S 7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7/8 Sensors

ONVIF S

PANOMERA®

75/46/45/146 MEGAPIXELS
effective resolution

4K Ultra HD Ready ★

| 116 m (381 ft) >125 px/m (38 px/ft) Recognition Distance S7 75/24 | 86 m (282 ft) >125 px/m (38 px/ft) Recognition Distance S7 46/48 | 43 m (141 ft) >125 px/m (38 px/ft) Recognition Distance S7 45/95 | 250 m (820 ft) >125 px/m (38 px/ft) Recognition Distance S8 146/12 | 30 fps At Full Resolution | Low Bandwidth | Digital Day/Night | UWDR Ultra Wide Dynamic Range | Low Light | Multi User | Weather-proof |

The patented **Panomera® Multifocal Sensor System** is a totally novel camera technology particularly developed for the extensive video surveillance of large-scale areas. With **Panomera®**, enormously broad ranges as well as areas with great distances are displayed in a completely new resolution quality – in real time and at high frame rates.

With **Panomera®**, a huge area can be surveilled from a single location – and the resolution can be almost scaled without limits (e.g. by combining multiple **Panomera® Multifocal Sensor Systems**).
The innovative lens and sensor concept of the **Panomera®** offers a unique overall view while, at the same time, capturing the finest of details even for long distances. The result is a significant reduction of infrastructural demands:
In places where, in the past, several HD or megapixel cameras would have had been required, now, one **Panomera® Multifocal Sensor System** alone is sufficient.

Panomera® far exceeds the conventional Full HD 1080p standard and megapixel resolution.
Due to the **Multifocal Sensor System,** all areas of the entire surveillance scene are simultaneously displayed at maximum detail resolution.
Regardless of which part of the surveilled area an operator concentrates on and no matter when, with **Panomera®** all events are entirely covered at all times. Therefore, an incident can always be re-constructed to be used as evidence in court, no matter where it took place and even at a later point in time, and individuals involved can be identified.

Panomera® provides for a full overall view with minimum wear and almost no maintenance.
The **Multifocal Sensor System**, thus, offers a long service life and long-term investment protection.

Features

- **Multifocal Sensor System** with **7/8 sensors**
- **Panomera® Effect** for a resolution across the entire object space always higher than **125 px/m**[1] for up to a distance of **43 m**, **86 m**, **116 m** or **250 m**
- Horizontal field of view (hFOV): **12°**, **24°**, **48°** or **95°**
- Effective resolution **45**, **46**, **75** or **146 megapixels** (compared to a conventional single-sensor camera)
- **4K Ultra HD Ready**
- Consistent depth of field for overall image sharpness
- Extremely bandwidth-friendly real-time data transmission (streaming) with up to **30 fps** at full resolution
- Digital Day/Night switching technology[2]
- High **low-light** performance
- **Ultra Wide Dynamic Range (UWDR)** for highest color fidelity and superb detail reproduction even in scenes with a wide range of contrast and strong backlighting
- Permanent capturing/recording of the entire scene
- Pure Digital Signal Processing
- Remote Back Focus Control
- High-efficiency H.264 video compression
- Automatic (brightness) Level Control (ALC)
- Automatic Gain Control (AGC)
- Automatic White Balance (AWB)

- 3D Digital Noise Reduction (3D DNR)
- Privacy Zone Masking (hiding/masking of protected areas)
- Automatic object tracking over long distances
- Multiuser capability
- Multicast capability
- Recording with SMAVIA Recording Server supported
- Weather-proof (IP66)
- Integrated heater
- Easy installation and maintenance
- Copper and optional fibre-optic networking
- Voltage supply with 48 V DC or 24 V AC
- ONVIF Profile S compliance for easy integration into 3rd party systems
- DIN EN 50130-4 compliant

Areas of Application

- Building facades and perimeter protection, small to medium-sized parking spaces, city surveillance applications, station platforms (train, metro, tram and bus), warehouses and logistics areas, shopping malls, terminals (airport, container, ferry) etc.

1) Depending on the installation height and camera inclination; 125 px/m meet the requirements for the recognition of persons by an operator.
2) The Day/Night switching is performed digitally, without the use of a mechanically removable IR-cut filter; the camera is not sensitive to infrared light during night.

S7/8 PANOMERA® topline
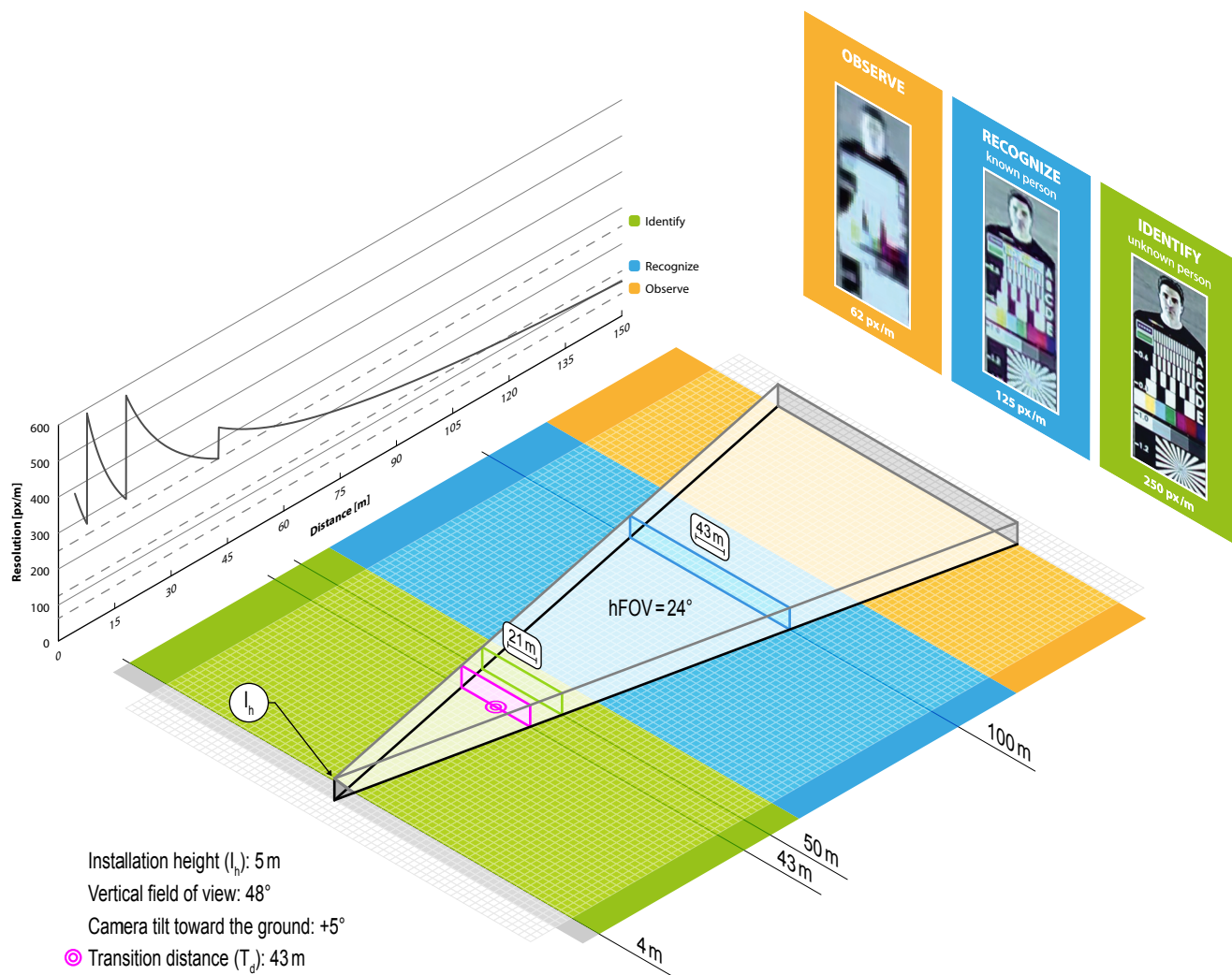
Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12 — Multifocal Sensor System with 7/8 Sensors

