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Your project

Comune di Busto Arsizio
V1
07.10.2020

Your contact person

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 MADE IN GERMANY



See more.

Project documentation

Comune di Busto Arsizio

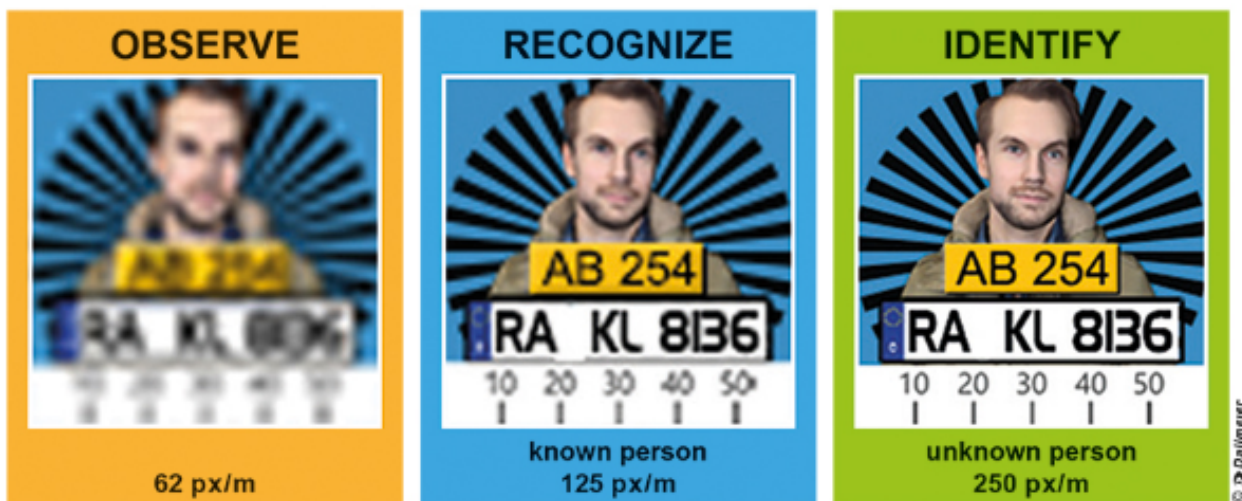
Global standard for video security systems (DIN EN 62676-4)



The security industry has agreed on a new single and global standard for the planning and target agreement for video systems. The old standard DIN EN 50132-7 was replaced by the new standard **DIN EN 62676-4**.

Categories for target resolutions according to DIN EN 62676-4:

- Observation: 62,5 Pixel/Meter (being able to interpret what is going on)
- Recognition: 125 Pixel/Meter (recognition of a known individual or object)
- Identification: 250 Pixel/Meter (identification of an unknown individual or object)



The images simulate pictures taken by Dallmeier cameras under good lighting conditions. Other parameters as well as resolution are important for determining image quality (e.g., lighting conditions, frame rate, rain, dust, compression, etc.).

Please note regarding the planning guarantee:

The final fields of view and pixel densities of the cameras depend on various parameters (e.g., mounting height, tilt angle) and may vary from the published specifications. Plans are not guaranteed.

Technical specifications are subject to change without notice and are not warranted against errors or missprints.

Confidentiality/copyright notice:

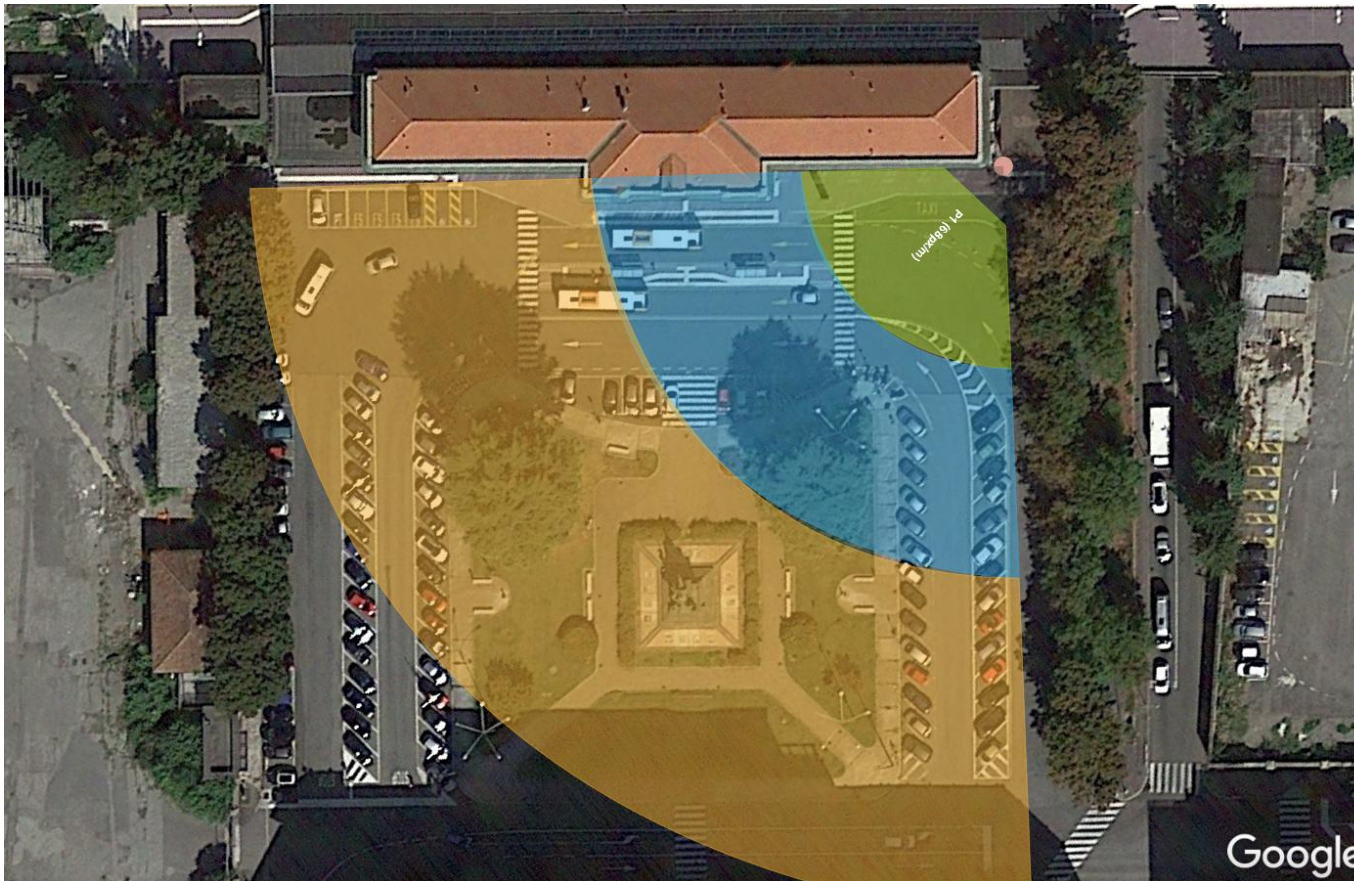
The present planning is confidential business information which is the property or copyright of Dallmeier electronic. Dallmeier makes this planning available exclusively for the purpose of planning video security systems with the manufacturer's own products. Use for any other purpose or disclosure to third parties is expressly prohibited. In the event of a violation of these restrictions, Dallmeier expressly reserve the right to assert its statutory and any existing contractual claims for omission, removal, damages, and so forth in accordance with the law on the protection of trade secrets and all applicable copyright law.

