

PRODUCT CATALOG

AHD VIDEO SURVEILLANCE

noVus[®]



AHD by noVus[®]
TECHNOLOGY

HYBRID
SYSTEM

MOTOR
ZOOM

FISHEYE

MULTI
STANDARD

STARLIGHT



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AHD brief description



4Mpx
(2688 x 1520)

HIGH IMAGE QUALITY- 4 Mpx

The dynamic development of analog high-resolution systems resulted in the creation of devices with 4 Mpx resolution. Thanks to that we have the opportunity for observation and recording of images with a large amount of details.



MOTOR-ZOOM

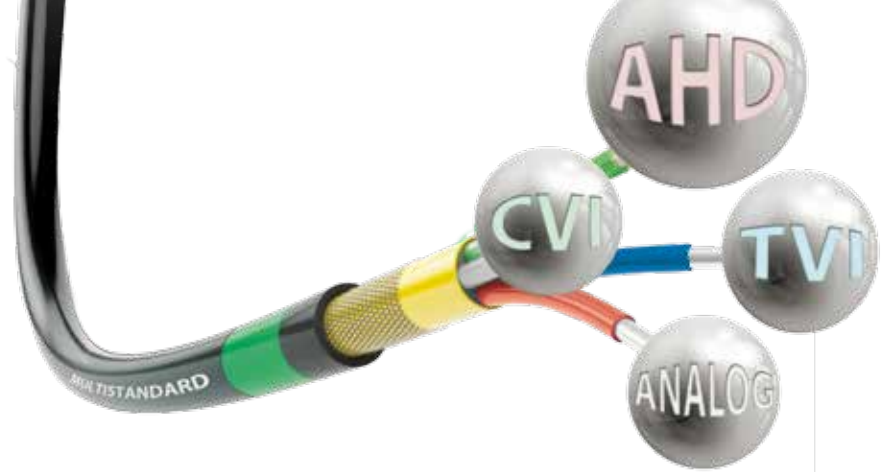
Selected cameras in AHD Multistandard technology, as well as AHD 4 Mpx have been equipped with a motor-zoom lens allowing remote focus and focal adjustment.



CONVENIENCE OF CONTROL

The new version of AHD devices is distinguished by the ability to manage the camera functions, ie navigating the menu, changing settings, controlling the lens or PTZ (rotating cameras) from the recorder via the video cable.





MULTI STANDARD HYBRID SYSTEM

MULTISTANDARD

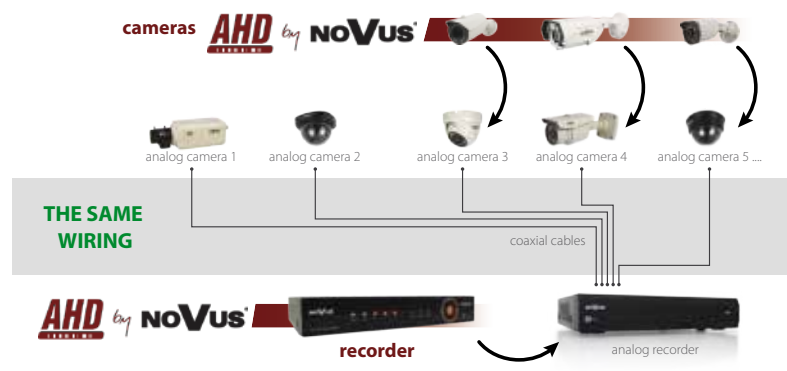
Due to the growing market expectations, a new version of AHD by NOVUS technology appeared - AHD Multistandard. It ensures the operation of devices in the selected high resolution standard: AHD, CVI and TVI and additionally in the standard 960H resolution. In addition, NOVUS AHD recorders operate in hybrid mode, allowing simultaneous connection of AHD and IP cameras.

NOVUS MANAGEMENT SYSTEM

COMPATIBILITY WITH NMS

The AHD by NOVUS recorders are compatible with the well-known and proven NMS software, which ensures effective operation in hybrid mode and the possibility of gradual modernization and expansion of the system.

