

Product Overview

IP Cameras

Multi-Signal Cameras

Thermal Cameras

NVR / DVR

Switches

Encoders / Decoders





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Passion for security

For 18 years the synonym for security has been made up of four letters: eneo.

The brand stands for

- e**asily installed products,
- n**umerous lasting industry solutions,
- e**ffective video security, and an
- o**ptimal price-performance ratio.

Our portfolio is as versatile as our clients are diverse. At eneo, operators and installers will find the powerful IP or HD analogue products which they need to deliver tailor-made video security concepts. And since eneo can rely upon the accumulated problem-solving expertise of VIDEOR Solutions when required, special productions and product adaptations are also easily possible. Furthermore, eneo is an approved OEM partner for many renowned transport and logistics providers. This flexibility, quality and service culture are at the heart of eneo. Because security is our passion.

Installation accessories

The eneo product development is based upon a simple question: how can our cameras and recorders become even easier to set up and more user-friendly? That's why we listen carefully to our customers because their practical experience inspires us to create products which impress with both their performance and their appealing, clever design.

A prime example of this are the new bullet cameras from our Candid series: their integrated junction solution allows for an even more convenient and faster installation than before. For our other product ranges - such as the modular domes in the Callisto series - we also offer a wide range of installation accessories, with which a variety of installation scenarios can be implemented. An overview of the various practical accessory items and their combination options is offered on the following pages.

Callisto



DOME-S1
Art. No.: 216923
Sun shield for
Callisto domes



Dome/Wedge2
Art.-No.: 207192
Wedge adaptor
for Callisto domes



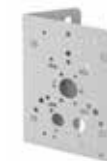
AK-5
Art.-No.: 209832
Junction box
for Callisto domes, IP66



Dome/Basis1
Art.-No.: 209831
Surface mount base
for Callisto domes



**DOME-WB1+
DOME/ Basis1**
Art.-No.: 209880
Wall bracket & surface
mount base for Callisto
domes



PM-42A
Art.-No.: 202641
Pole mount adaptor for eneo
Candid, Candid S, Candid M,
Candid L, W3, WB1, AK-5, AK-4

Candid



AK-4
Art.-No.: 202888
Junction box for eneo Candid S,
Candid M, Candid L



VerticalView Adaptor
Art.-No.: 214174
Designed for Candid M IP cameras
using the VerticalView mode



PM-42A
Art.-No.: 202641
Pole mount adaptor for eneo
Candid, Candid S, Candid M,
Candid L, W3, WB1, AK-5, AK-4

IPP-83A0036MIA



IPP-82A0030MIA

also:
IPP-88A0036MIA
TPP-82A0030MIA

IPP-62A0012M0A



MPP-72A0020MIAT

also:
TPP-62A0012M0A
MPP-72A0020MIA
IPP-72A0023MIA



EDC-CMT1 / EDC-CMT1-W
Art.-No.: 74128 / Art.-Nr.: 220313
Ceiling mount tube



EDC-WMB1 / EDC-WMB1-W
Art.-No.: 74128 / Art.-Nr.: 220314
Ceiling mount tube



DOME-WB2 / DOME-WB2-W
Art.-No.: 203696 / Art.-Nr.: 216209
Wall bracket for eneo Minitrax PTZ dome cameras



EDMC/CWB-1
Art.-No.: 74155
Wall or pendant mount kit

EDC-PM7 / EDC-PM7-W
Art.-Nr.: 74055 / Art.-Nr.: 220492
Pole mount adaptor



EDC-CMA2 / EDC-CMA2-W
Art.-Nr.: 74054 / Art.-Nr.: 220504
Corner mount adaptor





IEB-54F0036M0A



IED-54F0036MBA
MED-54F0036MBA



IEB-78M3611MAA,
IEB-74M2812MAA,
IEB-72M2812MAA,
IEB-63M2812M0A



IED-64M2812MBA
MED-64V2812MBA



IEB-64M2812M0A



IED-63M2812M0A
also:
IED-63F0037M0A
IED-62M2812MAA
IED-64M2812MAA
IED-68M3611MAA



ISD-55P0010P0A



MEB-64V2812M0A



IEP-63M2812M0A
MEP-62M2812M0A

AK-8
Art. No.: 219057
Camera junction box,
wall and ceiling mounting



AK-9
Art.-No.: 219058
Junction box for DH-6,
Dome-WB4



Dome-WB4
Art.-No.: 219060
Wall mount kit
for AK-9



DH-6
Art.-No.: 219059
Ceiling mount tube
with flange for AK-9



PM-9
Art.-No.: 219780
Pole mount plus corner
mount adaptor



The aluminium housings in the eneo VHM product line have proven themselves in countless video security projects:



Flexible, scalable: eneo IP

The eneo IP portfolio includes cameras, recording systems and control software. The range is supplemented by special monitors for professional video surveillance and the appropriate installation accessories. Thus, operators obtain from a single source everything they need for network-based and scalable video security solutions. eneo IP products support the ONVIF interface standard and are integrated into leading video management software and recording solutions. This ensures a high degree of compatibility with the IP products of other manufacturers.

eneo IP cameras are available in all designs. The offer ranges from the striking Candid bullet cameras, which are also available with integrated junction solutions, to box cameras, fixed and PTZ domes, and even panomorph cameras. Models for special applications such as, for example, board and cylinder cameras round off the portfolio. Particularly noteworthy among our new additions are cameras such as the ICB-72A0003M0A, which offers advanced video analytics (VCA) in addition to DOL WDR image enhancement.

Smooth IP integration: you will learn in this project report how eneo IP cameras harmonise, for example, with synology storage solutions:



IP cameras



Product	IEB-54F0036M0A	IEB-64M2812M0A	IEB-72M2812MAA	IEB-74M2812MAA	IEB-78M3611MAA	IEB-62V2812MOB	IPB-72A0010M0A	IPB-73M2812MWA
Product number	217365	218032	220082	219588	220148	220141	213011	216603
System	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night
Sensor	1/3" CMOS, OmniVision, 4689	1/3" CMOS, OmniVision, 4689	1/2,8" CMOS, Sony STARVIS, IMX290	1/3" CMOS, OmniVision, 4689	1/2,5" CMOS, Sony STARVIS, IMX274	1/2,8" CMOS, Sony, IMX322	1/3" CMOS, Panasonic, MN34229PLI	1/2,8" CMOS, Sony STARVIS, IMX124
Resolution max.	2592x1520	2592x1520	1920x1080	2592x1520	3840x2160	1920x1080	1920x1080	2048x1536
Video compression	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG
Image transmission rate max.	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps
Sensitivity	0.1 Lux at F2.1, 50IRE	0.1 Lux at F2.1, 50IRE	0.03 Lux at F1.6, 40IRE	0.14 Lux at F1.6, 40IRE	0.03 Lux at F1.5, 40IRE	0.15 Lux at F1.3, 40IRE	0.5 Lux at F1.6, 50 IRE	0.15 Lux at F1.4, 40IRE
Illumination	Infrared, approx. 25m	Infrared, approx. 30m	Infrared, approx. 30m	Infrared, approx. 30m	Infrared, approx. 30m	Infrared, approx. 40m	Infrared, approx. 50m	Infrared, approx. 50m
Analysis functions	Motion detection, tampering protection, field detection	Motion detection, tampering protection, field detection	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog
Backlight compensation	-	-	BLC	BLC	BLC	BLC, HLC	BLC, HLC	BLC, HLC
Wide Dynamic Range (WDR)	D-WDR	D-WDR	WDR 120dB	WDR 120dB	WDR 120dB	D-WDR	WDR 113dB	D-WDR
Lens type	Fixed focal length	Varifocal (motorized)	Varifocal (motorized)	Varifocal (motorized)	Varifocal (motorized)	Varifocal	Auto focus zoom	Varifocal (motorized)
Focal length	3,6mm	2,8 – 12mm	2,8 – 12mm	2,8 – 12mm	3,6 – 11mm	2,8 – 12mm	5,1 – 50mm	2,8 – 12mm
Horizontal angle of view	83°	94° – 34°	100° – 33°	97° – 31°	87° – 38°	93° – 35°	53° – 7°	88° – 31°
Vertical angle of view	45°	52° – 20°	56° – 18°	55° – 18°	49° – 21°	51° – 18°	31° – 4°	64° – 23°
Audio support	-	-	G.711	G.711	G.711	-	G.711	G.711
Internal storage	-	-	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	-	microSDHC card, microSDXC card	microSDHC card, microSDXC card
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Temperature range (operation)	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-50°C ~ +50°C	-50°C ~ +50°C
Alarm inputs / outputs	-	-	1/1	1/1	1/1	-	1/1	1/1
Supply voltage	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, 24VAC, PoE	12VDC, 24VAC, PoE
Use	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor
Colour	White	White	White	White	White	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C
Protection rating	IP66	IP66	IP66	IP66	IP66	IP67	IP67	IP67
Features	H.265, Smart Codec	H.265, Smart Codec	P-Iris, intelligent motion, advanced VCA features, H.265, Smart Codec, STARVIS	P-Iris, intelligent motion, advanced VCA features, H.265, Smart Codec	P-Iris, intelligent motion, advanced VCA features, H.265, Smart Codec, STARVIS	-	-	Initial configuration via WLAN, STARVIS

