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Catalogue for analogue products 2011

Specifications and product information for installers, system integrators and retailers of video surveillance systems.

www.eneo-security.com



About eneo

eneo is the specialist in video surveillance and the partner for professional installers and dealers. With a comprehensive portfolio of products and service features, we are able to support you reliably and competently from installation to maintenance with our range of products.

eneo has been an established brand for closed circuit television for over ten years and is only available to professional installers and dealers. Our product portfolio is characterised by its extensive variety, outstanding price-performance ratio and certified quality. But eneo has far more to offer than just a comprehensive product range and attractive prices. Service features, supporting you in the best possible way with our range of products or in your questions regarding installation and start-up, as well as an expert team for maintenance, repair and manufacturing make eneo a brand worth using.

PRE AND POST-SALE ADVICE

Our product experts will provide you with comprehensive advice in your choice of suitable products and also after you have made your selection, in the event that you have any questions concerning the installation or start-up. We offer the option of Buy and Try for certain eneo products, so you can test the respective product as you please for up to 30 days in its place of use. If the product is not appropriate, you can return it without having to provide any explanation as to why. For further information please visit: www.eneo-security.com/en/buy_and_try

PRODUCT MODIFICATIONS – TAILORED TO YOUR NEEDS

We make everyday work easier for you with our services for product modifications and customised production. If everything is already correctly wired and the back focal distance is set, you just have to concentrate on installing the actual system. This not only saves time, but also money. Our range of services extends from part and complete assembly with enclosed installations to protect against the weather and customised models up to the production of small runs within the agreed time. For further information please visit: www.eneo-security.com/assembly

MAINTENANCE AND REPAIR - EXCELLENTLY EQUIPPED TECHNICAL SERVICE

We have everything necessary to reliably service or repair your equipment: the latest state of the art ESD compatible workstations, test signals in all the current signal formats, equipment installed externally for “real life” tests, separate intranet to check the network components. If you do not want

eneo – your partner in video surveillance

eneo pays off for you. A versatile product range, attractive prices and comprehensive service features make eneo the partner that professional installers and dealers in video surveillance can rely on.



to wait until the repair work is completed, you can use our exchange service with certain products for a temporary replacement whilst your equipment is being repaired. This service is free of charge during the warranty period. Beyond that our affordable flat rate service fee guarantees planning reliability even during repairs. Thus you know beforehand how much it will cost to repair your camera or recorder. For further information please visit: www.eneo-security.com/technical_service

ASSURED QUALITY – CERTIFIED IN ACCORDANCE WITH EN ISO 9001:2008

With us you get certified quality. We are not only certified in accordance with EN ISO 9001:2008, but we also assure the high quality of our products with our extensive tests and incoming goods inspections. In order to increase the comparability of the tests, all workstations are uniformly equipped. So product tests are always conducted under absolutely identical conditions. Deviations in the product quality are thus easier to discern.



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6 Cameras

17 Domes

Automated monitoring with intelligent cameras

More reliable monitoring, relieving the burden of the guards thanks to the analysis functions of the VKC-1375 and VKCD-1375.

Cameras are becoming more and more intelligent. In addition to a progressive increase in resolution, numerous analysis functions are becoming available to make surveillance far more reliable and also ensure the security personnel's work is much easier. The VKC-1375 Box Camera and VKCD-1375 Fixed Dome from eneo are current examples of this. Reliable sabotage detection combined with a camera cover, defocusing, spray-painting detection and change of viewing direction are highlights. Motion detection has been implemented with different functionalities and configuration options: classic motion detection is applied to the entire scene with automatic upsizing and tracking of the detected movement by PTZ. The Mine Area function is used to preselect relevant areas, such as a wire, barrier or an area where unauthorised entry is prohibited. But the eneo technology goes even further: their range of functions include face image recognition and alerting when an object is moved out of a predefined area, plus cross object counting and entrance counting. With Cross Object Counting, two vertical lines defined in the picture are used for counting objects that move past, such as vehicles driving past a building. With Entrance Counting, the camera counts the number of people who enter or leave an entrance area, such as in a supermarket. The number counted is displayed directly in the camera image for both functions. Furthermore, an alarm output contact is available for triggering further activities for all the above video analysis functions.



EHLC FUNCTIONALITY AND 3D DNR NOISE SUPPRESSION

All of these analysis functions are clearly only useful when the image quality is outstanding: the VKC-1375 and VKCD-1375 have a horizontal resolution of 650 TV lines and – in addition to advanced WDR, pixel compensation and real day/night functionality – they feature the new EHLC functionality (Excessive High Light Compensation). This function shades very bright areas in the video image, such as car headlights directed at the camera. Also, very dark image areas are brightened, so that the number plate is clearly recognisable despite the darkening effect in this example. Effective noise reduction is achieved through either the 2D function or the very effective 3D-DNR.

VIDEO CLIPS ON WWW.ENEO-SECURITY.COM

You want to experience all analysis options in operation? Then visit www.eneo-security.com/automated_monitoring where you will see video clips that not only explain each function, but they also show the settings you need to make in the setup menu.

When it gets wet

The eneo plug & play cameras in the new bullet housing are predestined for outdoor use. They not only have IP68-compliant protection and can be operated at temperatures from -20°C to +50°C. Everything has also been prepared to make installation quick and smooth.





If you wish, you can go swimming together with the plug & play cameras in the new bullet housing. Or monitor the streets of New Delhi during the Indian monsoon. Because the very sturdy housing is protected compliant with IP68 and it can therefore also be taken along when swimming under water. But when you are not planning to go diving at the moment, then the VKC-1378, VKC-1379 and VKC-1382 are the right choice for reliable outdoor use at temperatures from -20°C to +50°C. Because everything has been prepared to make installation quick and smooth: camera modules with retractable infrared cut filter for day and night use, integrated varifocal lenses, wall bracket with concealed cabling for wall or ceiling mounting, sunshield. This










means for you: at the installation site unpack, bolt on, hook up the cables. Focus and zoom can then be set externally without having to unscrew the housing.

FOR THE START: FOUR DIFFERENT MODELS










What are the differences among the three currently available models? The differences between the VKC-1378/IR-650 and the VKC-1378/IR-316 are limited to the focal length: whilst the focal length of the VKC-1378/IR-650 lies at 6mm to 50mm, the VKC-1378/IR-316 has a focal length of 3.5mm to 16mm. Both cameras have a horizontal resolution of 560 TV lines, light sensitivity of 0.25 lux at F1.2, and their 70 LEDs (850nm) can illuminate as far as 80 metres. The

VKC-1382/IR3516 has a horizontal resolution of 600 TV lines, light sensitivity of 0.14 lux at F1.2, and their 70 LEDs (850nm) can illuminate as far as 80 metres. Things are different for the VKC-1379/IR-316: the VKC-1379/IR-316 (unlike the other models) is a Pixim camera that ensures a wide dynamic range (WDR) of 120dB with its patented DPS technology. Its horizontal resolution lies at 540 TV lines, light sensitivity at 1.4 lux, and its 70 LEDs (850nm) have an illumination range up to 80 metres. On all models the illumination is switched on and off automatically in response to the ambient lighting. The suitable model for you is not here? We will continuously expand our product range of cameras in the bullet housing, corresponding IP versions are also currently in the works.

	VKC-1375 92567	VKC-1375/12-24 92566	VKC-1424-12 92755	VKC-1424-22 92754	VKC-1424-36 92718	VKC-1376 92572	VKC-1376/12-24 92569	VKC-1380/IR 98092	VKC-1382/IR-316 92697
									
			NEW	NEW	NEW			NEW	NEW
System	day&night	day&night	day&night	day&night	day&night	day&night	day&night	colour	day&night
Imager	1/3" CCD	1/3" CCD	1/4" CCD	1/4" CCD	1/4" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	650 TVL	650 TVL	650 TVL	650 TVL	650 TVL	600 TVL	600 TVL	600 TVL	600 TVL
Light sensitivity	0,1 Lux	0,1 Lux	0,16 Lux	0,16 Lux	0,16 Lux	0,1 Lux	0,1 Lux	0,2 Lux	0,14 Lux
IR cut filter	switchable	switchable	switchable	switchable	switchable	standard	standard	switchable	switchable
Digital noise reduction	yes	yes	yes	yes	yes	yes	yes	yes	yes
Backlight compensation	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC, HS BLC (eclipser)
Wide Dynamic Range (WDR)	yes	yes	yes	yes	yes	no	no	yes	yes
Low speed shutter	yes	yes	yes	yes	yes	no	no	yes	yes
Activity detection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Digital zoom	2x ~ 256x, D-PTZ support	2x ~ 256x, D-PTZ support	2x ~ 32x	2x ~ 32x	2x ~ 32x	no	no	1x ~ 10x	1x ~ 16x
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	CS mount/Lens not included	CS mount/Lens not included	12x zoom 3,8-45,6 mm	22x zoom 3,9-85,8 mm	36x zoom 3,4-122,4 mm	CS mount/Lens not included	CS mount/Lens not included	varifocal 2,8-11 mm	varifocal 3,5-16 mm
Horizontal angle of view	n/a	n/a	45,6-4,0 °	44,6-2,2 °	50,4-1,4 °	n/a	n/a	96,7-24,1 °	70-17,5 °
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-20°C ~ +50°C
Vandalism resistant	no	no	no	no	no	no	no	no	no
PTZ support	no	no	no	no	no	no	no	no	no
Illumination	no	no	no	no	no	no	no	infrared	infrared
Serial interfaces	RS-485	RS-485	RS-485	RS-485	RS-485	RS-485	RS-485	RS-485	RS-485
Alarm Inputs/Outputs	-/1	-/1	-/1	-/1	-/1	-/-	-/-	-/-	-/-
Supply voltage	230VAC	12VDC, 24VAC	12VDC	12VDC	12VDC	100~240VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC
Protection rating	n/a	n/a	n/a	n/a	n/a	n/a	n/a	IP66	IP68
Comments	Sony Super HAD II 960H Interline Transfer, Sony Effio DSP, extensive analysis functions	Sony Super HAD II 960H Interline Transfer, Sony Effio DSP, extensive analysis functions	Sony Super HAD II 960H Interline Transfer, Sony Effio DSP	Sony Super HAD II 960H Interline Transfer, Sony Effio DSP	Sony Super HAD II 960H Interline Transfer, Sony Effio DSP				Samsung W5 DSP, illumination range: 80m









	VKC-1416B 92592	VKC-1416B/PP 74229	VKC-1416B/VHU 96064	VKC-1357B 92753	VKC-1359BIRW3P 96103	VKC-1379B/IR316 92752	VKC-1327B-IRW3 96099	VKC-1327B/W3 96101	VKC-1360 92574
									
	NEW	NEW		NEW	NEW	NEW			
System	day&night	day&night	day&night	day&night	day&night	day&night	day&night	day&night	day&night
Imager	1/4" CCD	1/4" CCD	1/4" CCD	1/3" DPS (Pixim)	1/3" DPS (Pixim)	1/3" DPS (Pixim)	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	580 TVL	580 TVL	580 TVL	570 TVL	570 TVL	570 TVL	560 TVL	560 TVL	560 TVL
Light sensitivity	0,33 Lux	0,33 Lux	0,33 Lux	0,4 Lux	0,4 Lux	0,4 Lux	0,2 Lux	0,2 Lux	0,1 Lux
IR cut filter	switchable	switchable	switchable	switchable	switchable	switchable	switchable	switchable	switchable
Digital noise reduction	yes	yes	yes	yes	yes	yes	yes	yes	yes
Backlight compensation	BLC	BLC	BLC	no	no	no	HS BLC (eclipser), BLC	HS BLC (eclipser), BLC	BLC
Wide Dynamic Range (WDR)	yes	yes	yes	yes	yes	yes	yes	yes	yes
Low speed shutter	yes	yes	yes	yes	yes	yes	yes	yes	yes
Activity detection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Digital zoom	1x ~ 16x	1x ~ 16x	1x ~ 16x	2 ~ 12x, D-PTZ support	2 ~ 12x, D-PTZ support	2 ~ 12x, D-PTZ support	2x ~ 32x	2x ~ 32x	2x ~ 32x
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	22x zoom 3,9-85,8 mm	22x zoom 3,9-85,8 mm	22x zoom 3,9-85,8 mm	CS mount/Lens not included	varifocal 3,8-9,5 mm	varifocal 3,5-16 mm	varifocal 3,8-9,5 mm	varifocal 3,8-9,5 mm	CS mount/Lens not included
Horizontal angle of view	50-2,46 °	50-2,46 °	50-2,46 °	n/a	30-74,2 °	70-17,5 °	74,2-30 °	74,2-30 °	n/a
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-30°C ~ +40°C	-10°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-10°C ~ +50°C
Vandalism resistant	no	no	no	no	no	no	no	no	no
PTZ support	no	no	no	yes	yes	yes	no	no	no
Illumination	no	no	no	no	infrared	infrared	infrared	no	no
Serial interfaces	RS-232, RS-485	RS-232, RS-485	RS-232, RS-485	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC	12VDC, 24VAC	12VDC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	230VAC
Protection rating	IP40	IP66	IP66/67	n/a	IP67	IP68	IP67	IP67	n/a
Comments				Pixim Seawolf DSP	Pixim Seawolf DSP, intelligent IR illumination, illumination range: 35m	Pixim Seawolf DSP, illumination range: 80m	Intelligent IR illumination, illumination range: 30m		

	VKC-1360/12-24 92573	VKC-1373/VAR210 92545	VKC-1378/IR-316 92578	VKC-1378/IR-650 92595	VKC-1352 92095	VKC-1353/IR 92098	VKC-1356-1/IR 92218	VKC-1358A/IR 92552	VKC-1358A/IR922 92553
									
			NEW	NEW					
System	day&night	day&night	day&night	day&night	day&night	day&night	day&night	day&night	day&night
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	560 TVL	560 TVL	560 TVL	560 TVL	550 TVL	550 TVL	550 TVL	550 TVL	550 TVL
Light sensitivity	0,1 Lux	0,3 Lux	0,2 Lux	0,2 Lux	0,36 Lux	0,46 Lux	0,6 Lux	0,44 Lux	0,44 Lux
IR cut filter	switchable	switchable	switchable	switchable	switchable	switchable	switchable	switchable	switchable
Digital noise reduction	yes	no	yes	yes	no	yes	yes	no	no
Backlight compensation	BLC	BLC	BLC, HS BLC (eclipser)	BLC, HS BLC (eclipser)	BLC	BLC	BLC	no	no
Wide Dynamic Range (WDR)	yes	yes	yes	yes	no	no	no	no	no
Low speed shutter	yes	yes	yes	yes	no	yes	yes	no	no
Activity detection	yes	yes	yes	yes	no	no	no	no	no
Digital zoom	2x ~ 32x	16x	2x ~ 32x	2x ~ 32x	no	no	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	CS mount/Lens not included	varifocal 2,8-10,5 mm	varifocal 3,5-16 mm	varifocal 6-50 mm	fixed focal length 3,8 mm	varifocal 3,8-9,5 mm	varifocal 3,8-9,5 mm	varifocal 3,8-9,5 mm	varifocal 9-22 mm
Horizontal angle of view	n/a	81,2-25,8 °	70-17,5 °	43,6-5,4 °	65 °	74,2-30 °	74,2-30 °	74,2-30 °	30,6-13 °
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	0°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
Vandalism resistant	no	no	no	no	no	no	no	no	no
PTZ support	no	no	no	no	no	no	no	no	no
Illumination	no	no	infrared	infrared	no	infrared	infrared	infrared	infrared
Serial interfaces	no	RS-485	no	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC, 24VAC	12VDC	12VDC, 24VAC	12VDC, 24VAC	12VDC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC
Protection rating	n/a	n/a	IP68	IP68	n/a	n/a	IP65	IP66	IP66
Comments			Illumination range: 80m	Illumination range: 80m		Illumination range: 5m	Illumination range: 50m	Illumination range: 45m	Illumination range: 45m


	VKC-1371/IR-3.6 92543	VKC-1371/IR-6 92542	VKC-1374/IR 92555	VKC-1381/IR-3.6 92594	CANDID C-07 96097	CANDID C-08 96098	VKC-1327A/VAR49 92154	VKC-1341A 92079	VKC-1341A/12-24 92078
									
					NEW				
System	day&night	day&night	day&night	day&night	day&night	day&night	day&night	day&night	day&night
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	550 TVL	550 TVL	550 TVL	550 TVL	540 TVL	540 TVL	540 TVL	540 TVL	540 TVL
Light sensitivity	0,22 Lux	0,22 Lux	0,5 Lux	0,33 Lux	0,16 Lux	0,16 Lux	0,5 Lux	0,23 Lux	0,23 Lux
IR cut filter	OLPF (Overlay Low Pass Filter)	OLPF (Overlay Low Pass Filter)	switchable	switchable	switchable	switchable	switchable	OLPF (Overlay Low Pass Filter)	OLPF (Overlay Low Pass Filter)
Digital noise reduction	no	no	no	no	no	no	no	yes	yes
Backlight compensation	no	no	no	no	BLC	BLC	BLC	BLC	BLC
Wide Dynamic Range (WDR)	no	no	no	no	no	no	no	no	no
Low speed shutter	no	no	no	no	no	no	no	yes	yes
Activity detection	no	no	no	no	no	no	no	yes	yes
Digital zoom	no	no	no	no	no	no	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	fixed focal length 3,6 mm	fixed focal length 6 mm	varifocal 3,8-9,5 mm	fixed focal length 3,6 mm	varifocal 3-8 mm	varifocal 7,5-50 mm	varifocal 3,8-9,5 mm	CS mount/Lens not included	CS mount/Lens not included
Horizontal angle of view	95,3 °	50,6 °	74,2-30 °	95,3 °	90,8-36,2 °	36,6-5,64 °	74,2-30 °	n/a	n/a
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-30°C ~ +40°C	-30°C ~ +40°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
Vandalism resistant	no	no	no	no	no	no	no	no	no
PTZ support	no	no	no	no	no	no	no	no	no
Illumination	infrared	infrared	infrared	infrared	no	no	no	no	no
Serial interfaces	no	no	no	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC, 24VAC	230VAC	12VDC, 24VAC
Protection rating	IP67	IP67	IP65	IP67	IP66/67	IP66/67	n/a	n/a	n/a
Comments	illumination range: 30m	illumination range: 30m	illumination range: 20m	illumination range: 30m					

VKC-1348/CM2
92322VKC-1367IR-
1850VKC-1370
92537VKC-1370/12-24
92538VKC-1361/IR-4.0
92205

System	day&night	day&night	day&night	day&night	day&night
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	540 TVL	540 TVL	540 TVL	540 TVL	520 TVL
Light sensitivity	0,25 Lux	0,16 Lux	0,15 Lux	0,15 Lux	0,18 Lux
IR cut filter	switchable	switchable	switchable	switchable	OLPF (Overlay Low Pass Filter)
Digital noise reduction	no	no	no	no	no
Backlight compensation	BLC	BLC	BLC	BLC	BLC
Wide Dynamic Range (WDR)	no	no	no	no	no
Low speed shutter	no	yes	no	no	yes
Activity detection	no	no	no	no	no
Digital zoom	no	no	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	varifocal 3,8-9,5 mm	varifocal 18-50 mm	CS mount/Lens not included	CS mount/Lens not included	fixed focal length 4 mm
Horizontal angle of view	74,2-30 °	14,6-5,6 °	n/a	n/a	63 °
Temperature range (operation)	-10°C ~ +50°C	-30°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
Vandalism resistant	no	no	no	no	no
PTZ support	no	no	no	no	no
Illumination	no	infrared	no	no	infrared
Serial interfaces	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC	12VDC, 24VAC	230VAC	12VDC, 24VAC	12VDC
Protection rating	IP66	IP67	n/a	n/a	IP67
Comments		Illumination range: 80m			Illumination range: 15m

	VKC-1331A 92531	VKC-1338A/PIR 92586	VKC-1344/3.8 92077	VKC-1366 92529	VKC-1372/3.6 92544	VKC-1324B/W3 96102	VKC-1365T 92524	VKC-1368-WL/W3 96096
			 NEW					
System	colour	colour	colour	colour	colour	colour	colour	colour
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	550 TVL	550 TVL	550 TVL	550 TVL	550 TVL	540 TVL	540 TVL	540 TVL
Light sensitivity	0,18 Lux	3,0 Lux	0,35 Lux	0,2 Lux	0,18 Lux	0,2 Lux	0,1 Lux	0,2 Lux
IR cut filter	standard	standard	standard	standard	standard	standard	standard	standard
Digital noise reduction	no	no	no	no	no	no	no	no
Backlight compensation	no	no	BLC	no	no	BLC	BLC	BLC
Wide Dynamic Range (WDR)	no	no	no	no	no	no	no	no
Low speed shutter	no	no	no	no	no	no	no	no
Activity detection	no	no	no	no	no	no	no	no
Digital zoom	no	no	no	no	no	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	fixed focal length 3,6 mm	fixed focal length 3,7 mm	fixed focal length 3,8 mm	fixed focal length 3,6 mm	fixed focal length 3,6 mm	varifocal 3,8-9,5 mm	fixed focal length 2,9 mm	varifocal 3,8-9,5 mm
Horizontal angle of view	69°	68°	65°	69°	68°	74,2-30°	96,2°	74,2-30°
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-20°C ~ +50°C	0°C ~ +40°C	-20°C ~ +50°C
Vandalism resistant	no	no	no	no	no	no	no	no
PTZ support	no	no	no	no	no	no	no	no
Illumination	no	no	no	no	no	no	no	white light
Serial interfaces	no	no	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC, 24VAC
Protection rating	IP67	n/a	n/a	n/a	n/a	IP67	n/a	IP67
Comments								Illumination range: 10m