Variants/Options

	Variants Panomera® S7 75/24
005058.413	**Panomera® S7 75/24 C** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 24°, vFOV = 48°, aspect ratio = 1:2, effective resolution 75 MP, recognition distance (≥125 px/m) for up to 116 m, 1000BASE-T Ethernet port for copper cabling
005058.414	**Panomera® S7 75/24 Multimode** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 24°, vFOV = 48°, aspect ratio = 1:2, effective resolution 75 MP, recognition distance (≥125 px/m) for up to 116 m, 1000BASE-SX optical SFP port for fibre-optic cabling (MMF, 850 nm, 550 m)
005058.415	**Panomera® S7 75/24 Singlemode** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 24°, vFOV = 48°, aspect ratio = 1:2, effective resolution 75 MP, recognition distance (≥125 px/m) for up to 116 m, 1000BASE-LX/LH optical SFP port for fibre-optic cabling (SMF, 1310 nm, 10 km)

	Variants Panomera® S7 46/48
005058.416	**Panomera® S7 46/48 C** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 48°, vFOV = 27°, aspect ratio = 9:5, effective resolution 46 MP, recognition distance (≥125 px/m) for up to 86 m, 1000BASE-T Ethernet port for copper cabling
005058.417	**Panomera® S7 46/48 Multimode** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 48°, vFOV = 27°, aspect ratio = 9:5, effective resolution 46 MP, recognition distance (≥125 px/m) for up to 86 m, 1000BASE-SX optical SFP port for fibre-optic cabling (MMF, 850 nm, 550 m)
005058.418	**Panomera® S7 46/48 Singlemode** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 48°, vFOV = 27°, aspect ratio = 9:5, effective resolution 46 MP, recognition distance (≥125 px/m) for up to 86 m, 1000BASE-LX/LH optical SFP port for fibre-optic cabling (SMF, 1310 nm, 10 km)

	Variants Panomera® S7 45/95
005058.419	**Panomera® S7 45/95 C** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 95°, vFOV = 52°, aspect ratio = 9:5, effective resolution 45 MP, recognition distance (≥125 px/m) for up to 43 m, 1000BASE-T Ethernet port for copper cabling
005058.420	**Panomera® S7 45/95 Multimode** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 95°, vFOV = 52°, aspect ratio = 9:5, effective resolution 45 MP, recognition distance (≥125 px/m) for up to 43 m, 1000BASE-SX optical SFP port for fibre-optic cabling (MMF, 850 nm, 550 m)
005058.421	**Panomera® S7 45/95 Singlemode** Panomera® Multifocal Sensor System, 7 sensors, hFOV = 95°, vFOV = 52°, aspect ratio = 9:5, effective resolution 45 MP, recognition distance (≥125 px/m) for up to 43 m, 1000BASE-LX/LH optical SFP port for fibre-optic cabling (SMF, 1310 nm, 10 km)

	Variants Panomera® S8 146/12
005055.407	**Panomera® S8 146/12 C** Panomera® Multifocal Sensor System, 8 sensors, hFOV = 12°, vFOV = 40°, aspect ratio = 3:10, effective resolution 146 MP, recognition distance (≥125 px/m) for up to 250 m, 1000BASE-T Ethernet port for copper cabling
005055.408	**Panomera® S8 146/12 Multimode** Panomera® Multifocal Sensor System, 8 sensors, hFOV = 12°, vFOV = 40°, aspect ratio = 3:10, effective resolution 146 MP, recognition distance (≥125 px/m) for up to 250 m, 1000BASE-SX optical SFP port for fibre-optic cabling (MMF, 850 nm, 550 m)
005055.409	**Panomera® S8 146/12 Singlemode** Panomera® Multifocal Sensor System, 8 sensors, hFOV = 12°, vFOV = 40°, aspect ratio = 3:10, effective resolution 146 MP, recognition distance (≥125 px/m) for up to 250 m, 1000BASE-LX/LH optical SFP port for fibre-optic cabling (SMF, 1310 nm, 10 km)

	Optional Accessories
003965	**Power Supply Unit 48 V DC, 5 A (for EN 50022 DIN-Rails)**[3] Power supply for Panomera®, 48 V DC, 5 A, suitable for DIN rails according to EN 50022

	Optional Licenses SMAVIA Recording Server (Panomera® Sub-Channels)
005059	**DLC - 6 Additional Panomera® Sub-Channels** License for the use of six additional HD channels for the exclusive recording of Panomera® sub-channels
004900	**DLC - 7 Additional Panomera® Sub-Channels** License for the use of seven additional HD channels for the exclusive recording of Panomera® sub-channels

3) The **Power Supply Unit 48V DC** (003965) is suitable for parallel power supply of camera and heater. A 4-wire cable routing is recommended for the power supply.