IP

MULTI-SIGNAL

THERMAL

NVR / DVR

SWITCHES

EN-/DECODERS

IP cameras



Product	IPB-75M3610M0A	ICB-62M2712M0A	ICB-72A0003M0A	ICB-73M2712MWA	IED-62V2812P0B	IED-54F0036MBA	IED-64M2812MBA	IEP-63M2812M0A
Product number	213015	218305	218306	218304	219549	217364	218033	216461
System	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night
Sensor	1/2,8" CMOS, Sony STARVIS, IMX178	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,8" CMOS, Sony STARVIS, IMX290	1/2,8" CMOS, Sony STARVIS, IMX124	1/2,8" CMOS, Sony, IMX322	1/3" CMOS, OmniVision, 4689	1/3" CMOS, OmniVision, 4689	1/2,8" CMOS, Sony STARVIS, IMX124
Resolution max.	2592x1944	1920x1080	1920x1080	2048x1536	1920x1080	2592x1520	2592x1520	2048x1536
Video compression	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG
Image transmission rate max.	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps
Sensitivity	0.07 Lux at F1.5, 40IRE	0.15 Lux at F1.4, 40IRE	0.1 Lux at F1.6, 40IRE	0.15 Lux at F1.4, 40IRE	at F1.3, 40IRE	0.1 Lux at F2.1, 50 IRE	at F2.1, 50 IRE	0.1 Lux at F1.4, 50IRE
Illumination	Infrared, approx. 50m	Infrared, approx. 50m	Infrared, approx. 50m	Infrared, approx. 50m	Infrared, approx. 30m	Infrared, approx. 30m	Infrared, approx. 30m	Infrared, approx. 25m
Analysis functions	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, field detection	Motion detection, tampering protection, field detection	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog
Backlight compensation	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	-	-	BLC, HLC
Wide Dynamic Range (WDR)	D-WDR	D-WDR	DOL-WDR 120dB	D-WDR	D-WDR	D-WDR	D-WDR	D-WDR
Lens type	Varifocal (motorized)	Varifocal (motorized)	Auto focus zoom	Varifocal (motorized)	Varifocal	Fixed focal length	Varifocal (motorized)	Varifocal (motorized)
Focal length	3,6 – 10mm	2,7 – 12mm	3,2 – 9mm	2,7 – 12mm	2,8 – 12mm	3,6mm	2,8 – 12mm	2,8 – 12mm
Horizontal angle of view	85° – 37°	114° – 33°	102° – 8°	99° – 33°	93° – 35°	83°	94° – 34°	83° – 35°
Vertical angle of view	63° – 28°	56° – 18°	54° – 4°	73° – 24°	51° – 18°	45°	52° – 20°	61° – 26°
Audio support	G.711	-	G.711	G.711	-	-	-	G.711
Internal storage	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	-	-	-	microSDHC card, microSDXC card
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Temperature range (operation)	-50°C ~ +50°C	-50°C ~ +50°C	-50°C ~ +50°C	-50°C ~ +50°C	-10°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C
Alarm inputs / outputs	1/1	-	1/1	1/1	-	-	-	1/1
Supply voltage	12VDC, 24VAC, PoE	PoE	12VDC, 24VAC, PoE	12VDC, 24VAC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE
Use	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor
Colour	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C	White	White	White	White
Protection rating	IP67	IP67	IP67	IP67	-	IP66	IP66	IP66
Features	STARVIS	Integrated junction box, STARVIS	Integrated junction box, preset, auto focus zoom, STARVIS	Integrated junction box, initial configuration via WLAN, STARVIS	-	H.265, Smart Codec	H.265, Smart Codec	Easy installation with motorized PTZ, STARVIS

IP cameras



Product	IED-62M2812MAA	IED-64M2812MAA	IED-68M3611MAA	ISD-55P0010P0A	ISD-58P0010P0A	IPD-62M2812P0A	IPD-72A0003M0B	IPD-73M2812MWA
Product number	220083	219808	220149	217871	220196	213021	219026	216602
System	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night
Sensor	1/2,8" CMOS, Sony STARVIS, IMX290	1/3" CMOS, OmniVision, 4689	1/2,5" CMOS, Sony STARVIS, IMX274	1/1,8" CMOS, Sony STARVIS	1/1,7" CMOS, Sony STARVIS	1/2,8" CMOS, Sony STARVIS, IMX322	1/2,8" CMOS, Sony STARVIS, IMX290	1/2,8" CMOS, Sony STARVIS, IMX124
Resolution max.	1920x1080	2592x1520	3840x2160	2592x1944	3840x2160	1920x1080	1920x1080	2048x1536
Video compression	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG
Image transmission rate max.	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps
Sensitivity	0.03 Lux at F1.6, 40IRE	0.14 Lux at F1.6, 40IRE	0.03 Lux at F1.5, 40IRE	0.3 Lux at F2.8	-	0.15 Lux at F1.4, 40IRE	at F1.6, 40IRE	0.15 Lux at F1.4, 40IRE
Illumination	Infrared, approx. 30m	Infrared, approx. 30m	Infrared, approx. 30m	-	-	Infrared, approx. 30m	Infrared, approx. 40m	Infrared, approx. 40m
Analysis functions	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection	Tampering protection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog
Backlight compensation	BLC	BLC	BLC	BLC, HLC	BLC	BLC, HLC	BLC, HLC	BLC, HLC
Wide Dynamic Range (WDR)	WDR 120dB	WDR 120dB	WDR 120dB	D-WDR	WDR	D-WDR	DOL-WDR 120dB	D-WDR
Lens type	Varifocal (motorized)	Varifocal (motorized)	Varifocal (motorized)	Fixed focal length	Fixed focal length	Varifocal (motorized)	Auto focus zoom	Varifocal (motorized)
Focal length	2,8 – 12mm	2,8 – 12mm	3,6 – 11mm	1,05mm	1,29mm	2,8 – 12mm	3,2 – 9mm	2,8 – 12mm
Horizontal angle of view	100° – 33°	97° – 31°	87° – 38°	360°	360°	112° – 32°	102° – 8°	88° – 31°
Vertical angle of view	56° – 18°	55° – 18°	49° – 21°	360°	360°	51° – 18°	54° – 4°	64° – 23°
Audio support	G.711	G.711	G.711	G.711	G.711	-	G.711	G.711
Internal storage	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	-	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Temperature range (operation)	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-10°C ~ +50°C	-20°C ~ +50°C	-10°C ~ +50°C	-50°C ~ +50°C	-50°C ~ +50°C
Alarm inputs / outputs	1/1	1/1	1/1	1/1	1/1	-	1/1	1/1
Supply voltage	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, 24VAC, PoE	12VDC, 24VAC, PoE
Use	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor	Indoor / outdoor	Indoor	Indoor / outdoor	Indoor / outdoor
Colour	White	White	White	White	White	White	Pantone Cool Gray 1C	Pantone Cool Gray 1C
Protection rating	IP66	IP66	IP66	-	IP66	-	IP67, IK10	IP67, IK10
Features	P-Iris, intelligent motion, advanced VCA features, H.265, Smart Codec, STARVIS	P-Iris, intelligent motion, advanced VCA features, H.265, Smart Codec	4K, P-Iris, intelligent motion, advanced VCA features, H.265, Smart Codec, STARVIS	STARVIS, Panomorph, ImmerVision certified	4K, H.265, Smart Codec, STARVIS	STARVIS	Preset, auto focus zoom, STARVIS, IK10	Initial configuration via WLAN, STARVIS, IK10

