



# AI ontmoet geavanceerde videomogelijkheden

De eneo IN-serie geeft een nieuwe definitie aan veiligheid

- AI functies in één oogopslag
- Camera's, recorders, software



## MEER ZEKERHEID, MEER MOGELIJKHEDEN, MEER OMZET

Wanneer de meeste mensen aan videobeveiliging denken, denken ze veelal aan diefstal- en vandalismpreventie of misschien zelfs aan het verkrijgen van bewijsmateriaal. Dat is niet onbegrijpelijk, maar moderne videobeveiligings-technologie kan veel meer. Kunstmatige intelligentie maakt automatische object- en patroonherkenning van ongekende precisie mogelijk. Dit brengt de prestaties van videoanalyse naar een nog hoger niveau. De nieuwste generatie netwerkamera's beschikt over innovatieve AI-functies voor proactieve beveiligingsoplossingen die bedreigingen vooraf tegengaan en de werkdruk van beveiligingspersoneel aanzienlijk verminderen. Bovendien bieden AI-camera's retailers waardevolle informatie over de frequentie en het gedrag van hun klanten. Met deze dienst kunnen kennis en processen worden geoptimaliseerd, en de winkelervaring en verkoop worden verhoogd.

De nieuwe eneo IN-serie biedt dit alles tegen een perfecte prijs-kwaliteitsverhouding. Ontdek het zelf.



## INHOUD

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## SMART SECURITY

AI functions for proactive security and more employee comfort



### Licence Plate Recognition (LPR), Object Classification (OC)

**Human & Vehicle Detection (PD&VD):** Automatic licence plate recognition enables video-based access control. Likewise, licence plates can be recorded (LPD), while with the AI-based classification of people and vehicles parking violations or entering danger zones can be prevented.



**Rare Sound Detection (RSD):** The bidirectional audio function of an eneo AI camera is extended by an audio analysis function which picks up unusual noises such as shots, babies crying and dogs barking.



**Face Detection (FD), Face Recognition (FR), Attribute Detection (AD), Crowd Density Detection (CD):** Video analysis for the capture, recognition and classification of human faces enables, among other things, fast and efficient event research and evidence preservation. The recognition of facial attributes supports pandemic protection measures, while the CD function can be used for both pandemic protection and early detection of crowds.



**Stationary Object Detection (SOD), Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD):** The SOD function detects objects left in or removed from a defined area. Perimeter intrusion detection (PID) creates a virtual perimeter in the monitored area. When line crossing detection (LCD) is activated, crossing a virtual border line will trigger an alarm.

# RETAIL INTELLIGENCE

## AI functions for enhanced service quality and increased turnover



The **heat map function (HM)** visualises customer traffic in the monitored area with an intuitive colour scheme. Customer hotspots and areas where there are only a few people on the sales floor can be identified at a glance. With the help of the heat maps, store managers can place products and advertising selectively, optimise walkways and help to improve the shopping experience.



**Queue Detection (QD):** Intelligent queue management can help to increase customer satisfaction. As soon as a queue in the monitored area exceeds a defined length or waiting time, a message is issued requesting more personnel in the zone concerned e.g. in the checkout area, at the service counter or in reception.



**Cross Counting (CC):** With the aid of this AI function, the number of people in a room or building as well as the number of people entering or leaving it can be determined precisely. The algorithm counts persons or objects that cross a defined line in a defined direction.