	VKC-1369 92558	VKC-1332/2.5SMD 92599	VKC-1332/3.6SMD 91987	VKC-1331 91978	VKC-144 91756	VKC-144/PH 91774
						
System	colour	colour	colour	colour	colour	colour
Imager	1/3" DPS (Pixim)	1/3" CCD	1/3" CCD	1/3" CCD	1/4" CCD	1/4" CCD
Horizontal resolution	540 TVL	470 TVL	470 TVL	380 TVL	380 TVL	380 TVL
Light sensitivity	0,75 Lux	0,5 Lux	0,5 Lux	0,64 Lux	0,58 Lux	0,7 Lux
IR cut filter	standard	standard	standard	standard	standard	standard
Digital noise reduction	yes	no	no	no	no	no
Backlight compensation	BLC	no	no	no	BLC	BLC
Wide Dynamic Range (WDR)	yes	no	no	no	no	no
Low speed shutter	yes	no	no	no	no	no
Activity detection	no	no	no	no	no	no
Digital zoom	no	no	no	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	fixed focal length 3,6 mm	fixed focal length 2,5 mm	fixed focal length 3,6 mm	fixed focal length 3,6 mm	fixed focal length 3,6 mm	fixed focal length 3,7 mm
Horizontal angle of view	69 °	88 °	69 °	69 °	52 °	51 °
Temperature range (operation)	-20°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +40°C	-10°C ~ +40°C
Vandalism resistant	no	no	no	no	no	no
PTZ support	no	no	no	no	no	no
Illumination	no	no	no	no	no	no
Serial interfaces	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC
Protection rating	n/a	IP20	IP20	IP67	n/a	n/a
Comments						Pinhole lens

	VK-1317S 91926	VK-1316S/12V 91931	VK-1316S/230V 91933	VK-1319 91866	VK-133 91746	VK-134 91747
						
System	black&white	black&white	black&white	black&white	black&white	black&white
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	600 TVL	570 TVL	570 TVL	420 TVL	420 TVL	420 TVL
Light sensitivity	0,75 Lux	0,1 Lux	0,1 Lux	0,23 Lux	0,58 Lux	0,58 Lux
IR cut filter	no	no	no	no	no	no
Digital noise reduction	no	no	no	no	no	no
Backlight compensation	no	BLC	BLC	no	no	no
Wide Dynamic Range (WDR)	no	no	no	no	no	no
Low speed shutter	no	no	no	no	no	no
Activity detection	no	no	no	no	no	no
Digital zoom	no	no	no	no	no	no
Video outputs	composite (VBS)	composite (VBS)	composite (VBS)	composite (VBS)	composite (VBS)	composite (VBS)
Lens	fixed focal length 3,8 mm	CS mount/Lens not included	CS mount/Lens not included	fixed focal length 3,6 mm	fixed focal length 3,8 mm	fixed focal length 3,6 mm
Horizontal angle of view	65°	n/a	n/a	69°	65°	69°
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
Vandalism resistant	no	no	no	no	no	no
PTZ support	no	no	no	no	no	no
Illumination	no	no	no	no	no	no
Serial interfaces	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC	12VDC	230VAC	12VDC	12VDC	12VDC
Protection rating	n/a	n/a	n/a	IP67	n/a	n/a

EDC-KBD1 74088	EDC-KBDM-3 74092	H0225M 40059	H02625M 40073	KBD-2 74149	KBD-NSC-100 74746	PM-42 73179	VHU-NT1 79494	VHU-NT2 79557	VKC-1343/WD1 92111
									
System Keyboard with 3-axis Joystick, 12VDC	System Keyboard w. Joystick, 5" Monitor 12VDC, Fastrax Protocol	F2.5/2.5mm Board Camera Lens, 1/3" M12X0.5	F2.5/2.6mm Board Camera Lens, 1/3" M12X0.5mm	System Keyboard with 3-Axis Joystick and Jog Shuttle, 12VDC	Network System Controller with 3-Axis Joystick and Jog Shuttle, 5VDC	Pole Mount Ad-apter, for Housing Series Candid, W3 Plug&Play	Power Supply Unit for Candid Housing 230VAC, 12VDC, 14VAC (Camera/ Heater)	Power Supply unit for Candid Housing Series 230VAC/2x 24VAC (Camera/ Heater)	Wall Mount Bracket for VKC-1343/IR
VKC-1356/AK 92556	VKCD-1410/KB 92192	W3 INST-KIT1 88148	WD-12-WA 70835	WD-12/E-WA 70834	WD-13-WA 70836	WD-13/E-WA 70833	WD-18 70688	WD-21/RAL9006 70697	WD-22 70769
									
Camera Connection Box, Weatherproof, for VKC-1356/IR, 100-240VAC/12VDC-2,5A	Remote Controller for VKCD-1410, VKC-1416(A)/IR and NTC-4101	Installation Kit for W3 Housings with Hidden Junction Boxes	Wall Mount with Ball Joint, 1/4" Camera Fixing Screw, 140mm, RAL9006	Wall Mount with Ball Joint, extendable, 1/4" Camera Fixing Screw, RAL9006	Ceiling Mount with Ball Joint, 1/4" Camera Fixing Screw, RAL9006	Ceiling Mount w. Ball Joint, extendable 1/4" Camera Fixing Screw, RAL9006	Wall Mount with Ball Joint, 1/4" Camera Fixing Screw, beige Grey	Wall Mount Bracket with Ball Joint, 1/4" Camera Fixing Screw, RAL9006	Wall Mount Bracket with Ball Joint, 1/4" Camera Fixing Screw, Beige Grey
WD-23 70771	WD-24 70772	WD-8/MK 71310	WD-9N 70023						
									
Wall Mount Bracket with Ball Joint, 1/4" Camera Fixing Screw, Pantone 877	Wall Mount with adjustable Swivel Head, 1/4" Camera Fixing Screw, Black Finish	Wall Mount with Swivel Head, 1/4" Camera Fixing Screw, Black Finish	Wall Mount with Ball Joint, 1/4" Camera Fixing Screw, Black Finish						

You have the choice with the latest eneo fixed domes

The right model for every application:
Fix-dome cameras with various feature options.



















You don't need the analysis functions offered by the VKCD-1375, but you are searching for a fixed dome camera with full equipment? Then the new VKCD-1331 and VKCD-1329/IR are just the right models for you. Fitted with a 1/3" Sony Progressive Scan High-Resolution Sensor they deliver a horizontal resolution of 600 TV lines (colour). An integral removable IR cut filter, backlight compensation (BLC), digital noise reduction (3D DNR) and digital image stabilisation (DIS) ensure outstanding picture quality in all lighting conditions. Naturally, the domes are vandalism-proof and have protection-rating IP66 for outside use without problems. A heater can be installed as an option. Whilst the








VKCD-1331 also features Wide Dynamic Range (WDR), the 850nm LEDs integrated in the VKCD-1329/IR 36 deliver an illumination range of approximately 36 meters.

ECONOMY DOME

The VKCD-1332SM/3.8 economy dome is the suitable choice if emphasis is placed on economy for the installed products. Despite its reasonable price, it features high precision detail, high-speed shutter control and backlight compensation (BLC) at a resolution of 600 TV lines. Its high light sensitivity gives the dome its day-and-night capability.

	VKCD-1375 92568	VKCD-1325-B/IR 92597	VKCD-1329/IR 92554	VKCD-1331-C 92561	VKCD-1331-T 92598	VKCD-1332SM/3.8 92571	VKCD-1333SM/49 92575	VKCD-1334- SM/210
								
			NEW					
System	day&night	day&night	day&night	day&night	day&night	day&night	day&night	day&night
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	650 TVL	600 TVL	600 TVL	600 TVL	600 TVL	600 TVL	600 TVL	600 TVL
Light sensitivity	0,1 Lux	0,1 Lux	0,15 Lux	0,22 Lux	0,22 Lux	0,2 Lux	0,15 Lux	0,15 Lux
IR cut filter	switchable	switchable	switchable	switchable	switchable	OLPF (Overlay Low Pass Filter)	OLPF (Overlay Low Pass Filter)	switchable
Digital noise reduction	yes	no	yes	yes	yes	no	yes	yes
Backlight compensation	BLC	no	BLC	BLC	BLC	BLC	BLC	BLC
Wide Dynamic Range (WDR)	yes	no	no	yes	yes	no	no	no
Low speed shutter	yes	no	yes	yes	yes	no	no	no
Activity detection	yes	no	yes	yes	yes	no	yes	yes
Digital zoom	2x ~ 256x, D-PTZ support	no	1x ~ 10x	1x ~ 10x	1x ~ 10x	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	varifocal 2,8-12 mm	varifocal 3,8-9,5 mm	varifocal 2,8-10,5 mm	varifocal 2,8-10,5 mm	varifocal 2,8-10,5 mm	fixed focal length 3,8 mm	varifocal 4-9 mm	varifocal 2,8-10,5 mm
Horizontal angle of view	81,2-22,6°	74,2-30°	81,2-25,8°	81,2-25,8°	81,2-25,8°	65°	71-31,6°	81,2-25,8°
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +45°C	-10°C ~ +45°C	-10°C ~ +50°C
Vandalism resistant	yes	yes	yes	yes	yes	no	no	no
PTZ support	no	no	no	no	no	no	no	no
Illumination	no	infrared	infrared	no	no	no	no	no
Serial interfaces	RS-485	no	no	no	no	no	no	no
Alarm Inputs/Outputs	-/1	-/-	-/1	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC, 24VAC	12VDC	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC	12VDC	12VDC
Protection rating/Colour (bubble)	IP66/clear	IP66/-	IP66/clear	IP66/clear	IP66/tinted	n/a/clear	n/a/clear	n/a/clear
Comments	Sony Super HAD II 960H Interline Transfer, Sony Effio DSP, extensive analysis functions	Intelligent IR illumination, illumination range: 15m	Illumination range: 35m					

	VKCD-1335SMH/VF 92577	VKCD-1416B 74228	VKCD-1324B/IR 92751	VKCD-1311FM/VF 92048	VKCD-1311SM/VF 92049	VKCD-1313FM/MF 92053	VKCD-1313SM/MF 92054	VKCD-1325/IR 92206
			 NEW	 NEW				
System	day&night	day&night	day&night	colour	colour	colour	colour	day&night
Imager	1/3" CCD	1/4" CCD	1/3" DPS (Pixim)	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	600 TVL	580 TVL	570 TVL	550 TVL	550 TVL	550 TVL	550 TVL	550 TVL
Light sensitivity	0,15 Lux	0,33 Lux	0,4 Lux	0,3 Lux	0,3 Lux	0,3 Lux	0,35 Lux	0,7 Lux
IR cut filter	switchable	switchable	switchable	standard	standard	standard	standard	switchable
Digital noise reduction	yes	yes	yes	no	no	no	no	no
Backlight compensation	BLC	BLC	no	BLC	BLC	BLC	BLC	no
Wide Dynamic Range (WDR)	no	yes	yes	no	no	no	no	no
Low speed shutter	no	yes	yes	no	no	no	no	no
Activity detection	yes	yes	yes	no	no	no	no	no
Digital zoom	no	1x ~ 16x	2 ~ 12x, D-PTZ support	no	no	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	varifocal 2,8-10,5 mm	22x/zoom 3,9-85,8 mm	varifocal 2,8-10 mm	varifocal 4-9 mm	varifocal 4-9 mm	fixed focal length 3,8 mm	fixed focal length 3,8 mm	varifocal 3,8-9,5 mm
Horizontal angle of view	81,2-25,8 °	49,5-3,9 °	81,2-27 °	71-31,6 °	71-31,6 °	74,2 °	74,2 °	74,2-30 °
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
Vandalism resistant	yes	yes	no	yes	yes	yes	yes	yes
PTZ support	no	no	yes	no	no	no	no	no
Illumination	no	no	infrared	no	no	no	no	infrared
Serial interfaces	no	RS-232, RS-485	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC, 24VAC	12VDC, 24VAC	12VDC, 24VAC	12VDC	12VDC	12VDC	12VDC	12VDC
Protection rating/Colour (bubble)	IP65/tinted	IP66/clear	IP66/clear	IP65/tinted	IP65/tinted	IP65/tinted	IP65/tinted	IP65/clear
Comments			Pixim Seawolf DSP, illumination range: 35m					Illumination range: 15m

	VKCD-1326/IR 92221	VKCD-134/HR 92207	VKCD-135/HR 92208	VKC-1327A/WDDG1 92166	VKC-1327A/WDDG2 92167	VKCD-1320SM/VF 92156	VKCD-13215FM/MF 92158	VKCD-1321SSM/MF 92159
								
System	day&night	colour	colour	day&night	day&night	colour	colour	colour
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	550 TVL	550 TVL	550 TVL	540 TVL	540 TVL	540 TVL	540 TVL	540 TVL
Light sensitivity	1,5 Lux	0,5 Lux	0,5 Lux	0,5 Lux	0,5 Lux	0,2 Lux	0,84 Lux	0,84 Lux
IR cut filter	switchable	standard	standard	switchable	switchable	standard	standard	standard
Digital noise reduction	yes	no	no	no	no	no	no	no
Backlight compensation	BLC	no	no	BLC	BLC	BLC	BLC	BLC
Wide Dynamic Range (WDR)	no	no	no	no	no	no	no	no
Low speed shutter	yes	no	no	no	no	no	no	no
Activity detection	no	no	no	no	no	no	no	no
Digital zoom	no	no	no	no	no	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	varifocal 3,8-9,5 mm	fixed focal length 3,7 mm	fixed focal length 3,7 mm	varifocal 3,8-9,5 mm	varifocal 3,8-9,5 mm	varifocal 2,8-10 mm	fixed focal length 3,6 mm	fixed focal length 3,6 mm
Horizontal angle of view	74,2-30 °	68 °	68 °	74,2-30 °	74,2-30 °	82-27 °	68 °	68 °
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
Vandalism resistant	yes	no	no	yes	yes	no	yes	yes
PTZ support	no	no	no	no	no	no	no	no
Illumination	infrared	no	no	no	no	no	no	no
Serial interfaces	no	no	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC	12VDC	12VDC	12VDC, 24VAC	12VDC, 24VAC	12VDC	12VDC	12VDC
Protection rating/Colour (bubble)	IP65/tinted	n/a/-	n/a/-	IP65/clear	IP65/clear	n/a/clear	IP66/clear	IP66/clear
Comments	Illumination range: 20m							

	VKCD-1327WFM/MF 92289	VKCD-1327WSM/MF 92291	VKCD-1328WFM/MF 92539	VKCD-1328WSM/MF 92541	VKCD-1337/IR 92696	VKCD-1322 92162	VKCD-1322-2811 92219
					NEW		
System	day&night	day&night	day&night	day&night	day&night	day&night	day&night
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Horizontal resolution	540 TVL	540 TVL	540 TVL	540 TVL	540 TVL	530 TVL	530 TVL
Light sensitivity	0,06 Lux	0,06 Lux	0,16 Lux	0,16 Lux	0,24 Lux	0,16 Lux	0,16 Lux
IR cut filter	OLPF (Overlay Low Pass Filter)	OLPF (Overlay Low Pass Filter)	switchable	switchable	OLPF (Overlay Low Pass Filter)	OLPF (Overlay Low Pass Filter)	OLPF (Overlay Low Pass Filter)
Digital noise reduction	no	no	no	no	no	yes	yes
Backlight compensation	BLC	BLC	BLC	BLC	BLC	BLC	BLC
Wide Dynamic Range (WDR)	no	no	no	no	no	no	no
Low speed shutter	no	no	no	no	no	yes	yes
Activity detection	no	no	no	no	no	yes	yes
Digital zoom	no	no	no	no	no	no	no
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	fixed focal length 3,7 mm	fixed focal length 3,7 mm	fixed focal length 3,7 mm	fixed focal length 3,7 mm	varifocal 4-9 mm	varifocal 4-9 mm	varifocal 2,8-11 mm
Horizontal angle of view	67°	67°	67°	67°	71-31,6°	71-31,6°	96,7-24,1°
Temperature range (operation)	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
Vandalism resistant	yes	yes	yes	yes	yes	yes	yes
PTZ support	no	no	no	no	no	no	no
Illumination	no	no	no	no	infrared	no	no
Serial interfaces	no	no	no	no	no	no	no
Alarm Inputs/Outputs	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Supply voltage	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC
Protection rating/Colour (bubble)	IP66/clear	IP66/clear	IP66/clear	IP66/clear	IP66	IP66/clear	IP66/clear
Comments					Illumination range: 15~25m		

The fourth Generation









EDC-4222 and EDC-4362 PTZ domes from the successful Fastrax Series with extensive analysis functions

Following on from the VKC-1375 Boxed Camera and VKCD-1375 Fixed Dome, the fourth generation of eneo Fastrax Domes also brings extensive analysis functions to analogue video surveillance – and this is fully without any software as the functions are implemented directly in the domes themselves. The analysis functions include of course motion detection and tracking, but also functions such as Left Luggage Recognition which alerts security personnel automatically when, for instance, an object such as a suitcase has been “forgotten” in an airport terminal and is no longer moved. Museum Mode operates in exactly the opposite way: it triggers an alarm when an object has been moved out of a defined image area, such as a

picture in an art museum. The “Mine Area” function gives the alarm when, for instance, a person goes into a security zone where entry is forbidden. “Trip Wire” can position a virtual trip wire at a barrier or building entrance: when this line is crossed an alarm is triggered and automatic PTZ tracking activated.

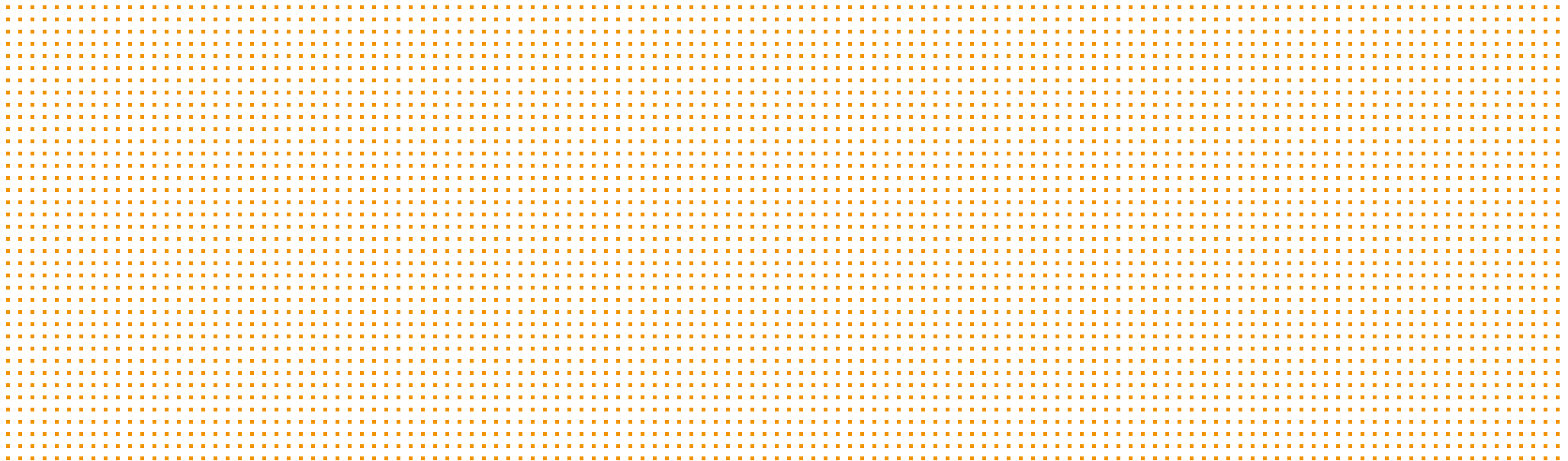
Are there any more new features compared to Fastrax III? Electronic Digital Image Stabilisation (DIS) must be mentioned here: it compensates for dome movement, caused by wind in outside installations for instance. And also the extensive options for time, date and function planning which specify exactly when and when not selected analysis functions are switched.