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Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7/8 Sensors

Mounting Accessories

Panomera® S5–S8 Wall Mount Set

005084

WBOVA2 – Wall Mount Bracket
Wall mount bracket WBOVA2 with integrated joint,
compatible with Panomera® S5–S8

WCPA – Support Plate Adapter
Reinforcing support plate WCPA
for adapting the wall brackets WBMA and WBOVA2

Panomera® S5–S8 Corner Mount Set

005085

WBOVA2 – Wall Mount Bracket
Wall mount bracket WBOVA2 with integrated joint,
compatible with Panomera® S5–S8

WCWA – Corner Mount Adapter
Corner mount adapter WCWA for corner mounting

Panomera® S5–S8 Ceiling Mount Set

005086

WFWCA – Ceiling Mount Bracket
Ceiling mount bracket WFWCA with integrated joint,
compatible with Panomera® S5–S8

Panomera® S5–S8 Pole Mount Set (65–110 mm)

005087

WBOVA2 – Wall Mount Bracket
Wall mount bracket WBOVA2 with integrated joint,
compatible with Panomera® S5–S8

WSFPA – Pole Mount Adapter
Pole mount adapter WSFPA for pole diameters 65–110 mm (2.6–4.3")

Panomera® S5–S8 Pole Mount Set (210–225 mm)

005088

WBOVA2 – Wall Mount Bracket
Wall mount bracket WBOVA2 with integrated joint,
compatible with Panomera® S5–S8

WCPA – Support Plate Adapter
Reinforcing support plate WCPA
for adapting the wall brackets WBMA and WBOVA2

DBHWGC – Pole Mount Adapter
Pole mount adapter DBHWGC for pole diameters 210–225 mm (8.3–8.6")

S 7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12 — Multifocal Sensor System with 7/8 Sensors

Field of View Panomera® S7 75/24

Installation height (I$_h$): 5 m
Vertical field of view: 48°
Camera tilt toward the ground: +5°
◉ Transition distance (T$_d$): 43 m

Basic Recommendations	
Installation height (I$_h$)	4.5 – 5.5 m
Camera tilt toward the ground for an ideal resolution distribution @I$_h$	approx. +5° @5 m (on the assumption that the camera body was initially mounted parallel to the ground)
Transition distance (T$_d$)	43 m (use as an adjusting aid for an ideal camera tilt)

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S 7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12

Multifocal Sensor System with 7 / 8 Sensors

Resolution Panomera® S7 75/24

Installation height = 5 m; Camera tilt toward the ground = +5°

- 🟩 Identify
- 🟦 Recognize
- 🟧 Observe

Recognition distance (≥125 px/m) for up to 116 m

Distance [m]	Image Width [m]	Image Height [m]	Resolution [px/m]
50	21	5	287
100	43	5	144
150	64	5	96

OBSERVE	RECOGNIZE known person	IDENTIFY unknown person
62 px/m	125 px/m	250 px/m

S7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7 / 8 Sensors

Field of View Panomera® S7 46/48

OBSERVE
62 px/m

RECOGNIZE
known person
125 px/m

IDENTIFY
unknown person
250 px/m

Identify
Recognize
Observe

Resolution [px/m]

Distance [m]

hFOV = 48°

89 m

45 m

100 m

50 m

35 m

6 m

I_h

Installation height (I_h): 5 m
Vertical field of view: 27°
Camera tilt toward the ground: +5°
◎ Transition distance (T_d): 35 m

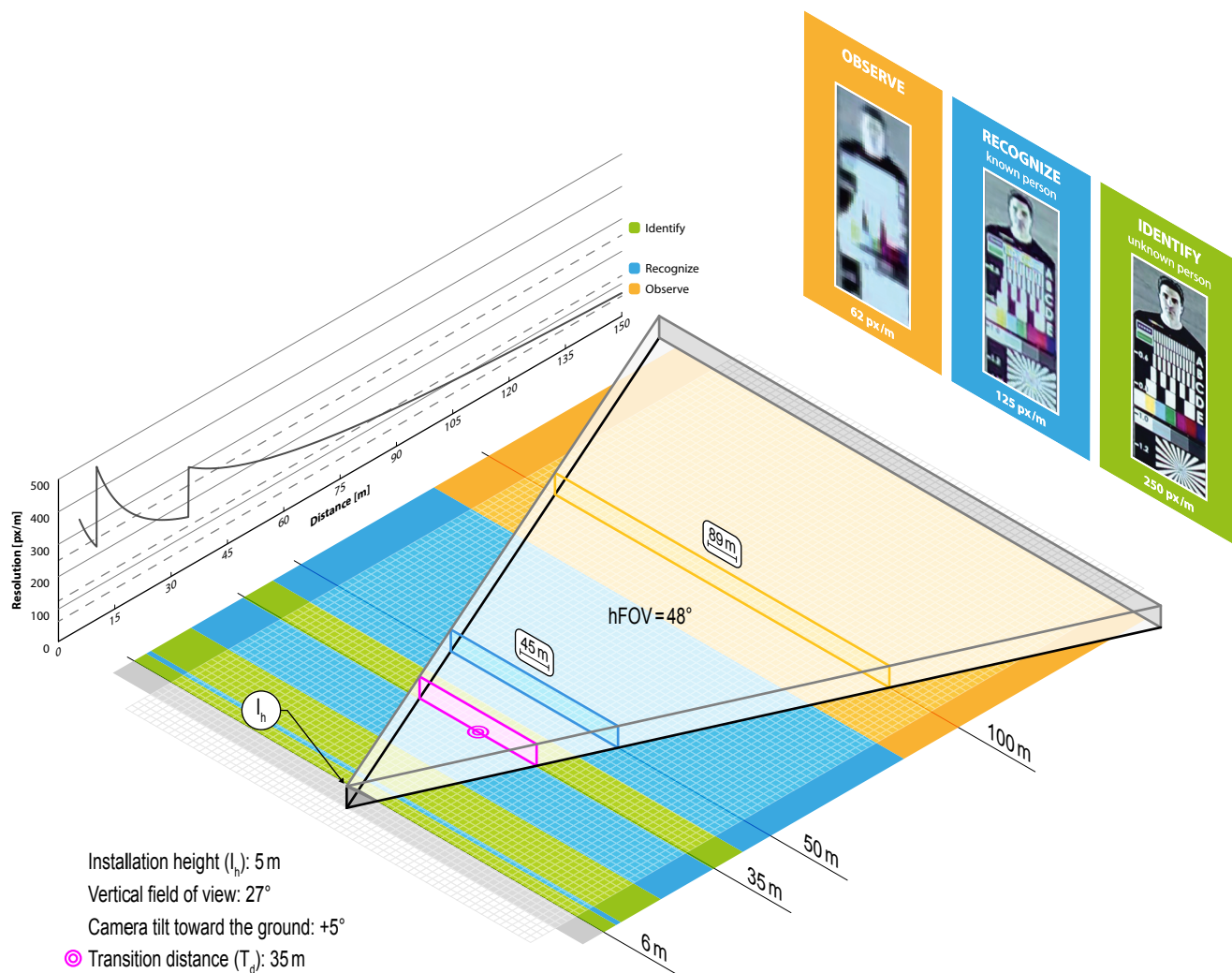| Basic Recommendations	
Installation height (I_h)	4.5 – 6.5 m
Camera tilt toward the ground for an ideal resolution distribution @I_h	approx. +5° @5 m (on the assumption that the camera body was initially mounted parallel to the ground)
Transition distance (T_d)	35 m (use as an adjusting aid for an ideal camera tilt)