Click here to see AI functions in action on YouTube



## eneo IN series



|                              |   |   |   |  |  |  |
|------------------------------|---|---|---|--|--|--|
| Product number               | 234751  | 240083  | 236317  | 238642   | 236668   | 238647   |
| Product                      | INP-75A0033MIA  | INP-75A0033MIB  | INT-85F0003MOA  | INB-58F0002MOPA  | INM-78M2812M0A   | IND-58F0028MTLA  |
| Sensor                       | 1/2.7" OmniVision   | 1/2.7" OmniVision   | 256x192 thermal, IP66, PoE, 12V   | AI, WDR, PoE, 12V, IP67  | 1/1.8" progressive Scan, CMOS  | 1/1.8" Sony sensor IMX678, CMOS  |
| Resolution standard          | 5 Megapixels  | 5 Megapixels  | 5 megapixel (optical)   | 8 megapixel  | 32 Megapixel (4x8MP)   | 8 megapixel  |
| Image resolution max.        | 2592x1944   | 2592x1944   | 2592x1944 pixels (optical)<br>256x192 pixels (thermal)  | 3840x2160  | 4x 3840x2160   | 3840x2160  |
| System                       | True Day&Night  | True Day&Night  | True Day&Night  | 24h color  | Electronic Day&Night   | –  |
| Image transmission rate max. | 30  | 30  | 30  | 30   | 30   | 30   |
| Sensitivity                  | 0.003 lux at F1.6   | 0.003 lux at F1.6   | 0.003 Lux @ F1.6 AGC on   | 0.007 lux at F1.0  | 0.006 lux at F1.2  | 0.0005 Lux @ F1.0  |
| Analysis functions           | Intrusion, Line detection, Object classification (person / vehicle), Object left, removed, trip wire detection with counting and direction detection, Crowd detection, Queue management, Heatmapping, audio detection, face recognition, Face detection | Intrusion, Line detection, Object classification (person / vehicle), Object left, removed, trip wire detection with counting and direction detection, Crowd detection, Queue management, Heatmapping, audio detection, face recognition, Face detection | Optical<br>Passage counting (CC), Intrusion (PID), Vehicle (VD), Fire detector, Face detection (FD), Heat Map (HM), Line crossing (LCD), Human (PD), Crowd (CD), Rare sounds (RSD), Temperature exception alarm, Queues (QD), Left behind and removed objects (SOD) | Passage counting (CC), Intrusion (PID), Heat Map (HM), Line crossing (LCD), Human / Vehicle object classification (PD&VD), rare noises (RSD) | Passage counting (CC), Intrusion (PID), Face detection (FD), Heat Map (HM), License plate recognition (LPR), Line crossing (LCD), Crowd (CD), Human / Vehicle object classification (PD&VD), Queues (QD), Left-and removed objects (SOD) | Presence (FA), Passage counting (CC), Intrusion (PID), Facial attributes (AD), Face detection (FD), Face recognition (FR), Heat Map (HM), License plate detection (LPD), License plate recognition (LPR), Line crossing (LCD), Crowd (CD), Human / Vehicle object classification (PD&VD), Rare sounds (RSD), Queues (QD), Left-and removed objects (SOD) |
| Wide Dynamic Range (WDR)     | WDR 120dB   | WDR 120dB   | D-WDR   | WDR  | WDR 120dB  | WDR 120dB  |
| Lens type                    | 4.3-142 mm, 33 x AFZ motorized  | 4.3-142 mm, 33 x AFZ motorized  | Fixed focal length<br>3.2 mm (thermal), 3.6 mm (optical)  | Fixed focal length<br>2.0mm  | 2.8-8mm, varifocal (motorized)   | 2.8mm fixed focal length   |
| Illumination                 | 10x LED 850nm   | 10x LED 850nm   | Infrared, White light   | Infrared, White light  | 8x Dual Illuminator, Infrared, White light   | 2x White light LED, White light  |
| Illumination range           | approx. 150m  | approx. 150m  | approx. 15m, approx. 30m, Infrared, White light   | approx. 15m, approx. 25m, Infrared, White light  | approx. 25m White light, approx. 35m IR  | approx. 25m  |
| Ethernet interface           | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX   | 1000Base-T, 100Base-TX, 10Base-T   | 100Base-TX, 10Base-T   |
| Alarm inputs                 | –   | –   | 1   | –  | Yes  | –  |
| Alarm outputs                | –   | –   | 1   | –  | Yes  | –  |
| Audio                        | 1/1 line input and output, 2 way audio  | 1/1 line input and output, 2 way audio  | –   | –  | Yes  | 2 way audio, built-in speaker, built-in microphone   |
| Internal Storage             | microSDHC card, microSDXC card  | microSDHC card, microSDXC card  | 256GB, microSDHC card   | 256GB, microSDHC card  | 256GB, microSD card, microSDHC card, microSDXC card  | microSDHC card, microSDXC card   |
| ONVIF                        | ONVIF Profiles G, Profiles S and Profiles T   | ONVIF Profiles G, Profiles S and Profiles T   | ONVIF Profile G, Profile S, Profile T   | ONVIF Profile G, Profile S, Profile T  | ONVIF Profiles G, Profiles S and Profiles T  | ONVIF Profiles G, Profiles S and Profiles T  |
| Protective rating            | IP66  | IP66  | IP66  | IP67   | IP67   | IP67   |
| Operating temperature        | -30°C ~ +60°C, @ humidity 90% or less (non-condensing)  | -30°C ~ +60°C, @ humidity 90% or less (non-condensing)  | -30°C ~ +60°C, @ humidity 90% or less (non-condensing)  | -35°C ~ +60°C, @ humidity 90% or less (non-condensing)   | -30°C ~ +55°C, @ humidity 95% or less (non-condensing)   | -30°C ~ +55°C, @ humidity 95% or less (non-condensing)   |
| Colour                       | RAL9003, Pantone P 179-1, black   | RAL9003, Pantone P 179-1, black   | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1   | Pantone P 179-1, RAL9003   | Pantone P 179-1, RAL9003   |
| Supply voltage               | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE   | 12VDC, 24VAC, PoE++  | 12VDC, PoE   |
| Remarks                      | NDA compliance under Section 889, Part A  | NDA compliance under Section 889, Part A  | NDA compliance under Section 889, Part A  | NDA compliance under Section 889, Part A   | NDA compliance under Section 889, Part A   | NDA compliance under Section 889, Part A   |