	EDC-4362 74224	EDC-3351 74159	EDC-3222 74193	EDC-4222 74223	EDCH-143E/C 74222	EDCH-143E/C-AKS 74141	EDMC-3221 74225	EDMC-3221/E 74230
								
	NEW		NEW	NEW	NEW		NEW	NEW
System	day&night	day&night	day&night	day&night	day&night	day&night	day&night	day&night
Imager	1/4" CCD	1/4" CCD	1/4" CCD	1/4" CCD	1/4" CCD	1/4" CCD	1/4" CCD	1/4" CCD
Horizontal resolution	540TVL	540TVL	580TVL	580TVL	580TVL	580TVL	580TVL	580TVL
Light sensitivity	0,3 Lux	0,6 Lux	1,0 Lux	0,29 Lux	0,38 Lux	0,38 Lux	0,33 Lux	0,33 Lux
IR cut filter	switchable	switchable	switchable	switchable	switchable	switchable	switchable	switchable
Digital noise reduction	no	no	yes	yes	yes	yes	yes	yes
Backlight compensation	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC
Wide Dynamic Range (WDR)	yes	yes	yes	yes	yes	yes	yes	yes
Low speed shutter	yes	yes	yes	yes	yes	yes	yes	yes
Activity detection	yes	yes	yes	yes	yes	yes	yes	yes
Digital zoom	12x	12x	16x	16x	16x	16x	16x	16x
Video outputs	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)
Lens	36x zoom 3,4-122,4 mm	35x zoom 3,4-119 mm	22x zoom 3,9-85,8 mm	22x zoom 3,9-85,8 mm	22x zoom 3,9-85,8 mm	22x zoom 3,9-85,8 mm	22x zoom 3,9-85,8 mm	22x zoom 3,9-85,8 mm
Horizontal angle of view	57,8-1,7 °	55,8-1,7 °	49,5-2,46 °	49,5-2,4 °	47-2,6 °	49,5-2,4 °	44,6-3,2 °	44,6-3,2 °
Temperature range (operation)	0°C ~ +50°C	0°C ~ +50°C	0°C ~ +50°C	0°C ~ +50°C	-45°C ~ +50°C	-45°C ~ +50°C	-10°C ~ +50°C	-30°C ~ +50°C
Vandalism resistant	no	no	no	no	yes	yes	yes	yes
Serial interfaces	RS-485, RS-422	RS-422, RS-485	RS-422, RS-485	RS-485, RS-422	RS-485	RS-485	RS-485	RS-485
Alarm Inputs/Outputs	8/4	8/4	8/4	8/4	4/1	1/1	1/1	1/1
Rotation range	360°	360°	360°	360°	360°	360°	360°	360°
Speed (manual)	380°/Sek.	380°/Sek.	380°/Sek.	380°/Sek.	380°/Sek.	380°/Sek.	380°/Sek.	380°/Sek.
Speed (Preset)	380°/Sek.	380°/Sek.	380°/Sek.	360°/Sek.	380°/Sek.	380°/Sek.	380°/Sek.	380°/Sek.
Supply voltage	24VAC	24VAC	24VAC	24VAC	24VAC	230VAC	12VDC, 24VAC	12VDC, 24VAC
Protection rating/Colour (bubble)	n/a/clear	n/a/clear	n/a/clear	n/a/clear	IP66/clear	IP66/clear	IP66/clear	IP66/clear
Comments	GUI for Fastrax menu, analytics, time/date/function scheduling, day&night threshold, Coaxitron, DIS			GUI for Fastrax menu, analytics, time/date/function scheduling, day&night threshold, Coaxitron, DIS		Wall bracket not included	With power & connection box and wall bracket	With large temperature range

1/2" - M25X1.5 88189	3/4" - M25X1.5 88149	EDC-AKS1 74125	EDC-AKS1/MP 74138	EDC-AKS2 74163	EDC-CMA2 74054	EDC-CMA3 73155	EDC-CMT1 74128	EDC-COAX 74094	EDC-CR1 74089
									
Thread Adapter 1/2" - Conduit Connection M25x1.5mm for VKCD-131x Housings	Thread Adapter 3/4" - Conduit Connection M25x1.5mm for Dome Surface Mount Housing	Power&Connection Box with Mounting Bracket for In/Outdoor, 230V-24VAC/3.0A	Adapter Plate for Fixation of EDC-AKS1 to EDC-PM7 or EDC-CMA2	Power&Connection Box with Connection Cable 3.5m, In/Outdoor, 230V-24VAC/3.0A	Corner Mount Adapter for EDC-IPx1/OPx1 Housings and Wall Bracket EDC/WMB1	Corner Mount Adapter for Fastrax Wall Bracket EDC-WMB1, Steel Metal	Ceiling Mount Tube with Flange Plate for EDC(H) Dome Cameras with Mounting Kit	Coax Telemetry Board for VPT-501/601, EDC/EDMC Series assembled	Converter RS-232/RS-485, Repeater RS-485
EDC-IDFSW 74154	EDC-IPC-2/24V 74135	EDC-IPS-2/24V 74134	EDC-KBD J-BOX 74219	EDC-KBD1 74088	EDC-KBDM-3 74092	EDC-OPC-2/24V 74130	EDC-OPS-2/24V 74136	EDC-OPX/IPX-CC1 74143	EDC-PBP 74095
									
Flush Mount Dome Housing, White Trimming Smoked Bubble 6.8"	Pendant Mount In-door Dome Housing with Clear Bubble 6.5", 24VAC	Pendant Mount In-door Dome Housing with Tinted Bubble 6.5", 24VAC	Junction Box for EDC-KBD1, EDC-KBDM-3, KBD-2 Series	System Keyboard with 3-axis Joystick, 12VDC	System Keyboard w. Joystick, 5" Monitor 12VDC, Fastrax Protocol	Pendant Mount Outdoor Dome Housing, Sun Shield, Clear Bubble 6.5", 24VAC	Pendant Mount Outdoor Dome Housing with Sunshield, Tinted Bubble 6.5", 24VAC	Connection cable for EDC-xxx-2 Fastrax III, Standard Domes in In/Outdoor Housing	Protocol Converter BiPhase to RS-422, RS-485 for EDC Dome Cameras, 12VDC
EDC-PM7 74055	EDC-RTB2 74140	EDC-WMB1 74127	EDMC-RTB 74107	EDMC/CWB-1 74155	EDMC/H12 74099	EDMC/H24 74104	FASTRAX_CONFIG 74124	IRCAM/CB1 92209	IRCAM/WB2 92168
									
Pole Mount Adapter for EDC-IPx1/OPx1 Housings and Wall Bracket EDC/WMB1	Pole & Roof Mount Bracket for Fastrax 2 outdoor Housings & EDCH	Wall Mount for EDC(H) Dome Cameras with Mounting Kit	Roof Mount Bracket for Minitrax Camera Series, Outdoor Installation	Wall or Pendant Mount Kit f. Dome Camera Series EDMC, NTD, NLD, NXD & VKCD-1375	Low Voltage Heater Kit 12V/10W for Minitrax Series, NLD-1401, NXD-130x/140x	Low Voltage Heater Kit 24V/10W for EDMC- 142, VKCD-1410, NLD-1401, NXD-130x/140x	Configuration Software for Eneo Fastrax, Minitrax Dome Cameras and VKC-1416	Ceiling Mount Kit for VKCD-1322 and VKC-1324/IR	Wall Mount Kit for VKCD-1322 and VKCD-1324/IR

<p>KBD-2 74149</p>	<p>KBD-NSC-100 74746</p>	<p>VDOME/HB-K1 92565</p>	<p>VDOME/WB2 74151</p>	<p>VDOME/WB3 92557</p>	<p>VDOME/WB4 92562</p>	<p>VDOME/WEDGE1 92563</p>	<p>VKCD-1320/DUMMY 92153</p>	<p>VKCD-1323/IR-KB 92165</p>	<p>VKCD-1324/IR-MC 92389</p>
									
<p>System Keyboard with 3-Axis Joystick and Jog Shuttle, 12VDC</p>	<p>Network System Controller with 3-Axis Joystick and Jog Shuttle, 5VDC</p>	<p>Heater & Blower Kit 24VAC for VKCD-1329/IR and VKCD-1331</p>	<p>Wall Mount Kit for Vandalism Resistant Dome Cameras SM/ VF Series</p>	<p>Wall Mount Kit for VKCD-1325/IR</p>	<p>Wall Mount Kit for VKCD-1329/IR and VKCD-1331</p>	<p>Wedge Mount Kit for VKCD-1329/IR and VKCD-1331</p>	<p>Dummy camera (VKCD-1320 Series)</p>	<p>External Remote Control Board for VKCD-1323/IR</p>	<p>Spot Monitor Cable for VKCD-1324/IR</p>
<p>VKCD/WMB-1 91805</p>	<p>VKCD/WMB-2SW 92047</p>	<p>WDDG2/H12 71664</p>							
									
<p>Wall Mount for VKD-136, VKCD-143, VKCD-144/HR</p>	<p>Wall Mount Bracket, Black, for VKCD-1320SM/VF</p>	<p>Low Voltage Heater Kit 12V/8W for WDDG-2 housing</p>							



27	Lenses
31	Housings
36	Pan & Tilt Systems
39	Lighting

	C0814MV-MP 42039	C2514M 43015	C5018M 43029	B1614MV-MP 42003	B5028MV-MP 42008	B2514MV-MP 42005	A0314M1 43071	A1214M1 43067
								
Nominal format size	1"	1"	1"	2/3"	2/3"	2/3"	1/2"	1/2"
Day&Night	no	no	no	no	no	no	no	no
Megapixel	yes	no	no	yes	yes	yes	no	no
Aperture range (F)	F1,4~F16	F1,4~C	F1,8~C	F1,4~F16	F2,8~F22	F1,4~F16	F1,4~C	F1,4~C
Focal length	8mm	25mm	50mm	16mm	50mm	25mm	3,5mm	12mm
Horizontal angle of view	79,7°	27°	14,8°	30°	9,6°	19,6°	103,6°	30°
Iris control	manual	manual	manual	manual	manual	manual	manual	manual
Mount	C	C	C	C	C	C	C	C
MOD	0,1m	0,5m	1,0m	0,26m	0,2m	0,2m	0,2m	0,3m
Filter screw size	M55x0.75mm	M43x0.75mm	M40.5x0.5mm	M25.5x0.5mm	M27x0.5mm	M27x0.5mm	M30.5x0.5mm	M30.5x0.5mm

	F0412M-NFS 47157	F0612M-NFS 47158	G1214NDDC 47128	F0612NDDC-NFS 47149
				
Nominal format size	1/3"	1/3"	1/2"	1/3"
Day&Night	no	no	no	no
Megapixel	no	no	no	no
Aperture range (F)	F1,2~C	F1,2~C	F1,4~F125	F1,2~F260
Focal length	4mm	6mm	12mm	6mm
Horizontal angle of view	65,6°	46,5°	30,4°	46,5°
Iris control	manual	manual	DC	DC
Mount	CS	CS	CS	CS
MOD	0,2m	0,2m	0,3m	0,2m
Filter screw size	not available	not available	not available	not available

	G04Z02M 43131	G04Z03M-NFS 43252	A10Z04M-NFS 43269	F02Z02M 43198	F03Z04M 43212	F03Z2.6M-NFSHR 43275	F05Z10M 43195	G04Z02NDDC 43133
								
						NEW		
Nominal format size	1/2"	1/2"	1/2"	1/3"	1/3"	1/3"	1/3"	1/2"
Day&Night	no	yes	yes	no	no	yes	no	no
Megapixel	no	no	no	no	no	no	no	no
Aperture range (F)	F1,8~C	F1,2~F16 (C)	F1,4~C	F1,6~C	F1,4~C	F1,0~C	F1,4~C	F1,8~F125
Focal length	4-10 mm	4,5-12,5 mm	10-40 mm	1,8-3,6 mm	2,8-12 mm	3-8 mm	5-50 mm	4-10 mm
Horizontal angle of view	94,8-37,8°	83,7-30,1°	37,5-9,2°	144,2-79,4°	97,4-24,1°	92,5-35,4°	53,6-5,6°	94,8-37,8°
Iris control	manual	manual	manual	manual	manual	manual	manual	DC
Mount	CS	CS	C	CS	CS	CS	CS	CS
MOD	0,3m	0,3m	0,5m	0,2m	0,3m	0,3m	1,0m	0,3m
Filter screw size	not available	not available	not available	not available	not available	not available	not available	not available

	A04Z12NDDC-NFS 43248	G04Z03NDDC-NFS 43251	A09Z10DC-NFS-MP 43266	A10Z04NDDC-NFS 43239	F02Z02NDDC 43199	F03Z04NDDC 43213	F03Z04NDDC-NFS 43237	F03Z2.6DC-NFSHR 43274
								
								NEW
Nominal format size	1/2"	1/2"	1/2"	1/2"	1/3"	1/3"	1/3"	1/3"
Day&Night	yes	yes	yes	yes	no	no	yes	yes
Megapixel	no	no	yes	no	no	no	no	no
Aperture range (F)	F1,2~F250	F1,2~F260	F1,8~F360	F1,4~F250	F1,6~F360	F1,4~F270	F1,4~F260	F1,0~F360
Focal length	4-12 mm	4,5-12,5 mm	9-90 mm	10-40 mm	1,8-3,6 mm	2,8-12 mm	2,8-11 mm	3-8 mm
Horizontal angle of view	93,7-31,2°	83,7-30,1°	41,1-4,2°	37,5-9,2°	144,2-79,4°	97,4-24,1°	97,4-26,2°	92,5-35,4°
Iris control	DC	DC	DC	DC	DC	DC	DC	DC
Mount	C	CS	C	C	CS	CS	CS	CS
MOD	0,3m	0,3m	0,3m	0,5m	0,2m	0,3m	0,3m	0,3m
Filter screw size	not available	not available	M43x0.75mm	not available	not available	not available	not available	not available

F04Z0310NDDC
43214



F05Z10NDDC
43196



F05Z1013NDDC
43242



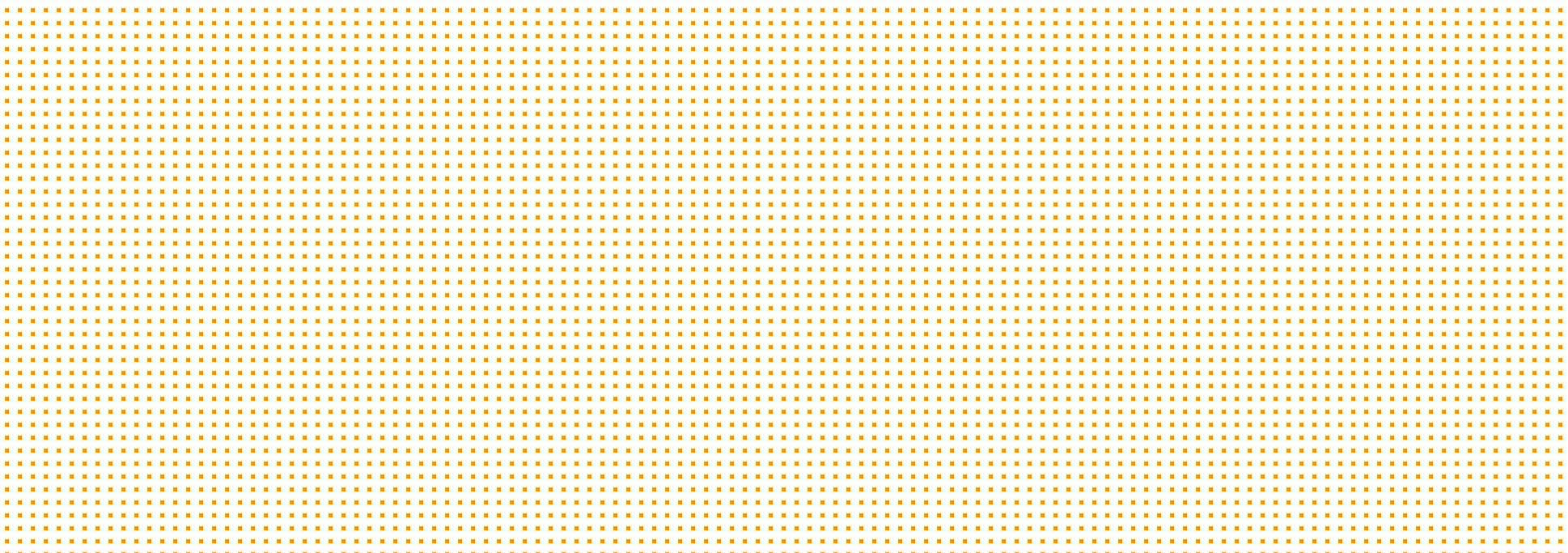
F07Z07NDDC-NFS
43249



F20Z05NDDC
43247



Nominal format size	1/3"	1/3"	1/3"	1/3"	1/3"
Day&Night	no	no	no	yes	no
Megapixel	no	no	no	no	no
Aperture range (F)	F1,0~F260	F1,4~F260	F1,3/F1,9~F160	F1,3~F240	F1,6~F270
Focal length	3,5-10,5 mm	5-50 mm	5-50 mm	7,5-50 mm	20-100 mm
Horizontal angle of view	81,6-27,2 °	53,6-5,6 °	53,8-4,2 °	36,6-5,64 °	14-2,8 °
Iris control	DC	DC	DC	DC	DC
Mount	CS	CS	CS	CS	CS
MOD	0,3m	1,0m	0,3m	0,4m	1,0m
Filter screw size	not available	not available	not available	not available	not available





	B18Z06MA1 47144	A07Z16NDDC-MP 40242	A08Z08NDDC 47422	A08Z08NDDCPO 47423	A08Z06NDDCPO 40229	F06Z10NDDCPO 40239	F06Z10NDDC-1 41114	F06Z08NDDC 47419
								
		NEW						
Nominal format size	2/3"	1/2"	1/2"	1/2"	1/2"	1/3"	1/3"	1/3"
Day&Night	no	no	no	no	no	no	no	no
Megapixel	yes	yes	no	no	no	no	no	no
Aperture range (F)	F2,5~C	F1,6 ~ F360	F1,6~F250	F1,6~F250	F1,2~F360	F1,6~F360	F1,4~F190	F1,2~F250
Focal length	18-108 mm	7,5-127 mm	8-64 mm	8-64 mm	8,5-51 mm	6-60 mm	6-60 mm	6-48 mm
Horizontal angle of view	34°	45,6°	44°	44°	40,8°	44,2°	43,4°	44,3°
Iris control	manual	DC	DC	DC	DC	DC	DC	DC
Mount	C	C	C	C	C	CS	CS	CS
Nominal format size	2/3"	1/2"	1/2"	1/2"	1/2"	1/3"	1/3"	1/3"
MOD	0,1m	1,5m	1,0m	1,0m	1,0m	1,2m	1,3m	1,0m
Filter screw size	M52x0.75mm	not available	M49x0.75mm	M49x0.75mm	M46x0.75mm	M55x0.75mm	M52x0.75mm	M49x0.75mm

2X-EX/C 41231	C/CS RING-AL 43106	EXT-TUB 42160	GFG/50 88154	IR FILTER 830 43107
				
Focal Extender 2x, C Mount	Adapter Ring, C/CS Mount, Aluminium anodized	Set of Macro Tubes, 0.5/ 1/ 5/ 10/ 20/ 40mm Length, C/CS Mount	Athermal Filter Glas, 50x2.5mm	Infrared Pass Filter 830nm, 40.5x0.5

	EHL-W/ECLKA 79653	EHL-W/ECLKB 79654	ESH-10 79628	ESH-20 79625	VHM/DP-ECL210-W 79673	VHM/ECLKA-210-W 79675	VHM/ECLKA-KIT1W 79686	VHM/ECLKA-W 79674
Housing material	aluminium	aluminium	stainless steel	stainless steel	aluminium	aluminium	aluminium	aluminium
Colour	RAL9002	RAL9002	metal look, matt etched	metal look, matt etched	RAL9016	RAL9016	RAL9016	RAL9016
Protection rating	IP66	IP66	IP68	IP68	IP66	IP66	IP66	IP66
Integrated wall mount	no	no	no	no	no	no	no	no
Clear Shield	no	no	no	no	yes	yes	yes	yes
Window heater	yes, 100~240V/40W (PTC)	yes, 12~24V/20watts (PTC)	optional	no	no	yes, 110~265VAC/9watts (PTC)	yes, 110~265VAC/9watts (PTC)	yes, 110~265VAC/9watts (PTC)
Blower/Wiper	optional/no	optional/no	no/no	no/no	no/no	no/no	no/no	no/no
Sunshield	yes	yes	no	no	no	yes	yes	yes
Hidden cable management	no	no	no	no	no	no	yes	optional
Usable length	252 mm	252 mm	342 mm	320 mm	210 mm	210 mm	330 mm	330 mm
Comments							With wall bracket, plug-in shield	

	VHM/ECLKB-210-W 79677	VHM/ECLKB-KIT1W 79687	VHM/ECLKB-W 79676	VHM/STLA-W 79678	VHM/STLB-W 79679	VHM/ZLA-W 79681	VHM/ZLB-W 79682	VHM/ZLKB-W 79683
Housing material	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium
Colour	RAL9016	RAL9016	RAL9016	RAL9016	RAL9016	RAL9016	RAL9016	RAL9016
Protection rating	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Integrated wall mount	no	no	no	no	no	no	no	no
Clear Shield	yes	yes	yes	yes	yes	yes	yes	yes
Window heater	yes, 12~30V/9watts (PTC)	yes, 12~30V/9watts (PTC)	yes, 12~30V/9watts (PTC)	yes, 110~265VAC/9watts (PTC)	yes, 12~30V/9watts (PTC)	yes, 110~265VAC/9watts (PTC)	yes, 24V (12V), 6watts	yes, 24V (12V), 6watts
Blower/Wiper	no/no	no/no	no/no	no/no	no/no	no/no	no/no	no/no
Sunshield	yes	yes	yes	yes	yes	yes	yes	yes
Hidden cable management	no	yes	optional	optional	optional	no	no	no
Usable length	210 mm	330 mm	330 mm	330 mm	330 mm	330 mm	330 mm	330 mm
Comments		With wall bracket and plug-in shield				30 pin central plug connection	30 pin central plug connection	30 pin central plug connection

	VHU-165/12V 79466	VHU-165/24V 79549	VHU-260/12V 79467	VHU-260/230V 79493	VHU-260/24V 79552	VHU/DP-165 79481	VHU/DP-260 79482	VTL-D/N2 79485
								
Housing material	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium
Colour	RAL9016	RAL9016	RAL9016	RAL9016	RAL9016	RAL9016	RAL9016	silver grey
Protection rating	IP66/67	IP66/67	IP66/67	IP66/67	IP66/67	IP54	IP54	IP66
Integrated wall mount	yes	yes	yes	yes	yes	yes	yes	no
Clear Shield	no	no	no	no	no	no	no	no
Window heater	yes, 12V / 7watts	yes, 24V / 7watts	yes, 12V / 7watts	yes, 230V	yes, 24V / 7watts	no	no	optional
Blower/Wiper	no/no	no/no	no/no	no/no	no/no	no/no	no/no	optional/no
Sunshield	yes	yes	yes	yes	yes	no	no	no
Hidden cable management	yes	yes	yes	yes	yes	yes	yes	no
Usable length	165 mm	165 mm	260 mm	260 mm	260 mm	165 mm	260 mm	300 mm
Comments								Ceiling mount bracket included

	VTL-DPW 79489	VTL-W/N2 79484	VTL-WWA 79488	VTL-WWA-BL 79717	VTL-WWD 79644
					
				NEW	
Housing material	aluminium	aluminium	aluminium	aluminium	aluminium
Colour	RAL9002	silver grey	RAL9002	RAL9002	RAL9002
Protection rating	IP66	IP66	IP66	IP66	IP66
Integrated wall mount	yes	no	yes	yes	yes
Clear Shield	no	no	no	no	no
Window heater	optional	yes, 100~240V/40W (PTC)	yes, 100~240V/40W (PTC)	yes, 100~240V/40W (PTC)	yes, 12~24V/20watts (PTC)
Blower/Wiper	optional/no	optional/no	optional/no	yes/no	optional/no
Sunshield	no	yes	yes	yes	yes
Hidden cable management	yes	no	yes	yes	yes
Usable length	300 mm	300 mm	300 mm	300 mm	300 mm
Comments	Wall bracket included	Wall bracket not included	Wall bracket included	Wall bracket included	Wall bracket included