EASY INSTEELLATION FOR THE SIMULTANEOUS WORK OF ANALOG AND AHD CAMERAS



Easy insteellation for the simultaneous work of analog and AHD cameras





AHD technology enables transmission of a 1920x1080 resolution signal over a distance of up to 500 m, and in 4 Mpx at a distance of 350 m using a coaxial cable. Thanks to this, insteellation of the system becomes simple. No knowledge of IT network technology is required for assembly. Setting the remote preview thanks to the P2P technology is very easy - just use the phone to scan the QR-code.

AHD CAMERAS 720p








	NVAHD-1DN3101D/IR-1	NVAHD-1C5102D-1	NVAHD-1DN5102D/IR-1
			
Image			
Image Sensor	CMOS sensor 1/4" APTINA	CMOS sensor 1/3" SONY	CMOS sensor 1/3" SONY
Operating mode	AHD 720p, analog 960H*	AHD 720p, analog 960H	AHD 720p, analog 960H
Number of Effective Pixels	1280 (H) x 800 (V)	1280 (H) x 1024 (V)	1280 (H) x 1024 (V)
Horizontal Resolution	720p	720p	720p
Min. Illumination	0.03 lx/F1.2 - color mode 0.001 lx/F1.2 - B/W mode 0 lx (IR on) - B/W mode	0.5 lx/F1.4 - color mode 0.001 lx/F1.4 - B/W mode 0.0001 lx/F1.4 - B/W mode (DSS)	0.25 lx/F1.4 - color mode 0.005 lx/F1.4 - B/W mode 0.0005 lx/F1.4 - color mode (DSS) 0.00005 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode
Digital Slow Shutter (DSS)	up to 30x *	up to 30x	up to 30x
High Light Compensation (HLC)	yes*	yes	yes
Wide Dynamic Range (WDR)	yes*	yes	yes
Digital Noise Reduction (DNR)	2D, 3D*	2D, 3D	2D, 3D
Defog Function (F-DNR)	yes*	yes	yes
Lens			
Lens Type	standard, f=3.6 mm/F1.2	varifocal, f=2.8 ~ 12 mm/F1.4	varifocal, f=2.8 ~ 12 mm/F1.4
Day/Night			
Switching Type	mechanical IR cut filter	electronic D/N function	mechanical IR cut filter
Switching Mode	auto, manual*	auto, manual	auto, manual
Other functions			
OSD	languages: Polish, English, Russian, others*	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others
Privacy Zones	4*	4	4
Motion Detection	yes*	yes	yes
Remote control	yes (optional UTC remote control)*	yes (optional UTC remote control)	yes (optional UTC remote control)
IR LED			
LED Number	24	-	24
Range	15 m	-	15 m
Angle	75°	-	120°
Interfaces			
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters			
Enclosure	plastic, white	plastic, white	plastic, white
Power Supply	12 V DC	12 V DC	12 V DC
Power consumption	0.9 W/3 W (IR on)	0.9 W	1.3 W/2.9 W (IR on)
Operating Temperature	-20°C ~ 50°C	-30°C ~ 45°C	-30°C ~ 40°C
Heater/Fan	-/-	-/-	-/-
Degree of Protection	-	-	-
Dimensions (mm)	92 (Ø) x 75 (H)	128 (Ø) x 90 (H)	112 (Ø) x 87 (H)