## NEWCOMERS



INT-8SF0003M0A

Hybrid camera with optical  
and thermal imaging sensor



INM-78M2812M0A

360° Multi-sensor camera  
with four 4K lenses



IND-58F0028MTLA

Turret camera for excellent Low  
Light performance



INB-58F0002M0PA

Panoramic camera for  
monitoring large areas

## IP Bullet Cameras



|                                 |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|
| <b>Product number</b>           | 235341  | 234993  | 233865  | 233901  | 235342  | 236661  |
| <b>Product</b>                  | INB-52M2812MOA  | INB-55M2713MOA  | INB-58M2713MOA  | INB-65M2812MFA  | INB-68M2812MFA  | INB-75M0550MOA  |
| <b>Sensor</b>                   | 1/2,8" Sony STARVIS, Sensor IMX307  | 1/2,7" OmniVision, OS05A20  | 1/2,8" Sony STARVIS, Sensor IMX415  | 1/2,7" SmartSens, SC500AI   | 1/2,8" Sony STARVIS, Sensor IMX415  | 1/2,7" OmniVision, OS05A20  |
| <b>Resolution standard</b>      | HD 1080p  | 5 megapixels  | 8 megapixels  | 5 megapixels  | 8 megapixels  | 5 megapixels  |
| <b>Image resolution max.</b>    | 1920x1080   | 2592x1944   | 3840x2160   | 2880x1620 @ H.265   | 3840x2160   | 2592x1944   |
| <b>System</b>                   | True Day&Night  | True Day&Night  | True Day&Night  | 24h Colour  | 24h Colour  | True Day&Night  |
| <b>Image transmission rate</b>  | 60  | 30  | 30  | 30  | 30  | 30  |
| <b>Sensitivity</b>              | 0,002 Lux @ F1,6  | 0,003 @ F1,6  | 0,009 Lux @ F1,6  | 0,002 Lux @ F1,0  | 0,002 Lux @ F1,0  | 0,003 Lux @ F1,6  |
| <b>Analysis functions</b>       | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) |
| <b>Wide Dynamic Range (WDR)</b> | D-WDR   | WDR 120dB   | WDR 120dB   | WDR 120dB   | WDR 120dB   | WDR 120dB   |
| <b>Lens type</b>                | 2,8~12mm, Varifocal (motorized)   | 2,7~13,5mm, Varifocal (motorized)   | 2,7~13,5mm, Varifocal (motorized)   | 2,8~12mm, Varifocal (motorized)   | 2,8~12mm, Varifocal (motorized)   | 5~50mm, Varifocal (motorized)   |
| <b>Illumination</b>             | Infrared  | Infrared  | Infrared  | Infrared, whitelight  | Infrared, whitelight  | Infrared  |
| <b>Illumination range</b>       | Approx. 45m   | Approx. 45m   | Approx. 30m   | Approx. 35m IR, Approx. 30m whitelight  | Approx. 35m IR, Approx. 30m whitelight  | Approx. 80m   |
| <b>Ethernet interface</b>       | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  |
| <b>Alarm input</b>              | 1   | 1   | 1   | 1   | 1   | 1   |
| <b>Alarm output</b>             | 1   | 1   | 1   | 1   | 1   | 1   |
| <b>Audio</b>                    | 1/1 Line input and output   | 1/1 Line input and output   | 1/1 Line input and output   | 1/1 Line input and output   | 1/1 Line input and output   | 1/1 Line input and output   |
| <b>Internal storage</b>         | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   |
| <b>ONVIF</b>                    | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   |
| <b>Protection rating</b>        | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  |
| <b>Operating temperature</b>    | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  |
| <b>Colour</b>                   | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-2  | RAL9003, Pantone P 179-3  | RAL9003, Pantone P 179-4  | RAL9003, Pantone P 179-5  | RAL9003, Pantone P 179-6  |
| <b>Supply voltage</b>           | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE  |
| <b>Remarks</b>                  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  |





## IP PTZ Cameras



|   |
|---|
| 236662  |
| INB-78M0550MOA  |
| 1/2.8" Sony STARVIS, Sensor IMX415  |
| 8 megapixels  |
| 3840x2160   |
| True Day&Night  |
| 30  |
| 0,009 Lux @ F1,6  |
| Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) |
| WDR 120dB   |
| 5~50mm, Varifocal (motorized)   |
| Infrared  |
| Approx. 80m   |
| 10Base-T, 100Base-TX  |
| 1   |
| 1   |
| 1/1 Line input and output   |
| MicroSDHC-Card, microSDXC-Card, 256GB   |
| ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   |
| IP67  |
| -35°~+55°, @ Humidity 90% or less (non-condensing)  |
| RAL9003, Pantone P 179-7  |
| 12VDC, PoE  |
| NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   |