IP
MULTI-SIGNAL
THERMAL
NVR / DVR
SWITCHES
EN-/DECODERS

IP cameras



Product	IPD-75M3610M0A	IPC-52A0003M0B	IPC-52A0030P0A	IPC-55C0000M0A	IPP-62A0023MIA	IPP-83A0036MIA	IPP-88A0030MIA
Product number	213016	219027	212716	213022	220201	220202	220203
System	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night
Sensor	1/1,8" CMOS, Sony STARVIS, IMX178	1/2,8" CMOS, Sony STARVIS, IMX290	1/2,8" CMOS, Sony STARVIS, IMX291	1/1,8" CMOS, Sony STARVIS, IMX178	1/2,8" CMOS, Sony STARVIS, IMX290	1/2,8" CMOS, Sony STARVIS, IMX226	1/2,8" CMOS, Sony STARVIS, IMX124
Resolution max.	2592x1944	1920x1080	1920x1080	2592x1944	1920x1080	2048x1536	3840x2160
Video compression	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG	H.264, H.265, H.264+, H.265+, M-JPEG
Image transmission rate max.	30fps	30fps	60fps	30fps	30fps	60fps	30fps
Sensitivity	0.07 Lux at F1.5, 40IRE	0.1 Lux at F1.6, 40IRE	0.35 Lux at F1.6, 50IRE	0.07 Lux at F1.5, 40IRE	0.35 Lux at F1.6, 50IRE	0.35 Lux at F1.6, 50 IRE	0.1 Lux at F1.6, 50 IRE
Illumination	Infrared, approx. 40m	-	-	-	Infrared, approx. 60m	Infrared, approx. 200m	Infrared, approx. 200m
Analysis functions	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection	Motion detection, motion analysis, tampering protection, object counter with direction detection, loitering detection, intrusion, people detection
Backlight compensation	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC	BLC	BLC
Wide Dynamic Range (WDR)	D-WDR	DOL-WDR 120dB	WDR 120dB	D-WDR	WDR 120dB	WDR 120dB	WDR 120dB
Lens type	Varifocal (motorized)	Auto focus zoom	Auto focus zoom	C/CS mount	Auto focus zoom	Auto focus zoom	Auto focus zoom
Focal length	3,6 – 10mm	3,2 – 9mm	4,3 – 129mm	-	5 – 117mm	4,6 – 165,6mm	6 – 180mm
Horizontal angle of view	85° – 37°	102° – 8°	61,8° – 2,11°	-	56,6° – 3°	58,1° – 1,9°	55,4° – 2,7°
Vertical angle of view	63° – 28°	54° – 4°	36,4° – 1,29°	-	31,8° – 1,6°	43,5° -1,4°	31,1° – 1,5°
Audio support	G.711	G.711	G.711	G.711	G.711	G.711	G.711
Internal storage	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Temperature range (operation)	-50°C ~ +50°C	-10°C ~ +50°C	0°C ~ +50°C	-10°C ~ +50°C	-20°C ~ +50°C	-30° ~ +55°C	-30° ~ +55°C
Alarm inputs / outputs	1/1	1/1	1/1	1/1	4/1	4/1	4/1
Supply voltage	12VDC, 24VAC, PoE	12VDC, 24VAC, PoE	12VDC, PoE, 24VAC	24VAC, 12VDC, PoE	12VDC, 24VAC, HiPoE	HiPoE+, 12VDC	HiPoE+, 12VDC
Housing	Indoor / outdoor	Indoor	Indoor	Indoor	Outdoor / PTZ	Outdoor / PTZ	Outdoor / PTZ
Colour	Pantone Cool Gray 1C	Pantone Cool Gray 1C	White	Pantone Cool Gray 1C	White	White	White
Protection rating	IP67, IK10	-	-	-	IP66	IP66	IP66
Special features	STARVIS, IK10	DOL-WDR, STARVIS	30x zoom, 60fps, STARVIS	C/CS mount, STARVIS	H.265, Smart Codec, IR illumination, STARVIS	H.265, Smart Codec, zoom synchronized IR illumination, intelligent motion, advanced VCA features, STARVIS	H.265, Smart Codec, zoom synchronized IR illumination, intelligent motion, advanced VCA features, STARVIS, 4K

IP cameras



Product	NXP-880F26	ISM-53M2812W0A	ISM-52F0043MPA	ISM-52C0000M0A
Product number	212447	217636	216711	216712
System	True Day&Night	True Day&Night	Colour	True Day&Night
Sensor	1/2,8" CMOS, Sony Exmor	1/2,8" CMOS, Sony STARVIS, IMX124	1/2,8" CMOS, Sony Exmor	1/2,8" CMOS, Sony Exmor
Resolution max.	1920x1080	2048x1536	1920x1080	1920x1080
Video compression	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG
Image transmission rate max.	25fps	30fps	60fps	60fps
Sensitivity	0.1 Lux at F2.0, 50IRE	0.1 Lux at F1.4,50IRE	0.1 Lux at F2.0, 50IRE	0.1 Lux at F2.0, 50IRE
Illumination	-	-	-	-
Analysis functions	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection, defog
Backlight compensation	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC
Wide Dynamic Range (WDR)	D-WDR	D-WDR	WDR 120dB	WDR 120dB
Lens type	Fixed focal length	Varifocal (motorized)	Fixed focal length	Lens not included
Focal length	2,6mm	2,8 – 12mm	4,3mm	C/CS
Horizontal angle of view	110°	83° – 35°	75°	-
Vertical angle of view	60°	61° – 26°	40°	-
Audio support	G.711	G.711	G.711	G.711
Internal storage	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card	microSDHC card, microSDXC card
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Temperature range (operation)	-10°C ~ +50°C	0°C ~ +40°C	-10°C ~ +50°C	-10°C ~ +50°C
Alarm inputs / outputs	1/1	1/1	1/1	1/1
Supply voltage	12VDC, PoE	12VDC, PoE	12VDC, PoE	12VDC, PoE
Housing	Indoor / Flush	Indoor / Flush	Indoor / Flush	Indoor / Flush
Colour	-	-	Black	Black
Protection rating	-	-	-	-
Special features	Versatile, compact design	Versatile, compact design, STARVIS, motorized	Versatile, compact design, STARVIS, 60fps, pinhole	Versatile, compact design, 60fps, C/CS

Technology partnerships

Flexibly deployable video security products and strong technology partnerships for efficient video management are the prerequisites for systems which meet customer requirements in the best possible way. That's why eneo works alongside leading system solution providers and is constantly expanding its partner network.

For an overview of the current status of the integration of eneo IP products, please visit our website:



IP

MULTI-SIGNAL

THERMAL

NVR / DVR

SWITCHES

EN-/DECODERS



eneo COAXIZE

Versatile and economical: eneo multi-signal solutions

Modern HD analogue technology allows for latency-free transmission of high-resolution video images over the coax lines of existing CCTV systems. Due to the excellent, artefact-free image quality, HD analogue cameras are recommended for security applications in which real-time recordings in HD or Full HD are indispensable, as is the case with casinos or banks. However, HD analogue solutions are also of interest to operators who prefer a resource-saving modernisation of their video security system which is as economical as it is environmentally friendly. Specialist installers, on the other hand, appreciate the fact that no IT skills are required and that installation is a convenient plug-and-play process. And last but not least, analogue video security cameras have the great advantage that they cannot be compromised by hackers.

In addition to these advantages, eneo COAXIZE multi-signal products offer additional flexibility: with the analogue formats HD-TVI, CVI, AHD and CVBS, as well as the digital formats HD-SDI and EX-SDI, many cameras in this series support up to 6 different video signals. Of course, eneo COAXIZE multi-signal cameras are available in all common designs and for all applications, ranging from models for indoor use to very robust models which are designed for outdoor and industrial security environments.