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S 7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7 / 8 Sensors

Resolution Panomera® S7 46/48

Installation height = 5 m; Camera tilt toward the ground = +5°

- Identify
- Recognize
- Observe
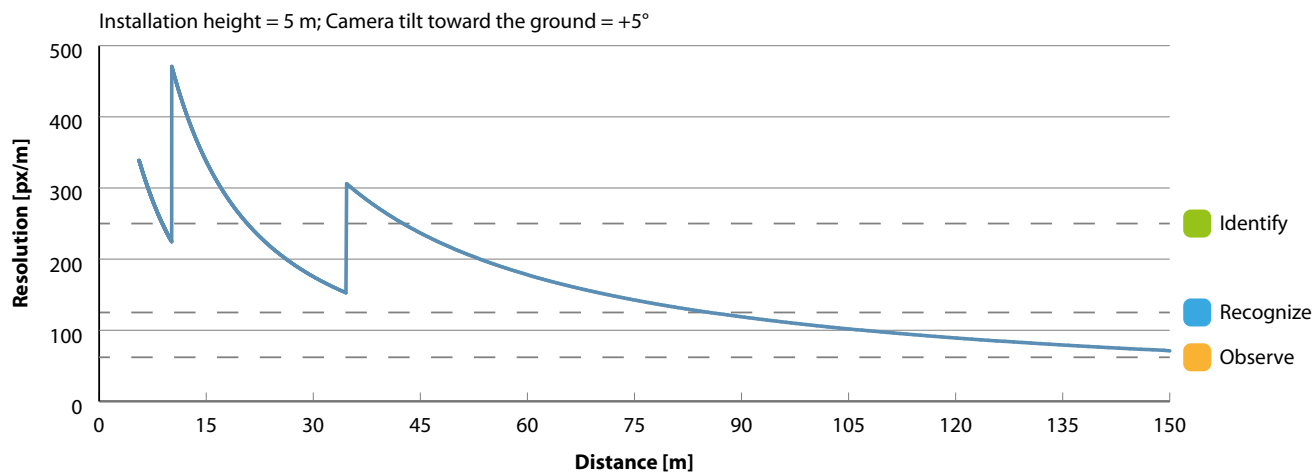
Recognition distance (≥125 px/m) for up to 86 m

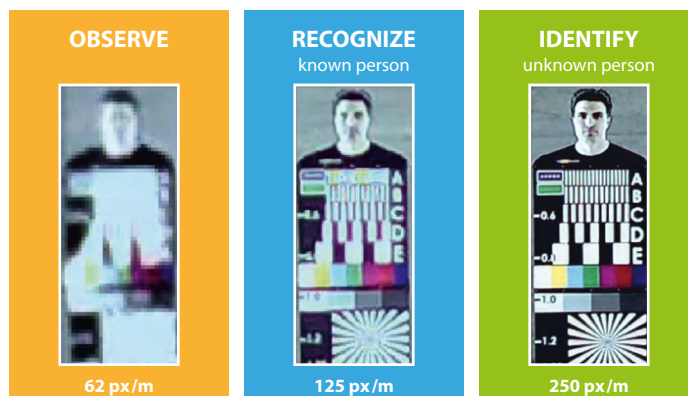| Distance [m]	Image Width [m]	Image Height [m]	Resolution [px/m]
50	45	5	213
100	89	5	107
150	134	5	71

OBSERVE	RECOGNIZE known person	IDENTIFY unknown person
62 px/m	125 px/m	250 px/m

S 7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7 / 8 Sensors

Field of View Panomera® S7 45/95

OBSERVE
62 px/m

RECOGNIZE
known person
125 px/m

IDENTIFY
unknown person
250 px/m

Identify
Recognize
Observe

Resolution [px/m]

Distance [m]