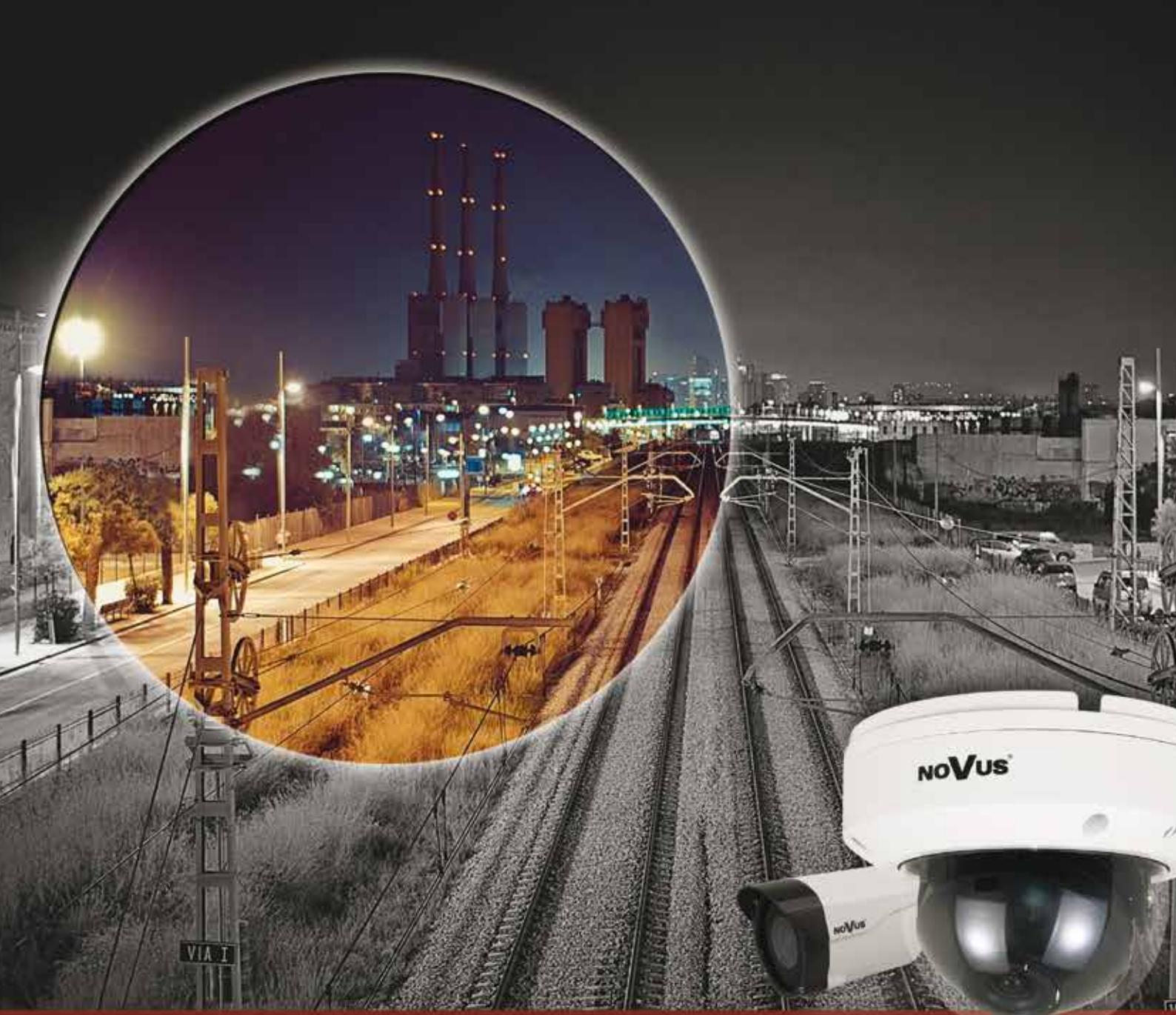
*Functions available only with an optional remote control NV-RCUTC-35HD