Multi-signal cameras



Product	MEB-64V2812M0A	MEB-62V2812P0B	MPB-72M2812M0A	MPB-72M0550M0A	MCB-64A0003M0A	MCB-72M2712M0A	MEP-62M2812M0A	MED-54F0036MBA
Product number	218355	219548	217277	217718	218572	218307	217116	218356
System	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day & Night	True Day&Night
Sensor	1/2,7" CMOS, ST, SC5035	1/2,8" CMOS, Sony, IMX322	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,9" CMOS, Sony STARVIS, IMX326	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,9" CMOS, Sony, IMX322	1/2,7" CMOS, ST, SC5035
Resolution max.	2560x1440 720x576	1920x1080	1920x1080 1280x720 720x576	1920x1080 1280x720 720x576	2560x1440 1920x1080 1280x720	1920x1080 1280x720 720x576	1920x1080 960x576	2560x1440 720x576
Sensitivity	0.5 Lux at F1.6, 50IRE	0.3 Lux at F1.3, 40IRE	0.08 Lux at F1.4, 40IRE	0.08 Lux at F1.4, 40IRE	0.1 Lux at F1.6, 40IRE	0.08 Lux at F1.4, 40IRE	0.1 Lux at F1.4, 50 IRE	0.5 Lux at F2.0, 50IRE
Digital Noise Reduction (DNR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Backlight compensation	-	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	-
Wide Dynamic Range (WDR)	D-WDR	D-WDR	WDR 113dB	WDR 113dB	DOL-WDR 120dB, D-WDR, WDR 113dB	WDR 113dB	D-WDR	D-WDR
Signal format	HD-TVI @ 4MP AHD @ 4Mp	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP EX-SDI @ 2MP HD-SDI @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP EX-SDI @ 2MP HD-SDI @ 2MP	HD-TVI @ 4MP AHD @ 4Mp EX-SDI @ 4MP HD-SDI @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP EX-SDI @ 2MP HD-SDI @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP	HD-TVI @ 4MP AHD @ 4Mp
Frame rate	25/30fps @ 1440p	25/30fps @ 1080p	25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1440p 25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p	25/30fps @ 1440p
Lens type	Varifocal	Varifocal	Varifocal (motorized)	Varifocal (motorized)	Auto focus zoom	Varifocal (motorized)	Varifocal (motorized)	Fixed focal length
Focal length	2,8 - 12mm	2,8 - 12mm	2,8 - 12mm	5 - 50mm	3,2 - 9mm	2,7 - 12mm	2,8 - 12mm	3,6mm
Horizontal angle of view	94° - 53°	98° - 31°	100° - 38°	45° - 7°	78° - 6°	99° - 35°	91° - 29°	76°
Vertical angle of view	26,5° - 13°	53° - 17°	53° - 19°	25° - 4°	42° - 3°	55° - 20°	49° - 16°	41°
Temperature range (operation)	-20°C ~ +50°C	-20°C ~ +50°C	-30°C ~ +50°C	-30°C ~ +50°C	-20°C ~ +50°C	-30°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C
Illumination	Infrared, approx. 20m	Infrared, approx. 30m	Infrared, approx. 60m	Infrared, approx. 60m	Infrared, approx. 40m	Infrared, approx. 60m	Infrared, approx. 25 m	Infrared, approx. 20m
Serial interfaces	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)
Alarm inputs / outputs	-	-	-	-	-	-	-	-
Supply voltage	12VDC	12VDC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC	12VDC
Colour (Housing)	White	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C	White	White
Housing	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor
Protection rating	IP65	IP66	IP67	IP67	IP67	IP67	IP66	IP65
Special features	4MP	-	STARVIS	STARVIS	STARVIS, DOL-WDR, integrated junction box, 4MP	STARVIS, integrated junction box	Easy installation with motorized PTZ	4MP

IP

MULTI-SIGNAL

THERMAL

NVR / DVR

SWITCHES

EN-/DECODERS

Multi-signal cameras



Produkt	MED-64V2812MBA	MPD-62V2812P0B	MPD-62M2812P0A	MPD-64A0003P0A	MPD-72M2812M0A	MPD-74A0003M0A	MPC-52A0030P0A	MPC-52C0000M0A
Product Number	218357	219546	217279	218771	217278	218772	218072	217280
System	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night	True Day&Night
Sensor	1/2,7" CMOS, ST, SC5035	1/2,8" CMOS, Sony, IMX322	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,9" CMOS, Sony STARVIS, IMX326	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,9" CMOS, Sony STARVIS, IMX326	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,8" CMOS, Sony STARVIS, IMX291
Resolution max.	2560x1440 720x576	1920x1080	1920x1080 1280x720 720x576	2560x1440 1920x1080 1280x720	1920x1080 1280x720 720x576	2560x1440 1920x1080 1280x720	1920x1080 1280x720 720x576	1920x1080 1280x720 720x576
Sensitivity	0.5 Lux at F1.6, 50IRE	0.3 Lux at F1.3, 40IRE	0.08 Lux at F1.4, 40IRE	0.1 Lux at F1.6, 40IRE	0.08 Lux at F1.4, 40IRE	0.1 Lux at F1.6, 40IRE	0.35 Lux at F1.6, 50IRE	0.08 Lux at F1.4, 40IRE
Digital Noise Reduction (DNR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Backlight compensation	–	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC
Wide Dynamic Range (WDR)	D-WDR	D-WDR	WDR 113dB	DOL-WDR 120dB, D-WDR, WDR 113dB	WDR 113dB	DOL-WDR 120dB, D-WDR, WDR 113dB	WDR 120dB	WDR 113dB
Signal format	HD-TVI @ 4MP AHD @ 4Mp	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP EX-SDI @ 2MP HD-SDI @ 2MP	HD-TVI @ 4MP AHD @ 4Mp EX-SDI @ 4MP HD-SDI @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP EX-SDI @ 2MP HD-SDI @ 2MP	HD-TVI @ 4MP AHD @ 4Mp EX-SDI @ 4MP HD-SDI @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP EX-SDI @ 2MP HD-SDI @ 2MP
Frame rate	25/30fps @ 1440p	25/30fps @ 1080p	25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1440p 25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1440p 25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p	25/30fps @ 1080p 50/60fps @ 720p
Lens type	Varifocal	Varifocal	Varifocal (motorized)	Auto focus zoom	Varifocal (motorized)	Auto focus zoom	Auto focus zoom	C/CS Mount
Focal length	2,8 – 12mm	2,8 – 12mm	2,8 – 12mm	3,2 – 9mm	2,8 – 12mm	3,2 – 9mm	30x	–
Horizontal angle of view	94° – 53°	98° – 31°	100° – 38°	78° – 6°	100° – 38°	78° – 6°	4,3 – 129mm	–
Vertical angle of view	26,5° – 13°	53° – 17°	53° – 19°	42° – 3°	53° – 19°	42° – 3°	61,8° – 2,11°	–
Temperature range (operation)	-20°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-30°C ~ +50°C	-20°C ~ +50°C	36,4° – 1,29°	–
Illumination	Infrared, approx. 20m	Infrared, approx. 30 m	Infrared, approx. 30 m	Infrared, approx. 30 m	Infrared, approx. 50 m	Infrared, ca. 40 m	0°C ~ +50°C	-10°C ~ +50°C
Serial interfaces	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI)	Pelco C (UTC / HD-TVI), RS-422, RS-485	Pelco C (UTC / HD-TVI)
Alarm inputs / outputs	–	–	–	–	–	–	1/1	–
Supply voltage	12VDC	12VDC	12VDC	12VDC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC
Colour (Housing)	White	White	White	White	Pantone Cool Gray 1C	Pantone Cool Gray 1C	White	Pantone Cool Gray 1C
Housing	Indoor / outdoor	Indoor	Indoor	Indoor	Indoor / outdoor	Indoor / outdoor	Indoor	Indoor
Protection rating	IP65	–	–	–	IP67 / IK10	IP67 / IK10	–	–
Special features	4MP	–	STARVIS	STARVIS, DOL-WDR, 4MP	STARVIS, IK10	STARVIS, IK10, DOL-WDR, 4MP	STARVIS, auto focus zoom	STARVIS, C/CS