FOR BOARD CAMERAS

EMG-1 71497	WDDG-1 71493	WDDG-2 71494	WDG-1 71492
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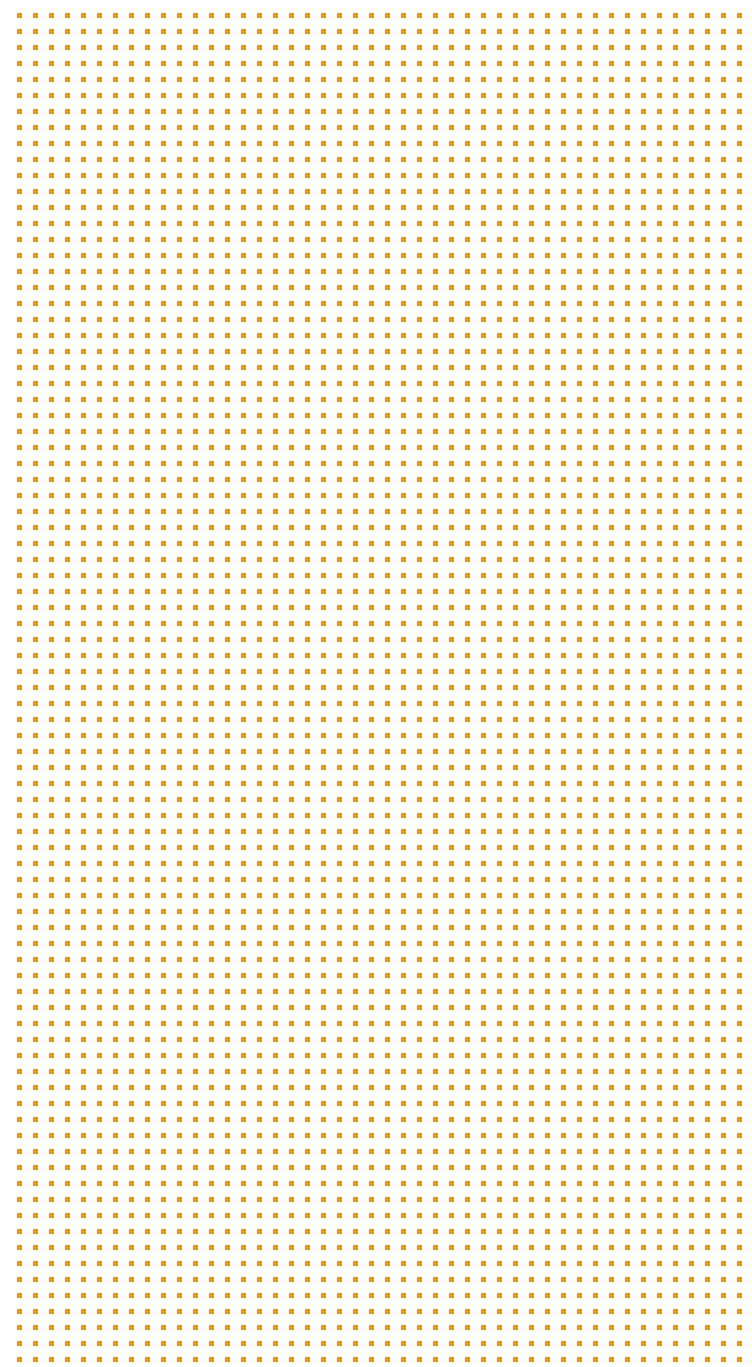
Colour (housing)	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C
Colour (bubble)	-	clear	clear	-
Housing	indoor	indoor	outdoor	indoor
Housing material	aluminium	aluminium	aluminium	aluminium
Heater	no	no	optional	no
Mounting	corner mount	wall mount	wall mount	wall mount
Protection rating	IP65	IP65	IP65	IP65
Vandalism resistant	yes	yes	yes	yes






























FOR DOMES

EDC-IPC-2/24V 74135	EDC-IPS-2/24V 74134	EDC-OPC-2/24V 74130	EDC-OPS-2/24V 74136
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Colour (housing)	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C	Pantone Cool Gray 1C
Colour (bubble)	clear	tinted	clear	tinted
Housing	indoor	indoor	outdoor	outdoor
Housing material	aluminium	aluminium	aluminium	aluminium
Heater	yes	yes	yes	yes
Camera fixing	dome	dome	dome	dome
Mounting	wall or ceiling pendant mount	wall or ceiling pendant mount	wall or ceiling pendant mount	wall or ceiling pendant mount
Protection rating	IP66	IP66	IP66	IP66
Vandalism resistant	no	no	no	no

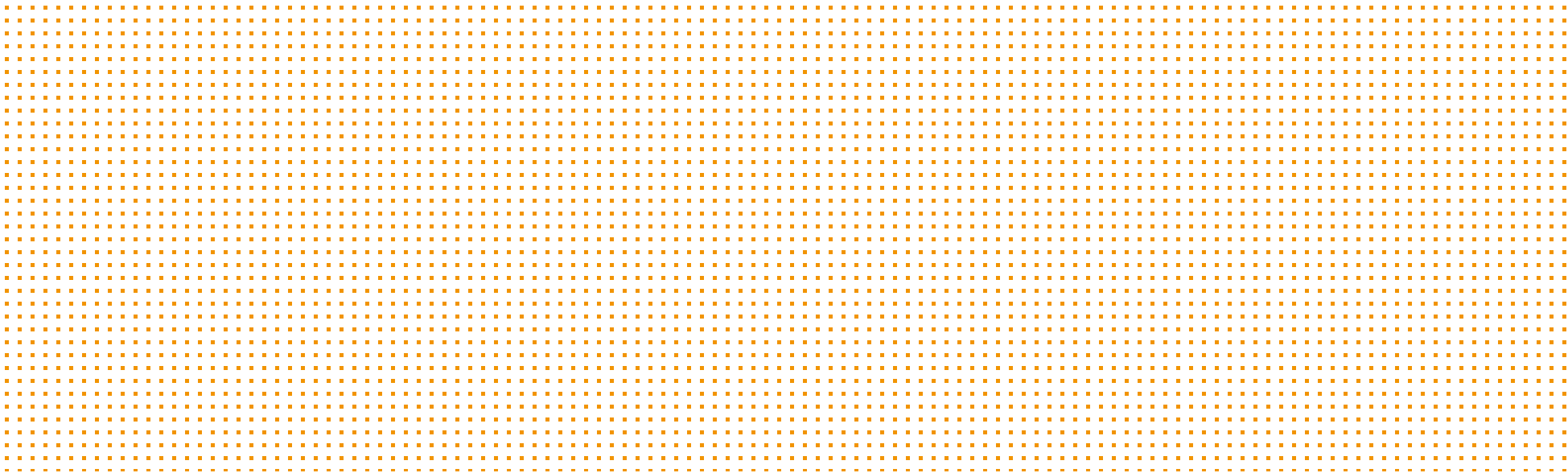


CMA-11 73137	CMA-2 79613	DH-5-W 73176	DNK 79350	EHL-BLS/12VDC 79665	EHL-BLS/230V 79664	ESH-1/WB 79716	ESH-20/AB 79666	ESH/AIR FILTER 79632	ESH/CB 79656
									
Corner Mount Adapter for Wall Brackets WD-2N1, RAL7032	Corner Mount Adapter for Wall Brackets WD-5, WD-7, VTL-WW, VHK-WW, RAL9002	Ceiling Bracket with adjustable Housing Mount Angle, RAL9016	Swivel Head, black	Blower Kit 230V/50Hz with Thermostat for EHL-W/ECLKB Housing, 12VDC	Blower Kit 230V/50Hz with Thermostat for EHL-W/ECLKA Housing, 230VAC	Wall Mount with Swivel Head, for ESH Housing Series, AISI 316	Air Barrier Flange for Stainless Steel Housing ESH-20	Air Filter for ESH-20 Stainless Steel Housing	Ceiling Mount Bracket with Swivel Head for ESH Housing Series, AISI 316
ESH/HT100-240 79634	ESH/HT12-24 79633	ESH/NE12VDC 79635	ESH/NE24VAC 79636	ESH/PM 79655	ESH/SH 79631	GK-2/N1 73136	MCAB-1 87404	MK-5-W 73173	NE-115/24V 79704
									
PTC Window Heater 100-240VAC for ESH-10 Housing Series w. Thermostat	PTC Window Heater 12-24V for ESH-10 Housing Series w. Thermostat	Power Supply Unit 230V0/12VDC (400mA) for ESH Housing Series	Power Supply Unit 230V/24VAC (400mA) for ESH Housing Series	Pole Mount Kit for ESH/WB, AISI 316, ESH Housing Series	Sunshield for ESH-10 Stainless Steel Housing, AISI 316L	Swivel Head for WD-2N1, MK-1N1 and MK-21 RAL7032	Camera/PT Head Connecting Cable, for Video, Power, RS-Control, Network, 1m	Pole Mount Bracket & Swivel Head for Weatherproof Housings, RAL9002	Power Supply Unit 230V/24VAC (400mA) for Housing Series VTL
PM-41 73146	PM-42 73179	PM-51-W 73166	PM-6D 79593	PM-6S 79592	POE INJECTOR-01 79707	PTB-1 72501	SU-6 79604	VHM/H220 71301	VHM/H24 71601
									
Pole Mount Adapter for Housing Series Candid, RAL7035	Pole Mount Adapter, for Housing Series Candid, W3 Plug&Play	Pole Mount Kit for WD-16/MK-W, RAL9016	Pole Mount Adapter for 2 Wall Mounts, (50-140mm Pole), RAL9002	Pole Mount Adapter for 1 Wall Mount, (50-140mm Pole), RAL9002	Single Channel PoE Injector, 230VAC	Protocol Translator Board, 12VDC for Build-in VHM/ST Housing Series	Camera Height Adjustment Kit for VHK and EHL Housings (3 Diff. Slides and Screws)	VHM Window Heater 110-265VAC (PTC Element)	VHM Window Heater 12-30V (PTC Element)

VHM/H24WID 71602	VHM/KV1 79609	VHM/KV2 79627	VHM/KVS2 79612	VHM/PC-1-LG 79696	VHM/TH2 79281	VHM/Z KIT 79615	VHM/ZB-VPT055LG 79697	VHU-AKS/12-24V 79499	VTL-BL-230V 77345
VHM Resistor Low Voltage Heater 24V/6W, interchangeable to 12V	Cable Connection Board with Thermostat for VHM/Z Housing	Cable Connection Board with Thermostat for VHM Housing, „EC“ Series	Cable Connection Board w. Thermostat and Fuse for VHM Housing, „EC“ Series	Plug-in shield for VHM/EC&ST Housing Series, 330mm, RAL7035	Thermostat Switch for VHM Housing	Modification Kit for VHM-EC Housing Series to Plugable Central Connection	Connection Cable 0.55m, VHM/ZLB to VPT-501, VPT-601	Connecting Cable Set 12VDC/24VAC/Video for Candid Housing	Blower, with Thermostat 230V, for VTL-WWA housing

NEW

WD-15/MK 73013	WD-16/MK-KG 73178	WD-16/MK-W 73177	WD-2N/MK1 73151	WD-5/MK 79750	WD-7/MK 79790	WD-7/MK-GW 79793
Wall Mount with Swivel Head for Weatherproof Housings, black	Wall Mount with Swivel Head for VHM Weatherproof Housings, RAL7032	Wall Mount with Swivel Head for VHM Weatherproof Housings, RAL9016	Wall Bracket with Swivel Head, RAL 7032	Wall Mount with Swivel Head for weatherproof Housing, black	Wall Mount with Swivel Head for VTL Series Outdoor Housings, black	Wall Mount with Swivel Head for Outdoor Housings, RAL9002



Over 50,000 systems in use globally

The eneo pan/tilt head with the successful product tradition: concealed cabling, continuous rotation and flexibility




The eneo pan/tilt head ties in with the successful product tradition: so far, more than 50,000 systems are in use around the world, reliably carrying out their work even in adverse weather conditions. The VPT-500/600 pan & tilt system changes position three times as fast as the VPT-40 and, depending on the version, scores with its concealed cabling, continuous rotation and flexibility. The P/T head can be optionally operated using existing housing types or as a complete system with an integrated VHM housing. In the top version (VPT-600 series), the base and concealed cabling have been seamlessly integrated into the elegant VPT design concept. The horizontal speed of rotation is 100°/sec.; in the tilt range the speed is 50°/sec.

ECONOMICAL VARIANT WITH COMPACT FORMAT

As continuous rotation is demonstrably not required for every application, an additional economical 359° variant without continuous rotation and concealed cabling will also come onto the market (VPT-500 series). Its compact format and corresponding cost savings are significant benefits. Both versions have a maximum of 64 programmable fixed positions (presets) with a high degree of accuracy and are available with an RS-485 interface as well as different control protocols.




	VPT-501 75302	VPT-501/HZ 75304	VPT-601 75303	VPT-601/HZ 75305	VPT-651 75301	VPT-651/HZ 75312
Autopan/Pattern	yes/no	yes/no	yes/no	yes/no	yes/no	yes/no
Rotation range/Positioned freely	359°/yes	359°/yes	continuous: 360°/yes	continuous: 360°/yes	continuous: 360°/yes	continuous: 360°/yes
Speed range at manual control	0 ~ 100° horizontal, 0 ~ 50° vertical. 0 to 100°/sec.: 0.22sec.	0 ~ 100° horizontal, 0 ~ 50° vertical. 0 to 100°/sec.: 0.22sec.	0 ~ 100° horizontal, 0 ~ 50° vertical. 0 to 100°/sec.: 0.22sec.	0 ~ 100° horizontal, 0 ~ 50° vertical. 0 to 100°/sec.: 0.22sec.	0 ~ 100° horizontal, 0 ~ 50° vertical. 0 to 100°/sec.: 0.22sec.	0 ~ 100° horizontal, 0 ~ 50° vertical. 0 to 100°/sec.: 0.22sec.
Preset speed	0 ~ 100° horizontal, 0 ~ 50° vertical. 180° positioning needs 2.5sec. (at max. speed)	0 ~ 100° horizontal, 0 ~ 50° vertical. 180° positioning needs 2.5sec. (at max. speed)	0 ~ 100° horizontal, 0 ~ 50° vertical. 180° positioning needs 2.5sec. (at max. speed)	0 ~ 100° horizontal, 0 ~ 50° vertical. 180° positioning needs 2.5sec. (at max. speed)	0 ~ 100° horizontal, 0 ~ 50° vertical. 180° positioning needs 2.5sec. (at max. speed)	0 ~ 100° horizontal, 0 ~ 50° vertical. 180° positioning needs 2.5sec. (at max. speed)
Colour (housing)	RAL7032	RAL7032	RAL7032	RAL7032	RAL7032	RAL7032
Housing material	aluminium, plastic	aluminium, plastic	aluminium, plastic	aluminium, plastic	aluminium, plastic	aluminium, plastic
Heater	optional	yes	optional	yes	optional	yes
Illuminator mountable	optional	optional	yes	yes	no	no
Serial interfaces	RS-422, RS-485	RS-422, RS-485	RS-422, RS-485	RS-422, RS-485	RS-422, RS-485	RS-422, RS-485
Protocols	Videor, Fastrax IIE, Pelco D&P, Siemens (TTY), Philips, with selectable Baud rate. Other protocols: upon request	Videor, Fastrax IIE, Pelco D&P, Siemens (TTY), Philips, with selectable Baud rate. Other protocols: upon request	Videor, Fastrax IIE, Pelco D&P, Siemens (TTY), Philips, with selectable Baud rate. Other protocols: upon request	Videor, Fastrax IIE, Pelco D&P, Siemens (TTY), Philips, with selectable Baud rate. Other protocols: upon request	Videor, Fastrax IIE, Pelco D&P, Siemens (TTY), Philips, with selectable Baud rate. Other protocols: upon request	Videor, Fastrax IIE, Pelco D&P, Siemens (TTY), Philips, with selectable Baud rate. Other protocols: upon request
Load capacity	12kg	12kg	12kg	12kg	12kg	12kg
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
Protection rating	IP65	IP65	IP65	IP65	IP66	IP66
Supply voltage	24VAC	24VAC	230VAC	230VAC	230VAC	230VAC
Comments					With camera housing	With camera housing

	VPT-40/230V 73206	VPT-40/230V-POT 73208	VPT-40/230VHZ 73224	VPT-40/24V 73205	VPT-40/24V-POT 73207	VPT-40/24VHZ 73223
						
Autopan/Pattern	no/no	no/no	no/no	no/no	no/no	no/no
Rotation range/Positioned freely	359°/no	359°/yes	359°/no	359°/no	359°/yes	359°/no
Speed at nominal voltage	6°/sec. horizontal, 3°/sec. vertical (at 60 Hz: +20%)	6°/sec. horizontal, 3°/sec. vertical (at 60 Hz: +20%)	6°/sec. horizontal, 3°/sec. vertical (at 60 Hz: +20%)	6°/sec. horizontal, 3°/sec. vertical (at 60 Hz: +20%)	6°/sec. horizontal, 3°/sec. vertical (at 60 Hz: +20%)	6°/sec. horizontal, 3°/sec. vertical (at 60 Hz: +20%)
Colour (housing)	RAL7032	RAL7032	RAL7032	RAL7032	RAL7032	RAL7032
Housing material	aluminium, plastic	aluminium, plastic	aluminium, plastic	aluminium, plastic	aluminium, plastic	aluminium, plastic
Heater	optional	optional	yes	optional	optional	yes
Illuminator mountable	optional	optional	optional	optional	optional	optional
Serial interfaces	voltage	voltage	voltage	voltage	voltage	voltage
Load capacity	20kg	20kg	20kg	20kg	20kg	20kg
Temperature range (operation)	-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C
Protection rating	IP66	IP66	IP66	IP66	IP66	IP66
Supply voltage	230VAC	230VAC	230VAC	24VAC	24VAC	24VAC
Comments		With potentiometer			With potentiometer	

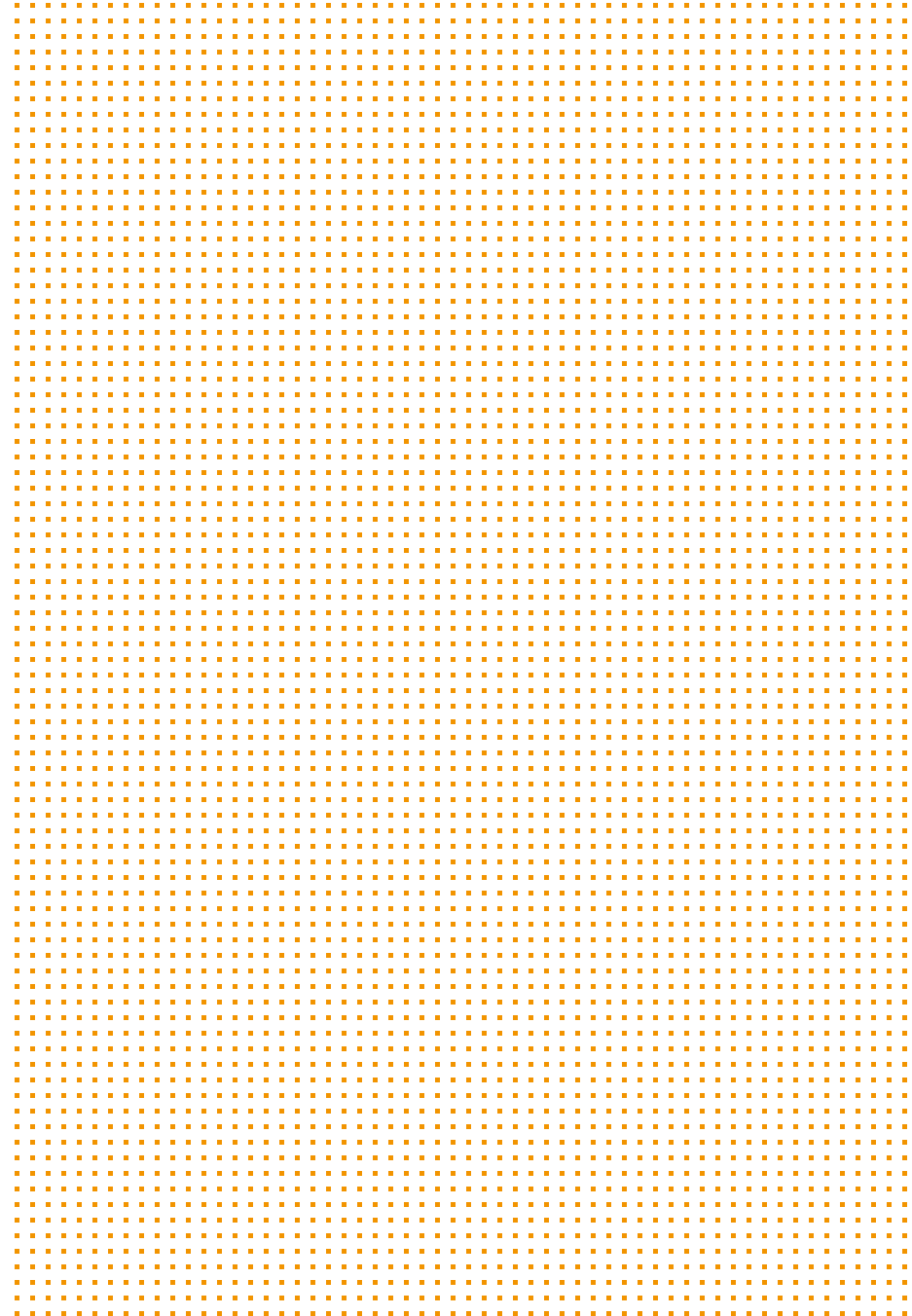
					
MK-1N1 73134	MK-21 73139	MK-22 73156	PM-7 73153	PTZF/G-EC 75354	VHM/ZB-VPT055LG 79697
Pole Bracket for Pan/Tilt Heads RAL7032	Pole Column Spacer for Pan/Tilt Heads, 200mm Height, RAL7032	Pole Column Spacer for Pan/Tilt Heads 360°, 200mm Height, RAL7032	Pole Mount Adapter for WD-32 (80-150mm Pole), RAL7032	Control Unit for Pan/Tilt Head and Lens, 24VAC with PSU	Connection Cable 0.55m, VHM/ZLB to VPT-501, VPT-601
					
VPT-40/230VHZ-K 73229	VPT-40/24VHZ-K 73228	VPT/IRB-4L 77488	VPT/IRB-4T 77489	WD-2N1 73099	WD-32 73157
Heating Kit for VPT-40/230VAC	Heating Kit for VPT-40/24VAC	L-Bracket for VPT-40, RAL7032	T-Bracket for VPT-40, RAL7032	Wall Bracket for Pan/Tilt Heads VPT-40, RAL7032	Wall Bracket for Pan/Tilt Heads VPT-40/501/601/651

	WFL-II/LED15-12 73826	MFL-I/LED5-12 73923	IR LED150-C-35 71736	IR LED150-A-50 71732	IR LED150-A-50R 71735	IR LED150-A-20 71734	IR LED300-C-35 71731	IR LED300-A-50 71756
Twilight switch	optional	yes	yes	yes	yes	yes	yes	yes
Scene coverage	15m	30m	50m	75m	75m	90m	100m	150m
Power consumption	15W	5W	25W	36watts	36watts	36watts	80watts	65W
Power supply unit	optional	optional	integrated	integrated	integrated	integrated	integrated	integrated
Spectral emission	950nm	850nm	950nm	850nm	850nm	850nm	950nm	850nm
Angle of light source horizontally	40°	30°	35°	50°	50°	20°	35°	50°
Protection rating	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Comments								For remote control