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Comune di Busto Arsizio

PIAZZA VOLONTATI DELLA LIBERTA

3D-Illustration oder andere weiterführende ONLINE-INFO

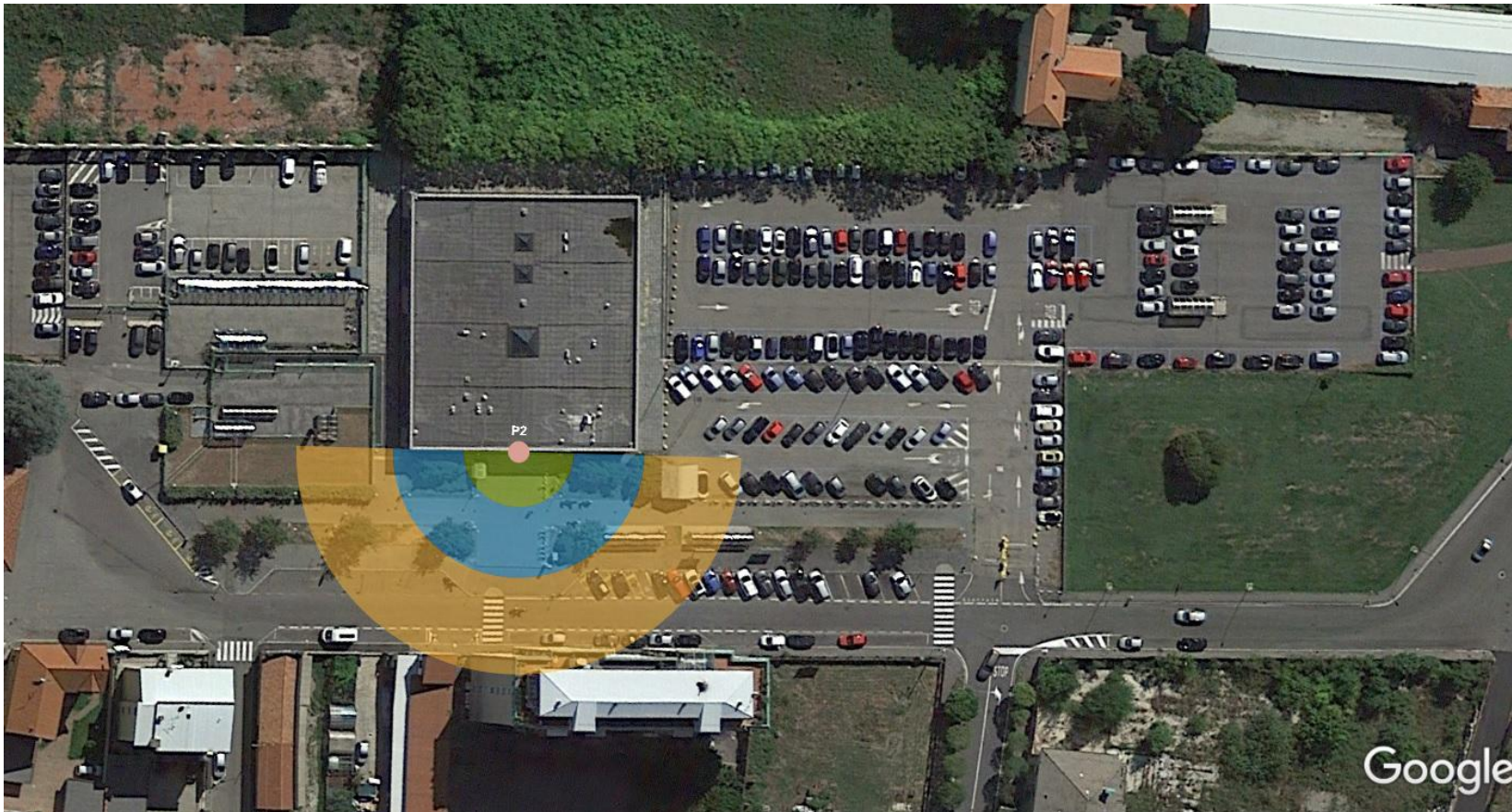


Project documentation

Comune di Busto Arsizio

VIA VINCENZO MONTI

3D-Illustration oder andere weiterführende ONLINE-INFO

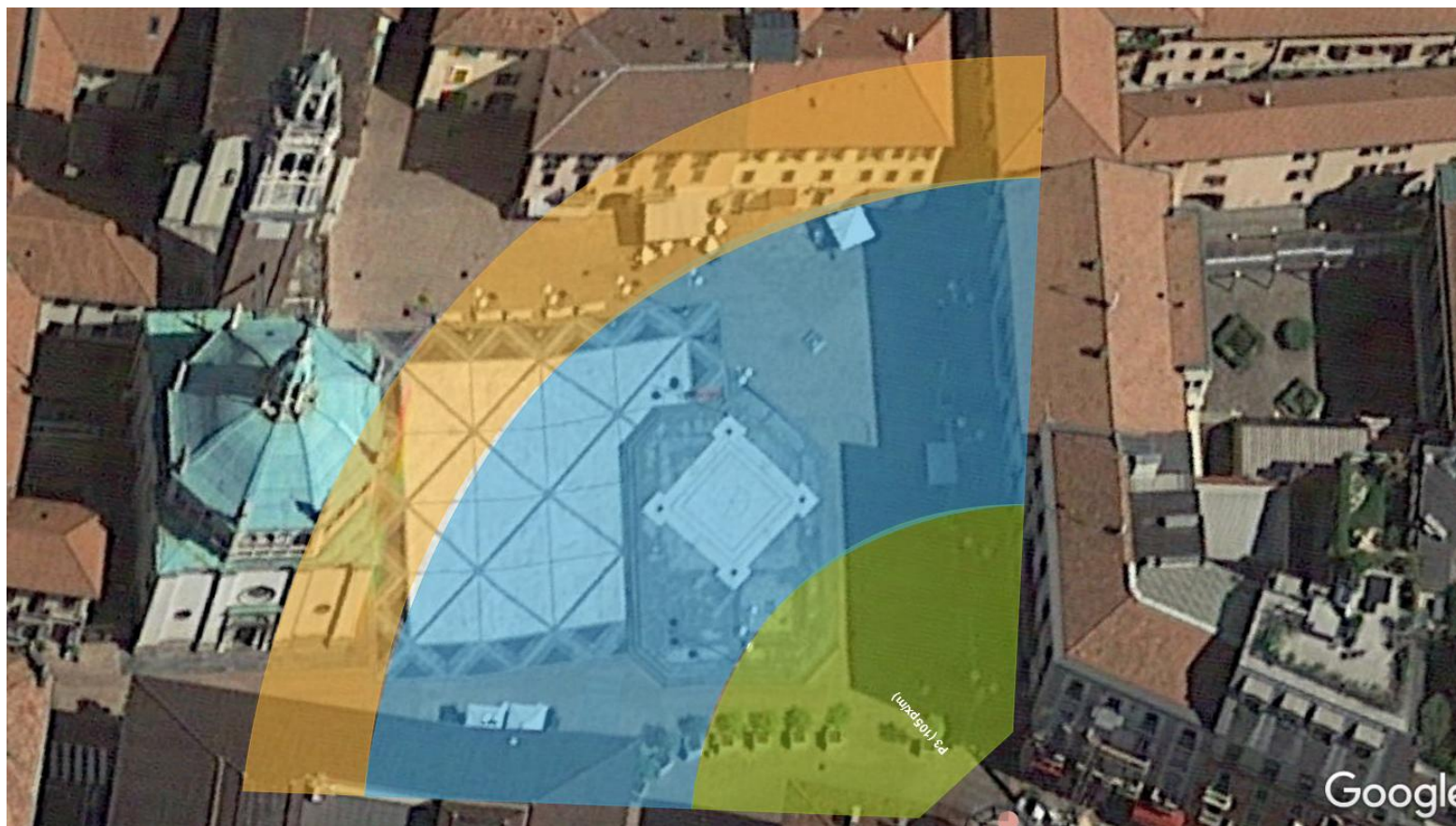


Project documentation

Comune di Busto Arsizio

PIAZZA SANTA MARIA

3D-Illustration oder andere weiterführende ONLINE-INFO



Project documentation

Comune di Busto Arsizio

PIAZZA SAN GIOVANNI

3D-Illustration oder andere weiterführende ONLINE-INFO

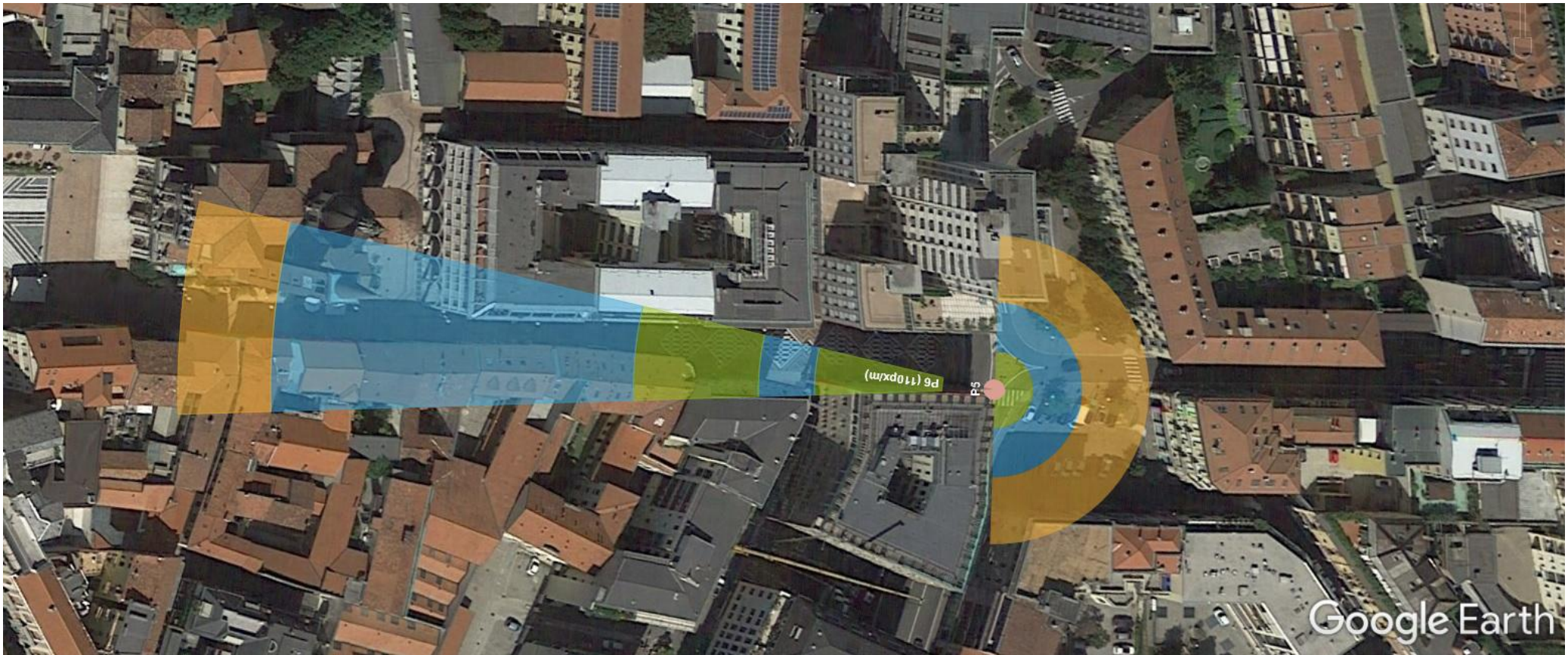


Project documentation

Comune di Busto Arsizio

PIAZZA GARIBALDI - VIA MILANO

3D-Illustration oder andere weiterführende ONLINE-INFO

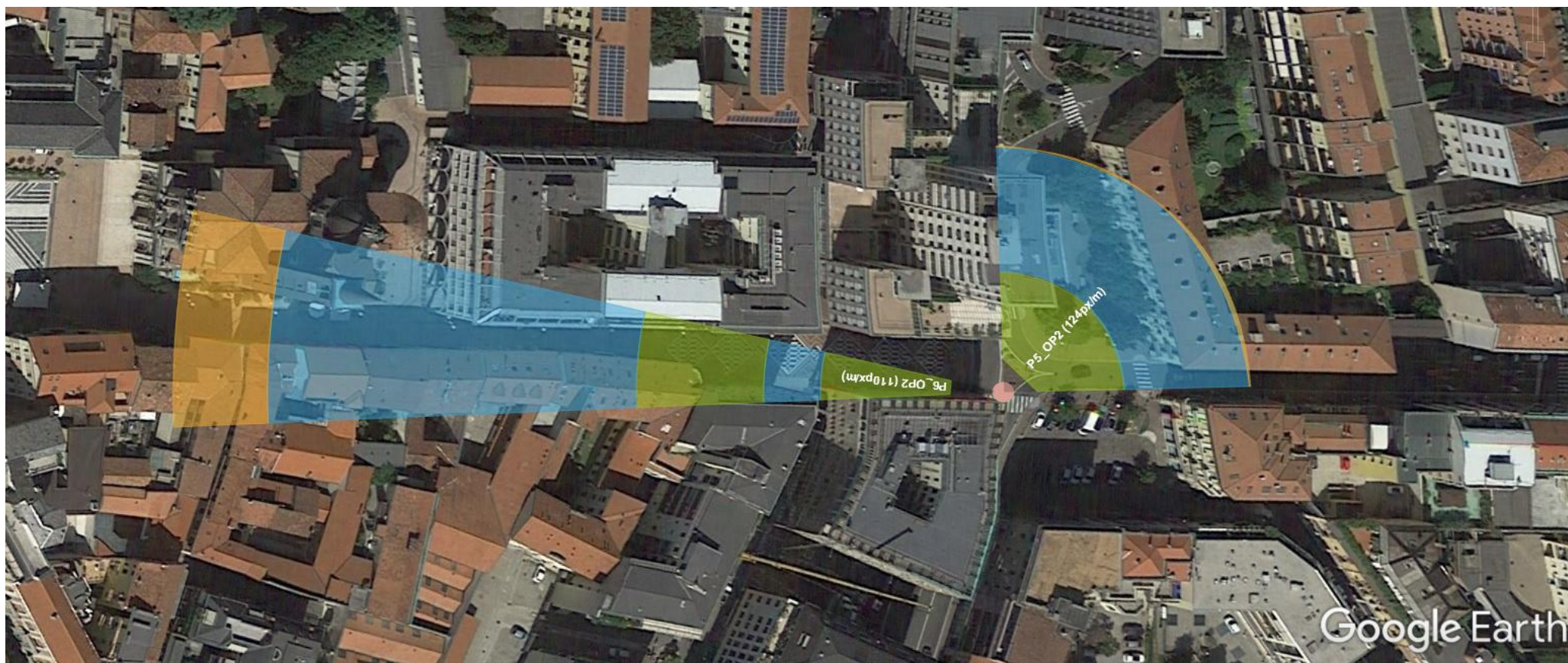


Project documentation

Comune di Busto Arsizio

PIAZZA GARIBALDI - VIA MILANO OPZIONE 2

3D-Illustration oder andere weiterführende ONLINE-INFO

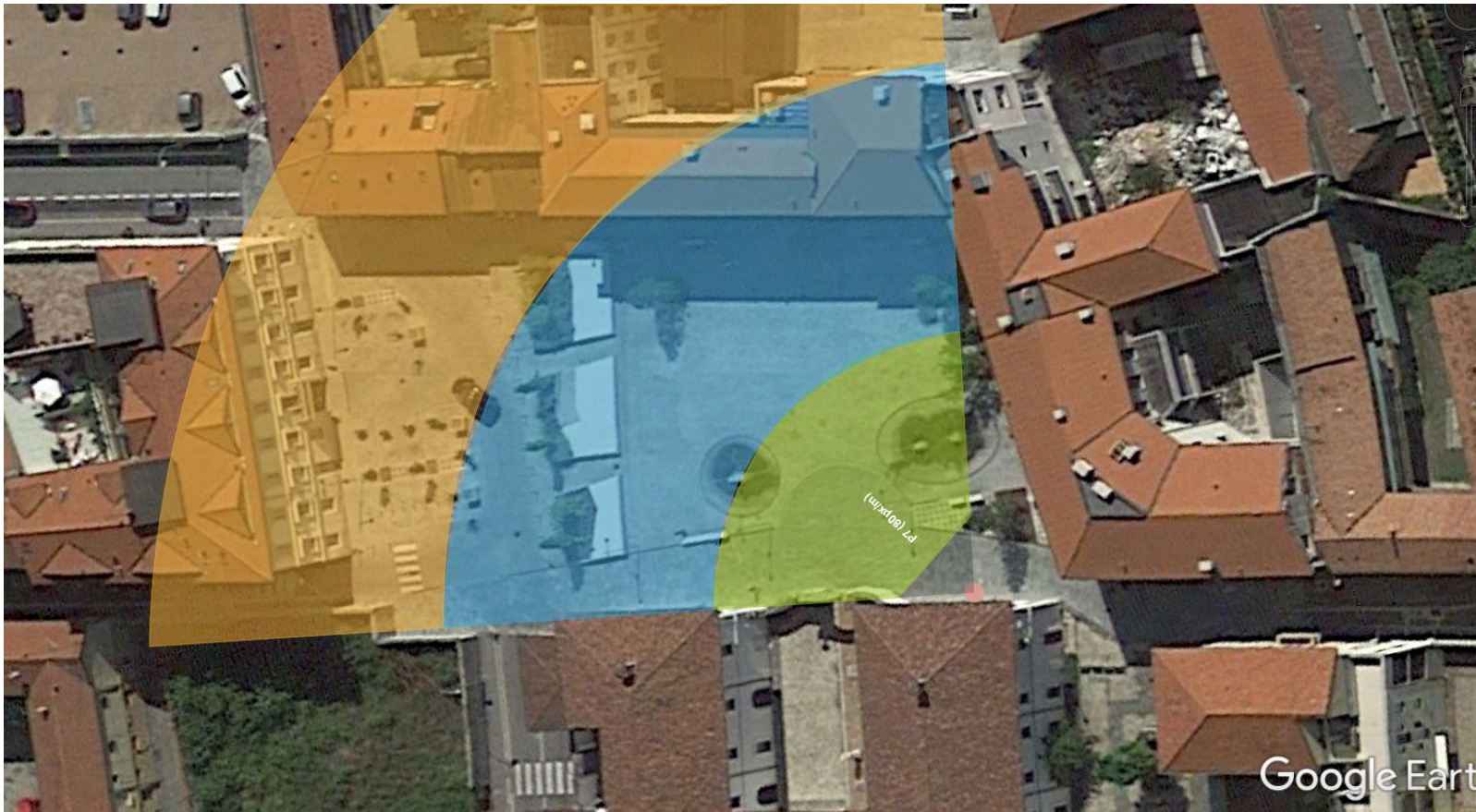


Project documentation

Comune di Busto Arsizio

PIAZZA VITTORIO EMANUELE

3D-Illustration oder andere weiterführende ONLINE-INFO

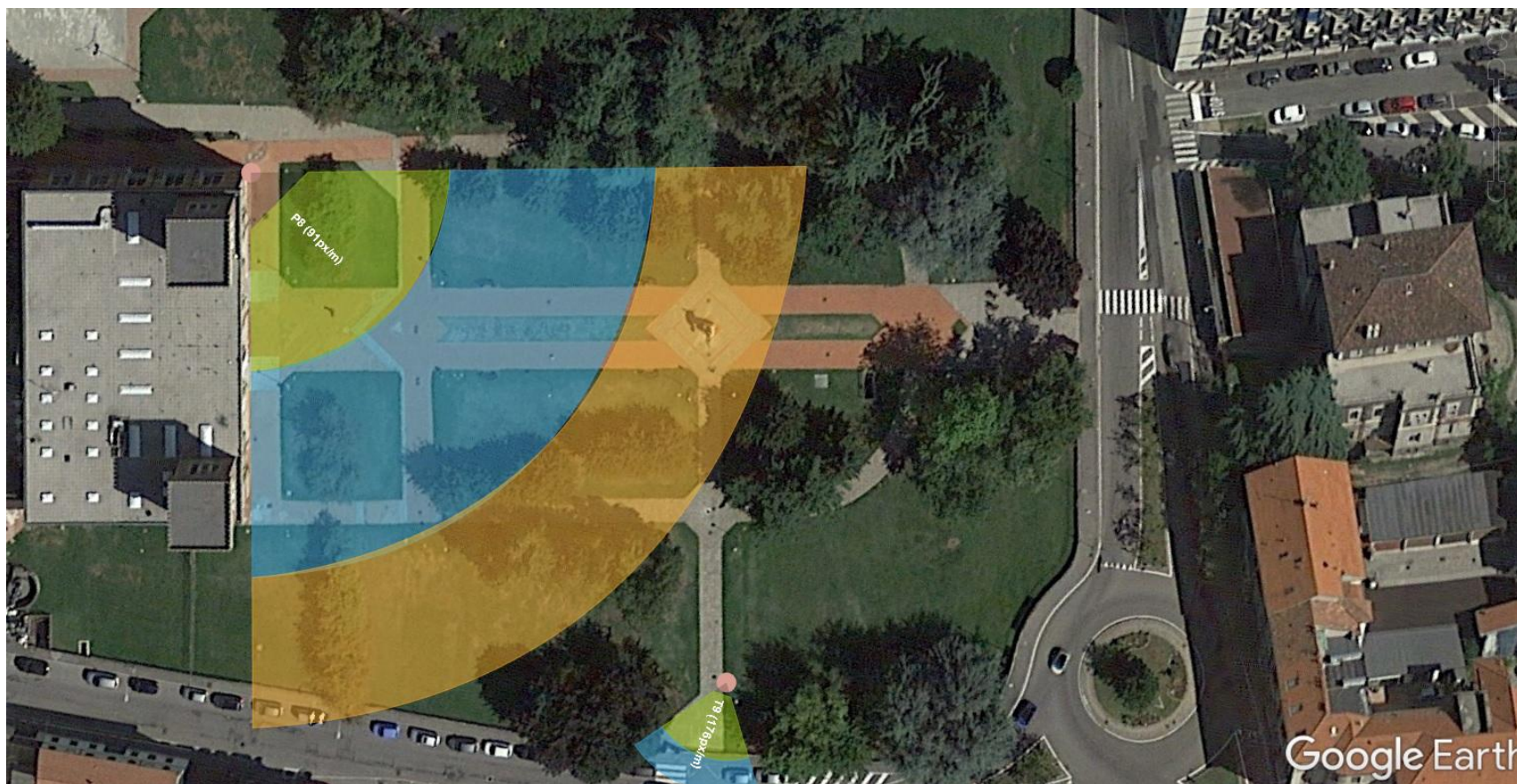


Project documentation

Comune di Busto Arsizio

VIA GALVANI MUSEO DEL TESSILE

3D-Illustration oder andere weiterführende ONLINE-INFO