Multi-signal cameras



Product	MPC-54A0003M0A	TPP-72A0030P0A	MPP-72A0020MIA	TPP-82A0030MIA	TEM-42F0025M0A	MEM-42F0036MPA	MSM-42F0037MPA	MSM-42F0028M0A
Product number	218643	213271	219809	213857	215596	215597	217646	217647
System	True Day&Night	True Day & Night	True Day&Night	True Day&Night	Electronic Day&Night	Electronic Day&Night	Colour	Colour
Sensor	1/2,9" CMOS, Sony STARVIS, IMX326	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,8" CMOS, Sony Exmor	1/2,8" CMOS, Sony Exmor	1/2,8" CMOS, Sony STARVIS, IMX291	1/2,8" CMOS, Sony STARVIS, IMX291
Resolution max.	2560x1440 1920x1080 1280x720	1920x1080 1280x720 960x576	1920x1080 1280x720 960x576	1920x1080 1280x720 960x576	1920x1080	1920x1080	1920x1080 1280x720 720x576	1920x1080 1280x720 720x576
Sensitivity	0.1 Lux at F1.6, 40IRE	0.35 Lux at F1.6, 50IRE	0,35 Lux bei F1,6, 50IRE	0.35 Lux at F1.6, 50IRE	0.01 Lux at F1.2, 50IRE	0.01 at F1.2, 50IRE	0.08 Lux at F1.4, 40IRE	0.08 Lux at F1.4, 40IRE
Digital Noise Reduction (DNR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Backlight compensation	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HLC	BLC, HS BLC (Eclipser)	BLC, HLC	BLC, HLC
Wide Dynamic Range (WDR)	DOL-WDR 120dB, D-WDR, WDR 113dB	WDR 120dB	WDR 120dB	WDR 120dB	WDR 99dB	D-WDR	WDR 113dB	WDR 113dB
Signal format	HD-TVI @ 4MP AHD @ 4Mp EX-SDI @ 4MP HD-SDI @ 2MP	Composite (CVBS) HD-TVI @2MP AHD @2MP	Composite (CVBS) HD-TVI @2MP AHD @2MP	Composite (CVBS) HD-TVI @2MP AHD @2MP	Composite (CVBS), HD-TVI	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP EX-SDI @ 2MP HD-SDI @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP CVI @ 2MP EX-SDI @ 2MP HD-SDI @ 2MP
Frame rate	25/30fps @ 1440p 25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p	25/30fps @ 1440p	25/30fps @ 1080p	25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p 50/60fps @ 720p	25/30fps @ 1080p 50/60fps @ 720p
Lens type	Auto focus zoom	Auto focus zoom	Auto focus zoom	Auto focus zoom	Fixed focal length	Fixed focal length	Fixed focal length	Fixed focal length
Focal length	3,2–9mm	4,3 – 129mm	4,7 – 94mm	4,3 – 129mm	2,5mm	3,6mm	3,7mm	2,8mm
Horizontal angle of view	78° – 6°	61,8° – 2,11°	55,5° – 3°	61,8° – 2,11°	136,5°	92,6°	82°	112°
Vertical angle of view	42° – 3°	36,4° – 1,29°	34° – 1,7°	36,4° – 1,29°	73,2°	54,6°	42°	59°
Temperature range (operation)	-10°C ~ +50°C	0°C ~ +50°C	-20°C ~ +50°C	-30°C ~ 65°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
Illumination	–	–	Infrared, ca. 60m	Infrared, approx. 300m	–	–	–	–
Serial interface	Pelco C (UTC / HD-TVI)	RS-485, Pelco C (UTC / HD-TVI)	RS-485, Pelco C (UTC / HD-TVI)	RS-485, Pelco C (UTC / HD-TVI)	Pelco-C (Coaxitron)	Pelco-C (Coaxitron)	Pelco-C (Coaxitron)	Pelco-C (Coaxitron)
Alarm Inputs/Outputs	–	4/2	4/2	4/2	–	–	–	–
Supply Voltage	12VDC, 24VAC	12VDC, 24VAC	12VDC	24VAC, 24VDC	12VDC	12VDC	12VDC	12VDC
Colour (Housing)	Pantone Cool Gray 1C	Black	White	Pantone Cool Gray 1C	Black	Black	Black	Black
Housing	Indoor	Indoor	Outdoor	Outdoor	Indoor / Flush	Outdoor / Indoor / Flush	Indoor / Flush	Indoor / Flush
Protection Rating	–	–	IP66	IP66	–	IP66	–	–
Special features	STARVIS, 3x zoom	STARVIS	IR illumination, STARVIS	Zoom synchronized & fixed IR LEDs, STARVIS	Versatile, compact design	Versatile, compact design	Versatile, compact design, STARVIS	Versatile, compact design, STARVIS

IP

MULTI-SIGNAL

THERMAL

NVR / DVR

SWITCHES

EN-/DECODERS

Thermal cameras



Product	ITB-7SF0075M0A	ITB-7SF0013M0A	ITB-7SF0019M0A	ITB-7SF0035M0A
Product number	219420	219421	219422	219423
Resolution (module)	336x256	336x256	336x256	336x256
Video compression	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG	H.264, M-JPEG
Image transmission rate max.	25fps	25fps	25fps	25fps
Spectral area	7,5 – 13,5 µm	7,5 – 13,5 µm	7,5 – 13,5 µm	7,5 – 13,5 µm
Pixel pitch	17 µm	17 µm	17 µm	17 µm
Vertical angle of view	35°	19°	13°	7,1°
Horizontal angle of view	45°	25°	17°	9,3°
Geometrical Resolution (IFOV)	2267 mrad	1308 mrad	895 mrad	488 mrad
Thermal sensitivity at 25°C	50 mk	50 mk	50 mk	50 mk
Lens type	Fixed focal length	Fixed focal length	Fixed focal length	Fixed focal length
Analysis functions	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection	Motion detection, tampering protection, trip wire detection with counting and direction detection, field detection
Focal length	7,5mm	13mm	19mm	35mm
Detection Range	235m man, 730m vehicle	440m man, 1340m vehicle	640m man, 1950m vehicle	1280m man, 3850m vehicle
Video outputs	Composite (CVBS)	Composite (CVBS)	Composite (CVBS)	Composite (CVBS)
Serial interfaces	USB, Ethernet	USB, Ethernet	USB, Ethernet	USB, Ethernet
Alarm inputs / outputs	1/1	1/1	1/1	1/1
Audio support	Yes	Yes	Yes	Yes
Housing	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor
Colour	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C
Supply voltage	12VDC, 24VAC, PoE (IEEE-802.3af)	12VDC, 24VAC, PoE (IEEE-802.3af)	12VDC, 24VAC, PoE (IEEE-802.3af)	12VDC, 24VAC, PoE (IEEE-802.3af)
Temperature range (operation)	-35°C ~ +50°C	-35°C ~ +50°C	-35°C ~ +50°C	-35°C ~ +50°C
Protection rating	IP67	IP67	IP67	IP67
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Special features	Temperature measurement with alarm functions, HTML5	Temperature measurement with alarm functions, HTML5	Temperature measurement with alarm functions, HTML5	Temperature measurement with alarm functions, HTML5

Perimeter protection: effective and efficient

eneo thermal cameras cater for security on a wide scale

Thermal cameras from the eneo Candid series enable comprehensive situation awareness at distances of up to 3,850 m. At any time of the day. Whatever the season. And under the most difficult lighting conditions. With full eneo Easy Installation comfort and years of maintenance-free operation.



VM-19PD
LCD Monitor
3D-comb filter, anti burn-in technology,
integrated loudspeakers

Recording solutions for network-based and multi-signal video security solutions

High performance and scalable: the eneo IER series

The eneo IER series impresses with its price and performance. The 4-, 8-, 16- and 32-channel network recorders record at maximum resolutions of 8 MP at a full frame rate. All recorders support the iSCSI protocol in addition to H.264/H.265 video compression. This allows for the integration of and direct recording upon additional network storage devices. Thus, the storage capacity can be expanded up to 96TB – this corresponds to the data volume of 32 IP cameras which transmit Full HD streams in real time for 54 days.



Virtual Matrix IEM-38R640005A

Video management system in hardware format: virtual matrix IEM-38R640005A

With the eneo virtual matrix, IP recorders can be integrated into a network, and up to 64 video sources can be managed via a single common interface. The virtual matrix remote access function allows users to configure and to control the built-in network recorders and to access the embedded cameras. Likewise, redundant recording is possible on all 64 channels. The compact box is suited for desktop use or for rack-mount (19") and has an HDMI output for monitors with 4K resolution and a VGA output for Full HD resolution.

Digital video recorders for multi-signal and hybrid systems

The eneo DVR portfolio features MER and MSR recorders which enable the combination of IP and analogue cameras in hybrid systems. The MER series recorders also support the HD-SDI and EX-SDI signal formats.