	IR LED300-A-50R 71757	IR LED300C-A-50 71737	IR LED300-A-20 71758	IR LED300-A-06 71723
Twilight switch	yes	yes	yes	yes
Scene coverage	150m	150m	180m	250m
Power consumption	65W	68W	65W	80watts
Power supply unit	integrated	integrated	integrated	integrated
Spectral emission	850nm	850nm	850nm	850nm
Angle of light source horizontally	50°	50°	20°	6°
Protection rating	IP66	IP66	IP66	IP66
Comments		With clear cover		





	W LED300K-140 71746	W LED300K-25 71743	W LED300K-06 71741
			
Twilight switch	no	no	no
Scene coverage	100m	175m	250m
Power supply unit	integrated	integrated	integrated
Angle of light source horizontally	140°	25°	6°
Luminous Flux	8500 Lumen	8500 Lumen	8500 Lumen
Protection rating	IP66	IP66	IP66
Comments	With wall bracket	With wall bracket	With wall bracket

DS-4 90056	LED-WBSET 71725	NE-109N 73827	PM-80 71722
			
Twilight Switch with ON/OFF Delay adjustable Switching Points, 230VAC	Wall Mount Set: Mounting Bracket and Wall Mount Bracket	Power Supply 110-240VAC/12VDC for one LED-Infrared Illuminator 15W, Regulated	Pole Mount Adapter IR LED-WBSET (80-180mm Pole)



42 Transmission/Processing








45 Recorders

MATRIX SWITCHERS	EKR-16/4 75208	EKR-32/8 75206	EKR-8/4 75202	MMX 90556
				
Camera control	serial	serial	serial	serial
Video inputs (amount)	16	32	8	16
Video outputs (amount)	4	8	4	9
Video inputs loop-through	no	no	no	yes
Alarm inputs	Up to 16 (NO/NC)	Up to 32	Up to 16 (NO/NC)	16x TTL, program- mable as NC/NO
Alarm outputs	Relay output, 50VAC/0.3A resistive	8x Relay contact, 50VAC/0.3A resistive	Relay output, 50VAC/0.3A resistive	2x Relay output, 125VAC/0.25A or 30VDC/1A resistive
Control Interface	RS-485 (Protocols: Videor, Pelco D, Videotec)	RS-485 (Protocols: Videor, Pelco D, Videotec)	RS-485 (Protocols: Videor, Pelco D, Videotec)	RS-485 (Protocols: Fastrax IIE, Pelco P&D
Keyboard	4x keyboards max. via RS-485 interface	8x keyboards max. via RS-485 interface	4x keyboards max. via RS-485 interface	KBD-NSC-100
Menu languages	English, German, Italian, French	English, German, Italian, French	English, German, Italian, French	German, English, French, Italian, Spanish, Russian, Hungarian, Czech, Polish

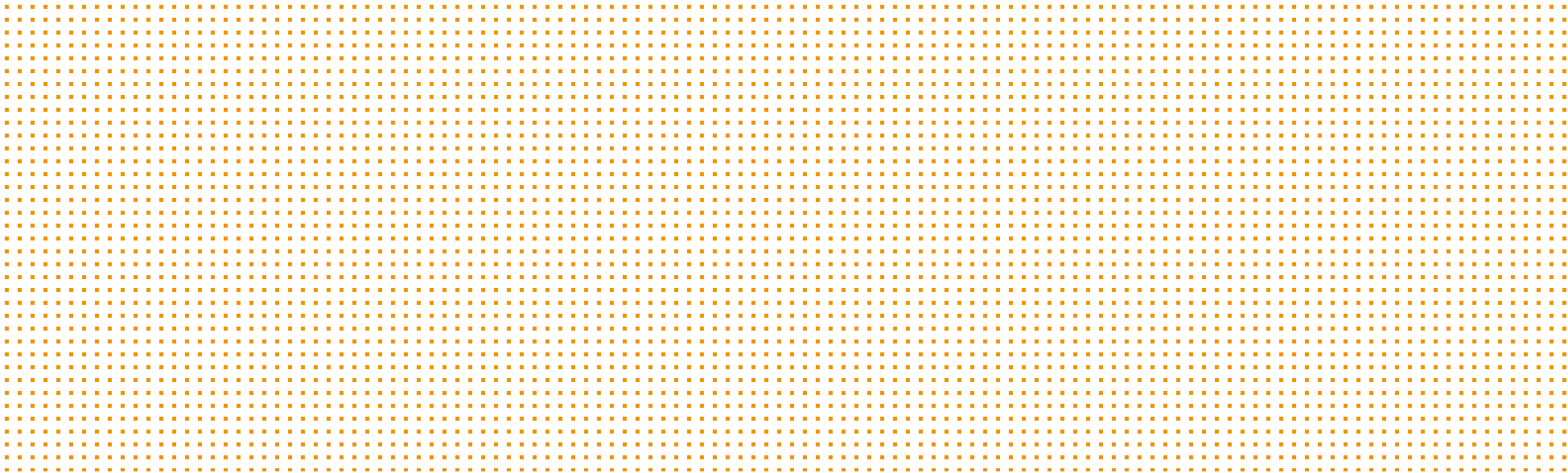
Multi functional network matrix switcher

Matrix, Quad and Multiplexer in one network-compatible device




MMX is a multi functional network matrix switcher which provides exceptional features compared to traditional matrix switchers. One MMX can replace 3 devices (matrix switcher, quad, multiplexer) making it absolutely price competitive. MMX targets small to medium control centers which require rich features and ease of installation. And also, the matrix system is connected to the network as well as the remote controller KBD-NSC-100 delivering a fully networked environment which enhances the flexibility and usability.










PROCESSING	AVU-8/2AL-2 76406	AVU-8/2EC 76405	EDM-40 72651	VBQ-6045 72613	VCO-6057 72614	VDA-4A 75101	VDA-8CA 75102
							
	Video Switcher 8 In/2 Outputs, Alarm Inputs, 230VAC, Desktop Housing	Video Switcher 8 Inputs, 2 Outputs in Desktop Housing, 230VAC	4-Channel Digital Video Motion Detector, PC-programmable, 230VAC	B&W Quad Splitter, 720x625, Alarm In/Outputs, 12VDC/230VAC	Colour Quad Splitter, 1024x625, Alarm In/Outputs, 12VDC/230VAC, 1/2 19"	Video Signal Distributor 1 Input, 4 Outputs, in Housing, 230VAC	Video Signal Distributor 1-4 Inputs 2-8 Outputs, Configurable, 230VAC

EGLC-3 72612	EKR-8/16-4KB 75205	EKR-EB 75203	EKR-KB1 75207	EKR-PTZFI-CB 75211	EKR-PTZFI-R1 75209	EKR-PTZFI-R2 75212	KBD-NSC-100 74746	LINE DRIVER 71003	PDU-1 72441
Ground-loop corrector BNC/BNC	Universal Keyboard for Matrix Switchers EKR-8/4, EKR-16/4, Pantone Coolgray 1C	Expansion kit to 16 Inputs/4 Outputs for EKR-8/4	Universal Keyboard for Matrix Switchers EKR Series, Pantone Coolgray 1C	Coax Telemetry Board for EKR-PTZFI-R1 Receiver	RS-232/RS-485 Telemetry Preset Receiver 230VAC, for P/T Heads 24V/230VAC	RS-232/RS-485/Coax Telemetry Receiver for 230VAC Input and P/T Heads	Network System Controller with 3-Axis Joystick and Jog Shuttle, 5VDC	Gender Adapter RS232C/RS485 + DB9/DB25	Protocol distributor 1/8 in Desktop Housing, Unidirectional, 2VDC/230VAC
VAM-2 72686	VBQ6044/VQC6056 72284	VDA/AVU-RMK1 76407	VDA/AVU-RMK2 76408	VKE-1N-1 76941	VQ6057/6045RMK1 72556	VQ6057/6045RMK2 72557			
Video/Audio HF-Modulator, AV Signal Converting into UHF, 12VDC/230VAC	Cable Remote Control VBQ-6044/VQC-6056 Quads, 10m Cable	19" Rack Mount Kit for 1xVDA-8CA and AVU-8/2AL-2	19" Rack Mount Kit for 2xVDA-8CA and AVU-8/2AL-2	Video Cable Equalizer 1 Input, 230VAC	19" Rack Mount Kit for 1x ENEO Quad Splitter VQC-6057 and VBQ-6045	19" Rack Mount Kit for 2x ENEO Quad Splitters VQC-6057 and VBQ-6045			



	VZS-4/M1 70564	VZS-4/M2 70567	VZS-5 70517	VZS-6 70599	VZT-21A/RJ45 75801	VZT-21B/TB 75802	VZT-21C/RJ45 75803	VZE-4/M2 70568
								
Type of unit/Operation mode	transmitter/active	transmitter/active	transmitter/active	transmitter/active	transmitter / receiver/passive	transmitter / receiver/passive	transmitter / receiver/passive	receiver/active
Range	850m	1000m	850m	850m	400m	400m	50m	n/a
Signal transmission	video	video	video	video	video	video	video, voltage	video
Model/Weatherproof	module/no	module/no	housing/yes	mini module/no	mini module/no	mini module/no	mini module/no	module/no

	VZE-5 70519	VZZ-4/M2 70569	VZZ-5 70518
			
Type of unit/Operation mode	receiver/active	amplifier/active	amplifier/active
Range	n/a	850m	850m
Signal transmission	video	video	video
Model/Weatherproof	housing/yes	module/no	housing/yes

VZE-4/M-CB1 70579	VZS-4/M-CB1 70584	VZSY-4/19" 70587	VZSY-4/19"-B1 70594	VZSY-4/19"-B10 70597	VZSY-4/19"-B2 70595	VZSY-4/19"-B5 70596	VZSY-4/M-FR 70586	VZZ-4/M-CB1 70583
								
19" Connector Board for two VZE-4 Modules	19" Connector Board for two VZS-4 Modules	19" Card Cage Housing for 34 Twisted Pair Cards with built-in Power Supply	Blank Panel Plate 1TE	Blank Panel Plate 10TE	Blank Panel Plate 2TE	Blank Panel Plate 5TE	Rack Mount Front Panel for Twisted Pair Modules VZSY-4	19" Connector Board for two VZZ-4 Cards

Recorder overview

The perfect model for every application: the DLR, BLR and DMR recorder series

Entry-level model, wide midrange, high end – the eneo recorder series has the perfect model waiting for all of your applications. The entry-level model is the DLR-1004 aimed at small applications. When it comes to choosing a recorder from the midrange, i.e. when faced with the choice of whether to opt for a BLR or DLR-20XX recorder, the decision must also be made of whether or not the Remote Software RAS+ will be used. Because it is not available for the BLR

Series. Remote access is exclusively by browser for these models. Recorders in the DLR4 Series bridge the transition to the top class with their audio functionality and pentaplex operating mode. And of course the high end models in the DMR Series can do (nearly) everything. But take a look for yourself: we have compared the most important distinguishing features against each other in the table below.

	DLR-1004	BLR-30XX	DLR-20XX	DLR-4	DMR-50XX
					
	NEW	NEW	NEW		NEW
Video channels	4	4/8/16	4/8/16	4/8/16	8/16
Audio channels	-	-	-	4	8
Max. recording resolution	100 fps @ 352x288	100/200/400 fps @ 352x288	100/200/400 fps @ 352x288	100/200/400 fps @ 352x288	200/400 fps @ 704x576
Recording resolution at max. resolution (704x576)	25 fps	50/50/100 fps	25/50/100 fps	25/50/100 fps	200/400 fps
Operation mode	Quadplex	Quadplex	Quadplex	Pentaplex	Pentaplex
Integrated writer	-	DVD	-	DVD	DVD
HDD (max.)	2 TB	4 TB	2 TB	6 TB	10 TB
Interfaces	USB	USB	USB	USB	USB, eSATA, iSCSI
Main exits	VGA, Composite (FBAS)	DVI, Composite (CVBS)	VGA, Composite (CVBS)	VGA, Composite (CVBS)	HDMI, 2x VGA, 2X Composite (CVBS)
Spot monitor	-	Composite (CVBS)	-	Composite (CVBS)	Composite (CVBS)
Alarm inputs	-	4	4/8/16	4/8/16	8/16
Alarm outputs	-	1	1	1/2/2	4
Remote access	RAS+, Microsoft IE	Microsoft IE	RAS+, Microsoft IE	RAS+, Microsoft IE	RAS+, Microsoft IE
Mobile access	iPhone, PDA	iPhone, BlackBerry, Android OS, Nokia, PDA	iPhone, PDA	iPhone, PDA	iPhone, PDA

On the Safe Side

Digital video recorders in the new BLR Series: entry-level models at outstanding value for money



They not only look good, they can also do a lot: the entry-level models in the BLR Series deliver numerous features rarely found in this price class. Of course, the BLR Series recorders are no high-end models. But which applications really need ultimate perfection? Good value for money is far more significant in the majority of cases. And you are really on the safe side with the BLR Series.

CHOOSE FROM NINE MODELS

Choose from models with four, eight or 16 channels each of which is available with different hard disk sizes of 500GB, 1.5TB or 2.5TB. Should the hard disk become full – which is not an easy thing to do with these large sizes – the data can simply be exported over the integral DVD writer or USB port on the front of the device. The maximum recording resolution is 704x576 pixels with a recording rate of 100fps at maximum resolution. A rate of 400fps is achieved for

a lower resolution of 352x288 pixels. The efficient H.264 compression method ensures that bandwidth requirements are low for network data transmission.

SELECTABLE: THE RECORDING MODE

Up to 16 channels can be simultaneously recorded and played back. Recording can be permanent, triggered by an alarm or when motion is detected as well as time controlled. The recording mode can be specified separately for each channel so the ideal method can be selected for each connected camera according to the monitored area. Example: In a small shop two cameras are installed in the sales rooms and one camera at the main entrance as well as one at the delivery entrance. Recording in the sales rooms could be time controlled during the opening times, at the delivery entrance when motion is detected and permanently in the entrance area.

MULTITASKING THANKS TO QUADPLEX

Video imagery is displayed on the monitor at 25 frames per second, in real time of course. Depending on your multitasking capability, several actions can be executed simultaneously because the recorders are quadplex devices. What does this mean? As the name of this operating mode indicates, four actions could be executed on the recorder at the same time without having to deactivate a function beforehand, and these are: recording, playback, backup and access over the network (remote access by browser).

IPHONE, BLACKBERRY, ANDROID AND NOKIA

What more can the BLR Series offer? Four alarm inputs, one alarm output for instance, automatic e-mail dispatch in an alarm event or PTZ control over the RS-485 interface as well as pre- and post-alarm recording. And the right apps for iPhone, BlackBerry, Android and Nokia are available for access by smartphone.

Full HD Recorders for extra detail

Connect a Full HD monitor at the HDMI output and view video pictures in a new quality – the new eneo DMR Series relieves strain on the eyes as well as from security personnel with its precision detail.

Digital recorders in the new eneo DMR Series deliver the Full HD resolution of 1920x1080 pixels over HDMI or VGA as required so that the detail is strongly increased when several video windows are open on a monitor. This presupposes, of course, that a Full HD TFT screen is connected to the recorder, because as always: a system is only as strong as its weakest link. Recordings from connected cameras are with 704x576 pixels and with up to 400 frames per second. H.264 compression is supported by the ISP1000 chip adapted specifically to meet the needs of video surveillance.









RASPLUS POWERFUL SOFTWARE SOLUTION

Perhaps fully natural for eneo customers: the bundled RASplus software solution for monitoring and playback of up to 64 channels from a maximum of 16 recorders. RASplus (then called RAS) has been a permanent component of eneo recorders from almost the first product generation. And also the current version, which can always be kept up to date with free updates, still supports the older recorder models. This means investment protection and continuity. When expanding a video surveillance system, for instance, the system can therefore simply be upgraded by new models, while the recorders presently installed can remain in use as part of the system – the merits of the latest RASplus version will be beneficial in any case.



One of the RASplus key success factors is that it is extremely user-friendly: recorders as well as single cameras are simply dragged and dropped into the display window – and the video signals are immediately displayed. The different menu functions are clearly arranged: recorder selection, time- and event-controlled picture search, notification of detected events, PTZ function, site plans and status reports for connected recorders are highly intuitive to use. RASplus allows integration of site plans from even large building complexes or inspection of alarm events displayed by fire and intruder alarms or motion

detectors. As RASplus features dual monitor support, site plans can be displayed on a separate LCD monitor to give a better overview. Camera management with editable site plans places the icons for the installed cameras in their right positions, camera images are switched onto the screen at a click of the mouse or automatically when an alarm is triggered. In addition to RASplus, the remote monitoring software RASmobile is also bundled so that a PDA can access live images and execute PTZ functions for users on the move. And a suitable free app is also available for Apple iPhone owners.







	BLR-3004/2.5DV 72966	DLR4-04/2.5TBD 73199	DLR4-04/1,75TD 98556	BLR-3004/1.5DV 72965	DLR4-04/1.5TBD 73198	DLR-1004/1000V 73182	DLR-2004/1000V 73186	BLR-3004/500DV 72964
								
	NEW	NEW		NEW	NEW	NEW	NEW	NEW
Channels Video/Audio	4/-	4/4	4/4	4/-	4/4	4/-	4/-	4/-
Resolution max.	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576
Max. recording rate	100 fps @ 704 x 288	100 fps @ 352 x 288	100 fps @ 352 x 288	100 fps @ 704 x 288	100 fps @ 352 x 288	100 fps @ 352 x 288	100 fps @ 352 x 288	100 fps @ 704 x 288
Operation mode	Quadplex	Pentaplex	Pentaplex	Quadplex	Pentaplex	Quadplex	Quadplex	Quadplex
Intergrated writer	DVD	DVD	DVD	DVD	DVD	no	no	DVD
HHD (integral)/(max.)	2,5TB/4TB	2,5TB/6TB	1,75TB/3TB	1,5TB/4TB	1,5TB/6TB	1TB/2TB	1TB/2TB	500GB/4TB
Compression standard	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
Storage interfaces	USB	USB	USB	USB	USB	USB	USB	USB
Main exits	DVI, composite (CVBS)	VGA, composite (CVBS)	VGA, composite (CVBS)	DVI, composite (CVBS)	VGA, composite (CVBS)	VGA, CVBS	1x composite (CVBS), 1x VGA	DVI, composite (CVBS)
Playback	full screen, 4 channel split, split sequence	full screen, 4 channel split, PiP	Single, quad picture, PiP	full screen, 4 channel split, split sequence	full screen, 4 channel split, PiP	full screen, 4 channel split, PiP	full screen, 4 channel split, PiP	full screen, 4 channel split, split sequence
Spot monitor	1x composite (CVBS)	composite (CVBS)	composite (CVBS)	1x composite (CVBS)	composite (CVBS)	no	no	1x composite (CVBS)
Alarm inputs	4x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO (terminal block)	4x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO	no	4x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO
Alarm outputs	1x NO/NC contact	1x NO/NC contact	Relay contact (NO/NC)	1x NO/NC contact	1x NO/NC contact	no	1x NO/NC contact	1x NO/NC contact
Alarm notification	e-mail notification	e-mail, remote software (RASplus), callback	e-Mail, remote SW (RASplus), callback	e-mail notification	e-mail, remote software (RASplus), callback	e-mail, remote software	e-mail, remote software	e-mail notification
Password protection	Administrator, manager and users	64 groups, 256 users	64 groups, 256 users	Administrator, manager and users	64 groups, 256 users	yes	64 groups, 256 users	Administrator, manager and users
Serial interfaces	RS-485	RS-485, RS-232	RS-485, RS-232	RS-485	RS-485, RS-232	no	RS-232, RS-485	RS-485
Remote access	Microsoft IE	browser, remote software	browser, remote software	Microsoft IE	browser, remote software	remote software, Microsoft IE	remote software, Microsoft IE	Microsoft IE
Control units (external)	mouse	system keyboard, mouse	system keyboard, mouse	mouse	system keyboard, mouse	mouse	system keyboard, mouse	mouse

	DLR4-04/500D 72987	DLR-1004/500V 72977	DLR-2004/500V 72995	BLR-3008/2.5DV 72969	DLR4-08/2.5TB 73195	DLR4-08/2.5TBDV 73191	DMR-5008/2.5 73184	BLR-3008/1.5DV 72968
			NEW	NEW	NEW	NEW	NEW	NEW
Channels Video/Audio	4/4	4/-	4/-	8/-	8/4	8/-	8/8	8/-
Resolution max.	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576
Max. recording rate	100 fps @ 352 x 288	100 fps @ 352 x 288	100 fps @ 352 x 288	200 fps @ 352 x 288	200 fps @ 352 x 288	200 fps @ 352 x 288	200 fps @ 704 x 576	200 fps @ 352 x 288
Operation mode	Pentaplex	Quadplex	Quadplex	Quadplex	Pentaplex	Pentaplex	Pentaplex	Quadplex
Integrated writer	DVD	no	no	DVD	DVD	DVD	DVD	DVD
HHD (integral)/(max.)	500GB/6TB	500GB/2TB	500GB/2TB	2,5TB/4TB	2,5TB/6TB	2,5TB/6TB	2,5TB/10TB	1,5TB/4TB
Compression standard	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
Storage interfaces	USB	USB	USB	USB	USB	USB	USB, eSATA, iSCSI	USB
Main exits	VGA, composite (CVBS)	VGA, CVBS	1x composite (CVBS), 1x VGA	DVI, composite (CVBS)	VGA, composite (CVBS)	VGA, composite (CVBS)	HDMI, 2x VGA, 2x composite	DVI, composite (CVBS)
Playback	full screen, 4 channel split, PiP	full screen, 4 channel split, PiP	full screen, 4 channel split, PiP	full screen, 4 channel split, 6 channel split, 8 channel split, split sequence	full screen, 4 channel split, 8 channel split, PiP	full screen, 4 channel split, 8 channel split, PiP	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 6 channel split, 8 channel split, split sequence
Spot monitor	composite (CVBS)	no	no	1x composite (CVBS)	composite (CVBS)	composite (CVBS)	1x composite (CVBS)	1x composite (CVBS)
Alarm inputs	4x TTL, programmable as NC/NO	no	4x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO
Alarm outputs	1x NO/NC contact	no	1x NO/NC contact	1x NO/NC contact	2x NO/NC contact	2x NO/NC contact	4x relais contacts (125VAC, 2A; 30VDC, 1A)	1x NO/NC contact
Alarm notification	e-mail, remote software (RASplus), callback	e-mail, remote software	e-mail, remote software	e-mail notification	e-mail, remote software (RASplus), callback	e-mail, remote software (RASplus), callback	e-mail, remote software	e-mail notification
Password protection	64 groups, 256 users	yes	64 groups, 256 users	Administrator, manager and users	64 groups, 256 users	64 groups, 256 users	64 groups, 256 users	Administrator, manager and users
Serial interfaces	RS-485, RS-232	no	RS-232, RS-485	RS-485	RS-485, RS-232	RS-485, RS-232	RS-485, RS-232	RS-485
Remote access	browser, remote software	remote software, Microsoft IE	remote software, Microsoft IE	Microsoft IE	browser, remote software	browser, remote software	remote software, Microsoft IE	Microsoft IE
Control units (external)	system keyboard, mouse	mouse	system keyboard, mouse	mouse	system keyboard, mouse	system keyboard, mouse	system keyboard, mouse	mouse

