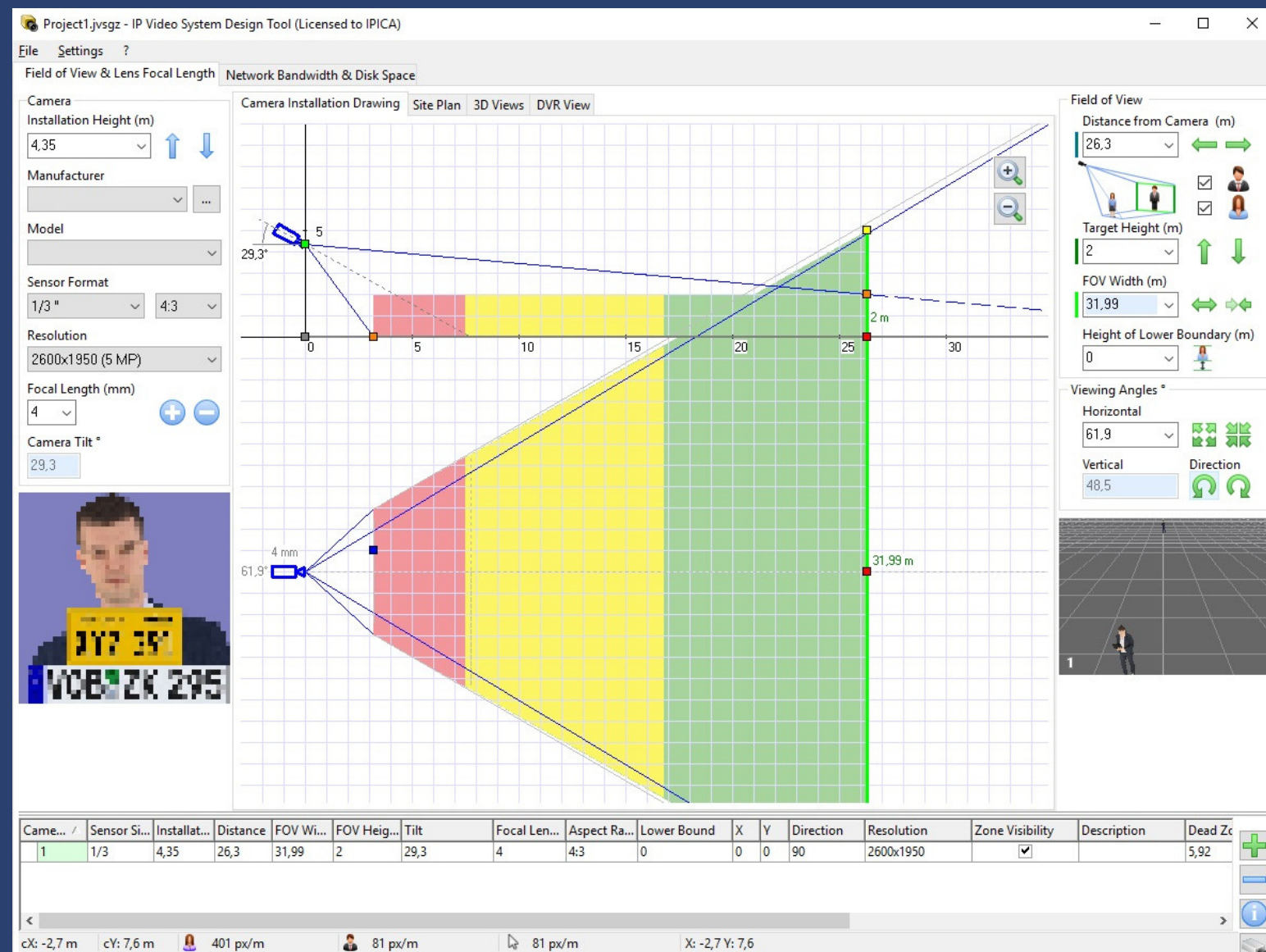


- Photorealistic People
 - Girl 1.7 m (5 ft 7")
 - Man 1.7 m (5 ft 7")
 - Man 2 m (6 ft 7")
 - Man With A Gun
 - Man 2 m (6 ft 7") With A Gun
 - Seating Man
 - Seating Woman
- 9 Faces
- Test Charts
- User Models