Product	IER-28R040005A	IER-28R080005A	IER-28R160005A	IER-38R160005A	IER-38R320005A	IEM-38R640005A
Product number	220198	220199	220200	217348	217349	217651
IP channels	4	8	16	16	32	0
Compression standard	H.264, H.265	H.264, H.265	H.264, H.265	H.264, H.265	H.264, H.265	H.264, H.265
Max. recording resolution	3840x2160	3840x2160	3840x2160	3840x2160	3840x2160	3840x2160
Max. recording rate	120fps @ 3840x2160	240fps @ 3840x2160	480fps @ 3840x2160	480fps @ 3840x2160	960fps @ 3840x2160	960fps @ 3840x2160
Data transfer rate maximum	104 Mbps	208 Mbps	416 Mbps	736 Mbps	896 Mbps	1216 Mbps
Data transfer rate incoming	32 Mbps	64 Mbps	128 Mbps	160 Mbps	320 Mbps	640 Mbps
Data transfer outgoing	72 Mbps	144 Mbps	288 Mbps	576 Mbps	576 Mbps	576 Mbps
Hard disk capacity (internal / max. internal / external)	0/16/96 TB	0/16/96 TB	0/16/96 TB	0/32/96 TB	0/32/96 TB	0/32/96 TB
Live view	3840x2160 1920x1080 1280x720 1024x768 max. 120fps	3840x2160 1920x1080 1280x720 1024x768 max. 240fps	3840x2160 1920x1080 1280x720 1024x768 max. 480fps	3840x2160 1280x720 1920x1080 1024x768 max. 480fps	3840x2160 1280x720 1920x1080 1024x768 max. 960fps	3840x2160 1280x720 1920x1080 1024x768 max. 960fps
Monitor outputs	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI
Interfaces external storage	eSATA, iSCSI	eSATA, iSCSI	eSATA, iSCSI	eSATA, iSCSI	eSATA, iSCSI	–
Alarm inputs / outputs	4/1	8/1	16/1	16/1	16/1	4/2
Export of images or clips	USB port, via client software, clip player, AVI, H4V, MP4 via eneo Center	USB port, via client software, clip player, AVI, H4V, MP4 via eneo Center	USB port, via client software, clip player, AVI, H4V, MP4 via eneo Center	USB port, via client software, clip player, AVI, H4V, MP4 via eneo Center	USB port, via client software, clip player, AVI, H4V, MP4 via eneo Center	USB port, via client software, clip player, AVI, H4V, MP4 via eneo Center
USB ports	2x USB 2.0, 1x USB 3.0	2x USB 2.0, 1x USB 3.0	2x USB 2.0, 1x USB 3.0	2x USB 2.0, 1x USB 3.0	2x USB 2.0, 1x USB 3.0	2x USB 2.0, 1x USB 3.0
Network protocols	TCP/IP, DHCP, Zeroconf, IPv4, IPv6, HTTP, UPnP, ARP, SMTP, RTSP, RTP, FTP, NTP	TCP/IP, DHCP, Zeroconf, IPv4, IPv6, HTTP, UPnP, ARP, SMTP, RTSP, RTP, FTP, NTP	TCP/IP, DHCP, Zeroconf, IPv4, IPv6, HTTP, UPnP, ARP, SMTP, RTSP, RTP, FTP, NTP	TCP/IP, DHCP, Zeroconf, IPv4, IPv6, HTTP, UPnP, ARP, SMTP, RTSP, RTP, FTP, NTP	TCP/IP, DHCP, Zeroconf, IPv4, IPv6, HTTP, UPnP, ARP, SMTP, RTSP, RTP, FTP, NTP	TCP/IP, DHCP, Zeroconf, IPv4, IPv6, HTTP, UPnP, ARP, SMTP, RTSP, RTP, FTP, NTP
Network	1x 10/100/1000 Base-T RJ45	1x 10/100/1000 Base-T RJ45	1x 10/100/1000 Base-T RJ45	1x 10/100/1000 Base-T RJ45	1x 10/100/1000 Base-T RJ45	2x 10/100/1000Base-TX RJ45
PoE budget (total)	38W	73W	130W	130W	130W	–
Alarm notification	E-mail notification, alarm output, remote software, Live popup, buzzer, mobile push	E-mail notification, alarm output, remote software, Live Popup, buzzer, mobile push	E-mail notification, alarm output, remote software, Live Popup, buzzer, mobile push	E-mail notification, alarm output, remote software, Live Popup, buzzer, mobile push	E-mail notification, alarm output, remote software, Live Popup, buzzer, mobile push	E-mail notification, alarm output, remote software, Live Popup, buzzer
Remote configuration	eneo Center (Windows, MAC), eneo Center mobile (iOS, Android), web browser (Java)	eneo Center (Windows, MAC), eneo Center mobile (iOS, Android), web browser (Java)	eneo Center (Windows, MAC), eneo Center mobile (iOS, Android), web browser (Java)	eneo Center (Windows, MAC), eneo Center mobile (iOS, Android), web browser (Java)	eneo Center (Windows, MAC), eneo Center mobile (iOS, Android), web browser (Java)	eneo Center (Windows, MAC), eneo Center mobile (iOS, Android), web browser (Java)
Supply voltage	48VDC (Power supply 100-240VAC included)	48VDC (Power supply 100-240VAC included)	100~240VAC	100~240VAC	100~240VAC	100~240VAC
Special features	Remote access, IEM compatible, four-eyes principle	Remote access, IEM compatible, four-eyes principle	Remote access, IEM compatible, four-eyes principle	Remote access, dewarping for ISD 360° series, 4K HDMI, four-eyes principle	Remote access, dewarping for ISD 360° series, 4K HDMI, four-eyes principle	4K HDMI, four-eyes principle



Product	MSR-24N040004A	MSR-24N080004A	MER-24R040200A	MER-24R080200A	MER-34R160300A	MPR-22R040200A	MPR-32R080200A	MPR-32R160200A
Product number	218168	218169	218311	218312	218313	216284	216286	216287
Video inputs	4	8	4	8	16	4	8	16
IP channels	2	2	4	8	8	-	-	-
Signal format	Composite (CVBS) HD-TVI @ 4MP AHD @ 4MP IP @ 3MP	Composite (CVBS) HD-TVI @ 4MP AHD @ 4MP IP @ 3MP	Composite (CVBS) HD-TVI @ 4MP AHD @ 4MP CVI @ 4MP EX-SDI @ 4MP HD-SDI @ 2MP IP @ 5MP	Composite (CVBS) HD-TVI @ 4MP AHD @ 4MP CVI @ 4MP EX-SDI @ 4MP HD-SDI @ 2MP IP @ 5MP	Composite (CVBS) HD-TVI @ 4MP AHD @ 4MP CVI @ 4MP EX-SDI @ 4MP HD-SDI @ 2MP IP @ 5MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP
Max. recording resolution	2560x1440	2560x1440	2560x1440	2560x1440	2560x1440	1920x1080	1920x1080	1920x1080
Max. recording rate	100fps @ 1920x1080	200fps @ 1920x1080	100fps @ 1920x1080	200fps @ 1920x1080	400fps @ 1920x1080	100fps @ 1920x1080	200fps @ 1920x1080	400fps @ 1920x1080
Recording rate	50 fps @ 2560x1440 100 fps @ 1920x1080 100 fps @ 1280x720 100 fps @ 960 x 540 100 fps @ 704 x 576	100 fps @ 2560x1440 200 fps @ 1920x1080 200 fps @ 1280 x 720 200 fps @ 960 x 540 200 fps @ 704 x 576	50 fps @ 2560x1440 100 fps @ 1920x1080 100 fps @ 1280x720 100 fps @ 960 x 540 100 fps @ 704 x 576	100 fps @ 2560x1440 200 fps @ 1920x1080 200 fps @ 1280 x 720 200 fps @ 960 x 540 200 fps @ 704 x 576	200 fps @ 2560x1440 400fps @ 1920x1080 400 fps @ 1280 x 720 400 fps @ 960 x 540 400 fps @ 704 x 576	100 fps @ 1920x1080 100 fps @ 1280x720 100 fps @ 960x480 100 fps @ 720x480 100 fps @ 480x240	200 fps @ 1920x1080 200 fps @ 1280 x 720 200 fps @ 960x480 200 fps @ 720x480 200 fps @ 480x288	400fps @ 1920x1080 400 fps @ 1280 x 720 400 fps @ 960x480 400 fps @ 720x480 400 fps @ 480x288
Hard disk capacity (internal / max. internal / external)	0/16/96 TB	0/16/96 TB	2/16/64 TB	2/16/64 TB	3/64/64 TB	2/12 TB	2/24 TB	2/24 TB
Compression standard	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
Interfaces external storage	USB, eSATA, iSCSI	USB, eSATA, iSCSI	USB, eSATA	USB, eSATA	USB, eSATA	USB	USB, eSATA	USB, eSATA
Main video outputs	HDMI (4K), VGA	HDMI (4K), VGA	HDMI (4K), VGA	HDMI (4K), VGA	HDMI (4K), VGA	HDMI, VGA	HDMI (4K), VGA	HDMI (4K), VGA
Spot monitor	Composite (CVBS)	Composite (CVBS)	HDMI, VGA, composite (CVBS)	HDMI, VGA, composite (CVBS)	HDMI, VGA, composite (CVBS)	no	Composite (CVBS)	Composite (CVBS)
Recording	Permanent, timer, movement, contact, panic, PoS-Text, event	Permanent, timer, movement, contact, panic, PoS-Text, event	Permanent, timer, movement, contact, panic, PoS-Text, event	Permanent, timer, movement, contact, panic, PoS-Text, event	Permanent, timer, movement, contact, panic, PoS-Text, event	Permanent, timer, movement, contact, panic, PoS-Text, event	Permanent, timer, movement, contact, panic, PoS-Text, event	Permanent, timer, movement, contact, panic, PoS-Text, event
Alarm inputs / outputs	4/1	4/1	4/1	4/2	16/2	4/1	8/4	16/4
Alarm notification	E-mail notification, alarm output, remote software, live popup, buzzer, mobile push	E-mail notification, alarm output, remote software, live popup, buzzer, mobile push	E-mail notification, alarm output, remote software, live popup, spot popup, buzzer, PTZ preset	E-mail notification, alarm output, remote software, live popup, spot popup, buzzer, PTZ preset	E-mail notification, alarm output, remote software, live popup, spot popup, buzzer, PTZ preset	E-mail notification, alarm output, remote software, FTP, live popup, spot popup, buzzer, PTZ preset, SNS (Twitter)	E-mail notification, alarm output, remote software, FTP, live popup, spot popup, buzzer, PTZ preset, SNS (Twitter)	E-mail notification, alarm output, remote software, FTP, live popup, spot popup, buzzer, PTZ preset, SNS (Twitter)
Serial interfaces	RS-485	RS-485	RS-485	RS-485	RS-232, RS-485	RS-232, RS-485	RS-232, RS-485	RS-232, RS-485
Remote configuration	E-mail notification, alarm output, remote software, live popup, buzzer, mobile push	E-mail notification, alarm output, remote software, live popup, buzzer, mobile push	HDR_MER_CMS Windows, Mr.Patrol-mobile (iOS, Android) Microsoft Internet Explorer, Mozilla Firefox (Livebild), Safari (Livebild)	HDR_MER_CMS Windows, Mr.Patrol-mobile (iOS, Android) Microsoft Internet Explorer, Mozilla Firefox (Livebild), Safari (Livebild)	HDR_MER_CMS Windows, Mr.Patrol-mobile (iOS, Android) Microsoft Internet Explorer, Mozilla Firefox (Livebild), Safari (Livebild)	iRAS Windows, RAS MOBILE (iOS, Android) Microsoft Internet Explorer	iRAS Windows, RAS MOBILE (iOS, Android) Microsoft Internet Explorer	iRAS Windows, RAS MOBILE (iOS, Android) Microsoft Internet Explorer
Supply voltage	12VDC (Power supply 100-240VAC included)	12VDC (Power supply 100-240VAC included)	12VDC (Power supply 100-240VAC included)	12VDC (Power supply 100-240VAC included)	100~240VAC	12VDC (Power supply 100-240VAC included)	100~240VAC	100~240VAC
Special features	iSCSI, channels can be assigned with IP and/or various HD and SD signal formats, intelligent recording rate control, Remote access	iSCSI, channels can be assigned with IP and/or various HD and SD signal formats, intelligent recording rate control, Remote access	Channels can be assigned with IP and/or various HD and SD signal formats, intelligent recording rate control, 4K HDMI	Channels can be assigned with IP and/or various HD and SD signal formats, intelligent recording rate control, 4K HDMI	Channels can be assigned with IP and/or various HD and SD signal formats, intelligent recording rate control, 4K HDMI	-	-	-