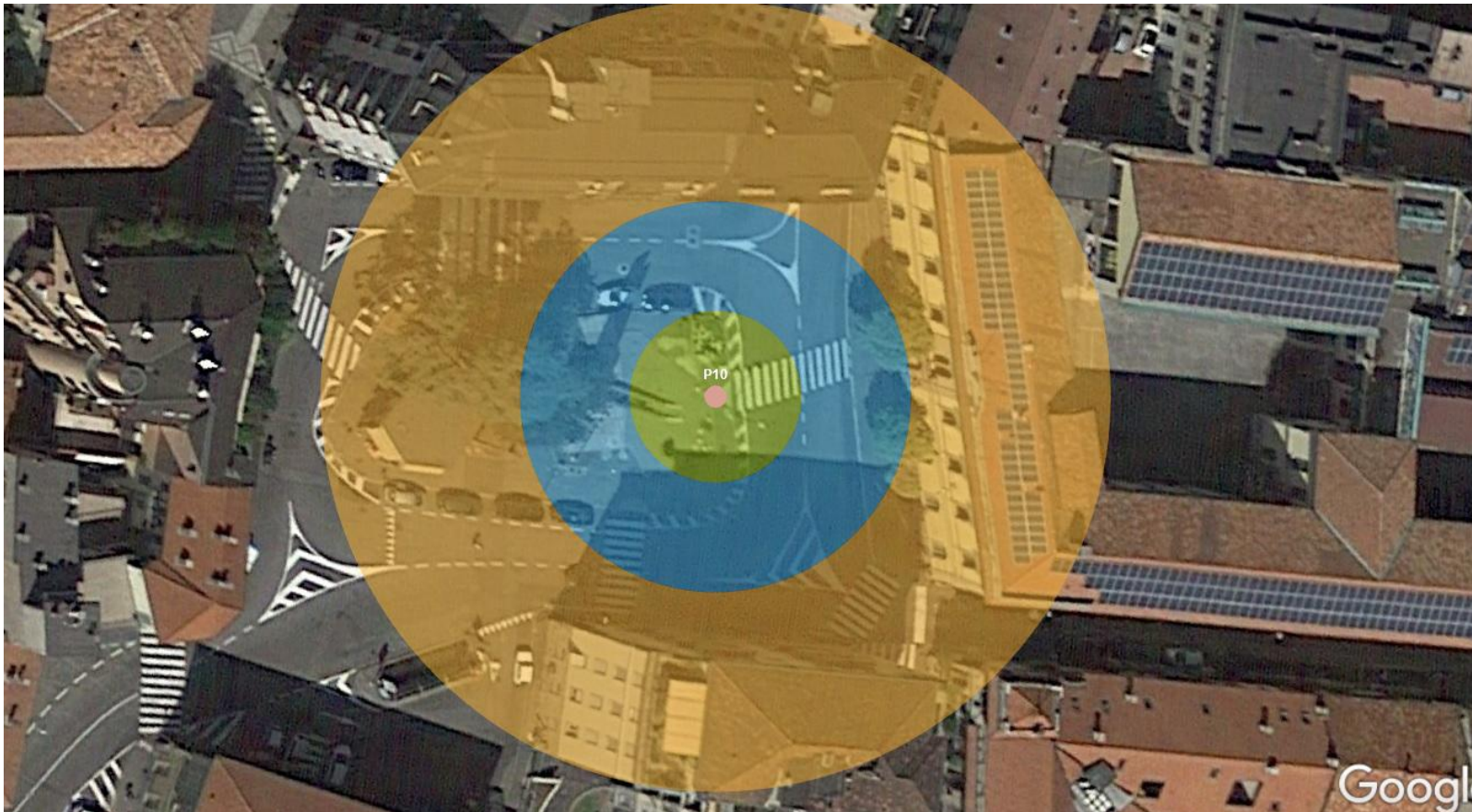


Project documentation

Comune di Busto Arsizio

PIAZZA TRENTO TRIESTE

3D-Illustration oder andere weiterführende ONLINE-INFO

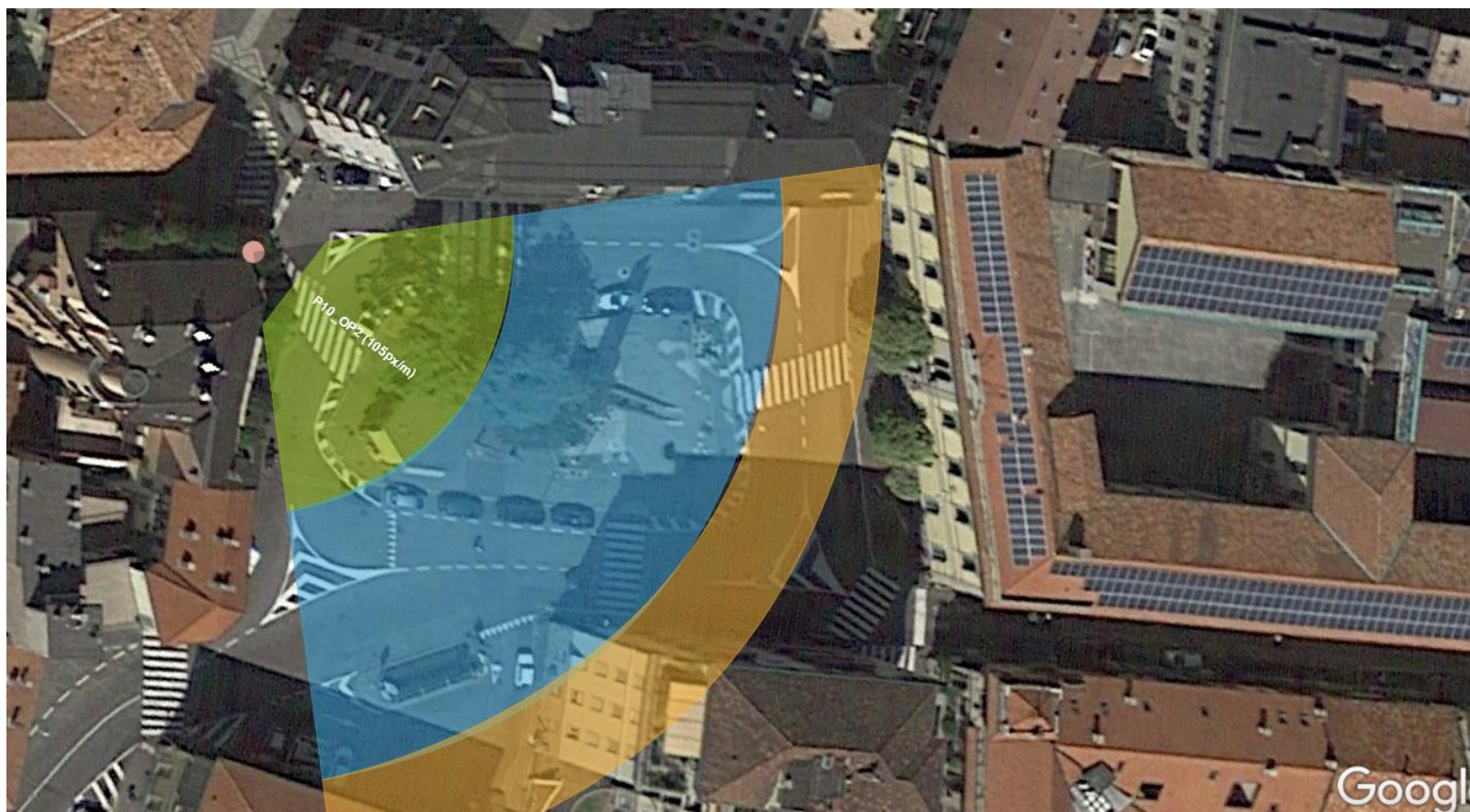


Project documentation

Comune di Busto Arsizio

PIAZZA TRENTO TRIESTE OPZIONE 2

3D-Illustration oder andere weiterführende ONLINE-INFO



Project documentation

Comune di Busto Arsizio

Parts list of plan

1. Cameras

No.	Name	Quantity		Distance(m) Installation height(m) Density(px/m)	Scene width(m)	Datasheet (website)	Datasheet (views)	Movie(s)	Text
1	P1	1	Panomera S8 Topline 43/90 DN	100.00/201.75/5.50/68		pdf	pdf		rtf
2	P2	1	Panomera W4 Ultraline 45/180	35.00/Inf/5.50/72		pdf	pdf		rtf
3	P3	1	Panomera S8 Topline 43/90 DN	65.00/131.14/5.50/105		pdf	pdf		rtf
4	P4	1	Panomera W8 Ultraline 95/360	35.00/0.00/5.50/72		pdf	pdf		rtf
5	P5	1	Panomera W4 Ultraline 45/180	35.00/Inf/5.50/72		pdf	pdf		rtf
6	P6	1	Panomera S4 Topline 46/15 DN	185.00/49.04/5.50/110		pdf	pdf		rtf
7	P5_OP2	1	Panomera S8 Topline 43/90 DN	55.00/110.96/5.50/124		pdf	pdf		rtf
8	P6_OP2	1	Panomera S4 Topline 46/15 DN	185.00/49.04/5.50/110		pdf	pdf		rtf
9	P7	1	Panomera S8 Topline 43/90 DN	85.00/171.49/5.50/80		pdf	pdf		rtf
10	P8	1	Panomera S8 Topline 43/90 DN	95.00/191.67/5.50/72		pdf	pdf		rtf
11	T9	1	DF5450HD-DN/IR	15.00/21.76/5.50/176		pdf	pdf		rtf