4

Camera zones

IP Video System Design Tool calculates field of view, lens focal length, the number of pixels per meter for a given distance from the camera and shows the following **areas in different colors**:



Identification zone: to identify a person beyond reasonable doubt

Recognition zone: to recognize a known person

Observation zone: to see some characteristic details, such as clothing

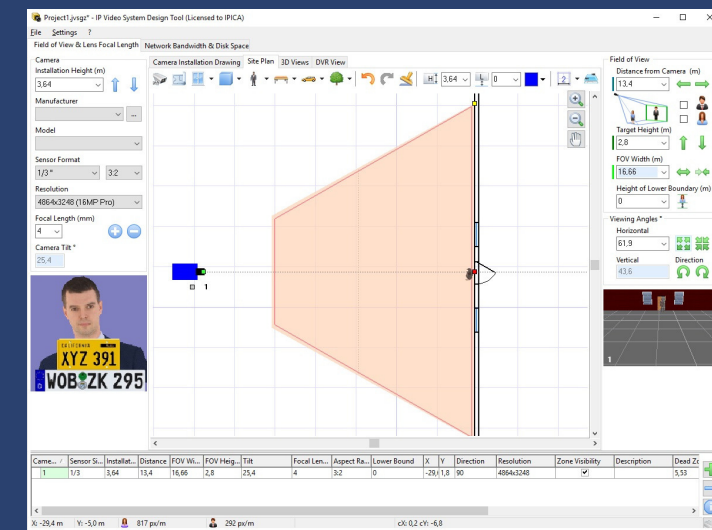
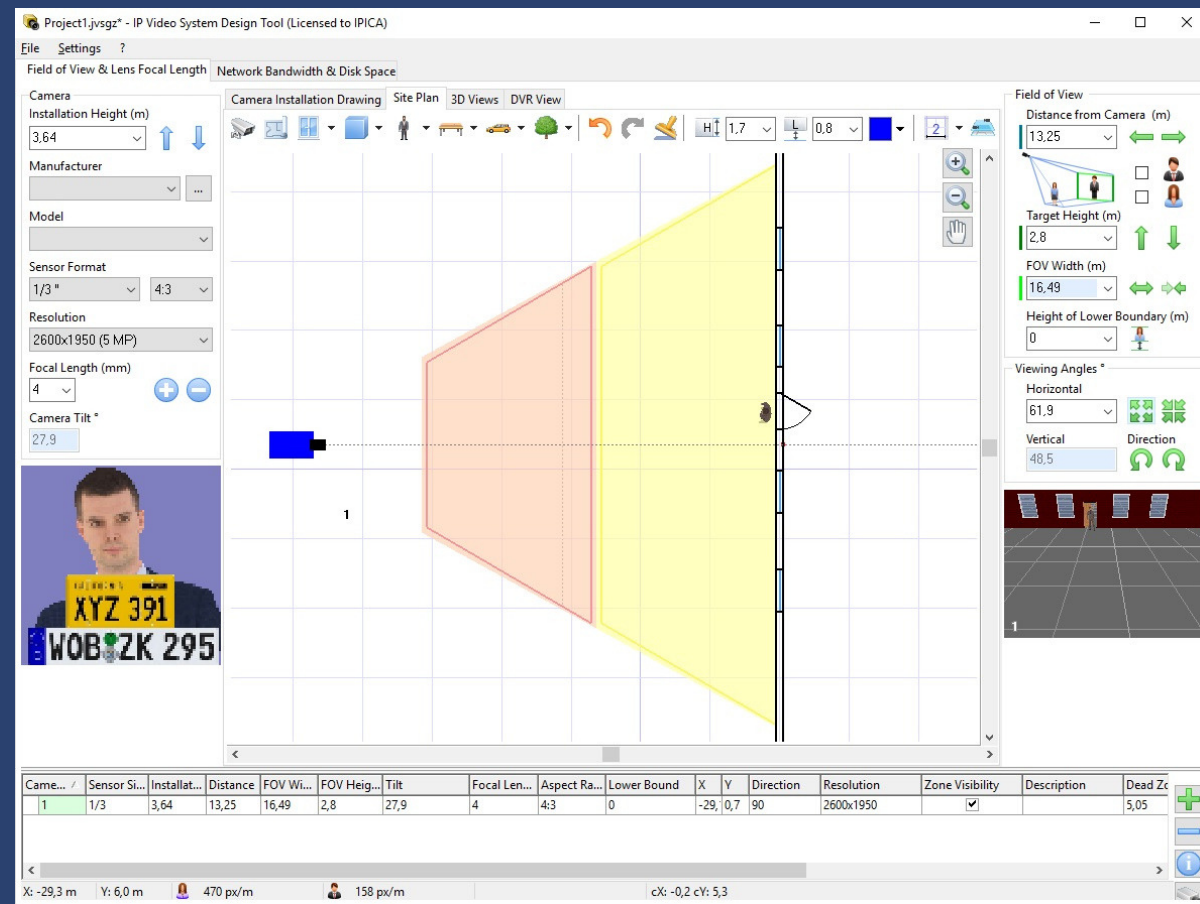
Detection zone: to detect a person