hFOV = 95°

109 m

55 m

I_h

100 m

50 m

25 m

17 m

4 m

Installation height (I_h): 5 m

Vertical field of view: 52°

Camera tilt toward the ground: +1°

◎ Transition distance (T_d): 17 m

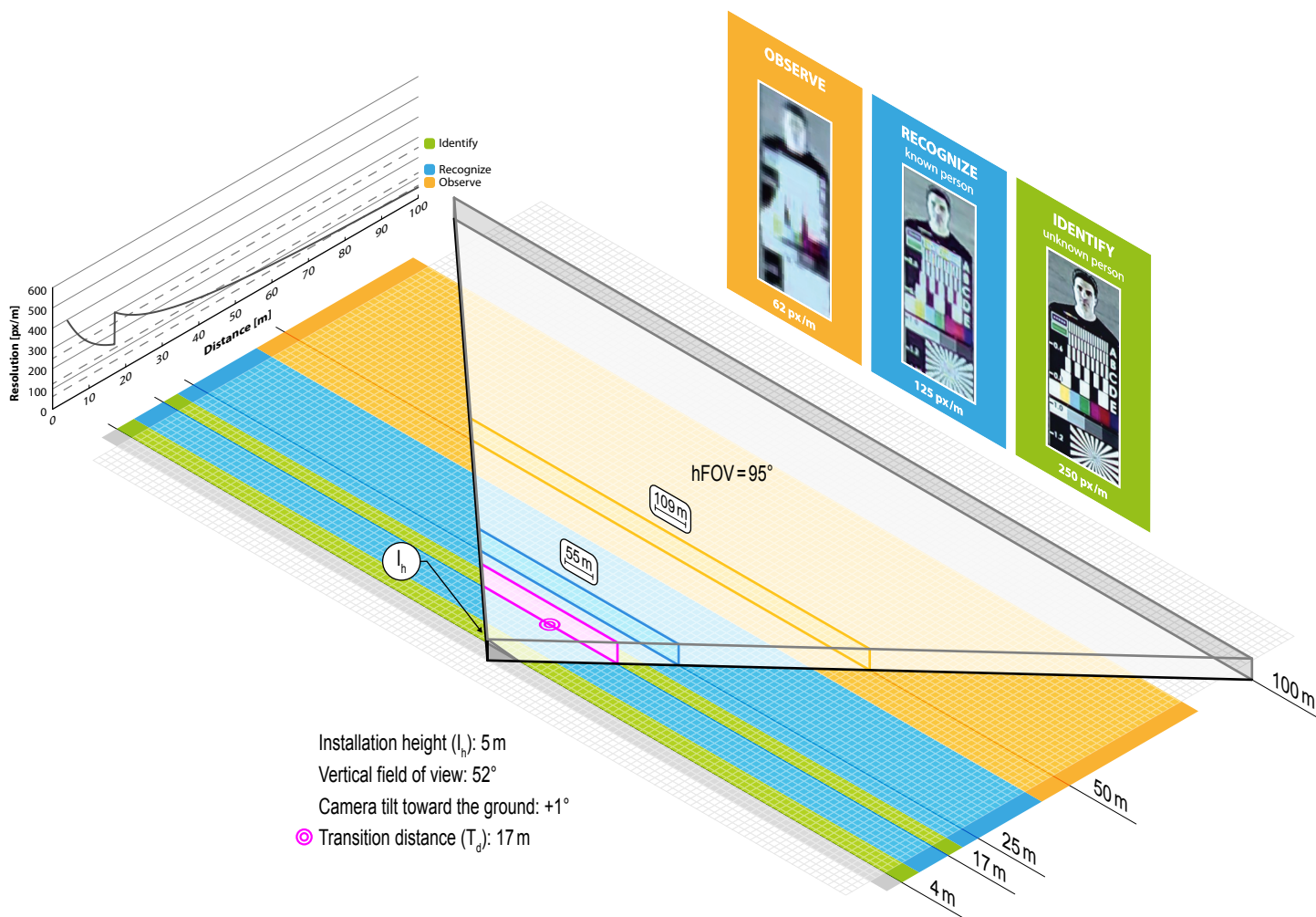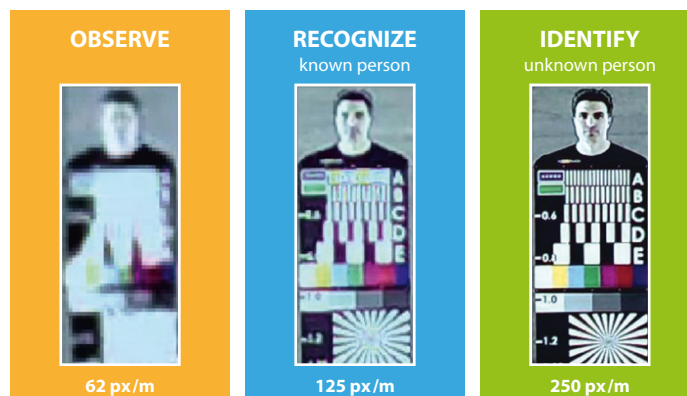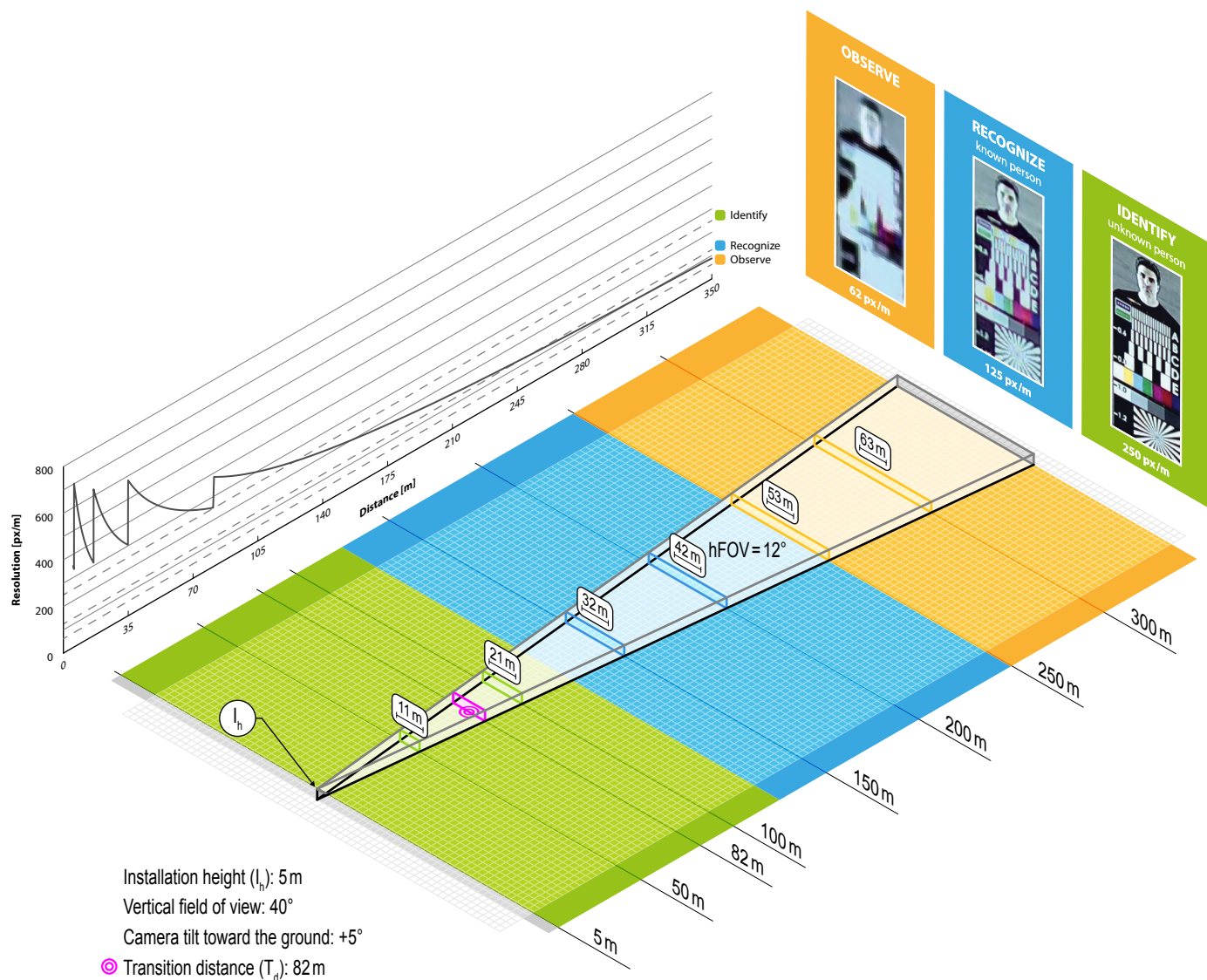| Basic Recommendations	
Installation height (I_h)	4.0 – 6.5 m
Camera tilt toward the ground for an ideal resolution distribution @I_h	+1° @ 5 m (on the assumption that the camera body was initially mounted parallel to the ground)
Transition distance (T_d)	17 m (use as an adjusting aid for an ideal camera tilt)