12	P10	1	Panomera W8 Ultraline 95/360	40.00/0.00/5.50/63		pdf	pdf		rtf
13	P10_OP2	1	Panomera S8 Topline 43/90 DN	65.00/131.14/5.50/105		pdf	pdf		rtf



See more.

Project documentation

Comune di Busto Arsizio

3. Videomanagement

No. Product

Datasheet Text
(website)

1 SMAVIA Viewing Client

pdf rtf

Project documentation

Comune di Busto Arsizio

Plan sheets for camera selection

Plan sheet: P1

Selected Criteria

Distance from object (m)	100.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	68

Selected Cameras

Construction type	Panomera
Description	Panomera S8 Topline 43/90 DN
Lens	16 mm
Resolution mode	4.8 MP (2752x1728)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	90.5	32.8	201.75	58.86	68	7.9

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

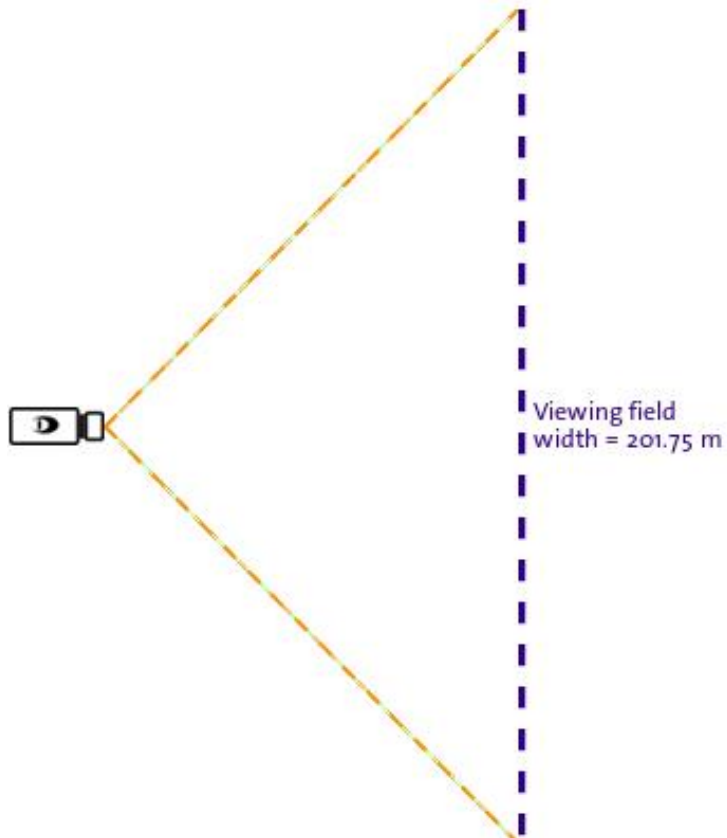


See more.

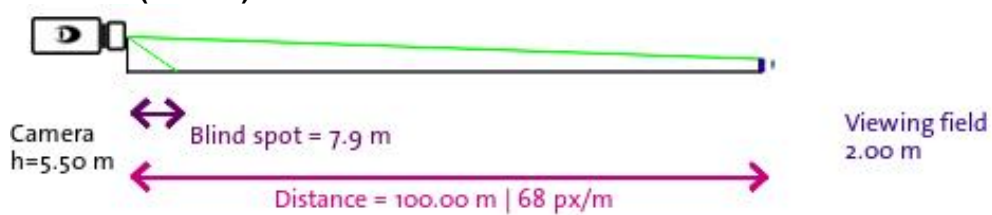
Project documentation

Comune di Busto Arsizio

Top View (horizontal)



Side view (vertical)



Project documentation

Comune di Busto Arsizio

Plan sheet: P2

Selected Criteria

Distance from object (m)	35.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	72

Selected Cameras

Construction type	Panomera
Description	Panomera W4 Ultraline 45/180
Lens	5 mm
Resolution mode	8 MP (3152 x 2608)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	180.0	90.0	99999999.99	70.00	72	0