Monitoring zone: to monitor or do crowd control

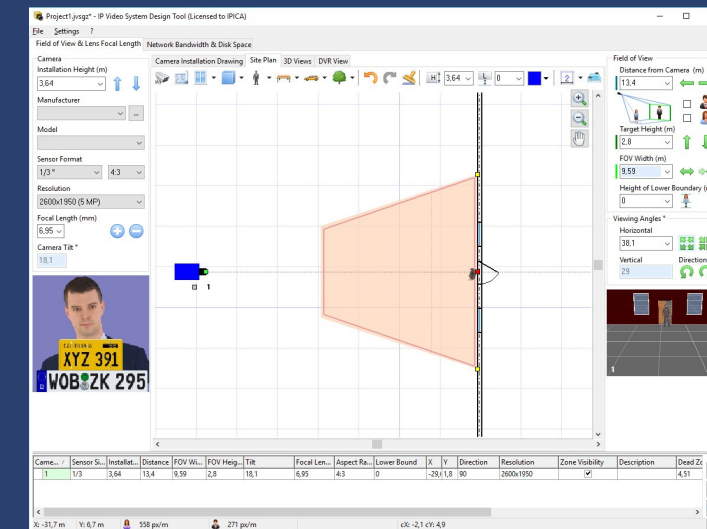
5

Optimal camera position

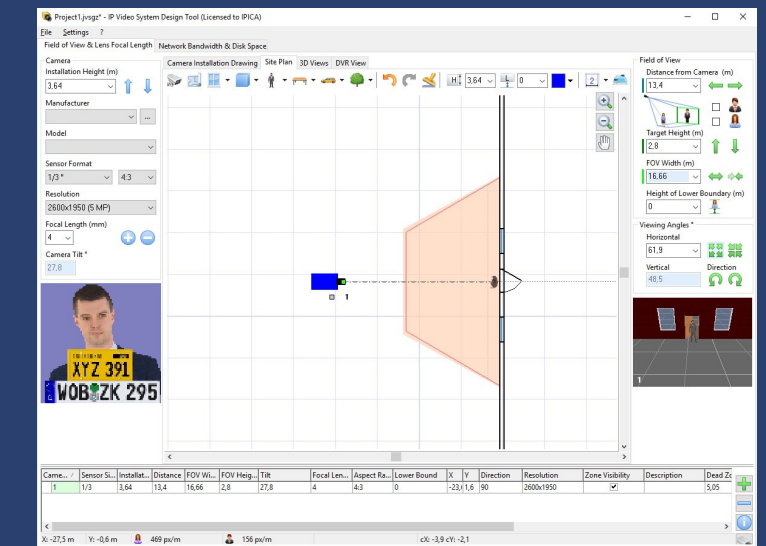
Our software can help you to solve such an important question as **how to identify people** who are coming through the door if your area near the door is not **Red**, meaning it is not a part of the Identification zone; you have 3 ways to fix it:



Choose a camera with **higher resolution**



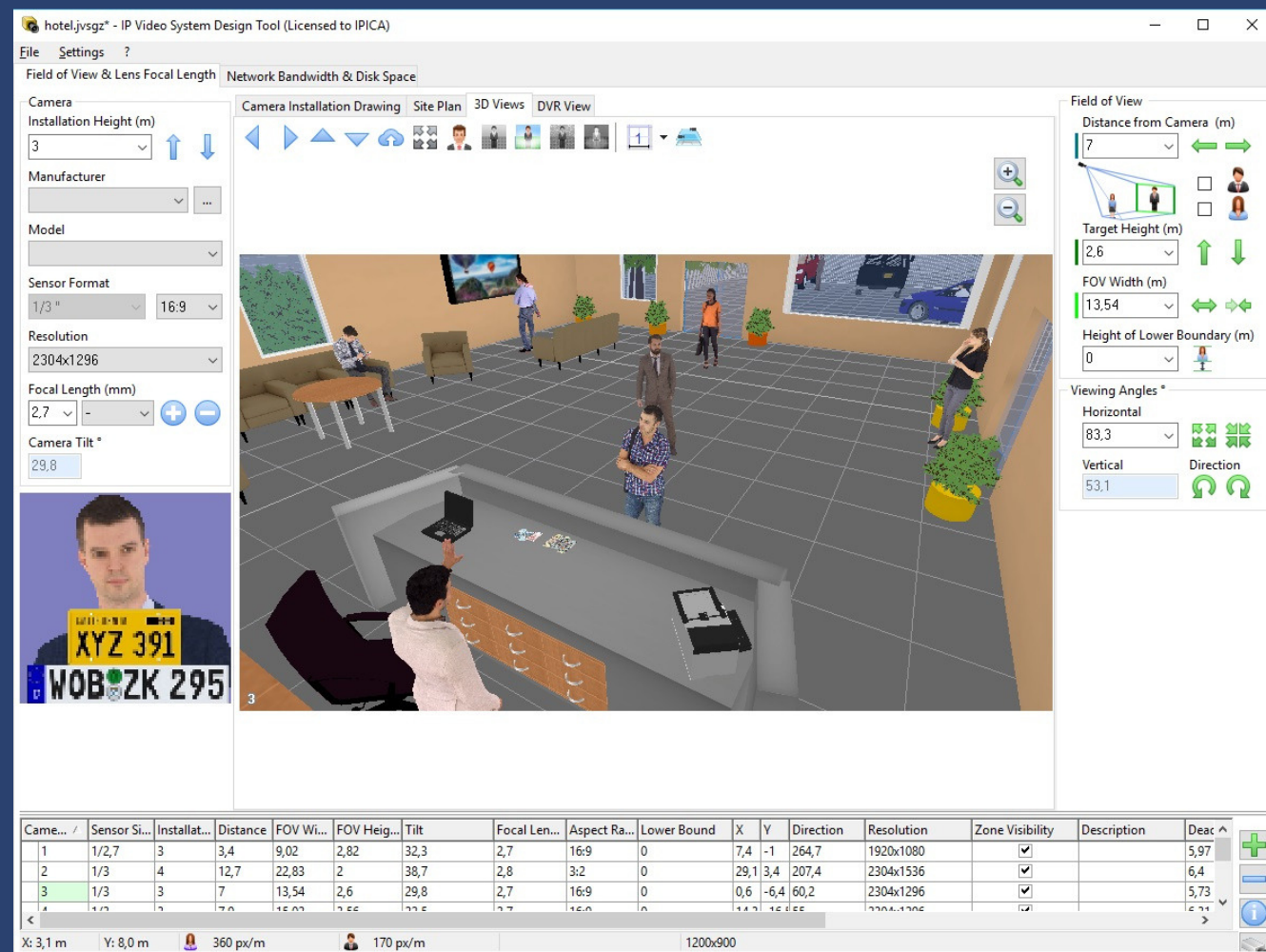
Make the field of view **narrower**