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Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7 / 8 Sensors

Resolution Panomera® S7 45/95

Installation height = 5 m; Camera tilt toward the ground = +1°

- ● Identify
- ● Recognize
- ● Observe
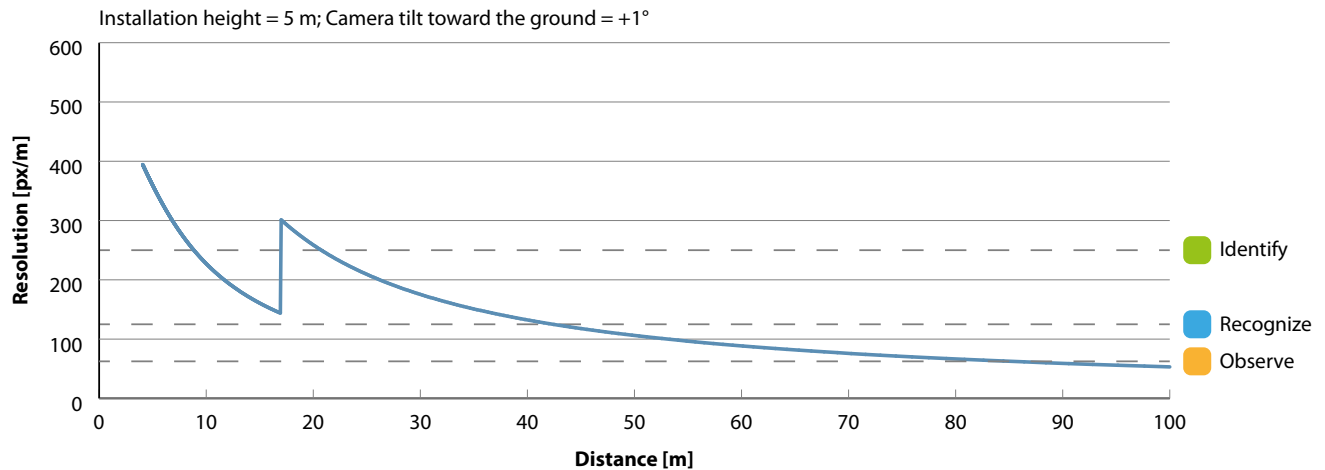
Recognition distance (≥125 px/m) for up to 43 m

Distance [m]	Image Width [m]	Image Height [m]	Resolution [px/m]
25	55	5	209
50	109	5	106
100	218	5	53

OBSERVE	RECOGNIZE known person	IDENTIFY unknown person
62 px/m	125 px/m	250 px/m

S 7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7/8 Sensors

Field of View Panomera® S8 146/12

- Identify
- Recognize
- Observe

OBSERVE
62 px/m

RECOGNIZE
known person
125 px/m

IDENTIFY
unknown person
250 px/m

hFOV = 12°

Installation height (I$_h$): 5 m
Vertical field of view: 40°
Camera tilt toward the ground: +5°
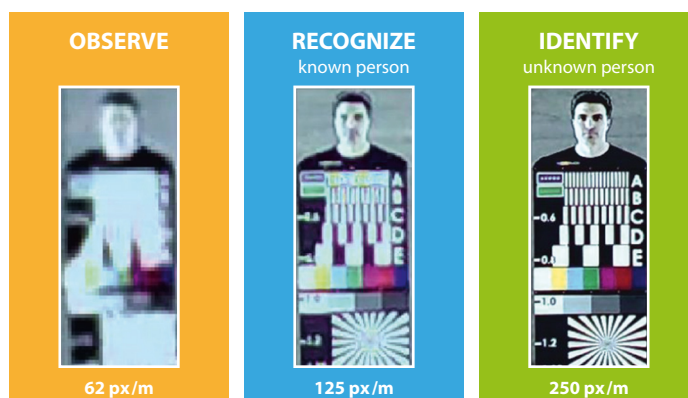Transition distance (T$_d$): 82 m

Basic Recommendations	
Installation height (I$_h$)	4.5 – 6.0 m
Camera tilt toward the ground for an ideal resolution distribution @I$_h$	approx. +5° @5 m (on the assumption that the camera body was initially mounted parallel to the ground)
Transition distance (T$_d$)	82 m (use as an adjusting aid for an ideal camera tilt)

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Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12