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.




See more.

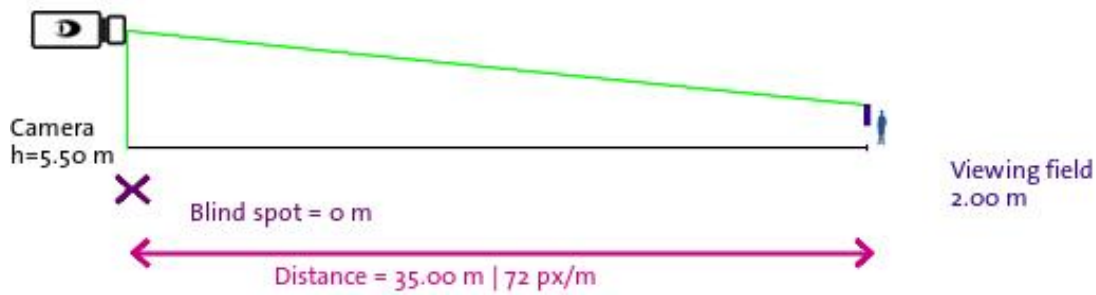
Project documentation

Comune di Busto Arsizio

Top View (horizontal)

 Viewing field

Side view (vertical)



Project documentation

Comune di Busto Arsizio

Plan sheet: P3

Selected Criteria

Distance from object (m)	65.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	105

Selected Cameras

Construction type	Panomera
Description	Panomera S8 Topline 43/90 DN
Lens	16 mm
Resolution mode	4.8 MP (2752x1728)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	90.5	32.8	131.14	38.26	105	7.6

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

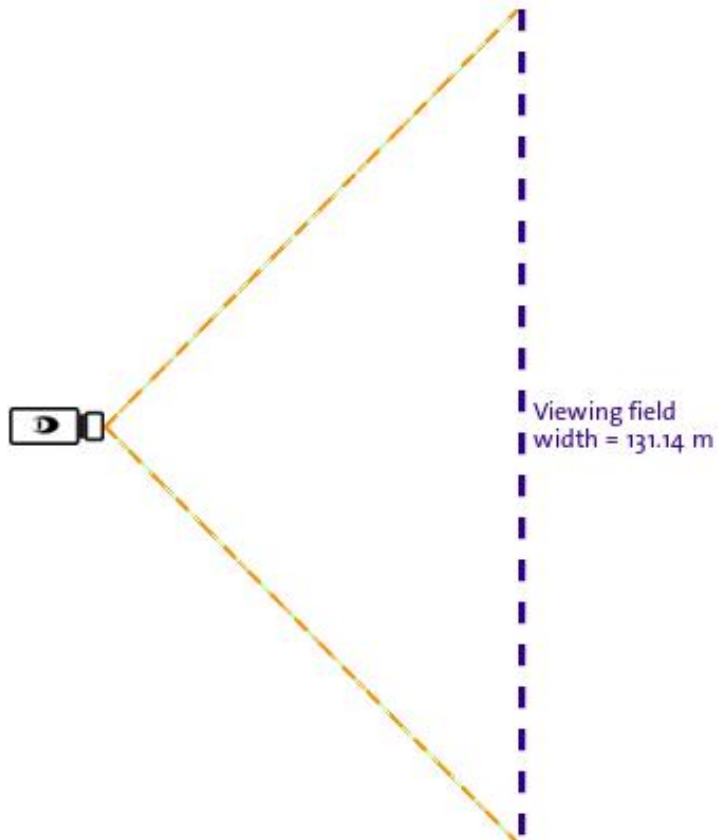


See more.

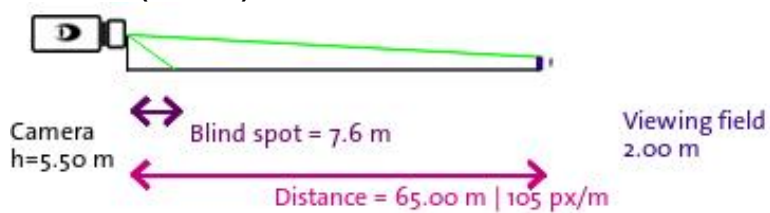
Project documentation

Comune di Busto Arsizio

Top View (horizontal)



Side view (vertical)



Project documentation

Comune di Busto Arsizio

Plan sheet: P4

Selected Criteria

Distance from object (m)	35.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	72

Selected Cameras

Construction type	Panomera
Description	Panomera W8 Ultraline 95/360
Lens	5 mm
Resolution mode	8 MP (3152 x 2608)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	360.0	90.0	0.00	70.00	72	0

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.