IP

MULTI-SIGNAL

THERMAL

NVR / DVR

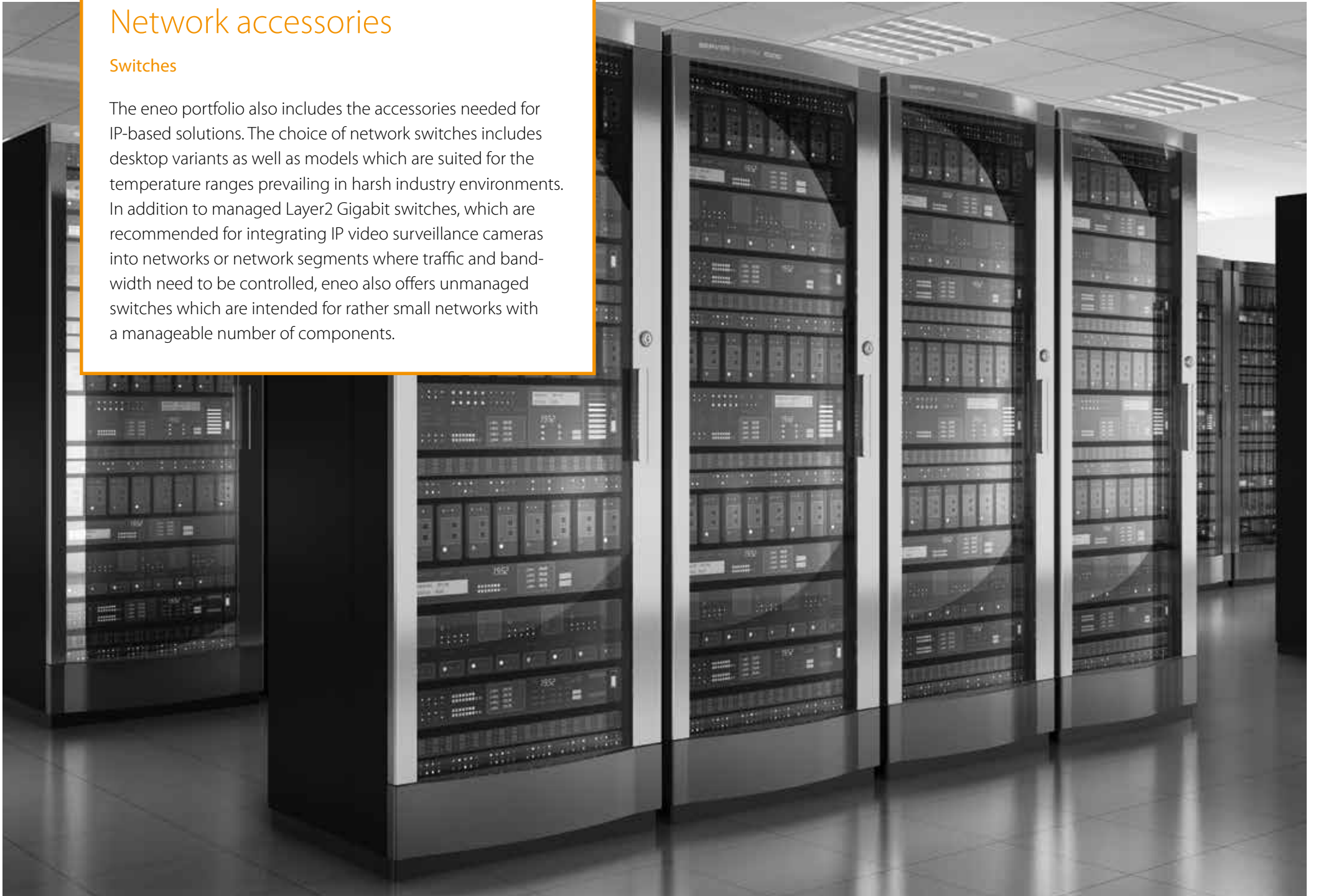
SWITCHES

EN-/DECODERS

Network accessories

Switches

The eneo portfolio also includes the accessories needed for IP-based solutions. The choice of network switches includes desktop variants as well as models which are suited for the temperature ranges prevailing in harsh industry environments. In addition to managed Layer2 Gigabit switches, which are recommended for integrating IP video surveillance cameras into networks or network segments where traffic and bandwidth need to be controlled, eneo also offers unmanaged switches which are intended for rather small networks with a manageable number of components.



Switches



Product	IAM-5SE1004MUB	IAM-5SE1004MUC	IAM-5SG1004MMA	IAM-5SE1008MUA	IAM-5SG1008MMA	IAR-7SH1024MMF	IAR-7SG1008MMA	IAR-7SG1016MMA
Product number	219379	220212	219526	214459	216129	220211	216473	216474
Device Type	Layer2Switch	Layer2Switch	Layer2Switch	Layer2Switch	Layer2Switch	Layer2Switch	Layer2Switch	Layer2Switch
Management	-	-	Yes	-	Yes	Yes	Yes	Yes
Ports	4x10/100 Base-TX 1x100 SFP 1x10/100 Base-TX	4x 10/100/1000Base-T, 2x 10/100/1000T SFP, 2x 10/100/1000Base-TX	4x10/100/1000 Base-T 2x1000 Base-X SFP	8x10/100 Base-TX 1x10/100/1000T SFP 1x10/100/1000 Base-TX	8x10/100/1000 Base-T 4x100/1000 Base-X SFP	24 10/100/1000Base-T 4x1000/10Gbit SFP	8x10/100/1000 Base-T 2x1000 Base-T SFP 2x10/100/1000 Base-TX	16x10/100/1000 Base-T 4x1000Mbps SFP
Number PoE ports	4	4	4	8	8	24	8	16
PoE budget (total)	120W	120W	120W	120W	240W	350W	135W	270W
VLAN	Yes	-	Yes	Yes	Yes	-	Yes	Yes
Internal switching capacity	0,9 Mpps / 1,5 Gbps	10,4 Mpps / 14 Gbps	8,9 Mpps / 24 Gbps	4,2 Mpps / 5,6 Gbps	17,9 Mpps / 24 Gbps	41,7 Mpps / 56Gbps	17,9 Mpps / 24 Gbps	41,7 Mpps / 56 Gbps
Multicast compliant	-	-	Yes	-	Yes	Yes	Yes	Yes
SNMP	-	-	Yes	-	Yes	Yes	Yes	Yes
Portmirror	-	-	Yes	-	Yes	-	Yes	Yes
Supported standards	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.3at (PoE+) IEEE802.3af (PoE)	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.ab 1000BaseT IEEE 802.3z 1000BaseSX/LX, IEEE 802.3at, IEEE 802.3af	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEEE802.1 IEEE802.1D IEEE802.1p IEEE802.1X IEC61000-4-2 IEC61000-4-5	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3z1000 BaseSX/LX IEEE802.3at (PoE+) IEEE802.3af (PoE)	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEEE802.1 IEEE802.1D IEEE802.1p IEEE802.1X IEC61000-4-2 IEC61000-4-5	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE 802.1Q IEEE 802.1p IEEE 802.3ad IEEE 802.1D IEEE 802.1X	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEEE802.1 IEEE802.1D IEEE802.1p IEEE802.1X IEC61000-4-2 IEC61000-4-5	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3ad IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEEE802.1D IEEE802.1 IEEE802.1p IEEE802.1X IEC61000-4-2 IEC61000-4-5
Supply voltage	48-57VDC	48-57VDC	48-57VDC	48-57VDC	48-57VDC	100~240VAC	100~240VAC	100~240VAC
Fan	-	-	-	-	-	-	Yes	Yes
Mounting	DIN rail, wall mount	DIN rail, wall mount	DIN rail, wall mount	DIN rail, wall mount	DIN rail, wall mount	19" rack	19" rack	19" rack
Temperature range (operation)	-40°C~+75°C	-40°C~+75°C	-40°C~+75°C	-40°C~+75°C	-40°C~+75°C	-10°C~+50°C	-10°C~+45°C	-10°C~+50°C
Special features	CCTV mode Redundant power supply	Redundant power supply	Fast Ring CCTV mode Console port OOB port	CCTV mode Redundant power supply	Fast Ring Redundant power supply Error relay out	Fast Ring Fanless	CCTV mode Console port PoE budget indication OOB port	Fast Ring