NVAHD-1DN3103V/IR-1	NVAHD-1DN5101V/IR-1	NVAHD-1DN5102V/IR-1	NVAHD-1DN5301V-1
			
CMOS sensor 1/4" APTINA	CMOS sensor 1/3" SONY	CMOS sensor 1/3" SONY	CMOS sensor 1/2" SMARTSENS
AHD 720p, analog 960H*	AHD 720p, analog 960H	AHD 720p, analog 960H	AHD 720p
1280 (H) x 800 (V)	1280 (H) x 1024 (V)	1280 (H) x 1024 (V)	1280 (H) x 720 (V)
720p	720p	720p	720p
0.03 lx/F1.2 - color mode 0.0013 lx/F1.2 - B/W mode 0 lx (IR on) - B/W mode	0.5 lx/F2.0 - color mode 0.01 lx/F2.0 - B/W mode 0.001 lx/F2.0 - color mode (DSS) 0.0001 lx/F2.0 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.25 lx/F1.4 - color mode 0.005 lx/F1.4 - B/W mode 0.0005 lx/F1.4 - color mode (DSS) 0.00005 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.00001 lx/F1.2 - color mode
up to 30x *	up to 30x	up to 30x	up to 2x
yes*	yes	yes	-
yes*	yes	yes	-
2D, 3D*	2D, 3D	2D, 3D	3D
yes*	yes	yes	-
standard, f=3.6 mm/F1.2	standard, f=3.6 mm/F2.0	varifocal, f=2.8 ~ 12 mm/F1.4	standard, f=3.6 mm/F1.2
mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
auto, manual*	auto, manual	auto, manual	manual
languages: Polish, English, Russian, others*	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others	languages: English, others
4*	4	4	-
yes*	yes	yes	-
yes (optional UTC remote control)*	yes (optional UTC remote control)	yes (optional UTC remote control)	-
36	24	2	-
15 m	15 m	30 m	-
75°	80°	100°	-
BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
vandal proof aluminum, ivory color	vandal proof aluminum, ivory color	vandal proof aluminum, ivory color	vandal-proof protection grade IK10 aluminum, in white polycarbonate diffuser
12 V DC	12 V DC	12 V DC	12 V DC
1 W/2.1 W (IR on)	1.2 W/3.2 W (IR on)	1.5 W/4.5 W (IR on)	1 W
-20°C ~ 50°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C
-/-	-/-	-/-	-/-
IP66 (details in the user's manual)	IP65 (details in the user's manual)	IP66 (details in the user's manual)	IP66 (details in the user's manual)
55 (Ø) x 60 (H)	93 (Ø) x 75 (H)	120 (Ø) x 98 (H)	145 (Ø) x 109 (H)

AHD CAMERAS 720p



	NVAHD-1DN5101H/IR-1	NVAHD-1DN5102H/IR-1	NVAHD-1DN5106H/IR-1	NVAHD-1DN5301H-1
				
				
Image				
Image Sensor	CMOS sensor 1/3"SONY	CMOS sensor 1/3"SONY	CMOS sensor 1/3"SONY	CMOS sensor 1/2"SMARTSENS
Operating mode	AHD 720p, analog 960H	AHD 720p, analog 960H	AHD 720p, analog 960H	AHD 720p
Number of Effective Pixels	1280 (H) x 1024 (V)	1280 (H) x 1024 (V)	1280 (H) x 1024 (V)	1280 (H) x 720 (V)
Horizontal Resolution	720p	720p	720p	720p
Min. Illumination	0.5 lx/F2.0 - color mode 0.01 lx/F2.0 - B/W mode 0.001 lx/F2.0 - color mode (DSS) 0.0001 lx/F2.0 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.25 lx/F1.4 - color mode 0.005 lx/F1.4 - B/W mode 0.0005 lx/F1.4 - color mode (DSS) 0.00005 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.25 lx/F1.4 - color mode 0.005 lx/F1.4 - B/W mode 0.0001 lx/F1.4 - color mode (DSS) 0.00005 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.00001 lx/F1.2 - color mode
Digital Slow Shutter (DSS)	up to 30x	up to 30x	up to 30x	do 2x
High Light Compensation (HLC)	yes	yes	yes	-
Wide Dynamic Range (WDR)	yes	yes	yes	-
Digital Noise Reduction (DNR)	2D, 3D	2D, 3D	2D, 3D	3D
Defog Function (F-DNR)	yes	yes	yes	-
Lens				
Lens Type	standard, f=3.6 mm/F2.0	varifocal, f=2.8 ~ 12 mm/F1.4	varifocal, f=2.8 ~ 12 mm/F1.4	standard, f=3.6 mm/F1.2
Day/Night				
Switching Type	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
Switching Mode	auto, manual	auto, manual	auto, manual	manualny
Other functions				
OSD	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others	languages: English, others
Privacy Zones	4	4	4	-
Motion Detection	yes	yes	yes	-
Remote control	yes (optional UTC remote control)	yes (optional UTC remote control)	yes (optional UTC remote control)	-
IR LED				
LED Number	24	40	8	-
Range	15 m	20 m	30 m	-
Angle	80°	120°	120°	-
Interfaces				
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters				
Enclosure	aluminum, ivory, wall bracket with cable entry included	aluminum, ivory, wall bracket with cable entry included	aluminum, ivory, wall bracket with cable entry included	aluminum, ivory, wall bracket with cable entry included
Power Supply	12 V DC	12 V DC	12 V DC	12 V DC
Power consumption	1.2 W/3.2 W (IR on)	1.5 W/4 W (IR on)	1.6 W/7.5 W (IR on)	1 W
Operating Temperature	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C
Heater/Fan	-/-	-/-	-/-	-/-
Degree of Protection	IP66 (details in the user's manual)	IP66 (details in the user's manual)	IP66 (details in the user's manual)	IP66 (details in the user's manual)
Dimensions (mm)	with handle 70 (W) x 70 (H) x 173(L)	with handle 88 (W) x 88 (H) x 220(L)	with handle 84 (W) x 84 (H) x 270(L)	with handle 65 (Φ) x 185(L)