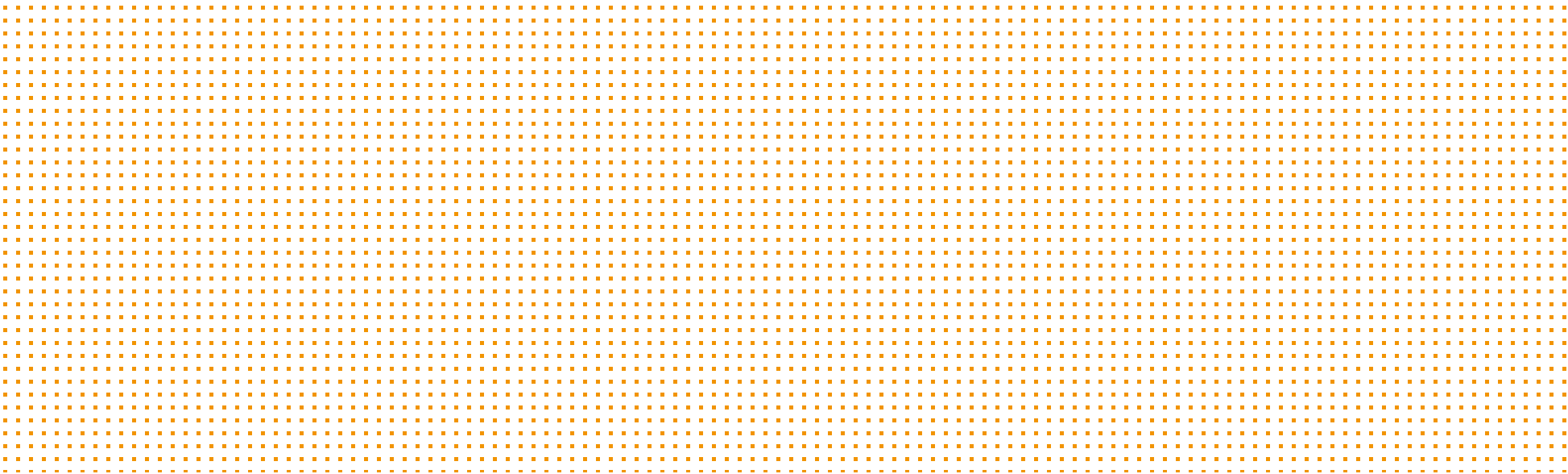
	DLR4-08/1.5TBD 73194	DLR4-08/1.5TBDV 73189	DMR-5008/1.5 72981	DLR-2008/1000V 73187	BLR-3008/500DV 72967	DLR4-08/500D 72991	DLR4-08/500DV 72988	DLR-2008/500V 72996
								
		NEW	NEW	NEW	NEW	NEW		NEW
Channels Video/Audio	8/4	8/-	8/8	8/-	8/-	8/4	8/-	8/-
Resolution max.	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576
Max. recording rate	200 fps @ 352 x 288	200 fps @ 352 x 288	200 fps @ 704 x 576	200 fps @ 352 x 288	200 fps @ 352 x 288	200 fps @ 352 x 288	200 fps @ 352 x 288	200 fps @ 352 x 288
Operation mode	Pentaplex	Pentaplex	Pentaplex	Quadplex	Quadplex	Pentaplex	Pentaplex	Quadplex
Integrated writer	DVD	DVD	DVD	no	DVD	DVD	DVD	no
HHD (integral)/(max.)	1,5TB/6TB	1,5TB/6TB	1,5TB/10TB	1TB/2TB	500MB/4TB	500GB/6TB	500GB/6TB	500GB/2TB
Compression standard	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
Storage interfaces	USB	USB	USB, eSATA, iSCSI	USB	USB	USB	USB	USB
Main exits	VGA, composite (CVBS)	VGA, composite (CVBS)	HDMI, 2x VGA, 2x composite	1x composite (CVBS), 1x VGA	DVI, composite (CVBS)	VGA, composite (CVBS)	VGA, composite (CVBS)	1x composite (CVBS), 1x VGA
Playback	full screen, 4 channel split, 8 channel split, PiP	full screen, 4 channel split, 8 channel split, PiP	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 8 channel split, PiP	full screen, 4 channel split, 6 channel split, 8 channel split, split sequence	full screen, 4 channel split, 8 channel split, PiP	full screen, 4 channel split, 8 channel split, PiP	full screen, 4 channel split, 8 channel split, PiP
Spot monitor	composite (CVBS)	composite (CVBS)	1x composite (CVBS)	no	1x composite (CVBS)	composite (CVBS)	composite (CVBS)	no
Alarm inputs	8x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO	8x TTL, programmable as NC/NO
Alarm outputs	2x NO/NC contact	2x NO/NC contact	4x relais contacts (125VAC, 2A; 30VDC, 1A)	1x NO/NC contact	1x NO/NC contact	2x NO/NC contact	2x NO/NC contact	1x NO/NC contact
Alarm notification	e-mail, remote software (RASplus), callback	e-mail, remote software (RASplus), callback	e-mail, remote software	e-mail, remote software	e-mail notification	e-mail, remote software (RASplus), callback	remote software (RASplus), e-mail, callback	e-mail, remote software
Password protection	64 groups, 256 users	64 groups, 256 users	64 groups, 256 users	64 groups, 256 users	Administrator, manager and users	64 groups, 256 users	64 groups, 256 users	64 groups, 256 users
Serial interfaces	RS-485, RS-232	RS-485, RS-232	RS-485, RS-232	RS-232, RS-485	RS-485	RS-485, RS-232	RS-485, RS-232	RS-232, RS-485
Remote access	browser, remote software	browser, remote software	remote software, Microsoft IE	remote software, Microsoft IE	Microsoft IE	browser, remote software	browser, remote software	remote software, Microsoft IE
Control units (external)	system keyboard, mouse	system keyboard, mouse	system keyboard, mouse	system keyboard, mouse	mouse	system keyboard, mouse	system keyboard, mouse	system keyboard, mouse

	DMR-5008/500 72979	DLR4-16/4.5TBDV 75016	BLR-3016/2.5DV 72973	DLR4-16/2.5TBD 73197	DLR4-16/2.5TBDV 73193	DMR-5016/2.5 73185	BLR-3016/1.5DV 72972	DLR4-16/1.5TBD 73196
	NEW		NEW	NEW	NEW	NEW	NEW	NEW
Channels Video/Audio	8/8	16/-	16/-	16/4	16/-	16/16	16/-	16/4
Resolution max.	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576
Max. recording rate	200 fps @ 704 x 576	400 fps @ 352 x 288	400 fps @ 352 x 288	400 fps @ 352 x 288	400 fps @ 352 x 288	400 fps @ 704 x 576	400 fps @ 352 x 288	400 fps @ 352 x 288
Operation mode	Pentaplex	Pentaplex	Quadplex	Pentaplex	Pentaplex	Pentaplex	Quadplex	Pentaplex
Integrated writer	DVD	DVD	DVD	DVD	DVD	DVD	DVD	DVD
HHD (integral)/(max.)	500GB/10TB	4,5TB/6TB	2,5TB/4TB	2,5TB/6TB	2,5TB/6TB	2,5TB/10TB	1,5TB/4TB	1,5TB/6TB
Compression standard	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
Storage interfaces	USB, eSATA, iSCSI	USB	USB	USB	USB	USB, eSATA, iSCSI	USB	USB
Main exits	HDMI, 2x VGA, 2x composite	VGA, composite (CVBS)	DVI, composite (CVBS)	VGA, composite (CVBS)	VGA, composite (CVBS)	HDMI, 2x VGA, 2x composite	DVI, composite (CVBS)	VGA, composite (CVBS)
Playback	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 6 channel split, 8 channel split, 9 channel split, 16 channel split, split sequence	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 6 channel split, 8 channel split, 9 channel split, 16 channel split, split sequence	full screen, 4 channel split, 9 channel split, 16 channel split, PiP
Spot monitor	1x composite (CVBS)	composite (CVBS)	1x composite (CVBS)	composite (CVBS)	composite (CVBS)	1x composite (CVBS)	1x composite (CVBS)	composite (CVBS)
Alarm inputs	8x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO
Alarm outputs	4x relais contacts (125VAC, 2A; 30VDC, 1A)	2x NO/NC contact	1x NO/NC contact	2x NO/NC contact	2x NO/NC contact	4x relais contacts (125VAC, 2A; 30VDC, 1A)	1x NO/NC contact	2x NO/NC contact
Alarm notification	e-mail, remote software	e-mail, remote software (RASplus), callback	e-mail notification	e-mail, remote software (RASplus), callback	e-mail, remote software (RASplus), callback	e-mail, remote software	e-mail notification	e-mail, remote software (RASplus), callback
Password protection	64 groups, 256 users	64 groups, 256 users	Administrator, manager and users	64 groups, 256 users	64 groups, 256 users	64 groups, 256 users	Administrator, manager and users	64 groups, 256 users
Serial interfaces	RS-485, RS-232	RS-485, RS-232	RS-485	RS-485, RS-232	RS-485, RS-232	RS-485, RS-232	RS-485	RS-485, RS-232
Remote access	remote software, Microsoft IE	browser, remote software	Microsoft IE	browser, remote software	browser, remote software	remote software, Microsoft IE	Microsoft IE	browser, remote software
Control units (external)	system keyboard, mouse	system keyboard, mouse	mouse	system keyboard, mouse	system keyboard, mouse	system keyboard, mouse	mouse	system keyboard, mouse

	DLR4-16/1.5TBDV 73192	DMR-5016/1.5 72983	DLR-2016/1000V 73188	BLR-3016/500DV 72971	DLR4-16/500D 72992	DLR4-16/500DV 72989	DLR-2016/500V 72997	DMR-5016/500 72982
								
	NEW	NEW	NEW	NEW			NEW	NEW
Channels Video/Audio	16/-	16/16	16/-	16/-	16/4	16/-	16/-	16/16
Resolution max.	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576	704 x 576
Max. recording rate	400 fps @ 352 x 288	400 fps @ 704 x 576	400 fps @ 352 x 288	400 fps @ 352 x 288	400 fps @ 352 x 288	400 fps @ 352 x 288	400 fps @ 352 x 288	400 fps @ 704 x 576
Operation mode	Pentaplex	Pentaplex	Quadplex	Quadplex	Pentaplex	Pentaplex	Quadplex	Pentaplex
Intergrated writer	DVD	DVD	no	DVD	DVD	DVD	no	DVD
HHD (integral)/(max.)	1,5TB/6TB	1,5TB/10TB	1TB/2TB	500MB/4TB	500GB/6TB	500GB/6TB	500GB/2TB	500GB/10TB
Compression standard	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
Storage interfaces	USB	USB, eSATA, iSCSI	USB, eSATA, iSCSI	USB	USB	USB	USB, eSATA, iSCSI	USB, eSATA, iSCSI
Main exits	VGA, composite (CVBS)	HDMI, 2x VGA, 2x composite	1x composite (CVBS), 1x VGA	DVI, composite (CVBS)	VGA, composite (CVBS)	VGA, composite (CVBS)	1x composite (CVBS), 1x VGA	HDMI, 2x VGA, 2x composite
Playback	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	1, 4, 8 channel Split, PIP, full screen, 4 channel split, 8 channel split, PiP	full screen, 4 channel split, 6 channel split, 8 channel split, 9 channel split, 16 channel split, split sequence	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 9 channel split, 16 channel split, PiP	full screen, 4 channel split, 8 channel split, 16 channel split, PiP	full screen, 4 channel split, 9 channel split, 16 channel split, PiP
Spot monitor	composite (CVBS)	1x composite (CVBS)	no	1x composite (CVBS)	composite (CVBS)	composite (CVBS)	no	1x composite (CVBS)
Alarm inputs	16x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	4x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO	16x TTL, programmable as NC/NO
Alarm outputs	2x NO/NC contact	4x relais contacts (125VAC, 2A; 30VDC, 1A)	1x NO/NC contact	1x NO/NC contact	2x NO/NC contact	2x NO/NC contact	1x NO/NC contact	4x relais contacts (125VAC, 2A; 30VDC, 1A)
Alarm notification	e-mail, remote software (RASplus), callback	e-mail, remote software	e-mail, remote software	e-mail notification	e-mail, remote software (RASplus), callback	e-mail, remote software (RASplus), callback	e-mail, remote software	e-mail, remote software
Password protection	64 groups, 256 users	64 groups, 256 users	64 groups, 256 users	Administrator, manager and users	64 groups, 256 users	64 groups, 256 users	64 groups, 256 users	64 groups, 256 users
Serial interfaces	RS-485, RS-232	RS-485, RS-232	RS-485, RS-232	RS-485	RS-485, RS-232	RS-485, RS-232	RS-485, RS-232	RS-485, RS-232
Remote access	browser, remote software	remote software, Microsoft IE	remote software, Microsoft IE	Microsoft IE	browser, remote software	browser, remote software	remote software, Microsoft IE	remote software, Microsoft IE
Control units (external)	system keyboard, mouse	system keyboard, mouse	system keyboard, mouse	mouse	system keyboard, mouse	system keyboard, mouse	system keyboard, mouse	system keyboard, mouse

DMR-104/EXTENS. 72999	DVR-MOUSE 71902	EDC-KBD1 74088	EDC-KBDM-3 74092	HDD-1000SATA-H2 72952	HDD-2000SATA 72998	HDD-500SATA-H 72975	HDD-500SATA-W 72924	KBD-2 74149	KBD-NSC-100 74746
	NEW				NEW				
External Harddisk Extension (4xSATA), eSATA Connector, 19"	USB Mouse for Recorder Series DTR, DPR, BLR and DLR3/4 - PS/2, USB	System Keyboard with 3-axis Joystick, 12VDC	System Keyboard w. Joystick, 5" Monitor 12VDC, Fastrax Protocol	Hard Disk Drive 1TB, SATA for eneo BLR, DLR, DMR Series	Hard Disk Drive 2TB, SATA for eneo BLR, DLR, DMR Series	Hard Disk Drive 500GB, SATA, for eneo BLR, DLR, DMR Series	Hard Disk Drive 500GB, SATA for EMD-19/ DVR-S1, BCR series	System Keyboard with 3-Axis Joystick and Jog Shuttle, 12VDC	Network System Controller with 3-Axis Joystick and Jog Shuttle, 5VDC

MMX 90556	RAS MOBILE 72745	RAS+ 71922	USB-8COM 72934
Network Controlled Video Matrix System	PDA Remote Monitoring Software for DLR, DMR, DCR, DTR, DPR Recorders	Remote Administration Interface Software for DLR, DMR, DTR, DCR, DPR, DIR DVRs	Serial Text Interface Converter 8x RS232 for DLR-/DTR-/DPR-/DMR-series



55 Complete Systems

56 Monitors

For the private and retail sectors: reasonably priced monitoring system

Combined in one system: a 19" TFT monitor and digital video recorder with eight channels and VIEWER software.

Not every installation requires installation of an extensive surveillance system consisting of different components. The requirement for reliable video surveillance systems, reasonably priced with simple operation exists particularly in the private sector, in small retail stores and in restaurants. You can now offer your customers such a solution with the PCS-19/DVR-08 surveillance system from eneo. The system combines a 19" monitor with an 8-channel digital video recorder and is therefore tailored precisely to the above applications. The shipping package includes an infrared remote control as well as VIEWER software for simple system management and operation. Clearly displayed icons and well defined menu-driven operation make everything easy to understand so that anyone with basic PC skills can operate the software with ease. Furthermore, the recorder has a web browser function for display of live imagery.

AUTOMATIC ALARM NOTIFICATION AND MULTI-FUNCTION PC SOLUTION

As small retail stores and restaurants rarely have a budget big enough to position an employee permanently in front of a surveillance monitor, the PCS-19/

DVR-08 comes with an integral motion detector and alarm contacts so that a message is automatically sent to the defined e-mail address in the event of an alarm – the person responsible for monitoring can react immediately if they have a mobile phone with e-mail capability such as a BlackBerry or iPhone. The PiP function (Picture in Picture) is available for applications in offices: this function also allows the system to be used as a multifunction PC solution in which office applications or other programs display live imagery from surveillance cameras as a Picture in Picture.

H.264 COMPRESSION FOR REDUCED BANDWIDTH REQUIREMENTS

The integral 320GB hard disk allows storage of up to one week's video data at a resolution of 352x240 pixels (maximum resolution 704x576 pixels). Real-time backup onto external storage media is available as an option. The PCS-19/DVR-08 works using efficient H.264 compression for network transmission of video data in high quality with simultaneously reduced bandwidth requirements. A mouse, external hard disk or DVD writer can be connected at the two integral USB ports.

PCS-19/DVR-08
90564



Video inputs (amount)	8
Audio inputs	4
Serial interfaces	RS-485
Screen size	19"
Resolution pixels	1280 x 1024
Response time typical	5 ms
Max. recording rate	200 fps
Compression standard	H.264
Operation mode	Quadplex
HHD (integral)/(max.)	320GB/upon request
Storage interfaces	USB
Intergrated writer	no
Remote access	browser
Control units (external)	remote control, mouse
Supply voltage	100~240VAC, 12VDC
Comments	Remote client included, HHD capacity extendable with Art.-No 72924 (500 GB SATA)

PCS-VIEWER
90573



Remote Client for
Combo Surveillance
System

For efficient video surveillance solutions: LCD monitors with a resolution of 700 TV lines

The monitors of the LCD-HMPG1 and LCD-HPPG1 series: Clearly recognizable details and excellent image quality.

The resolution of professional CCTV cameras is constantly increasing. Current examples are the VKC-1375 and VKCD-1375 from eneo: they make details clearly identifiable with 650 TV lines so that, for instance, they are ideal for identification of vehicle number plates. Of course, this presupposes that the hooked-up monitor also has a minimum resolution at least as high as that of the camera. This is where the VMC-19LCD-HMPG1 and VMC-19LCD-HPPG1 TFT monitors enter the scene with their horizontal resolution of 700 TV lines. In addition to improved detail recognition, a further advantage of the high resolution is that eyes do not tire as quickly and this therefore releases strain on security personnel so that they work with greater productivity. Together with intelligent analysis functions, as offered by the VKC-1375 and VKCD-1375 or the Zelaris management software, very efficient surveillance is assured.

3D COMB FILTER DECODER

The outstanding picture quality of these monitors is also supported by the digital 3D comb filter decoder,

which prevents colour streaks and distorted colour borders by adding forward and back images to the input and therefore giving better separation to the interleaved colour and black/white signals. And the monitors show the signals clearly and distortion-free even in adverse surveillance conditions such as darkness or with quickly moving objects such as vehicles on main roads or motorways. This is provided by the integral artefact, distortion and motion-blur reduction.

ANTI-BURN FUNCTION AND PROTECTION GLASS

The fact that the picture quality of eneo TFT monitors remains constant over a long time is ensured by the anti-burn function that prevents pixel "burn-in". As opposed to CRT monitors where the screen content can actually burn into the phosphorous layer of the cathode ray tube, this phenomenon occurs on LCD monitors through a static charge of parts of the screen when the screen content is not changed over a long time period, as is frequently the case in surveillance situations. The anti-burn function of the eneo LCD monitors toggles

automatically between normal and underscan so that the detail only changes insignificantly but at the same time the static screen charge is countered. Furthermore, protection glass is applied to the screens to protect the sensitive TFT surface from fingerprints and scratches. This also makes cleaning much easier as the TFT displays do not need a special cleaner – any commercially available glass cleaner can do the job.

VERSIONS REVIEW

In addition to the above 19" versions, 17" models are also available. The difference between HMPG1 and HPPG1 is limited to the different housing material: whilst LCD monitors in the HMPG1 Series have a very rugged aluminium housing for use in the industrial environment, the HPPG1 Series comes with a compact plastic housing. All versions feature as standard: CVBS, S-Video, HDMI, RGB and audio inputs, multiple language on-screen menus (German, English, French, Spanish, Italian, Polish, Czech and Russian), IR remote control and integrated loudspeakers. A 19" installation kit is also available as an option.



Entry-level models: LCD/TFT monitors at unbeatable value for money

Best suited for surveillance around the clock: VMC-17LCD-OPC1 and VMC-19LCD-OPC1 with fast signal switching times and short response times.



Fast signal switching times and short response times – in addition to the video inputs – are the most important criteria when choosing a monitor for video surveillance. These points set them apart from the basic LCD monitors from the electrical goods store and are often the reason for a correspondingly higher price. But this does not always have to be the case, as is proven by the new LCD monitors from eneo: the VMC-17LCD-OPC1 and VMC-19LCD-OPC1 at 17" and 19" are designed especially for use by professionals in video surveillance, but they are priced nearly the same as TFT monitors designed for PC use, for instance. A typical response time of only 5ms, CVBS, S-Video, RGB and audio inputs as well as high contrast and a high brightness ratio combined with a resolution of 1280x1024 pixels and 540 TV lines guarantee outstanding picture quality and quick switchover between different video signals. Furthermore, a digital 2D comb filter effectively prevents colour streaks. The multiple language on-screen menu is available in German, English, French, Spanish, Italian and Polish.