|                                 |   |   |   |   |
|---------------------------------|---|---|---|---|
| <b>Product number</b>           | 236326  | 234752  | 236322  | 234751  |
| <b>Product</b>                  | INP-54M2812MOA  | INP-58M2812MOA  | INP-72A0018MIA  | INP-75A0033MIA  |
| <b>Sensor</b>                   | 1 1/8" SmartSens, SC4210  | 1 2/7" SmartSens, SC8238  | 1 2/7" SmartSens, SC200AI   | 1 2/7" OmniVision , OS05A20   |
| <b>Resolution standard</b>      | 4 megapixels  | 8 megapixels  | HD 1080p  | 5 megapixels  |
| <b>Image resolution max.</b>    | 2560x1440   | 3840x2160 (16:9)  | 1920x1080   | 2592x1944   |
| <b>Image transmission rate</b>  | True Day&Night  | True Day&Night  | True Day&Night  | True Day&Night  |
| <b>System</b>                   | 30  | 25  | 30  | 30  |
| <b>Sensitivity</b>              | 0,001 Lux @ F1,6  | 0,009 Lux @ F1,6  | 0,0003 Lux @ F1,6   | 0,003 Lux @ F1,6  |
| <b>Analysis functions</b>       | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) |
| <b>Wide Dynamic Range (WDR)</b> | WDR 120dB   | D-WDR   | WDR 120dB   | WDR 120dB   |
| <b>Lens type</b>                | 2,8~12mm, Varifocal (motorized)   | 2,8~12mm, Varifocal (motorized)   | 5~90mm, Auto Focus Zoom   | 4,3~144mm, Auto Focus Zoom  |
| <b>Illumination</b>             | Infrared, whitelight  | 4x High Power LED 850nm   | No  | 10x LED 850nm   |
| <b>Illumination range</b>       | Approx.20m  | Approx. 30m   | k.a.  | Approx. 150m  |
| <b>Speed (manual)</b>           | 50°/sek.  | 45°/sek.  | 80°/sek.  | 200°/sek.   |
| <b>Speed (present)</b>          | 50°/sek.  | 45°/sek.  | 120°/sek.   | 200°/sek.   |
| <b>Alarm output</b>             | 350°  | 355°  | 360°  | 360°  |
| <b>Tilt range</b>               | 0 ~ -80°  | 0° ~ 90°  | 0 ~ -90°  | -10° ~ +90° (Auto Flip)   |
| <b>Patterns</b>                 | No  | No  | 4 Tours   | 4 Tours   |
| <b>Presets</b>                  | 255 Presets   | 255 Presets   | 250 Presets   | 250 Presets   |
| <b>Home position</b>            | No  | No  | Yes   | Yes   |
| <b>Tours</b>                    | No  | No  | 1 Tour  | 1 Tour  |
| <b>Audio</b>                    | Built in speaker & microphone   | Built in speaker & microphone   | 1/1 Line input and output   | 1/1 Line input and output   |
| <b>Internal storage</b>         | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   |
| <b>External connectors</b>      | RJ-45, 12VDC input (DC jack), connection cable Approx.45cm, Micro SD card slot 256 GB   | RJ-45, 12VDC input (DC jack), connection cable Approx.45cm, Micro SD card slot 256 GB   | RJ-45, 12VDC input (DC jack),audio in/out, alarm in/out, connection cable Approx.45cm, Micro SD card slot 256 GB  | RJ-45, 12VDC input (DC jack),audio in/out, alarm in/out, connection cable Approx.45cm, Micro SD card slot 256 GB  |
| <b>ONVIF</b>                    | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   |
| <b>Protection rating</b>        | IP66, IK10  | IP66  | IP66  | IP66  |
| <b>Operating temperature</b>    | -30°C ~ +60°C, @ Humidity 90% or less (Non-condensing)  | -30°C ~ +60°C, @ Humidity 90% or less (Non-condensing)  | -30°C ~ +60°C, @ Humidity 90% or less (Non-condensing)  | -30°C ~ +60°C, @ Humidity 90% or less (Non-condensing)  |
| <b>Colour</b>                   | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1 , black  | RAL9003, Pantone P 179-1 , schwarz  | RAL9003, Pantone P 179-1 , schwarz  |
| <b>Supply voltage</b>           | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE+   | 12VDC, PoE+   |
| <b>Power consumption</b>        | 15W   | 13W   | 22W   | 25,5W   |
| <b>Remarks</b>                  | NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   | NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   | NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   | NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   |