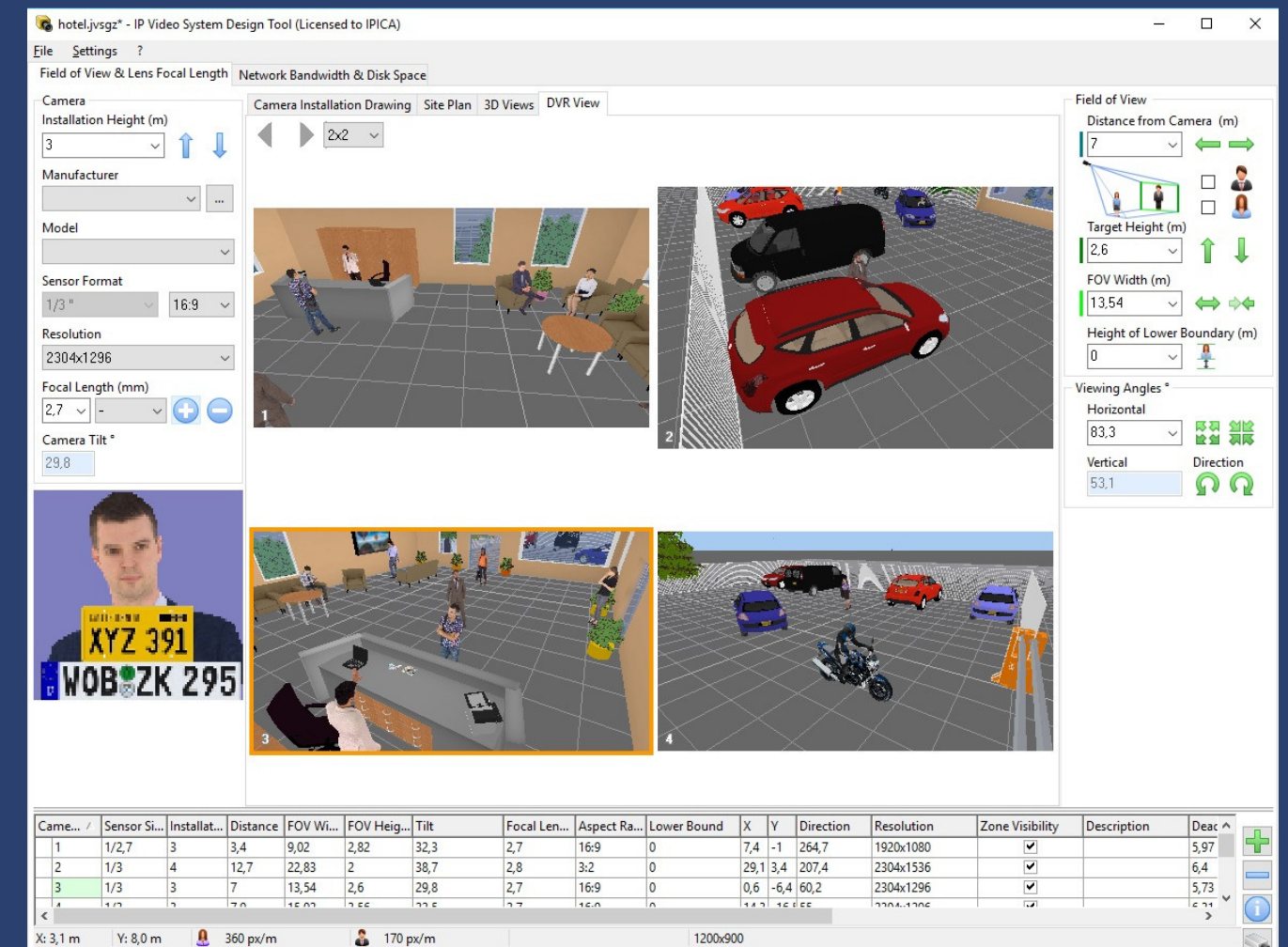
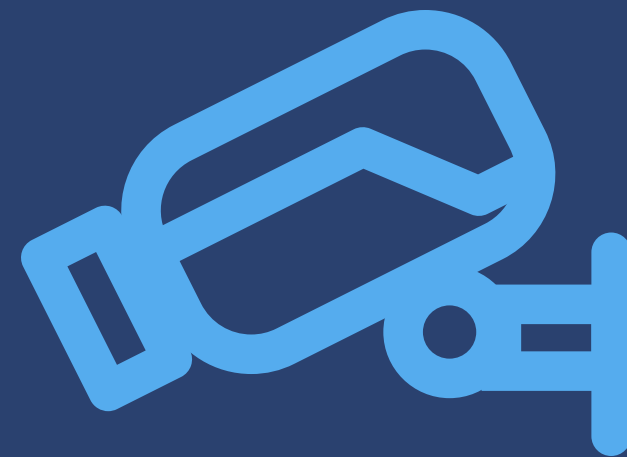
Make the camera location **closer** to the door