	VMC-5.6/2-LCD 90567	VMC-5.6/2S-LCD 90569	VMC-6.4/2-MM1 90518	VMC-6.4LCD-P1 90511	VMC-8LCD-CM01 90563	VMC-8LCD-CP01 90557	VMC-10.4LCD-CM 90489	VMC-10.4LCD-CP 90438
								
		NEW	NEW					
Screen size	5.6"/14.3 cm	5.6"/14.3 cm	6.4"/16.3 cm	6.4"/16.3 cm	8"/20.3 cm	8"/20.3 cm	10.4"/26.4 cm	10.4"/26.4 cm
Resolution pixels	640 x 480	640 x 480	320 x 234	320 x 234	800 x 600	800 x 600	800 x 600	800 x 600
Audio inputs	2	2	-	1	-	1	-	1
Viewing angle h/v	140°/120°	140°/120°	120°/95°	120°/95°	140°/130°	140°/135°	110°/80°	110°/80°
Brightness typical	200cd/m ²	200cd/m ²	330cd/m ²	330cd/m ²	400cd/m ²	360cd/m ²	220cd/m ²	220cd/m ²
Contrast ratio typical	500:1	500:1	350:1	350:1	500:1	500:1	400:1	400:1
Response time typical	25ms	25ms	40ms	40ms	50ms	50ms	40ms	45ms
Video inputs (type)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	composite (CVBS)	Y/C, composite (CVBS)	VGA, composite (CVBS)	Y/C, VGA, composite (CVBS)
Housing material/Colour	plastic/anthracite	plastic/anthracite	aluminium/silver grey	plastic/anthracite	metal/black	plastic/silver grey	metal/black	plastic/silver grey
Supply voltage	12 ~ 30VDC	12 ~ 24VDC	12VDC (+/-10%), PSU not included	12VDC (+/-10%)	12VDC +/-5%	12VDC +/-5%	12VDC +/-5%	12VDC +/-5%





	VMC-15LCD-HMC1 90545	VMC-17LCD-HMPG1 90558	VMC-17LCD-HPPG1 90561	VMC-17LCD-OPC2 90571	VMC-19LCD-HMPG1 90559	VMC-19LCD-HPPG1 90562	VMC-19LCD-OPC2 90572
							
				NEW			NEW
Screen size	15"/38.1 cm	17"/43 cm	17"/43 cm	17"/43 cm	19"/48 cm	19"/48 cm	19"/48 cm
Resolution pixels	1024 x 768	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Audio inputs	2	2	2	2	2	2	2
Viewing angle h/v	160°/130°	160°/160°	160°/160°	160°/160°	160°/160°	160°/160°	160°/160°
Brightness typical	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
Contrast ratio typical	700:1	1000:1	1000:1	800:1	1000:1	1000:1	800:1
Response time typical	16ms	5ms	5ms	5ms	5ms	5ms	5ms
Video inputs (type)	Y/C, VGA, composite (CVBS)	Y/C, VGA, HDMI, composite (CVBS)	Y/C, VGA, HDMI, composite (CVBS)	Y/C, VGA, composite (CVBS)	Y/C, VGA, HDMI, composite (CVBS)	Y/C, VGA, HDMI, composite (CVBS)	Y/C, VGA, composite (CVBS)
Housing material/Colour	aluminium/anthracite	aluminium/anthracite	plastic/anthracite	ABS plastic/black	aluminium/anthracite	plastic/anthracite	ABS plastic/black
Supply voltage	12VDC (±0.5V)	12VDC (±0.5V)	12VDC (±0.5V)	12VDC +/-5%	12VDC (±0.5V)	12VDC (±0.5V)	12VDC +/-5%

Application area: Retail

Multifunction TFT Monitors with integrated camera designed for loss protection tasks

The new eneo VMC-32LCD-PWCP1 and VMC-26LCD-PWCL1 Public VIEW Monitors are the ideal choice for applications in the retail sector. The monitors with a resolution of 1366x768 pixels are designed for loss protection tasks, but they are also excellent when used for marketing. The integrated cameras can be configured to display images on the monitor from the installed motion detector. A clear signal: Attention – video surveillance! The twilight switch is another practical feature that automatically puts the monitor to sleep when, for instance, the

lighting is switched off in a building at closing time. When the lighting is switched back on the monitor restarts without any user intervention. An integral 40GB hard disk on the 32" version allows replay of presentations or video clips without also having to install a PC or video recorder. Furthermore, texts and advertising media (clips, photos, etc.) can be displayed on this model over a network. This allows fast reaction to current events or new requirements without having to readjust the monitor.

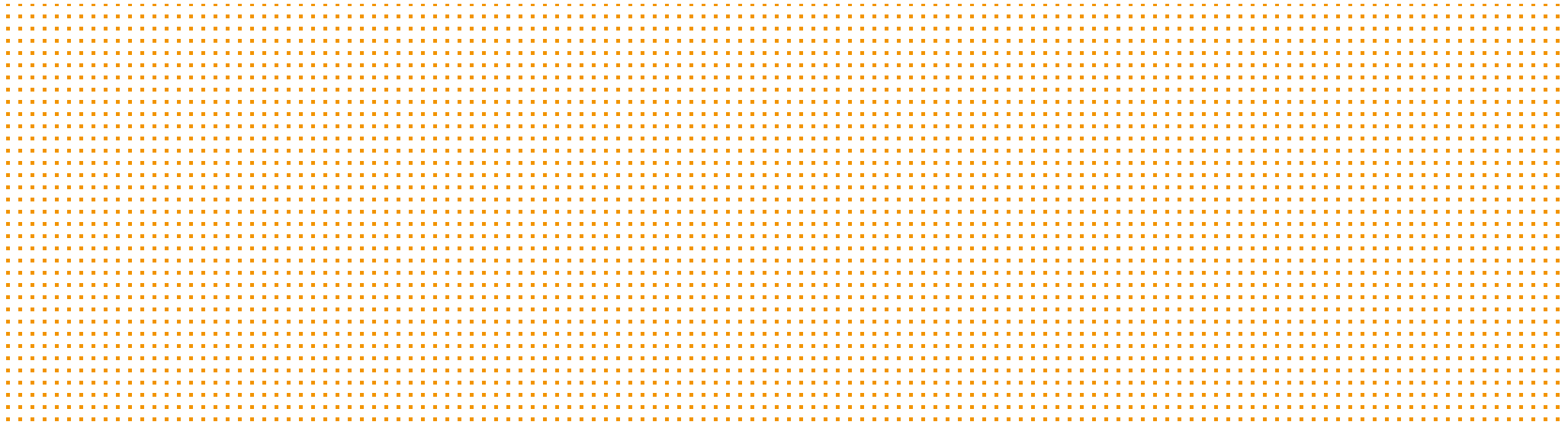
	VMC-26LCD-PW1 90552	VMC-26LCD-PWCL1 90548	VMC-32LCD-PW2 90568	VMC-32LCD-PWCP1 90549
				
Screen size	26"/66.04 cm	26"/66.04 cm	32"/81.3 cm	32"/81.3 cm
Resolution pixels	1366 x 768	1366 x 768	1366 x 768	1366 x 768
Audio inputs	2	2	2	2
Viewing angle h/v	178°/178°	176°/176°	178°/178°	176°/176°
Brightness typical	450cd/m ²	450cd/m ²	450cd/m ²	500cd/m ²
Contrast ratio typical	4000:1	2500:1	4000:1	1200:1
Response time typical	8ms	6.5ms	8ms	8ms
Video inputs (amount)	4	internal and external camera (VCR)	4	internal and external camera (VCR)
Video inputs (type)	composite (CVBS), Y/C, RGB, component (YPbPr)	composite (CVBS)	composite (CVBS), Y/C, VGA, component (YPbPr)	Y/C, DVI-D, VGA, component (YPbPr), composite (CVBS)
Compression standard	-	-	-	JPEG, MPEG-1/2, MPEG-4.2 ASP
Harddisk capacity (internal)	-	-	-	40 GB
Interfaces external storage	-	-	-	USB
Control units (external)	remote control	remote control	remote control	remote control
Housing material/Colour	metal/silver grey	metal/silver grey	metal/silver grey	metal/silver grey
Supply voltage	24VDC	24VDC, 230VAC	24VDC	100~240VAC
Comments	Full screen and high resolution quad display	Integrated 1/3" colour camera with 4-9mm lens	Full screen and high resolution quad display, main and sub window display	Integrated 1/3" colour camera with 4-9mm lens

<p>BW-1 20070</p>	<p>LCD-15P-RMK 90396</p>	<p>LCD-17P-RMK 90397</p>	<p>LCD-19P-RMK 90475</p>	<p>LCD-ST/CM1 90491</p>	<p>LCD-ST/HM 90553</p>	<p>LCD-ST/P 90395</p>	<p>VMC-LCD/8-10MP 90453</p>	<p>VMC-LCD/WCMB-1 90394</p>	<p>VMC-LCD/WMB-1 90426</p>
									
<p>Mounting Kit for Wall Mount Monitor Hangers W31/W41/W61/W71</p>	<p>19" Kit for 15" LCD Monitor (VMC-15LCD-P and VMC-15LCD-HMC1)</p>	<p>19" Kit for 17" LCD Monitor (VMC-17LCD-P and VMC-17LCD-HMC1)</p>	<p>19" Kit for 19" LCD Monitor (VMC-19LCD-P and VMC-19LCD-HMC1)</p>	<p>Desktop Mount for LCD Monitor VMC-8.4 and VMC-10.4, CM Series</p>	<p>Desktop Mount for LCD Monitor, Series VMC-15/17/19, VESA Standard</p>	<p>Desktop Mount for LCD Monitor, VMC-15/17/19 Series, VESA Adaptor</p>	<p>Adapter Plate for Wall Bracket Fixing to VMC-8/8.4/10.4LCD-CP Series</p>	<p>Wall/Ceiling Bracket for LCD Monitors 15"/17"/19" P/CP/CM/HPC/HMC1 Series</p>	<p>Wall Bracket for TFT/LCD Monitors, straight</p>

VMC-LCD/WMB-4
90468



Wall Bracket for LCD Monitors up to 23", Pan and Tiltable

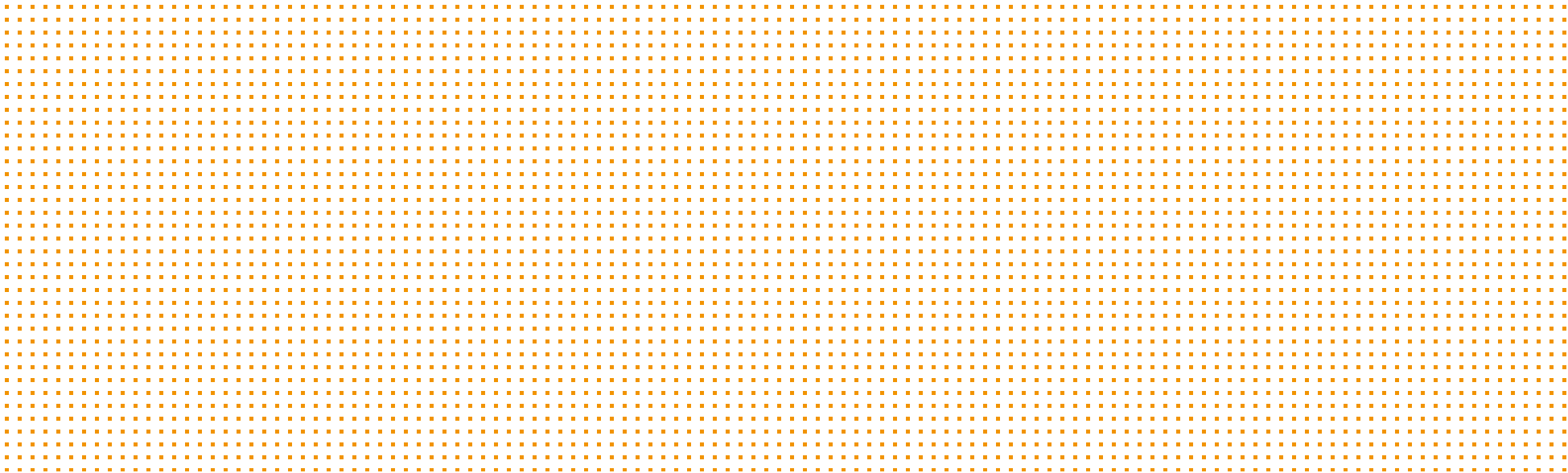


62 Accessories

AK-2 70456	AK-3 70457	NE-112 79364	NE-112/2 79423	NE-112/AC24V 79491	NE-115 79415	NE-119/24V 79568	NE-128 70449	NE-129/12V 79661	NE-130/12V 79662
									
Camera Connection Box for Standard and Ethernet Cameras	Camera Connection Box, 230VAC Input, 24VAC-3.2A, 12VDC-1A Outputs	Power Supply Unit 230VAC/12VDC (600mA) for VHM Housing, Regulated	Power Supply Unit 230VAC/12VDC (600mA), Regulated, 24VAC (1000mA) f. VHM Housing	Power Supply Unit 230VAC/24VAC (600mA) for VHM Housing	Power Supply Unit 230V/12VDC-400mA for Housings VTL-W/D-N2	Power Supply Unit 230V/24VAC (400mA) for EHL-W/ECLKA Housing Series	Voltage supply unit 230V/24VAC-5A, IP66	Power Supply Unit 230V/12VDC-1.25A for Housings VTL-W/D-N2	Power Supply Unit 230V/12VDC-1.25A for Housings VTL-WWA
NE-131/12V 79663	NE-132/AC24V 70527	NE-133 70537	VT-PS12DC-10 70543	VT-PS12DC-7 70495	VT-PS12DC-8 70535	VT-PS12DC-9 70536	VT-PS12DCDT1 77773		
									
Power Supply Unit 230V/12VDC-1.25A for Housings EHL-W/ECLKA and EHL-W/ECLKA-NW	Power Supply Unit 230VAC/24VAC (1.0A)	Voltage Supply Unit 100-240VAC/8x 12VDC- 500mA	Plugable AC/DC Adapter 100-240V/12VDC-2.5A, stab., Cont. & UK Mains plug-ins	Plugable PSU w. Cont. & UK Mains plug-in 100-240VAC/12VDC-1.25A, Regulated	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, w. open Ends	PSU 12VDC/1.0A, Regulated, Desktop Version, 1.8m Cables each w. open ends		
A14 83450	A19 80270	A21 80220	A25 83480	A80 84390	ACB-159 88165	ACT-200 88163	AWT-101 88164	B-BLCM 85530	BJ-CM 85510
									
BNC Jack/Cinch Plug Adapter	BNC Jack-Plug-Jack Adapter, T-Shaped	BNC Jack to Jack Adapter, Straight	BNC Plug/Cinch Jack Adapter	BNC Angled Jack to Jack Adapter	100 BNC Twister Connectors for RG59U Cable, 6.2mm	BNC Plug Twister Tool with Short-circuit Proof	Wire Stripper for BNC Twister Plugs	BNC Jack to Jack Chassis	BNC Chassis Socket

BJ-CMV 85360	BNC REMOVER 88156	EV-011A 88161	EV-012 88162	EV-013 88166	EV-021A 88157	EV-032A 88158	EV-033 88159	RAPPORT II-PRO 88193	RAPPORT III 88192
BNC Chassis Mount Jack, Fully Isolated	BNC Connector Remover BRS-100 (2 pcs.)	10 BNC Twister Connectors for RG59U 6.2mm Diameter	10 Adapter BNC Plug to Cinch Jack	10 Adapter BNC Jack to Cinch Plug	20 BNC Twister Connectors for RG59U 6.2mm with BNC Twister ACT-100	2 BNC Connectors for RG59U, BNC Twister ACT-100, Cable Stripper AWT-101	10 BNC/Cinch Convertor	Multifunctional CCTV Tester with 3.5" LCD Display Monitor with Portable DVR	Multifunctional CCTV Tester with 3.5" LCD Display Monitor with Portable bag

BB-300 86450	BB-750 86460	BB-90 86440	MCAB-1 87404	MCAB-2/100 87406	MCAB-2/200 87407	S-VHSM-CM 87423
Video Cable BNC Plug to BNC Plug, Length 3.0m	Video Cable BNC Plug to BNC Plug, Length 7.5m	Video Cable BNC Plug to BNC Plug, Length 0.9m	Camera/PT Head Connecting Cable, for Video, Power, RS-Control, Network, 1m	Multicore Connecting Cable, 100m, Video& Power	Multicore Connecting Cable, 200m, Video& Power	S-VHS Video Cable, 2 Coax Wires, 1.0m



FAQs

FAQs on eneo products and the corresponding answers from our technical support team.

CAMERAS

*Can the **VKC-1354** be set permanently in B&W mode?*

To set the VKC-1354 Camera permanently in B&W mode go to "D&N" and then "BW" in the camera menu.

*How do I open the **configuration menu** for the **VKC-1422** using a Pelco keyboard?*

Please enter the command 98+Preset to open the configuration menu for the VKC-1422 Camera using a Pelco keyboard.

*What does the **"flicker-free"** function do?*

The "flicker-free" function has the purpose of compensating for disruptions from fluorescent lamps or other pulsating light sources that could cause flicker.

*Can **IR illumination** be disabled for the **VKC-1358/IR**?*

The IR illuminator integrated in the VKC-1358/IR can not be switched off. It can be disabled by disconnecting the plug lead on the IR board.

*Which **pole mount** does eneo recommend for cameras in the **W3 housing**?*

Their mechanical design combined with possible impairment from strong wind are the reason why we do not recommend the W3 housing is installed on poles, and we therefore do not supply a pole mount.

*Why are the settings saved on the **VKC-1422** lost after a power failure?*

Please switch "Initialisation" to OFF in the menu to ensure the settings are not lost due to a power failure.

DOMES

*Is the **base plate** for the **EDC-3351** compatible with the **EDC-143E** Fastrax Dome?*

The two base plates for the EDC-3351 and EDC-143E camera models are compatible with each other. The EDC-3351 base plate can also be installed in the outdoor housing of the EDC-143E.

*Why is it not possible to **change the alarm inputs** from **NC to NO** in the **FASTRAX_CONFIG** dome menu?*

Please use the zoom buttons in the Fastrax configuration software to toggle the alarm contacts between NC and NO.

*What is the **connector pin assignment** for **DC voltage** on the **VKCD-1317SMH/VF**?*

Either DC or AC can be used as supply voltages. No special connector polarity is required for DC. The camera automatically detects the right voltage and polarity.

*Why can I not access the **dome menu** using the **KBD-2** Keyboard?*

Menu access for a dome with the KBD-2 Keyboard is only possible for users logged on as an administrator (with password 9999). Other users (logged on with password 1111) can of course control the dome, but they can not access the menu.

*Can the **EDC-OPC-2** housing fan be switched on permanently?*

The fan for the EDC-OPC-2 Housing is switched on by a thermostat only when the temperature is above approximately 40°C. If required though, the thermostat can be bridged with a wire jumper so that the fan is permanently activated (see also page 4 of the operating instructions).

*How do I use **Pelco D** with the **EKR-KB1** Keyboard to access the menu of a Fastrax Dome?*

With the EKR-KB1 Keyboard the menu of a Fastrax Dome is accessed with the Pelco D protocol using the following key combination: SCAN + 95 + Enter.

*Are the saved **presets** still kept for the **EDMC-2221** when there is no power supply?*

Yes, the presets for the EDMC-2221 Minitrax Dome are still kept even if the power supply is interrupted for a

long time. The data are stored in a non-volatile flash memory.

How must the RS-232/RS-485 line driver converter from roline be set for operation with the Fastrax configuration software?

Please configure the following switch settings for operating the roline line driver converter with the Fastrax software (looking at the device from above): left switch: TxOn/RxON, right switch: DCE.

LENSES

Does the A08Z15NDDCPO Lens fit in the VHM/ECLKA Housing?

The A08Z15NDDCPO Lens fits in the VHM/ECLKA Housing when it is mounted rotated by 90°.

IR ILLUMINATORS

How large is the vertical dispersion angle for eneo IR illuminators?

The LEDs of eneo IR illuminators radiate infrared light in a cone shape, the horizontal and vertical dispersion angles are therefore the same.

PAN/TILT SYSTEMS

Can the AK-3 Connection Box be used for VPT-501/601 Pan/Tilt Heads?

No, the power from the power supply unit integrated in the AK-3 is not suitable for VPT-5/6 Pan/Tilt Heads.

The VPT-501, VPT-601 and VPT-651 have only one connector for a voltage supply of 24 V AC with a maximum

rating of 1 A for the cameras. How should I use it to power the heater of a camera housing?

For these pan/tilt heads, please use only the VHM-ZLB Housing which is fitted with a 24 V resistive heater rated at approximately 6 W. A precabled version VHM-ZLKCB and connecting cable set art. no. 79618 are available to make installation easier. Note: other housings with integrated PTC heater have the risk that they could consume a multiple of the rated current when switched on and overload the 24 V output. In addition to the 24 V AC voltage, 12 V DC with maximum 1 A is also available at the 24-pin plug (VPT-601) or in the VHM housing (VPT-651), which can be used either for the camera or the heater.

Do the VPT-501, VPT-601 and VPT-651 have retention forces when they are switched off?

Yes, the motors of the pan/tilt heads have a retention torque when they are switched off. Vertical (tilt), switched on approx. 45 Nm, switched off approx. 10 Nm. Horizontal (pan) half of the respective tilt values.

When do I need the EDC-COAX Telemetry Board with a VPT-501, VPT-601 or VPT-651?

You need the EDC-COAX Telemetry Board when you would like to control the pan/tilt head using the Pelco Coaxitron protocol. The telemetry board converts the Coaxitron extended commands embedded in the video signal into Pelco D telegrams at 9600 Bd, no parity. The VPT must be assigned Adress1 in this case.

Can the VPT-501, VPT-601 and VPT-651 be controlled using the TTY Siemens interface?

The pan/tilt heads can be controlled using TTY signals and the Siemens protocol (see operating instructions

pages 7/8). This is easy to set up with jumpers on the board in the pan/tilt head. Factory presetting to Siemens TTY is possible although only for large quantities. However, it is not possible to update software via the TTY interface.

PROCESSING

Is camera switchover by radio possible with the EKR-16/4?

No, unfortunately this is not possible as the delay times caused by the data radio link are too high. This means the feedback timing to the keyboard is not correct and the control does not function.

Why are the fixed cameras not shown in the display of the EDC-KBD1 Keyboard?

Only the controllable dome cameras detected during the SCANs are shown in the display of the EDC-KBD1 Keyboard. To display all the cameras, please go to "Alarms" in the keyboard menu and disable the function "Alarm Check".

Is it possible to lengthen the cable between the junction box and keyboard with the EDC-KBDM-3?

No, it is not possible to lengthen the ribbon cable between the junction box and EDC-KBDM-3 Keyboard as it is also the power supply cable to the keyboard.