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AHD CAMERAS 1080p



	NVAHD-2DN5102MD/IR-1	NVAHD-2DN5504MD/IR-1	NVAHD-2DN3201MV/IR-1-II
	 <p>MULTI STANDARD</p>	 <p>MOTOR ZOOM MULTI STANDARD</p>	 <p>MULTI STANDARD</p>
Obraz			
Image Sensor	CMOS sensor 1/2.9"SONY	CMOS sensor 1/2.9"SONY	CMOS sensor 1/2.9"SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)	1984 (H) x 1105 (V)	1985 (H) x 1105 (V)
Horizontal Resolution	1080p	1080p	1080p
Min. Illumination	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.02 lx/F1.4 - color mode 0 lx (IR on) - B/W mode	0.1 lx/F2.0 - color mode 0.05 lx/F2.0 - B/W mode 0 lx (IR on) - B/W mode
Digital Slow Shutter (DSS)	up to 30x	-	up to 30x
High Light Compensation (HLC)	yes	-	yes
Wide Dynamic Range (WDR)	yes	yes	yes
Digital Noise Reduction (DNR)	2D, 3D	2D	2D, 3D
Defog Function (F-DNR)	yes	-	yes
Lens			
Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4	motor-zoom, f=2.8 ~ 12 mm/F1.4	standard, f=2.8 mm/F2.0
Day/Night			
Switching Type	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
Switching Mode	auto, manual	auto, manual	auto, manual
Other functions			
OSD	languages: Polish, English, Russian, others	languages: English	languages: Polish, English, Russian, others
Privacy Zones	4	-	4
Motion Detection	yes	-	yes
Remote control	yes (COAX protocol)	yes (COAX protocol)	yes (COAX protocol)
IR LED			
LED Number	24	15	18
Range	15 m	30 m	25 m
Angle	120°	60°	60°
Interfaces			
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters			
Enclosure	plastic, white	plastic with in-ceiling mounting, white	vandal proof, aluminum, white color
Power Supply	12 V DC	12 V DC	12 V DC
Power Supply	1 W/2.7 W (IR on)	1.7 W/4.5 W (IR on)	1 W/5 W (IR on)
Operating Temperature	-30°C ~ 40°C	-10°C ~ 55°C	-30°C ~ 55°C
Heater/Fan	-/-	-/-	-/-
Degree of Protection	-	-	IP66 (details in the user's manual)
Dimensions (mm)	112 (Φ) x 87 (H)	130 (Φ) x 112 (H)	100 (Φ) x 90 (H)