6

Camera 3D views



See **enlarged view** of any camera and estimate the **picture quality** at the target distance



See **views of all cameras** from your project exactly as a security guard will see



Bandwidth and storage space

Resolution	Compression	Image Complexity	Frame Size*, KB
1600x1200 (2 MP)	H.264-10 (High Quality)	75 - Above av.	32
640x480 (VGA)	H.264-10 (High Quality)	33 - Low	3,4
1280x720 (HD)	H.264-10 (High Quality)	75 - Above av.	15
1280x720 (HD)	H.264-10 (High Quality)	85 - High	16
1280x720	H.264-10 (High Quality)	33 - Low	11



Specify camera resolution, compression used and other **parameters you need**

Choose **frames per second, number of cameras** and retention time



FPS	Days	Cameras	Recording %
15	14	2	25
15	31	1	30
15	60	5	25
15	7	3	10
15	14	1	100

Bandwidth, Mbit/s	Disk Space, GB
7,86	297,3
0,42	42
9,22	1493
5,9	44,6
1,35	204,4



Get **disk space** and **network bandwidth** calculated

Adjust **recording percentage** and use the **unique timetable function** for cameras with motion detection



Start Time	Recording %
00:00	0
08:00	50
17:00	0

Average daily recording, %:



◆ Even more ◆

With IP Video System Design Tool you can print or **export your project to PDF**. Copy your calculations, drawings and 3D mockups to MS Word, Excel, Visio or other software to create an excellent project documentation



Camera ID	Manufacturer / Model	Description	Installation Height	Resolution	Focal Length	Sensor Size	Pixels On Target
1	BOLID VCI-627	BOLID: VCI-627	3	1920x1080	2,7	1/2,7 16,9	213 px/m
2	BOLID VCI-432	BOLID: VCI-432	4	2304x1536	2,8	1/3 3,2	101 px/m
3	BOLID VCI-830-01	BOLID: VCI-830-01	3	2304x1296	2,7	1/3 16,9	170 px/m
4	BOLID VCI-830-01	BOLID: VCI-830-01	3	2304x1296	2,7	1/3 16,9	153 px/m
5	BOLID VCI-830-01	BOLID: VCI-830-01	3	2304x1296	2,7	1/3 16,9	135 px/m
6	BOLID VCI-242	BOLID: VCI-242	3	2688x1520	2,8	1/3 16,9	201 px/m
7	BOLID VCI-830-01	BOLID: VCI-830-01	3	2304x1296	2,7	1/3 16,9	137 px/m