Why can I not access the EKR-16/4 using management software?

The EKR-16/4 Matrix Switcher does not support programming by management software. It can (just like the EKR-8/4) only be configured by a control panel. Only the EKR-32/8 can be programmed by manage-

ment software.

Why can I not access the menu of the EKR-8/4 Matrix Switcher?

Please do the following to access the menu of EKR-8/4 Matrix Switcher using the EKR-8/16-4KB Keyboard: press and hold down the "Shift" key (between LED 1-8 and 9-16) and simultaneously press the "Enter" key.

Can the peeptone in the menu of the AVU-8/2AL-2 Video Switcher be disabled?

It is not possible to disable the peeptone of the AVU-8/2AL-2 Video Switcher by a menu setting.

How do I program a sequence on the EKR-8/4 Matrix Switcher using the EKR-KB1 Keyboard?

Please do the following to program a sequence: Simultaneously press the SET and MON keys on the EKR-KB1 Keyboard. Then go to "Switch Menu"/"Sequence Menu" and specify the cameras to be shown in the sequence. The display time can be set individually for each camera. You can find details in the EKR-8/4 operating manual on pages 25 and 26.

Can the KBD-2 Keyboard be connected to the EDC-KBD1 as a slave?

Master/Slave mixed operation between the EDC-KBD1 and KBD-2 Keyboards is not possible. Please use another EDC-KBD1 as a slave keyboard.

RECORDERS

The day/night cameras connected to an eneo recorder switch to colour mode above a specific LUX number, which results in an alarm being triggered due to video

loss. How can this be prevented?

Please check the power supply for the connected cameras. If this is not good (e.g. cable cross-section too low, long supply cable) then this problem may occur if higher power is needed momentarily during day/night switchover. A dropping supply voltage may cause the video level to fluctuate which results in an alarm being triggered.

Is it possible to automatically delete recordings with eneo recorders?

With the digital recorders in the DLR, DTR, DPR and DCR Series it is possible to delete recording automatically after a specific number of whole days regardless of whether or not the hard disk is full.

Does the DCR-32N/250DVD support simultaneous display of 32 cameras on the main monitor?

Simultaneous networked display of 32 cameras for the DCR-32N/250DVDD eneo Digital Video Recorder is only possible using the supplied remote software. Only 16 inputs can be displayed simultaneously on the main monitor.

Can recorders in the DCR16/DCR32 Series also send e-mails with alarm imagery attachments?

Yes, the DCR-16 and DCR-32 Recorders provide the option of sending e-mails with alarm imagery. This is enabled by marking the function "Attach the image file" in the alarm e-mail setup.

Do DIR Series recorders have loop-through inputs?

No, recorders in the DIR model range do not have feed-through inputs.
After completion of hard-disk mirroring, what is shown

under "Hard Disk Information" at "System" in the menu of the DPR-2016 Recorder?

The status of the available storage media and their use is displayed in the "Storage" menu. After completion of hard-disk mirroring for the DPR-2016, "Mirror" is displayed for both disks under "Information". Note: mirroring is only possible for hard disks intern1 with intern2 or intern3 with intern4.

Does the DTR Series log the names and times of users who have accessed video data on the recorder?

DTR Series recorders log accesses in a "System Log" file. This file can be read directly at the recorder or by using the RAS+ program.

Why can I not access the DTR Series with Microsoft Internet Explorer?

When you use Microsoft Internet Explorer for access please do not forget to enter the Web-guard port: <http://example.dyndns.tv:12088> or <http://192.168.0.50:12088>

How high is the maximum network load for recorders in the DLR Series?

The maximum network load for eneo digital recorders in the DLR Series is approximately 15 Mbit per second. It can also be limited in the Setup menu.

Why is no full PAL resolution specified for digital video records?

The original PAL standard resolution is 625 lines and 767 pixels. However, this is based purely on analogue signal processing and an aspect ratio of 4:3. Resolution formats were gradually adapted with the introduction of digital storage. The resolution of 720x576 pixels

was specified for PAL signals for recording in the DVD format. Though this only resulted in 702 pixels in the width at a scanning frequency of 13.5 MHz and line duration of 52 µs. A width of 704 pixels is now used for a 4:3 picture in order to guarantee divisibility by 16 with MPEG compression. The digital MPEG 4:3 picture therefore has a resolution of 704x576 pixels.

Is menu access to Fastrax Domes possible with the Pelco D protocol for the DTR Series?

No, with the Pelco D protocol it is not possible to use the PTZ menu of the DTR Series to access the menu of a Fastrax Dome. The Fastrax protocol must be set when menu access is required.

What does pentaplex functionality mean?

Pentaplex functionality allow simultaneous: live display, recording, playback, saving of recordings, remote access.

What is the resolution of the VGA output for the DTR Series?

The VGA output of the DTR Series has a resolution of 800x600 pixels (SVGA).

What system events can switch an alarm output for the DPR-2016 Recorder?

Output contacts can be activated for the following system events for the DPR-2016:

- Check recording: check of recording failed
- Check alarm ON: check of alarm inputs failed
- Data medium nearly full: limit set for hard disk capacity reached
- Data medium full: hard disk full
- Data medium NOK: limit set for the number or faulty

sectors reached

f. Temp. data medium: set temperature limit reached
g. Data medium S.M.A.R.T.: S.M.A.R.T. check failed.

The following system events can not report over the output contacts:

- System: system test failed
- REC (panic recording): panic recording running.

Which TCP ports do eneo digital video recorders use for network communication?

When the default settings are configured, eneo digital video recorders use the following TCP ports for network communication:

Admin: 8200

Callback: 8201

Watch: 8016

Search: 10019

Audio: 8116 (DPR-2016, DTR-61xx)

Can a hard disk be connected to the USB port of the DTR Series?

Yes, external hard disks can be connected to the USB port of the recorder to support archiving or as a clip copy storage medium. These hard disks must be formatted in FAT32.

How many users can simultaneously access a BCR Series recorder over the network?

A maximum of four users can simultaneously access a BCR recorder over the network, and with the different access authorisations of Admin, Manager, User1 and User2.

Is it possible to use the VGA and CVBS monitor outputs simultaneously for DIR Series recorders?

No, for DIR recorders it is not possible to simultaneously use a TFT monitor with VGA and a CRT monitor with CVBS. Only the VGA output or only the BNC output can be used.

Are the VGA and CVBS main monitor outputs active at the same time for the BCR Series?

Yes, the VGA and CVBS main monitor outputs on BCR recorders are active at the same time.

Which VGA monitors are supported by the BCR Series?

Without exception, all eneo digital video recorders in the BCR Series are compatible with all VGA monitors.

RAS+

Why are the camera names not transferred to the recorder with RAS+?

Transmission of camera names into the recorder selection window in the RAS+ program is only possible from RAS+ Version 1.8.0. You can download the latest RAS+ version from our website www.eneo-security.com.

Why are all the channels not displayed in RAS+ although the connection has been set up?

When you configure the remote locations in RAS+ please make sure that the number of channels there is the same as those in the recorder.

What are the default settings for the user ID and password on eneo video recorders to allow access by the RAS+ program?

The user ID and password default settings to allow RAS+ access are shown below for eneo digital video

recorders Please note: "" means no entry.

DLR1: User ID: "" / Password: 12345678

DLR1.1: User ID: admin / Password: ""

DLR2: User ID: "" / Password: 12345678

DLR3: User ID: admin / Password: ""

DTR: User ID: admin / Password: ""

Why can Fastrax Domes be controlled by the recorder without any problems, but not with the RAS+ program?

Please do the following to allow RAS+ to control a Fastrax Dome: firstly establish the link to the remote location, then display the controlled camera in full-screen, and only then call up the PTZ control bar. Control does not function if the PTZ control bar is displayed before the remote location is connected.

Why is live imagery not updated in RAS+ although there is a connection to the DLR3-16N?

In this case, please reduce the number of frames per second or the recording image quality. At maximum image quality the DLR-3 can record 100 fps. Higher frame rates result in a reduction of the image refresh rate for network transmission.

Why does the RAS+ program not display live imagery although the connection is good?

To display live imagery from a recorder in RAS+ please drag the symbol for the required camera or remote location into a free video window and then select "Surveillance View". Live imagery is now displayed.

How do I permanently position a menu in RAS+ so that it is integrated into the screen display?

Please do the following to position a menu permanently in the screen display: Press the left mouse but-

ton and drag the required menu. A coordinate system is displayed. Keeping the mouse button pressed down, go to the coordinate system. The position of the menu window is highlighted in blue. When the required position for the menu window has been reached release the mouse button. The menu window is now placed in this position.

Is it possible to export minibank files larger than 2 GB with RAS+?

It is possible to export minibank files larger than 2 GB with RAS+. A check mark must be placed against the option "No File Size Limit" in RAS+. Data is now saved on the destination drive in numbered 2-GB files.

Can the RAS+ configuration be password-protected?

Yes, please take the following action: In the RAS+ "Setup" menu click on the "System2" button. Under "Security Options" place a check mark against "Check Password: Before Configuration". The password entered at "Change" is now requested when setup is accessed.

Is proxy server access also possible for RAS+?

A proxy can not be entered in the RAS+ program. A proxy normally has only Port 80 open to access the internet (HTML). RAS+ needs the following open ports:
 RAS watch: 8016
 RAS search: 10019
 RAS admin: 8200
 Call Back: 8201
 Audio: 8116
 WebGuard: 12088
Does the RAS+ program support server/client operation?

Client/Server operation is not possible with RAS+. The program is purely a standalone application.

Is it possible to transfer all recorders (remote locations) saved in RAS+ to another computer?

All configuration settings are saved in the file "RAS-plus_Setup.xml". When this file is copied to a different computer it then also has access to the recorders and remote locations.

Can RAS+ be installed and operated on Windows 2000?

The RAS+ program is not compatible with Windows 2000. It can only be installed and used on the operating systems Windows XP, Windows Vista and Windows 7.

Why is the "Wrong Product Version" error message displayed in RAS+ for the recorder connection?

This error message is caused by the RAS+ program on your computer and the firmware on your recorder having different versions. When you update the RAS+ software on your computer please make sure that you also install the latest firmware on your recorder.

MONITORS

Does the VMC-6.4/2-MM1 monitor display camera imagery automatically after switch-on?

Yes, camera imagery is shown automatically after the power supply is switched on if a video signal is present at input 1.

What is the behaviour of the VMC-5.6/1-LCD monitor when a video signal is no longer present?

When a video signal is no longer present the screen turns blue, after approximately 10 seconds the chan-

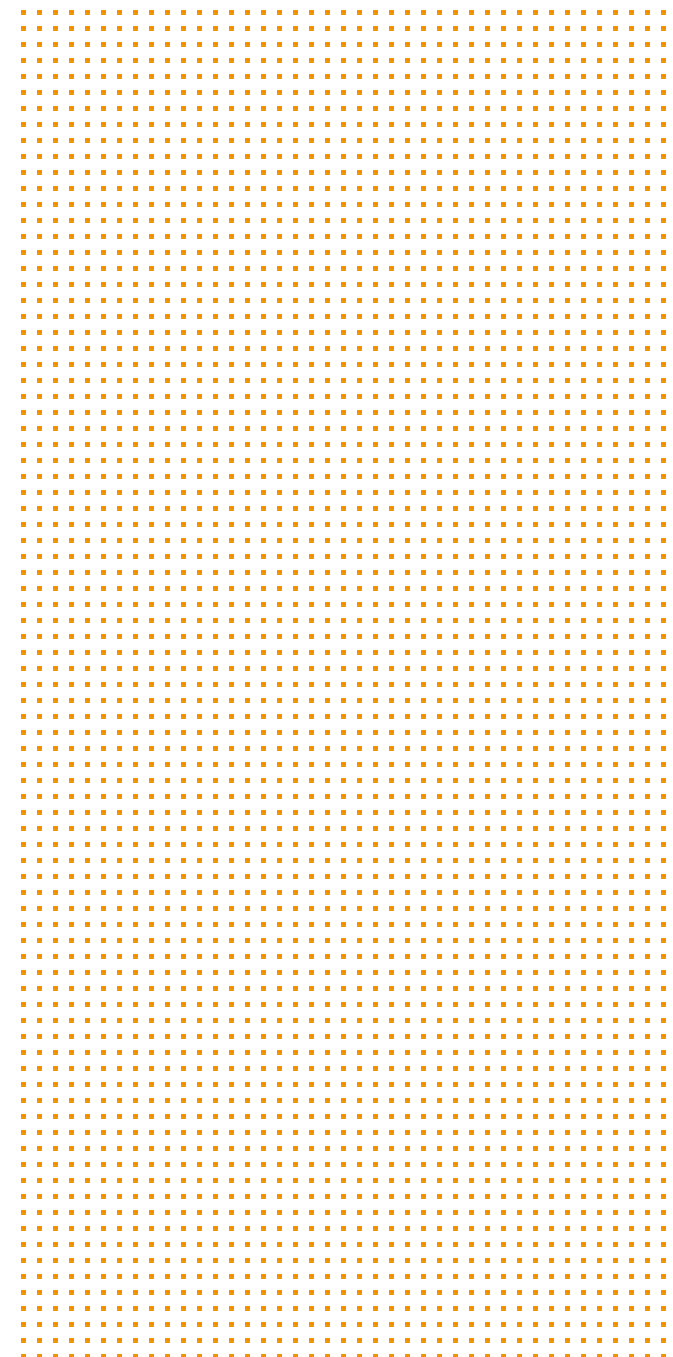
nel display (AV1 or AV2) also goes out, however the monitor does not switch off. The monitor automatically switches to input AV1 when the power is switched off and then on.



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1/2" - M25X1.5	88189	24	DLR-2008/500V	72996	50	EDC-OPS-2/24V	74136	33	F06Z10NDDC-1	41114	30	NE-115/24V	79704	34	VHM/ZB-VPT055LG	79697	38
2X-EX/C	41231	30	DLR-2016/1000V	73188	52	EDC-OPX/IPX-CC1	74143	24	F06Z10NDDCPO	40239	30	NE-115	79415	62	VHM/ZLA-W	79681	31
3/4" - M25X1.5	88149	24	DLR-2016/500V	72997	52	EDC-PBP	74095	24	F07Z07NDDC-NFS	43249	29	NE-119/24V	79568	62	VHM/ZLKB-W	79682	31
A0314M1	43071	27	DLR-20XX		45	EDC-PM7	74055	24	F20Z05NDDC	43247	29	NE-128	70449	62	VHM/ZLKB-W	79683	31
A04Z12NDDC-NFS	43248	28	DLR-4		45	EDC-RTB2	74140	24	FASTRAX_CONFIG	74124	24	NE-129/12V	79661	62	VHU/DP-165	79481	32
A07Z16NDDC-MP	40242	30	DLR4-04/1.75TD	98556	48	EDC-WMB1	74127	24	G04Z02M	43131	28	NE-130/12V	79662	62	VHU/DP-260	79482	32
A08Z06NDDCPO	40229	30	DLR4-04/1.5TBD	73198	48	EDM-40	72651	42	G04Z02NDDC	43133	28	NE-131/12V	79663	62	VHU-165/12V	79466	32
A08Z08NDDC	47422	30	DLR4-04/2.5TBD	73199	48	EDMC/CWB-1	74155	24	G04Z03M-NFS	43252	28	NE-132/AC24V	70527	62	VHU-165/24V	79549	32
A08Z08NDDCPO	47423	30	DLR4-04/500D	72987	49	EDMC/H12	74099	24	G04Z03NDDC-NFS	43251	28	NE-133	70537	62	VHU-260/12V	79467	32
A09Z10DC-NFS-MP	43266	28	DLR4-08/1.5TBD	73194	50	EDMC/H24	74104	24	G1214NDDC	47128	27	PCS-19/DVR-08	90564	55	VHU-260/230V	79493	32
A10Z04M-NFS	43269	28	DLR4-08/1.5TBDV	73189	50	EDMC-3221/E	74230	23	GF6/50	88154	30	PCS-VIEWER	90573	55	VHU-260/24V	79552	32
A10Z04NDDC-NFS	43239	28	DLR4-08/2.5TBD	73195	49	EDMC-3221	74225	23	GK-2/W1	73136	34	PDU-1	72441	43	VHU-AKS/12-24V	79499	35
A1214M1	43067	27	DLR4-08/2.5TBDV	73191	49	EDMC-RTB	74107	24	HO225M	40059	16	PM-41	73146	34	VHU-NT1	79494	16
A14	83450	62	DLR4-08/500D	72991	50	EGLC-3	72612	43	HO2625M	40073	16	PM-42	73179	34	VHU-NT2	79557	16
A19	80270	62	DLR4-08/500DV	72988	50	EHL-BLS/12VDC	79665	34	HDD-1000SATA-HZ	72952	53	PM-42	73179	34	VK-13165/12V	91931	15
A21	80220	62	DLR4-16/1.5TBD	73196	51	EHL-BLS/230V	79664	34	HDD-2000SATA	72998	53	PM-51-W	73166	34	VK-13165/230V	91933	15
A25	83480	62	DLR4-16/1.5TBDV	73192	52	EHL-W/ECLKA	79653	31	HDD-500SATA-H	72975	53	PM-60	79593	34	VK-13175	91926	15
A80	84390	62	DLR4-16/2.5TBD	73197	51	EHL-W/ECLKB	79654	31	HDD-500SATA-W	72924	53	PM-65	79592	34	VK-1319	91866	15
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AK-2	70456	62	DLR4-16/500D	72992	52	EKR-8/16-4KB	75205	43	IR LED150-A-20	71734	39	POE INJECTOR-01	79707	34	VK-1324B/W3	96102	13
AK-3	70457	62	DLR4-16/500DV	72989	52	EKR-8/4	75202	42	IR LED150-A-50	71732	39	PTB-1	72501	34	VK-1327A/VAR49	92154	11
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B18206M1	47144	30	DMR-5016/1.5	72983	52	EKR-PTZF1-R2	75212	43	IR LED300-A-50	71756	39	RAS+	71922	53	VK-1331	91978	14
B2514MV-MP	42005	27	DMR-5016/2.5	73185	51	EMG-1	71497	33	IR LED300-A-50R	71757	39	SU-6	79604	34	VK-1331A	92531	13
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BB-300	86450	63	DMR-50XX		45	ESH/CB	79656	34	IR LED300C-A-50	71737	39	USB-8COM	72934	53	VK-1332/3.65MD	91987	14
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BJ-CM	85510	62	EDC-3222	74193	23	ESH/NE24VAC	79636	34	KBD-2	74149	25	VCQ-6057	72614	42	VK-1343/WD1	92111	16
BJ-CMV	85360	63	EDC-3351	74159	23	ESH/PM	79655	34	KBD-2	74149	53	VDA/AVU-RMK1	76407	43	VK-1344/3.8	92077	13
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BLR-3004/2.SDV	72966	48	EDC-4362	74224	23	ESH-1/WB	79716	34	KBD-NSC-100	74746	25	VDA-4A	75101	42	VK-1352	92095	10
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BLR-3008/2.SDV	72969	49	EDC-AKS2	74163	24	ESH-20	79625	31	LCD-15P-RMK	90396	60	VDOME/WB2	74151	25	VK-1356-1/IR	92218	10
BLR-3008/500DV	72967	50	EDC-CMA2	74054	24	EV-011A	88161	63	LCD-17P-RMK	90397	60	VDOME/WB3	92557	25	VK-1357B	92753	9
BLR-3016/1.SDV	72972	51	EDC-CMA3	73155	24	EV-012	88162	63	LCD-19P-RMK	90475	60	VDOME/WB4	92562	25	VK-1358A/IR922	92553	10
BLR-3016/2.SDV	72973	51	EDC-CMT1	74128	24	EV-013	88166	63	LCD-ST/CM1	90491	60	VDOME/WEDGE1	92563	25	VK-1358A/IR	92552	10
BLR-3016/500DV	72971	52	EDC-COAX	74094	24	EV-021A	88157	63	LCD-ST/HM	90553	60	VHM/DP-ECL210-W	79673	31	VK-1359BIR/W3P	96103	9
BLR-30XX		45	EDC-CR1	74089	23	EV-032A	88158	63	LCD-ST/P	90395	60	VHM/ECLKA-210-W	79675	31	VK-1360/12-24	92573	10
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C0814MV-MP	42039	27	EDC-IPC-2/24V	74135	24	F02Z02NDDC	43199	28	MCAB-1	87404	63	VHM/ECLKB-KIT1W	79687	31	VK-1366	92529	13
C2514M	43015	27	EDC-IPC-2/24V	74135	33	F03Z04M	43212	28	MCAB-2/100	87406	63	VHM/ECLKB-W	79676	31	VK-1367/IR-1850	96094	12
C5018M	43029	27	EDC-IPS-2/24V	74134	24	F03Z04NDDC	43213	28	MCAB-2/200	87407	63	VHM/H220	71301	34	VK-1368-WL/W3	96096	13
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CMA-11	73137	34	EDC-KBD1	74088	16	F03Z2.6M-NFSHR	43275	28	MK-21	73139	38	VHM/KV1	79609	35	VK-1370	92537	12
CMA-2	79613	34	EDC-KBD1	74088	24	F0412M-NFS	47157	27	MK-22	73156	38	VHM/KV2	79627	35	VK-1371/IR-3.6	92543	11
DH-5-W	73176	34	EDC-KBD1	74088	53	F0420310NDDC	43214	29	MK-5-W	73173	34	VHM/KV5	79612	35	VK-1371/IR-6	92542	11
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DLR-1004/1000V	73182	48	EDC-KBDM-3	74092	16	F05Z10M	43195	28	MMX	90556	53	VHM/STLA-W	79678	31	VK-1373/VAR210	92545	10
DLR-1004/500V	72977	49	EDC-KBDM-3	74092	53	F05Z10NDDC	43196	29	NE-109N	73827	40	VHM/STLB-W	79679	31	VK-1374/IR	92555	11
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DLR-2004/500V	72995	49	EDC-OPC-2/24V	74130	33	F0612NDDC-NFS	47149	27	NE-112/AC24V	79491	62	VHM/ZKIT	79615	35	VK-1375	92567	8
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VKC-1378/IR-650	92595	10	VMC-5.6/2-LCD	90567	58	W LED300K-25	71743	40
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VKC-1381/IR-3.6	92594	11	VMC-6.4LCD-P1	90511	58	WD-12-WA	70835	16
VKC-1382/IR-316	92594	8	VMC-8LCD-CM01	90563	58	WD-13/E-WA	70833	16
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