## IP Dome Cameras



|                          |  |   |   |   |   |
|--------------------------|--|---|---|---|---|
| Product number           | 236318   | 233796  | 236320  | 236666  | 236667  |
| Product                  | IND-32F0016P0A                                     | IND-42M2808M0A  | IND-45F0022M0A  | IND-55M2812MTA  | IND-58M2812MTA  |
| Sensor                   | 1 2/3" OmniVision                                  | 1 2/8" Sony STARVIS, Sensor IMX307  | 1 2/7" SmartSens, SC500AI   | 1 2/7" SmartSens, SC500AI   | 1 2/8" Sony STARVIS, Sensor IMX415  |
| Resolution standard      | 12 megapixels                                      | HD 1080p  | 5 megapixels  | 5 megapixels  | 8 megapixels  |
| Image resolution max.    | 4000x3000  | 1920x1080   | 2880x1620   | 2880x1620   | 3840x2160   |
| Image transmission rate  | 15   | 60  | 30  | 30  | 30  |
| System                   | True Day&Night                                     | True Day&Night  | True Day&Night  | 24h Colour  | 24h Colour  |
| Sensitivity              | 0,01 Lux @ F1,6                                    | 0,002 Lux @ F1,2  | 0,002 Lux @ F1,6  | 0,002 Lux @ F1,0  | 0,007 Lux @ F1,0  |
| Analysis functions       | No   | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) |
| Wide Dynamic Range (WDR) | D-WDR  | D-WDR   | WDR 120dB   | WDR 120dB   | WDR 120dB   |
| Lens type                | 1,6mm, Fixed Lens                                  | 2,8~8mm, Varifocal (motorized)  | 2,2mm, Fixed Lens   | 2,8~12mm, Varifocal (motorized)   | 2,8~12mm, Varifocal (motorized)   |
| Illumination             | Infrared   | Infrared  | Infrared  | Infrared, whitelight  | Infrared, whitelight  |
| Illumination range       | Approx. 10m  | Approx. 20m   | Approx. 20m   | Approx. 30m IR, Approx. 25m whitelight  | Approx. 25m, Approx. 20m whitelight   |
| Ethernet interface       | 10Base-T, 100Base-TX                               | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  |
| Alarm input              | 1  | 1   | No  | 1   | 1   |
| Alarm output             | 1  | 1   | No  | 1   | 1   |
| Audio                    | Built in speaker & microphone                      | 1/1 Line input and output,  | Built in microphone   | 1/1 Line input and output,  | 1/1 Line input and output,  |
| Internal storage         | MicroSDHC-Card, microSDXC-Card, 256GB              | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   |
| ONVIF                    | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T  | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   |
| Protection rating        | IP66   | IP66  | IP66  | IP67  | IP67  |
| Operating temperature    | -35°~+55°, @ Humidity 90% or less (non-condensing) | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  |
| Colour                   | RAL9003, Pantone P 179-1                           | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1  |
| Supply voltage           | 12VDC, PoE   | 12VDC, PoE  | PoE   | 12VDC, PoE  | 12VDC, PoE  |
| Remarks                  | NDA compliance under Section 889, Part A.          | NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   | NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   | NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   | NDA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.   |



|   |   |   |   |   |
|---|---|---|---|---|
| 233819  | 235253  | 235255  | 235254  | 235256  |
| IND-62M2812M0A  | IND-65M2713M0A  | IND-65M2812MFA  | IND-68M2713M0A  | IND-68M2812MFA  |
| 1 2/8" Sony STARVIS, Sensor IMX307  | 1 2/7" OmniVision, OS05A20  | 1 2/7" SmartSens, SC500AI   | 1 2/8" Sony STARVIS, Sensor IMX415  | 1 2/8" Sony STARVIS, Sensor IMX415  |
| HD 1080p  | 5 megapixels  | 5 megapixels  | 8 megapixels  | 8 megapixels  |
| 1920x1080   | 2592x1944   | 2880x1620   | 3840x2160   | 3840x2160   |
| 60  | 30  | 30  | 30  | 30  |
| True Day&Night  | True Day&Night  | 24h Colour  | True Day&Night  | 24h Colour  |
| 0,002 Lux @ F1,6  | 0,003 Lux @ F1,6  | 0,002 Lux @ F1,0  | 0,009 Lux @ F1,6  | 0,002 Lux @ F1,0  |
| Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) | Perimeter Intrusion Detection (PID), Line Crossing Detection (LCD), Cross Counting (CC), Human & Vehicle Detection (PD&VD), Heat Map (HM), Face Detection (FD), Face Recognition (FR), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPD), License Plate Recognition (LPR), Rare Sound Detection (RSD), Face Attendance (FA), Attribute Detection (AD), Stationary Object Detection (SOD) |
| D-WDR   | WDR 120dB   | WDR 120dB   | WDR 120dB   | WDR 120dB   |
| 2,8~12mm, Varifocal (motorized)   | 2,7~13,5mm, Varifocal (motorized)   | 2,8~12mm, Varifocal (motorized)   | 2,7~13,5mm, Varifocal (motorized)   | 2,8~12mm, Varifocal (motorized)   |
| Infrared  | Infrared  | Infrared, whitelight  | Infrared  | Infrared, whitelight  |
| Approx. 30m   | Approx. 30m   | Approx. 30m IR, Approx. 25m whitelight  | Approx. 30m   | Approx. 30m IR, Approx. 25m whitelight  |
| 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  | 10Base-T, 100Base-TX  |
| 1   | 1   | 1   | 1   | 1   |
| 1   | 1   | 1   | 1   | 1   |
| 1/1 Line input and output,  | 1/1 Line input and output,  | 1/1 Line input and output,  | 1/1 Line input and output,  | 1/1 Line input and output,  |
| MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   | MicroSDHC-Card, microSDXC-Card, 256GB   |
| ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   | ONVIF Profile G, ONVIF Profile S, ONVIF Profile T   |
| IP67  | IP67  | IP67  | IP67  | IP67  |
| -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  | -35°~+55°, @ Humidity 90% or less (non-condensing)  |
| RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1  | RAL9003, Pantone P 179-1  |
| 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE  | 12VDC, PoE  |
| NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  | NDAA compliance under Section 889, Part A. The face detection and license plate recognition functions are only available with an inserted SD card or in conjunction with a recorder from the eneo IN series.  |