Multifocal Sensor System with 7 / 8 Sensors

Resolution Panomera® S8 146/12

Installation height = 5 m; Camera tilt toward the ground = +5°

- Identify
- Recognize
- Observe
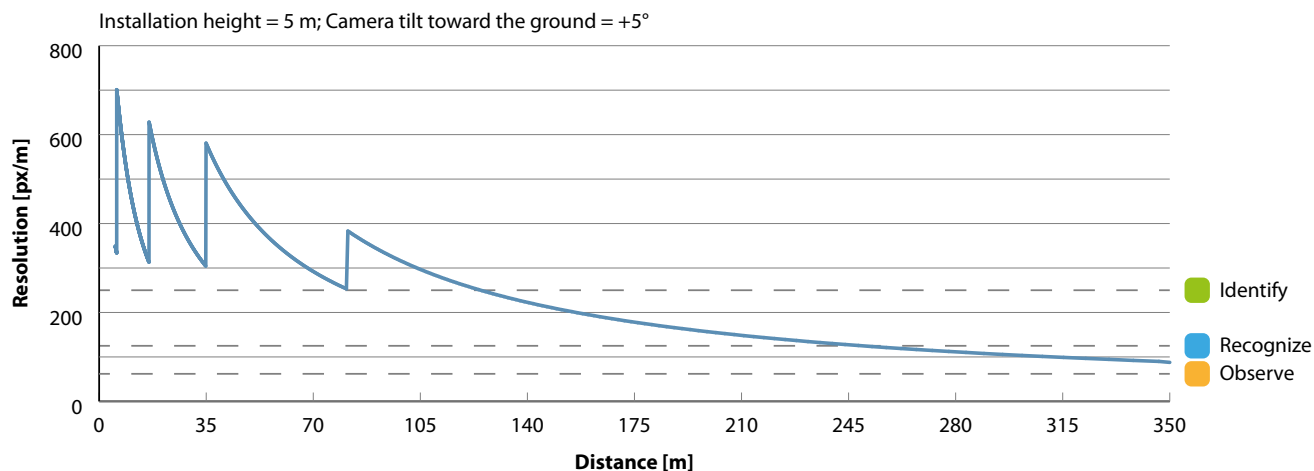
Recognition distance (≥125 px/m) for up to 250 m

Distance [m]	Image Width [m]	Image Height [m]	Resolution [px/m]
50	11	5	407
100	21	5	311
150	32	5	207
200	42	5	155
250	53	5	125
300	63	5	103

OBSERVE	RECOGNIZE known person	IDENTIFY unknown person
62 px/m	125 px/m	250 px/m

S 7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7 / 8 Sensors

Specifications

Sensor System	Panomera® S7 75/24	Panomera® S7 46/48	Panomera® S7 45/95	Panomera® S8 146/12
Type	Multifocal Sensor System			
Number of sensors	7	7	7	8
Number of sensor pixels	28 MP	28 MP	28 MP	32 MP
Signal processing	Pure Digital Signal Processing			
Image capture	Progressive Scan			
Sensor sensitivity	0.01 lux			
Dynamic range (UWDR)	120 dB (effective)			

Resolution	Panomera® S7 75/24	Panomera® S7 46/48	Panomera® S7 45/95	Panomera® S8 146/12
Effective resolution (compared to a conventional single-sensor camera)	75 MP	46 MP	45 MP	146 MP
Recognition distance (≥125 px/m)	Up to 116 m	Up to 86 m	Up to 43 m	Up to 250 m
Identification distance (≥250 px/m)	Up to 58 m	--	--	Up to 125 m
4K Ultra HD Ready	Yes			

Field of View & Aspect Ratio	Panomera® S7 75/24	Panomera® S7 46/48	Panomera® S7 45/95	Panomera® S8 146/12
Horizontal field of view (hFOV)	24°	48°	95°	12°
Vertical field of view (vFOV)	48°	27°	52°	40°
Aspect ratio (H:V)	1:2	9:5	9:5	3:10

Day/Night Operation	
Day/Night switching technology	Digital (no mechanically removable IR-cut filter)[4]

Functions	
Black-and-white mode	Automatic (at low light or in night mode)[5]
Digital Noise Reduction	3D DNR
Brightness control	Automatic Level Control (ALC)
Gain control	Automatic Gain Control (AGC)
White balance	Automatic White Balance (AWB)
Privacy Zone Masking	Yes (max. 100% of the entire image)
Remote Back Focus Control	Yes (for easy remote focusing over the network during installation and maintenance)
Configuration/Operation	Via web browser, SMAVIA Recording Server Software, SMAVIA Viewing Client and Panomera® Viewing Client
Languages	German, English, French, Spanish, Italian; other languages on request

Format and Encoding	
Video compression	H.264
Frame rate	Up to 30 fps at full resolution
Transfer format	Progressive (full image)
Live streaming transmission methods	Multicast or unicast (for Viewing Client) Unicast (for recording)

Network and Recording	Panomera® S7 75/24	Panomera® S7 46/48	Panomera® S7 45/95	Panomera® S8 146/12
Required network bandwidth (nominal, for recording)	42 Mbps[6]	42 Mbps[6]	42 Mbps[6]	48 Mbps[6]
	6 Mbps (with Panomera® Streaming Server)			
Recommended network bandwidth	1000 Mbps (Gigabit Network)			

4) The Day/Night switching is performed digitally, without the use of a mechanically removable IR-cut filter; the camera is not sensitive to infrared light during night.
5) Without color information, or rather in black-and-white mode, the image quality in low light conditions will be much clearer (e.g. less color noise).
6) This value is based on the encoding of each sensor with 6 Mbps and the use of the recording system as a proxy for the live view.

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Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7 / 8 Sensors

Specifications (Continuation)

Network Connections (*depending on the model*)	
Copper cabling	1× Telegärtner STX V4 bulkhead H86000A0002 with STX RJ45 coupler Cat.6 J80029A0010 for 1000BASE-T (1000 Mbps) Included: • STX V4 plug housing H86011A0011 with STX RJ45 field plug insert Cat.6 J80026A0004, for field-assembly • Ready-made copper cable (length 3 m, UV-resistant, Telegärtner STX on RJ45 plug)
Fibre-optic cabling MMF	1× Telegärtner STX V4 bulkhead H86000A0002 with STX LC-Duplex adaptor Multimode F80074A0000 for 1000BASE-SX (MMF, 850 nm, 550 m) Included: • STX V4 plug housing H86011A0011 with STX LC-Duplex plug insert Multimode F80073A0000, for field-assembly • Ready-made fibre-optic cable (length 10 m, UV-resistant, Telegärtner STX on LC-Duplex connector Multimode)
Fibre-optic cabling SMF	1× Telegärtner STX V4 bulkhead H86000A0002 with STX LC-Duplex adaptor Singlemode F80074A0001 for 1000BASE-LX/LH (SMF, 1310 nm, 10 km) Included: • STX V4 plug housing H86011A0011 with STX LC-Duplex plug insert Singlemode F80073A0001, for field-assembly • Ready-made fibre-optic cable (length 10 m, UV-resistant, Telegärtner STX on LC-Duplex connector Singlemode)