IP

MULTI-SIGNAL

THERMAL

NVR / DVR

SWITCHES

EN-/DECODERS

Switches



Product	IAR-7SG1024MMA	IAR-7SE1024MMA	IAR-7SM1024MMA	IAR-7SH1024MMA	IAD-5SG1004MUA	IAD-5SG1008MUA
Product number	216682	214460	218190	218734	216469	216472
Device type	Layer2Switch	Layer2Switch	Layer2Switch	Layer3Switch	Layer2Switch	Layer2Switch
Management	Yes	Yes	Yes	Yes	-	-
Ports	24x10/100/1000 Base-T 4x1000Mbps SFP	24x10/100 Base-TX 2x10/100/1000T SFP 2x10/100/1000 Base-TX	24xRJ45Gigabit (optional) 24x SFPGigabit (optional) 2x10/100/1000 Base-T 2x1000Mbps SFP	24x10/100/1000 Base-T 4x1000/10GBit SFP	4x10/100/1000 Base-T 2x10/100/1000 Base-TX	8x10/100/1000 Base-T 1x1000 Base-X SFP 1x10/100/1000 Base-TX
Number PoE ports	24	24	-	24	4	8
PoE budget (total)	390W	390W	-	390W	60W	120W
VLAN	Yes	Yes	Yes	Yes	-	-
Internal switching capacity	41,7 Mpps / 56 Gbps	9,5 Mpps / 12,8 Gbps	42 Mpps / 56 Gbps	96 Mpps	8,9 Mpps / 12 Gbps	14,9 Mpps / 20 Gbps
Multicast compliant	Yes	Yes	Yes	Yes	-	-
SNMP	Yes	Yes	Yes	Yes	-	-
Portmirror	Yes	Yes	Yes	Yes	-	-
Supported standards	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3ad IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEEE802.1 IEEE802.1D IEEE802.1p IEEE802.1X IEEEE802.1X IEC61000-4-2 IEC61000-4-5	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEEE802.1 IEEE802.1D IEEE802.1p IEEEE802.1X IEC61000-4-2 IEC61000-4-5	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE802.1 IEEE802.1p IEEE802.3ad IEEE802.1D IEEEE802.1X	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3ad IEEE802.3z1000 BaseSX /LX IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEEE802.1 IEEE802.1D IEEE802.1p IEEEE802.1X IEC61000-4-2 IEC61000-4-5 IEEE 802.1Q IEEE 802.3ae 10G BaseX	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEC61000-4-2 IEC61000-4-5	IEEE802.310 BaseT IEEE802.3u100 BaseTX IEEE802.ab1000 BaseT IEEE802.3z1000 BaseSX/LX IEEE802.3X IEEE802.3at (PoE+) IEEE802.3af (PoE) IEC61000-4-2 IEC61000-4-5
Supply voltage	100~240VAC	100~240VAC	100~240VAC	100~240VAC	48-57VDC PoE+	100~240VAC
Fan	Yes	Yes	-	Yes	-	-
Mounting	19" rack	19" rack	19" rack	19" rack	Desktop	Desktop
Temperature range (operation)	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C	-10°C~+45°C	-10°C~+45°C
Special features	Fast Ring	-	Redundant power supply Modular switch	Fast Ring 10 Gigabit uplink ports: 4x SFP Console port OOB port Layer 3	CCTV mode	CCTV mode PD device

Network accessories

Encoders / decoders

Encoders digitalise and compress the video signals of analogue cameras and, in addition to hybrid recorders, provide another option for combining analogue or multi-signal cameras with IP cameras and network recorders in one single system. Decoders receive the compressed streams and display them on the monitor after decompression and digital-to-analogue conversion.

Encoders / decoders



Product	MAM-5ME1001MTA	MAM-6ME1012MTA	IAD-5DE1004MRA
Product number	217344	219643	220197
Video inputs	1	12	-
Signal format	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP	Composite (CVBS) HD-TVI @ 2MP AHD @ 2MP	H.264, H.265
Video outputs	-	HDMI, VGA, composite (CVBS)	HDMI, Composite (CVBS)
Data transfer outgoing	-	288 Mbps	600 Mbps
Live View	1920x1080 1280x720 1024x768 max. 30fps	1920x1080 1280x720 1024x768 max. 360fps	3840x2160 1920x1080 max.150fps
Resolution max.	1920x1080	1920x1080 1280x720 1024x768 max. 360fps	3840x2160
Compression standard	H.264, M-JPEG	H.264, M-JPEG	H.264, H.265
Alarm inputs / outputs	-	12/1	0/1
Audio support	-	G.711	G.711
Analysis functions	Motion Detection	-	-
Internal storage	-	-	microSDHC card, microSDXC card
Serial interfaces	RS-485	RS-485	RS-485
Power over Ethernet	-	-	-
Supply voltage	12VDC	12VDC	12VDC
Serial interfaces protocols	Pelco C (UTC / HD-TVI), Pelco D, Pelco P, FastraxIII E	Pelco C (UTC / HD-TVI), Pelco D, Pelco P, FastraxIII E	Pelco D, Pelco P, FastraxIII E
19" Rack mountable	-	Yes	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Special features	1-channel HD analogue to IP encoder	12-channel HD analogue to IP encoder	1-channel IP decoder

IP

MULTI-SIGNAL

THERMAL

NVR / DVR

SWITCHES

EN-/DECODERS

Video management

eneo Center mobile

With eneo Center mobile, authorised users have remote access to eneo video security systems anytime, anywhere. As with the eneo Center stationary management platform, the mobile app offers high user comfort. eneo Center mobile is available for Android and iOS systems.



eneo Site Manager

eneo Site Manager enables the automatic scanning, configuration and management of eneo IP cameras. The management software allows quick access to the web interface and supports, among other things, the multi-display of different IP cameras, parallel mass updates, and the storage and restoration of camera settings.

eneo Center

eneo Center is the central management platform for eneo video security systems. The software is compatible with Windows, Mac, Android and iOS-based systems and enables the integration and centralised management of eneo network recorders and IP cameras. Classic video management features supplement eneo Center with extended system status information. Thanks to the event monitor and the site plan with an integrated live view, users have a comprehensive picture of the situation at all times. High functionality and intuitive operation characterise eneo Center, the user interface of which is specially designed for the operational requirements of video security applications.

Selected references

Video security solutions from eneo are used in the branches of numerous renowned companies. Whether in banks, schools, retail outlets, amusement parks, sports facilities or in the hotel industry: thanks to their subtle and elegant design the cameras fit seamlessly and unobtrusively into sophisticated room concepts. Even the smallest models impress with their excellent video quality, their simple and fast installation, and their very good price-performance ratio. And with a wide range of mounting accessories, even installations in difficult environments can be implemented in such a way that they meet the highest standards.



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