## NVR



|                                  |   |   |   |   |
|----------------------------------|---|---|---|---|
| Product number                   | 233904  | 234749  | 234750  | 238664  |
| Product                          | INR-18N040005A  | INR-18N080005A  | INR-18N320005A  | INR-58N64005  |
| IP channels                      | 4   | 8   | 32  | 64  |
| Recording resolution max.        | 3840x2160   | 3840x2160   | 3840x2160   | 4000x3000   |
| Recording                        | Permanent, movement, event, manual, AI  | Permanent, movement, event, manual, AI  | Permanent, movement, event, manual, AI  | Permanent, movement, event, manual, AI  |
| Live display                     | 30fps @ 3840x2160, 48fps @ 2592x1944, 60fps @ 2592x1520, 120fps @ 1920x1080   | 45fps @ 3840x2160, 72fps @ 2592x1944, 90fps @ 2592x1520, 180fps @ 1920x1080   | 60fps @ 3840x2160, 90fps @ 2592x1944, 120fps @ 2592x1520, 240fps @ 1920x1080  | 240fps @ 3840x2160, 480fps @ 2592x1520, 960fps @ 1920x1080                    |
| Playback                         | 30fps @ 3840x2160, 48fps @ 2592x1944, 60fps @ 2592x1520, 120fps @ 1920x1080   | 45fps @ 3840x2160, 72fps @ 2592x1944, 90fps @ 2592x1520, 180fps @ 1920x1080   | 60fps @ 3840x2160, 90fps @ 2592x1944, 120fps @ 2592x1520, 240fps @ 1920x1080  | 240fps @ 3840x2160, 480fps @ 2592x1520, 960fps @ 1920x1080                    |
| Network                          | WAN 1x 10/100/1000 Base-T RJ45, 4x PoE RJ45 10/100 Base-T WAN                 | WAN 1x 10/100/1000 Base-T RJ45, 8x PoE RJ45 10/100 Base-T WAN                 | WAN 1x 10/100/1000 Base-T RJ45, 16x PoE RJ45 10/100 Base-T WAN                | WAN 2x 10/100/1000 Base-T RJ45  |
| Data transfer rate outgoing Mbps | 64  | 128   | 128   | 640   |
| Data transfer rate incoming Mbps | 50  | 128   | 256   | 640   |
| Data transfer max. Mbps          | 114   | 256   | 284   | 1280  |
| Analysis functions               | Depending on connected IP camera  | Depending on connected IP camera  | Depending on connected IP camera  | Depending on connected IP camera  |
| Motion detector                  | Integrated motion detector  | Integrated motion detector  | Integrated motion detector  | Integrated motion detector  |
| HDD slots                        | 1x SATA   | 1x SATA   | 4x SATA   | 16x SATA, RAID0, RAID1, RAID5, RAID6, RAID10                                  |
| Max. internal HDD capacity       | 10 TB   | 10 TB   | 40 TB   | 288 TB  |
| External storage                 | 1x eSATA, 1x NetHDD (SMB,NFS), Google Drive 2 channels, Dropbox 2 channel     | 1x eSATA, 1x NetHDD (SMB,NFS), Google Drive 2 channels, Dropbox 2 channels    | 1x eSATA, 1x NetHDD (SMB,NFS), Google Drive 2 channels, Dropbox 2 channels    | 1x eSATA, 1x NetHDD (SMB,NFS), Google Drive 2 channels, Dropbox 2 channels    |
| Monitor outputs                  | 1x HDMI, 1x VGA   | 1x HDMI, 1x VGA   | 1x HDMI, 1x VGA   | 4x HDMI   |
| Alarm inputs                     | 4   | 8   | 16  | 16  |
| Alarm outputs                    | 1   | 1   | 1   | 4   |
| Alarm triggers                   | Hard disk error, image loss, motion, contact, AI                              | Hard disk error, image loss, motion, contact, AI                              | Hard disk error, image loss, motion, contact, AI                              | Hard disk error, image loss, motion, contact, AI                              |
| Audio output                     | 1   | 1   | 1   | 1   |
| Audio input                      | 1x Line input   | 1x Line input   | 1x Line input   | 1x Line input   |
| Fan                              | No  | No  | No  | Yes   |
| ONVIF                            | ONVIF Profile S   | ONVIF Profile S   | ONVIF Profile S   | ONVIF Profile S   |
| Power over ethernet              | IEEE 802.3af, IEEE 802.3at  | IEEE 802.3af, IEEE 802.3at  | IEEE 802.3af, IEEE 802.3at  | No  |
| PoE budget (total)               | 45  | 59  | 220   | No  |
| Supply voltage                   | 48VDC (power supply 100~240VAC, 50/60Hz scope of supply)                      | 48VDC (power supply 100~240VAC, 50/60Hz scope of supply)                      | 100-230VAC, 50/60Hz   | 100-230VAC, 50/60Hz   |
| Power consumption                | 5 W, without HDD  | 6W, without HDD   | 12W, without HDD  | 8W, without HDD   |
| Remote access                    | eneo INsight, eneo INsight mobile, Remote Software, iOS, Android, WEB Browser | eneo INsight, eneo INsight mobile, Remote Software, iOS, Android, WEB Browser | eneo INsight, eneo INsight mobile, Remote Software, iOS, Android, WEB Browser | eneo INsight, eneo INsight mobile, Remote Software, iOS, Android, WEB Browser |