Ethernet	
Protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, FTP, SMTP, RTP, RTCP

Miscellaneous	
ONVIF compliance	Profile S

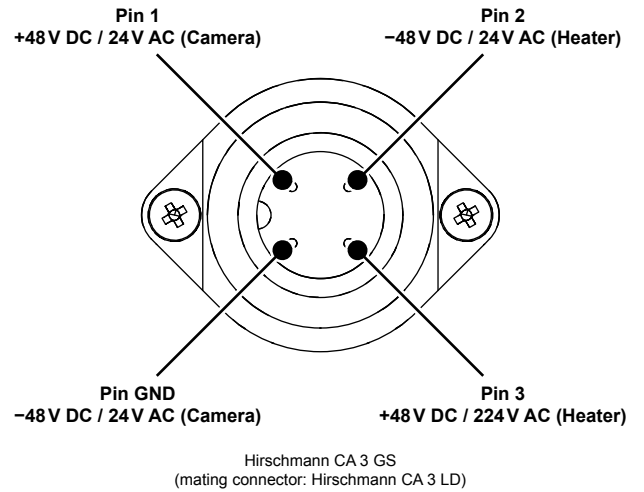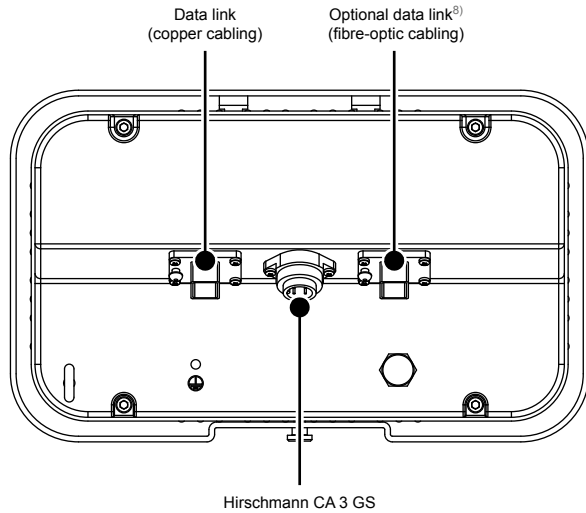| Electrical Data	Panomera® S7 75/24	Panomera® S7 46/48	Panomera® S7 45/95	Panomera® S8 146/12
Voltage supply[7]	Camera: 48 V DC / 24 V AC Heater: 48 V DC / 24 V AC			
Power consumption	Camera: Max. 51 W Heater: Max. 60 W			Camera: Max. 60 W Heater: Max. 60 W
Connection	Hirschmann CA 3 GS (mating connector: Hirschmann CA 3 LD)			

Mechanical Data	Panomera® S7 75/24	Panomera® S7 46/48	Panomera® S7 45/95	Panomera® S8 146/12
Construction material	Aluminium			
Dimensions	*See "Dimensions" on page 14.*			
Finish	Powder coating, grey white (RAL 9002)			
Weight (with sun shield)	approx. 8.5 kg			approx. 8.7 kg

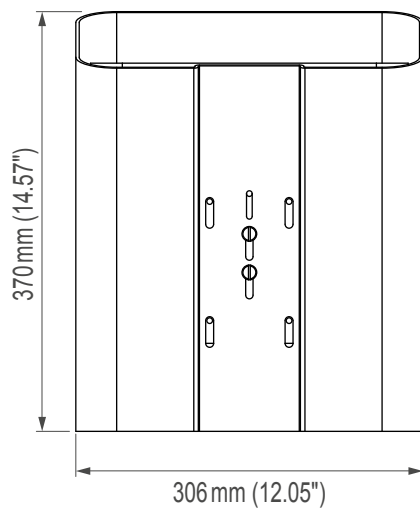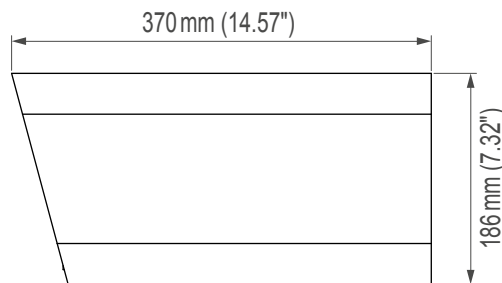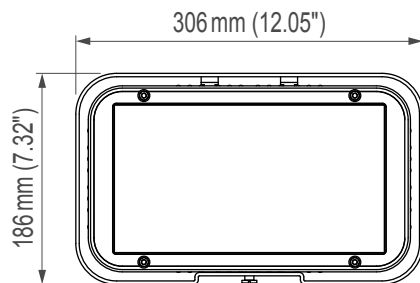| Environmental Conditions	
Suitable installation sites	Indoor/Outdoor
Operating temperature	−40 °C to +50 °C (minimum start-up temperature: −30 °C) Heater On: < +10 °C Heater Off: > +10 °C
Relative humidity	0% – 90% RH, non-condensing
IP rating	IP66

Approvals/Certifications	
Type	CE, FCC, ACA, DIN EN 50130-4 compliant

7)   The **Power Supply Unit 48V DC** (003965) is suitable for parallel power supply of camera and heater. A 4-wire cable routing is recommended for the power supply.

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S 7/8 PANOMERA® topline

Variants S7 75/24, S7 46/48, S7 45/95 and S8 146/12   Multifocal Sensor System with 7/8 Sensors

Connections

Data link (copper cabling)

Optional data link[8] (fibre-optic cabling)

Hirschmann CA 3 GS

Pin 1
+48 V DC / 24 V AC (Camera)

Pin 2
−48 V DC / 24 V AC (Heater)

Pin GND
−48 V DC / 24 V AC (Camera)

Pin 3
+48 V DC / 224 V AC (Heater)

Hirschmann CA 3 GS
(mating connector: Hirschmann CA 3 LD)

Dimensions

306 mm (12.05")
186 mm (7.32")

370 mm (14.57")
186 mm (7.32")

370 mm (14.57")
306 mm (12.05")

Adapter plate

40 mm (1.57")
70 mm (2.76")
62 mm (2.44")

8)   Depending on the model