See more.

Project documentation

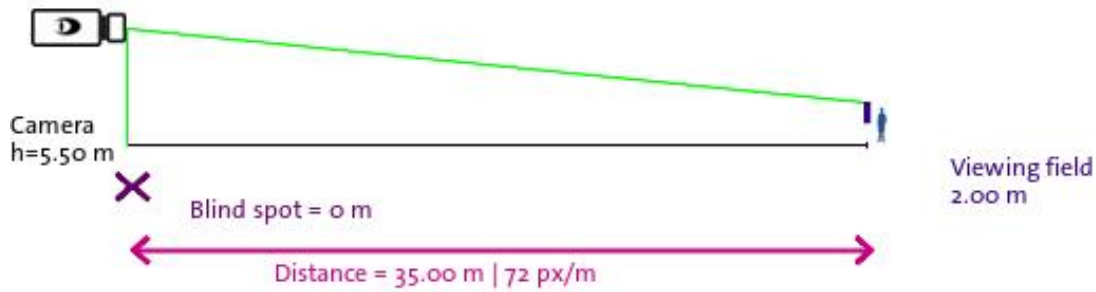
Comune di Busto Arsizio

Top View (horizontal)



Viewing field

Side view (vertical)



See more.

Project documentation

Comune di Busto Arsizio

Plan sheet: P5

Selected Criteria

Distance from object (m)	35.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	72

Selected Cameras

Construction type	Panomera
Description	Panomera W4 Ultraline 45/180
Lens	5 mm
Resolution mode	8 MP (3152 x 2608)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	180.0	90.0	99999999.99	70.00	72	0

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.




See more.

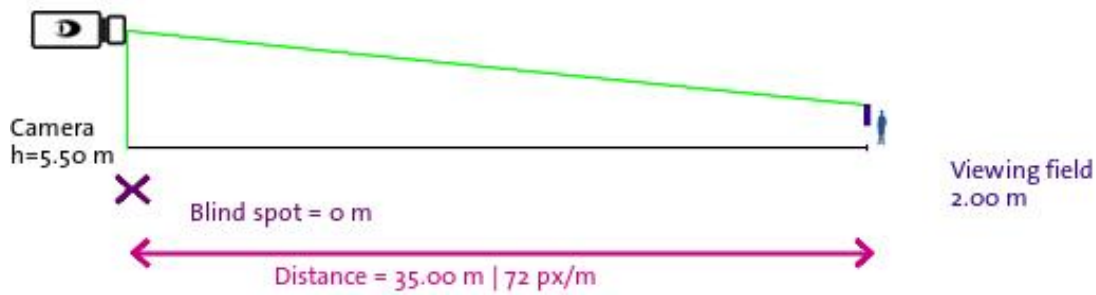
Project documentation

Comune di Busto Arsizio

Top View (horizontal)

 Viewing field

Side view (vertical)



Project documentation

Comune di Busto Arsizio

Plan sheet: P6

Selected Criteria

Distance from object (m)	185.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	110

Selected Cameras

Construction type	Panomera
Description	Panomera S4 Topline 46/15 DN
Lens	49 mm
Resolution mode	4.8 MP (2752x1728)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	15.1	24.1	49.04	78.98	110	11.7

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

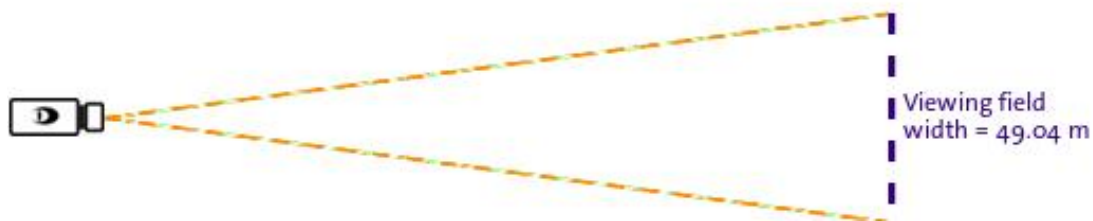


See more.

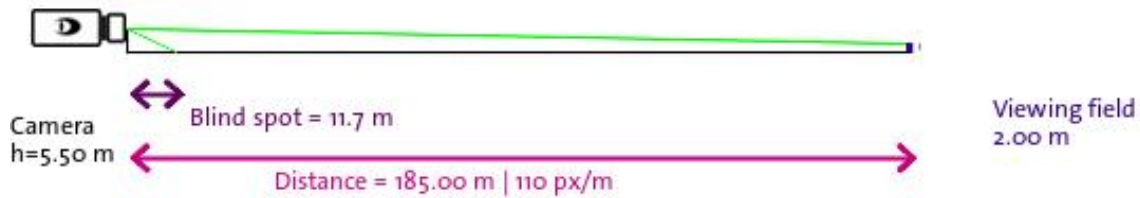
Project documentation

Comune di Busto Arsizio

Top View (horizontal)



Side view (vertical)



Project documentation

Comune di Busto Arsizio

Plan sheet: P5_OP2

Selected Criteria

Distance from object (m)	55.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	124

Selected Cameras

Construction type	Panomera
Description	Panomera S8 Topline 43/90 DN
Lens	16 mm
Resolution mode	4.8 MP (2752x1728)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	90.5	32.8	110.96	32.37	124	7.5

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

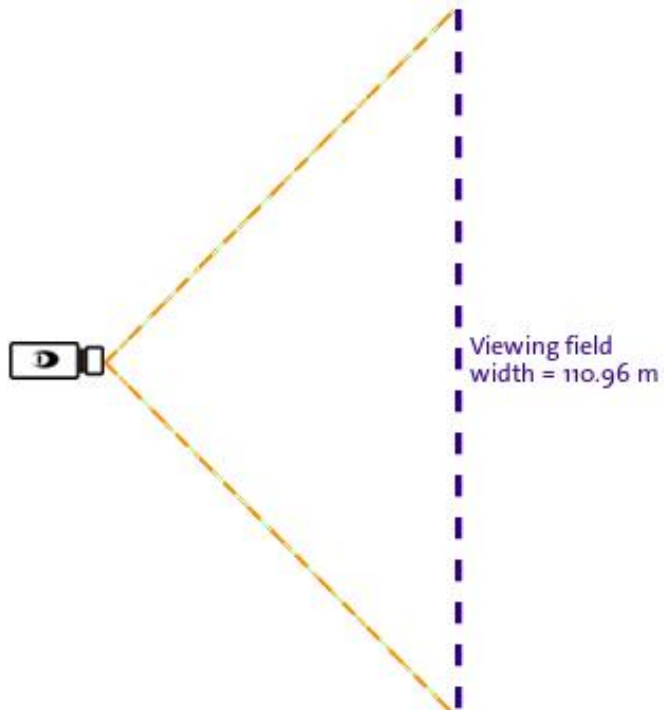


See more.

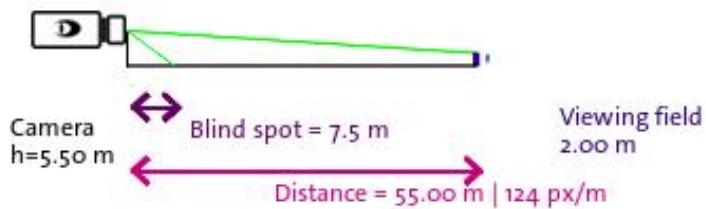
Project documentation

Comune di Busto Arsizio

Top View (horizontal)



Side view (vertical)



Project documentation

Comune di Busto Arsizio

Plan sheet: P6_OP2

Selected Criteria

Distance from object (m)	185.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	110

Selected Cameras

Construction type	Panomera
Description	Panomera S4 Topline 46/15 DN
Lens	49 mm
Resolution mode	4.8 MP (2752x1728)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	15.1	24.1	49.04	78.98	110	11.7

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

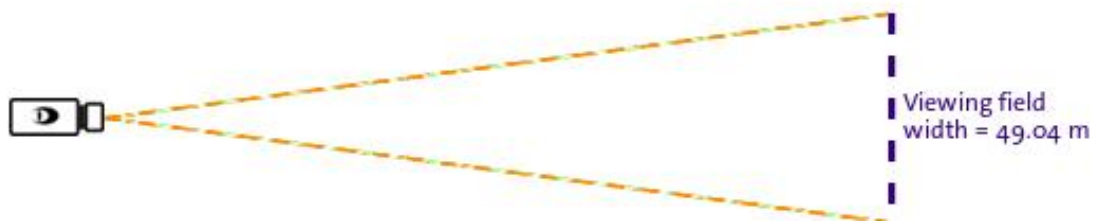


See more.