## eSATA memory expansion



|                |   |
|----------------|---|
| Product number | 234995  |
| Product        | INR-eSATA   |
| Features       | HDD box for memory expansion by max. 4 HDD. Max. 8TB pro HDD, without HDD |



## Hybrid Recorders



|                                    |   |   |
|------------------------------------|---|---|
| Product number                     | 233903  | 234748  |
| Product                            | MNR-18N04000A   | MNR-18N16000A   |
| Channels total                     | 6   | 24  |
| Video inputs                       | 4   | 16  |
| IP channels                        | 2 (6 IP only)   | 8 (24 IP only)  |
| Resolution recording max.          | 3840x2160   | 3840x2160   |
| Max. recording rate                | 120fps@1920x1080  | 480fps@1920x1080  |
| Recording speed                    | 28 fps @ 3840x2160, 48 fps @ 2560x1920, 60 fps @ 2560x1440, 120 fps @ 1920x1080   | 160 fps @ 3840x2160, 240 fps @ 2592x1944, 320 fps @ 2592x1520, 480fps@1920x1080   |
| Live image                         | 28fps @ 3840x2160, 48fps @ 2592x1944, 60fps @ 2592x1520, 120fps @ 1920x1080   | 160fps @ 3840x2160, 240fps @ 2592x1520, 320fps @ 2592x1520, 480fps @ 1920x1080  |
| Playback speed                     | 28 fps @ 3840x2160, 48 fps @ 2560x1920, 60 fps @ 2560x1440, 120 fps @ 1920x1080   | 160fps @3840x2160, 240fps @2592x1944, 320fps @2592x1520, 480fps @1920x1080  |
| Recording                          | Permanent, manual, motion, AI, event  | Permanent, motion, event, manual, AI  |
| Video inputs                       | 4 x BNC socket, automatic resolution and signal detection   | 16 x BNC socket, automatic resolution and signal detection  |
| Signal format                      | IP @ 8MP, HD-TVI @ 8MP, Composite (FBAS), AHD @ 8MP   | HD-TVI @ 8MP, Composite (FBAS), AHD @ 8MP, IP @ 8MP   |
| Network connection                 | 10/100Base-TX RJ45  | 100/1000Base-TX RJ45  |
| Data transfer rate outgoing Mbps   | 36  | 192   |
| Data transfer rate incoming Mbps   | 12  | 64  |
| Data tranfer rate max. Mbps        | 48  | 256   |
| Analysis functions                 | The recorder provides the following analysis functions for analog cameras: obstruction detection, intrusion, line detection, object classification (person / vehicle) | The recorder provides the following analysis functions for analog cameras: obstruction detection, intrusion, line detection, object classification (person / vehicle) |
| Motion detector                    | Integrated motion detection, freely definable fields  | Integrated motion detection, freely definable fields  |
| Number of HDD slots                | 1x SATA   | 2x SATA   |
| Hard disk capacity (max. internal) | 10 TB   | 20 TB   |
| External storage                   | 1x eSATA, 1x NetHDD (SMB,NFS), Google Drive 2 channels, Dropbox 2 channels  | 1x NetHDD (SMB,NFS), Google Drive 2 channels, Dropbox 2 channels  |
| Main video outputs                 | HDMI (4K), VGA  | HDMI (4K), VGA  |
| Spotmonitor                        | Composite (FBAS)  | Composite (FBAS)  |
| Alarm inputs                       | 4   | 16  |
| Alarm outputs                      | 1   | 1   |
| Alarm trigger                      | Hard disk error, image loss, motion, contact, AI  | Hard disk error, image loss, motion, contact, AI  |
| Audio inputs                       | 4 x RCA   | 16 x RCA  |
| Audio output                       | 1 x RCA   | 1 x RCA   |
| ONVIF                              | ONVIF Profile S   | ONVIF Profile S   |
| Supply voltage                     | 12 VDC  | 12 VDC  |
| Power consumption                  | 4.7 W, without hard disk  | 20 W, without hard disk   |
| Remote access                      | eneo INsight, eneo INsight mobile, Microsoft Internet Explorer, Remote software   | eneo INsight, eneo INsight mobile, Microsoft Internet Explorer, Remote software   |
| Features                           | Channels can be assigned with IP or different HD / SD signal formats (mixed operation possible)   | Channels can be assigned with IP or different HD / SD signal formats (mixed operation possible)   |