Camera 1
BOLID: VCI-627
Resolution: 1920x1080
Sensor Size: 1/2,7 ; 16,9
Focal Length: 2,7
Installation Height: 3 m
Tilt: 32,3°
Viewing Angles * : 89,7°; 58,4°
Distance: 3,4 m
FOV Width: 9 m
Pixels On Target: 213 px/m

Camera 2
BOLID: VCI-432
Resolution: 2304x1536
Sensor Size: 1/3 ; 3,2
Focal Length: 2,8
Installation Height: 4 m
Tilt: 38,7°
Viewing Angles * : 81,2°; 59,5°
Distance: 12,7 m
FOV Width: 22,8 m
Pixels On Target: 101 px/m

Camera 3
BOLID: VCI-830-01
Resolution: 2304x1296
Sensor Size: 1/3 ; 16,9
Focal Length: 2,7
Installation Height: 3 m
Tilt: 29,8°
Viewing Angles * : 83,3°; 53,1°
Distance: 7 m
FOV Width: 13,5 m
Pixels On Target: 170 px/m

Camera 4
BOLID: VCI-830-01
Resolution: 2304x1296
Sensor Size: 1/3 ; 16,9
Focal Length: 2,7
Installation Height: 3 m
Tilt: 22,5°
Viewing Angles * : 83,3°; 53,1°
Distance: 7,9 m
FOV Width: 15 m
Pixels On Target: 153 px/m

Camera 5
BOLID: VCI-830-01
Resolution: 2304x1296
Sensor Size: 1/3 ; 16,9
Focal Length: 2,7
Installation Height: 3 m
Tilt: 26,9°
Viewing Angles * : 83,3°; 53,1°
Distance: 9,1 m
FOV Width: 17 m
Pixels On Target: 135 px/m

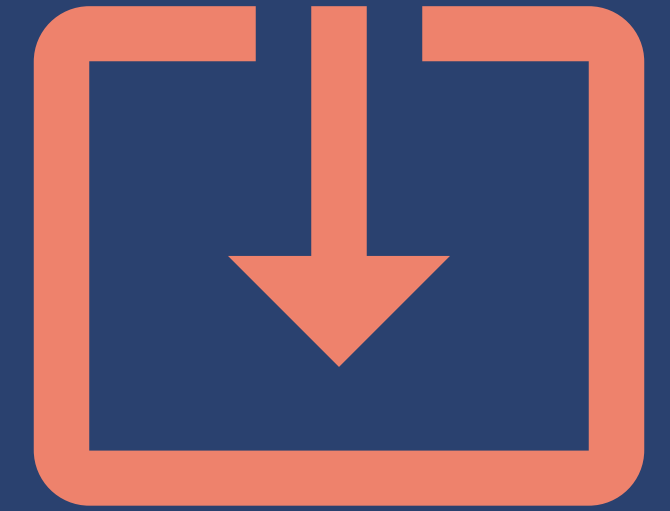
2

3

Camera ID	Model	Installation Height	Resolution	Focal Length	Sensor Size	Pixels On Target
2	BOLID VCI-432	4	2304x1536	2,8	1/3 3,2	101 px/m

Camera ID	Model	Installation Height	Resolution	Focal Length	Sensor Size	Pixels On Target
3	BOLID VCI-830-01	3	2304x1296	2,7	1/3 16,9	170 px/m

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and make sure that our software will help
you to find best solutions!



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& EASY**



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