Project documentation

Comune di Busto Arsizio

Top View (horizontal)



Side view (vertical)



Project documentation

Comune di Busto Arsizio

Plan sheet: P7

Selected Criteria

Distance from object (m)	85.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	80

Selected Cameras

Construction type	Panomera
Description	Panomera S8 Topline 43/90 DN
Lens	16 mm
Resolution mode	4.8 MP (2752x1728)
Amount	1

Calculated values

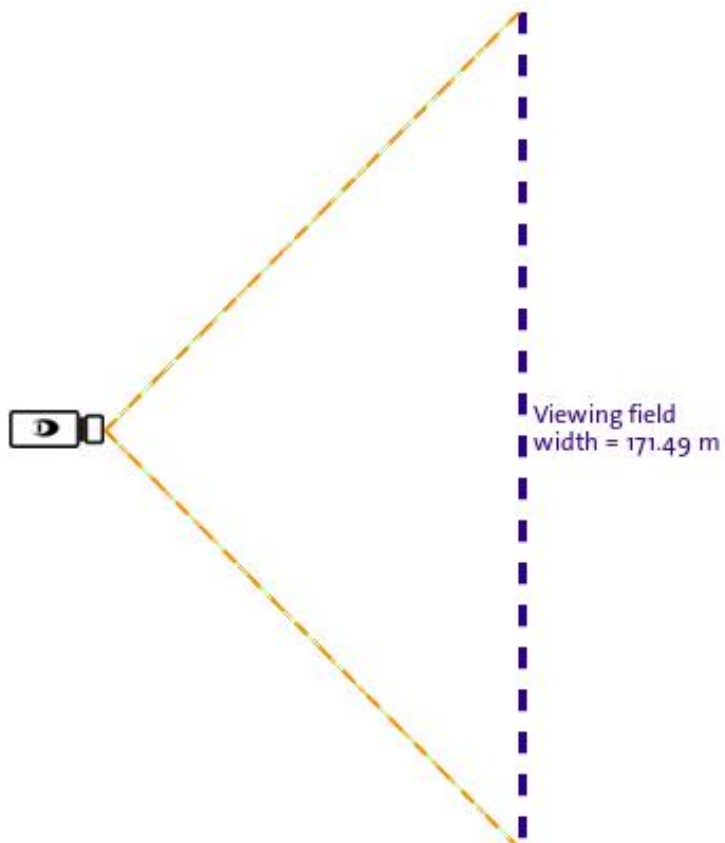
Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	90.5	32.8	171.49	50.03	80	7.8

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

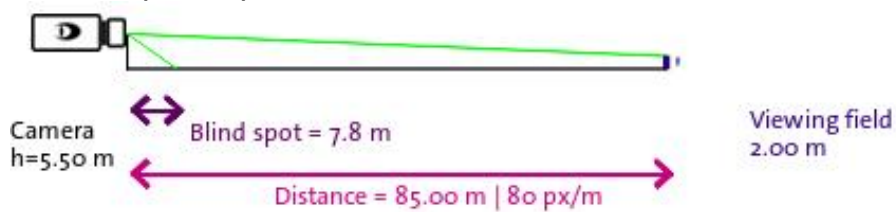
Project documentation

Comune di Busto Arsizio

Top View (horizontal)



Side view (vertical)



Project documentation

Comune di Busto Arsizio

Plan sheet: P8

Selected Criteria

Distance from object (m)	95.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	72

Selected Cameras

Construction type	Panomera
Description	Panomera S8 Topline 43/90 DN
Lens	16 mm
Resolution mode	4.8 MP (2752x1728)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	90.5	32.8	191.67	55.92	72	7.9

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

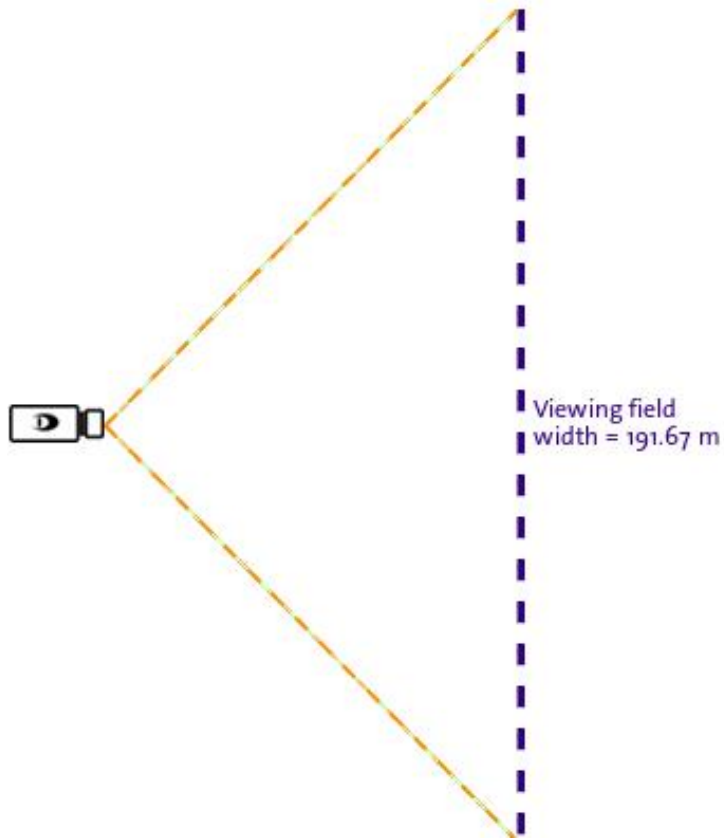


See more.

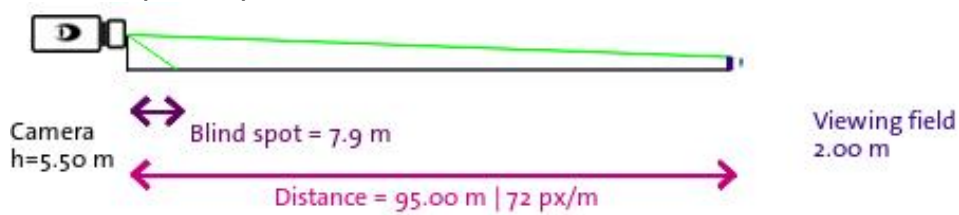
Project documentation

Comune di Busto Arsizio

Top View (horizontal)



Side view (vertical)



Project documentation

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Plan sheet: T9

Selected Criteria

Distance from object (m)	15.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	176

Selected Cameras

Construction type	Box
Description	DF5450HD-DN/IR
Lens	F1.4 / 4 - 10 mm
Resolution mode	8 MP (3840 x 2160)
Amount	1

Calculated values

Setting	Focal Length *)	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Wide	4.0	105.0	56.0	39.10	15.95	98	2.1
Tele	10.0	42.0	23.0	11.52	6.10	333	7.5
Target settings	5.1	71.9	56	21.76	21.76	176	2.1

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

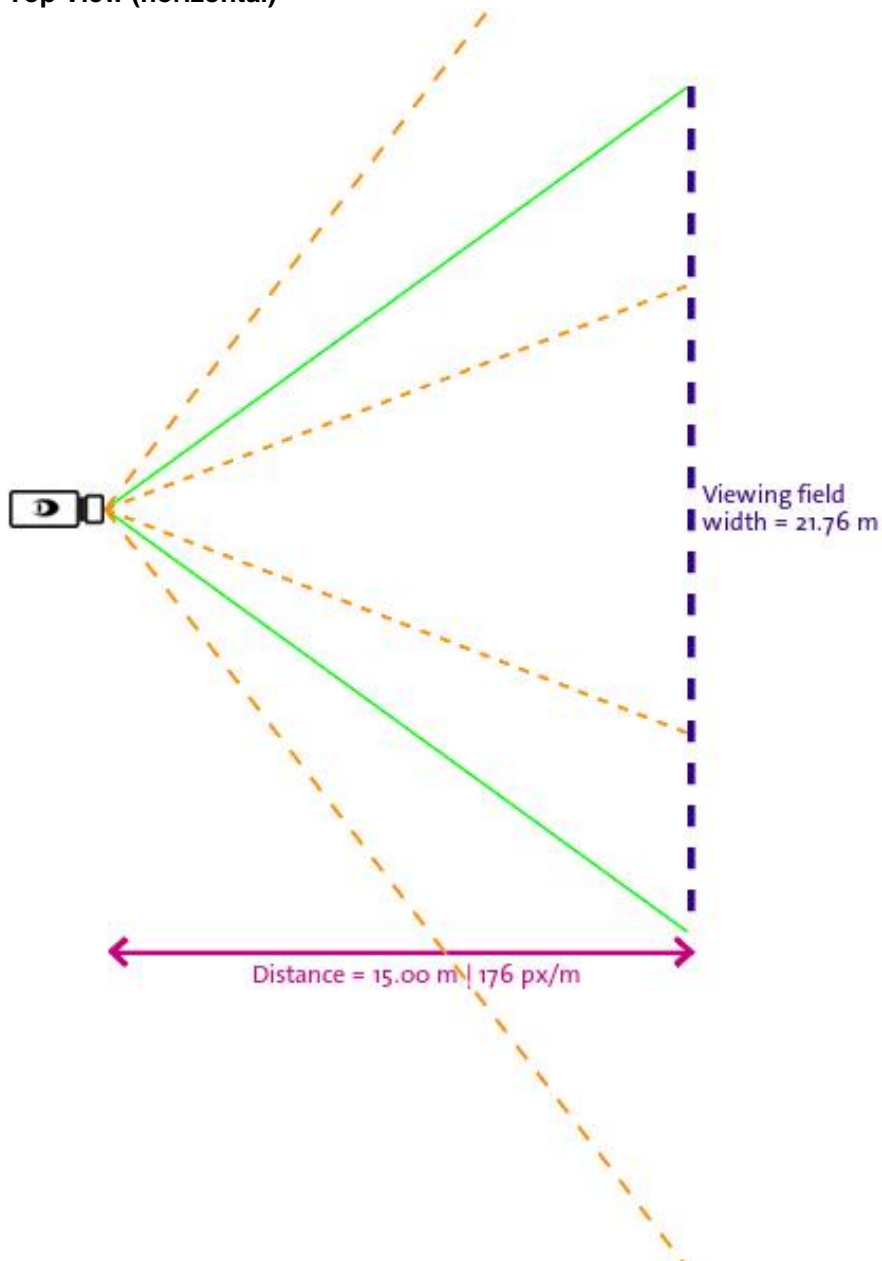


See more.