## INSTALLATION ACCESSORIES

Video security professionals and operators know how useful the eneo installation accessories are. Meanwhile, the range of accessories for our cameras has developed a sizeable bandwidth. After all, the demand is great and, as with our other product groups, the diverse practical suggestions and specific desires of our customers are continuously incorporated into our product development. The result is solid and cost-effective solutions for time-saving indoor and outdoor installations.

The range extends from wall brackets to pole mounting adapters and robust junction boxes which have proven themselves in countless projects.

In the product section of the eneo website, you will find an overview of compatible accessories for each camera.

Wall bracket



Pole assembly



On-wall/on-ceiling



Double housing



This QR code directs you to the eneo website



# FREE MANAGEMENT SOFTWARE



Windows  
macOS



- Live display and research (local, NVR, DVR, SD card)
- Flexible search for AI incidents
- Remote configuration of all integrated IN products
- Management of AI databases
- Export of recordings
- Flexible map views with PIP function (live camera images)
- Clearly arranged incident bar



Google Play



App Store



- Live display and research (local, NVR, DVR, SD card) Extensive search options (AI incidents, timeline)
- Remote configuration of the connected devices
- Full screen and multi-screen display
- Management of views
- Control of zoom and PTZ cameras
- Bidirectional audio connection to devices
- Activation of deterrents
- Manual activation of white light
- Control of output contacts
- PUSH notifications for incidents
- Local recording of sequences and still images with sharing option





## NEW APPLICATIONS FOR VIDEO SECURITY TECHNOLOGY

### Live at the ultra run – with eneo

Ultra running is extremely challenging, even for hardened runners. That is why it is becoming increasingly popular. And more and more often, such superlative competitions are documented on video or streamed live on the Internet. One example is the privately organised ultra marathon Wehrheimer Backyard Ultra (WEHBU), which took place for the fourth time in June this year.

A total of 65 runners, both male and female, pushed themselves to their performance limits: a round of 6.706 kilometres (4.167 miles) has to be completed every hour on the hour, so that in 24 hours exactly the distance of a 100-mile run is covered. The race is run on a knock-out basis – the race continues until only one runner remains.

This year, the WEHBU was streamed live on a video platform for the first time. Not by means of a camcorder, but with a high-performance eneo IP surveillance camera, the INB-65M2812MFA from the eneo IN series. This model's CMOS sensor generates images with resolutions of up to five megapixels and, like all IN cameras, the INB-65M2812MFA features numerous AI-based video analysis functions.

Video surveillance cameras are particularly well suited for use at such events because they are designed for continuous operation and deliver high-resolution, detailed images even in challenging visibility and weather conditions. The INB-65M2812MFA used at WEHBU generates high-resolution colour images around the clock thanks to its excellent light sensitivity and integrated white light illumination, while the WDR image optimisation function ensures clearly recognisable images even in changing light conditions. And thanks to the motorised varifocal lens with flexible focal length, the field of view can be adjusted quickly and accurately. It is not least these technical features of the eneo camera that made it possible for viewers from all over the world to see the entire WEHBU start and finish area on their home screens in a video stream, while the high, detailed image resolution enhanced the impression of being there live.

Benjamin Fuchs, organiser of WEHBU, drew a positive conclusion:

“We will definitely rely on eneo camera solutions again for the next edition of WEHBU in May 2025 and are already planning to place an extra camera on the track.”



**VSS** NEDERLAND  
VIDEO SYSTEMS

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Web [www.vssnederland.nl](http://www.vssnederland.nl)



De informatie in deze brochure is gebaseerd op technische/productinformatie zoals bekend op 20 september 2024. Wijzigingen voorbehouden!