Project documentation

Comune di Busto Arsizio

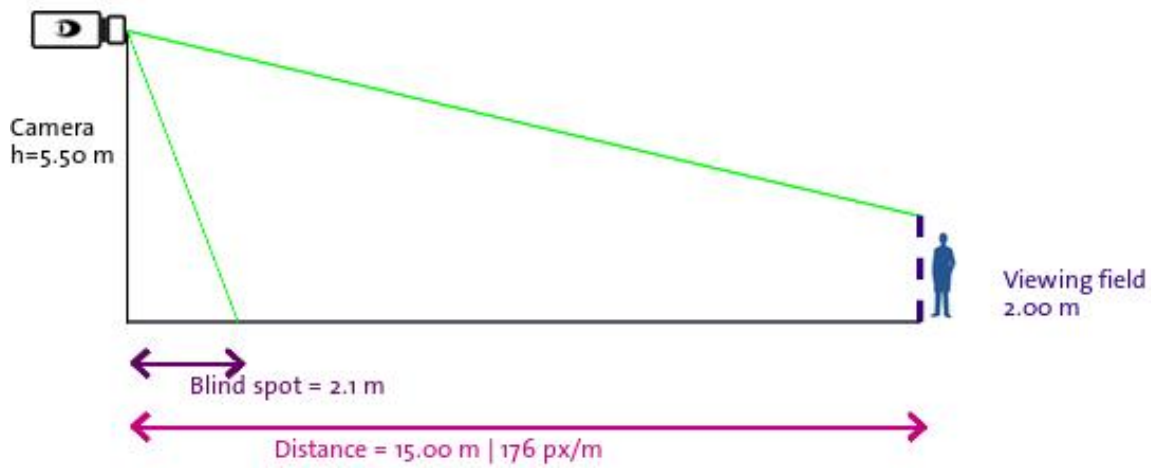
Top View (horizontal)



Side view (vertical)

Project documentation

Comune di Busto Arsizio



Project documentation

Comune di Busto Arsizio

Plan sheet: P10

Selected Criteria

Distance from object (m)	40.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	63

Selected Cameras

Construction type	Panomera
Description	Panomera W8 Ultraline 95/360
Lens	5 mm
Resolution mode	8 MP (3152 x 2608)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	360.0	90.0	0.00	80.00	63	0

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.



See more.

Project documentation

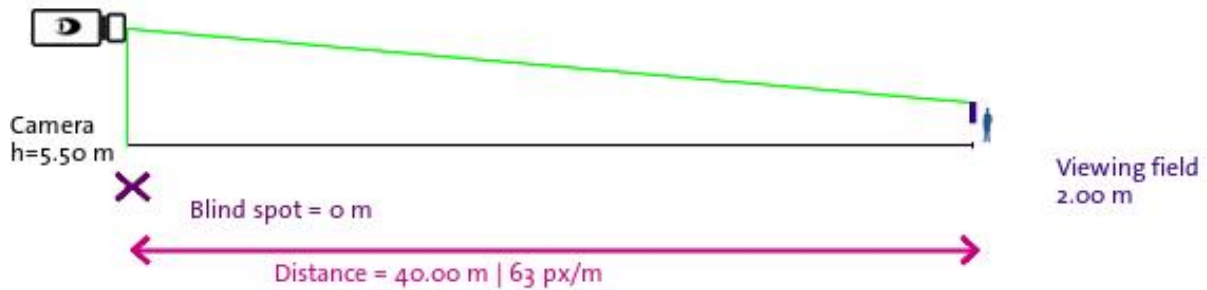
Comune di Busto Arsizio

Top View (horizontal)



Viewing field

Side view (vertical)



See more.

Project documentation

Comune di Busto Arsizio

Plan sheet: P10_OP2

Selected Criteria

Distance from object (m)	65.00
Min. scene width (m) hFOV	3.00
Top edge of the scene (m) vFOV	2.00
Camera installation height (m)	5.50
Resolution target (pixel/m)	105

Selected Cameras

Construction type	Panomera
Description	Panomera S8 Topline 43/90 DN
Lens	16 mm
Resolution mode	4.8 MP (2752x1728)
Amount	1

Calculated values

Setting	View horizontal	View vertical	Scene width horizontal	Scene width vertical	Pixel/m	Dead angle
Target/FIX	90.5	32.8	131.14	38.26	105	7.6

All specifications $\pm 5\%$. Minor deviations with lenses may be a result of manufacturing tolerances.

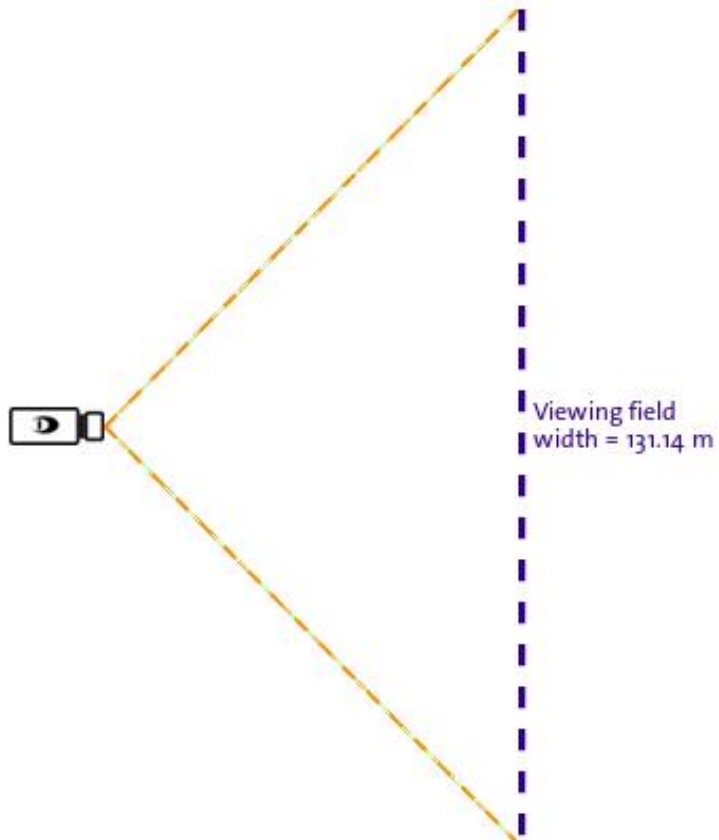


See more.

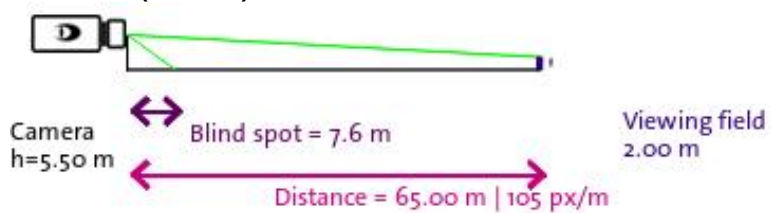
Project documentation

Comune di Busto Arsizio

Top View (horizontal)



Side view (vertical)



Project documentation

Comune di Busto Arsizio

HDD calculator

1. HDD-Calculation: Data

No.	Name	Description	Resolution	Compression	Images/s	Quality	Movement and Complexity	Recording hrs/day	Recording days	Bitrate (MBit/s)	Memory per camera (GB)	Quantity cameras	Memory total (GB)	Info
1	P1	Panomera S8 Topline 43/90 DN	2752 x 1728	h265	12.5	good	strong	24	7	3.0	263.9	1	2111.2	1)
2	P2	Panomera W4 Ultraline 45/180	3152 x 2608	h265	12.5	good	strong	24	7	5.5	474.0	1	1896	1)
3	P3	Panomera S8 Topline 43/90 DN	2752 x 1728	h265	12.5	good	strong	24	7	3.0	263.9	1	2111.2	1)
4	P4	Panomera W8 Ultraline 95/360	3152 x 2608	h265	12.5	good	strong	24	7	5.5	474.0	1	3792	1)
5	P5	Panomera W4 Ultraline 45/180	3152 x 2608	h265	12.5	good	strong	24	7	5.5	474.0	1	1896	1)
6	P6	Panomera S4 Topline 46/15 DN	2752 x 1728	h265	12.5	good	strong	24	7	3.0	263.9	1	1055.6	1)
7	P5_OP2	Panomera S8 Topline 43/90 DN	2752 x 1728	h265	12.5	good	strong	24	7	3.0	263.9	1	2111.2	1)
8	P6_OP2	Panomera S4 Topline 46/15 DN	2752 x 1728	h265	12.5	good	strong	24	7	3.0	263.9	1	1055.6	1)
9	P7	Panomera S8 Topline 43/90 DN	2752 x 1728	h265	12.5	good	strong	24	7	3.0	263.9	1	2111.2	1)
10	P8	Panomera S8 Topline 43/90 DN	2752 x 1728	h265	12.5	good	strong	24	7	3.0	263.9	1	2111.2	1)
11	T9	DF5450HD-DN/IR	3840 x 2160	h265	12.5	good	strong	24	7	5.5	474.0	1	474	
12	P10	Panomera W8 Ultraline 95/360	3152 x 2608	h265	12.5	good	strong	24	7	5.5	474.0	1	3792	1)
13	P10_OP2	Panomera S8 Topline 43/90 DN	2752 x 1728	h265	12.5	good	strong	24	7	3.0	263.9	1	2111.2	1)

1) Panomera: bitrate and storage are multiplied by the number of modules



Project documentation

Comune di Busto Arsizio

2. HDD-Calculation: Summary

Plus space for system area (GB)	20
Total capacity (GB)	26648.4
Channels	81
Total bitrate (Rec) (Mbit/s)	305.5