NVAHD-2DN3202MV/IR-1-II	NVAHD-2DN5101MV/IR-1	NVAHD-2DN5102MV/IR-1	NVAHD-2DN5103MV/IR-1
			 FISHEYE
MULTI STANDARD	MULTI STANDARD	MULTI STANDARD	MULTI STANDARD
CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY
AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
1985 (H) x 1105 (V)	1985 (H) x 1105 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
1080p	1080p	1080p	1080p
0.1 lx/F1.3 - color mode 0.05 lx/F1.3 - B/W mode 0 lx (IR on) - B/W mode	0.5 lx/F1.9 - color mode 0.05 lx/F1.9 - B/W mode 0.005 lx/F1.9 - color mode (DSS) 0.0005 lx/F1.9 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode
up to 30x	up to 30x	up to 30x	up to 30x
yes	yes	yes	yes
yes	yes	yes	yes
2D, 3D	2D, 3D	2D, 3D	2D, 3D
yes	yes	yes	yes
varifocal, f=2.7 ~ 13.5 mm/F1.3	standard, f=3.6 mm/F1.9	varifocal, f=2.8 ~ 12 mm/F1.4	„fisheye“, f=1.6 mm/F1.4
mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
auto, manual	auto, manual	auto, manual	auto, manual
languages: Polish, English, Russian, others	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others (joystick on the cable)
4	4	4	4
yes	yes	yes	yes
yes (COAX protocol)	yes (COAX protocol)	yes (COAX protocol)	yes (COAX protocol)
40	24	18	4
35 m	15 m	30 m	5 m
120°	80°	100°	120°
BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
vandal proof, aluminum, white color	vandal proof, aluminum, white color	vandal proof, aluminum, ivory color	vandal proof
12 V DC	12 V DC	12 V DC	12 V DC
1 W/5 W (IR on)	1 W/4 W (IR on)	1.2 W/3.6 W (IR on)	1 W/6 W (IR on)
-30°C ~ 55°C	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 40°C
-/-	-/-	-/-	-/-
IP66 (details in the user's manual)	IP65 (details in the user's manual)	IP66 (details in the user's manual)	IP55 (details in the user's manual)
120 (Φ) x 98 (H)	145 (Φ) x 109 (H)	95 (Φ) x 63 (H)	119 (Φ) x 100 (H)

AHD CAMERAS 1080p



	NVAHD-2DN5202MV/IR-1	NVAHD-2DN5204MV/IR-1	NVAHD-2DN5501MV/IR-1
	 MULTI STANDARD	 MULTI STANDARD	MULTI STANDARD
Obraz			
Image Sensor	CMOS sensor 1/2.9"SONY	CMOS sensor 1/2.9"SONY	CMOS sensor 1/2.9"SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Horizontal Resolution	1080p	1080p	1080p
Min. Illumination	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS) 0 lx (IR on)\	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.03 lx/F2.0 - color mode 0 lx (IR on) - B/W mode
Digital Slow Shutter (DSS)	up to 30x	up to 30x	-
High Light Compensation (HLC)	yes	yes	-
Wide Dynamic Range (WDR)	yes	yes	yes
Digital Noise Reduction (DNR)	2D, 3D	2D, 3D	2D
Defog Function (F-DNR)	yes	yes	-
Lens			
Lens Type	motor-zoom, f=2.8 ~ 12 mm/F1.4	motor-zoom, f=2.8 ~ 12 mm/F1.4	standard, f=3.6 mm/F2.0
Day/Night			
Switching Type	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
Switching Mode	auto, manual	auto, manual	auto, manual
Other functions			
OSD	languages: Polish, English, Russian, others	języki: polski, angielski, inne	languages: English
Privacy Zones	4	4	-
Motion Detection	yes	yes	-
Remote control	yes (optional UTC remote control)	yes (optional UTC remote control)	yes (COAX protocol or optional UTC remote control)
IR LED			
LED Number	18	35	12
Range	30 m	20 m	10 m
Angle	100°	80°	60°
Interfaces			
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters			
Enclosure	vandal proof, aluminum, white color	vandal-proof protection grade IK10 aluminum, in white polycarbonate diffuser	vandal proof, aluminum, white color
Power Supply	12 V DC	12 V DC	12 V DC
Power consumption	2.5 W/5 W (IR on)	1 W/3.5 W (IR on)	1 W/3 W (IR on)
Operating Temperature	-30°C ~ 40°C	-30°C ~ 40°C	-30°C ~ 55°C
Heater/Fan	-/-	-/-	-/-
Degree of Protection	IP66 (details in the user's manual)	IP66 (details in the user's manual)	IP66 (details in the user's manual)
Dimensions (mm)	120 (Ø) x 98 (H)	145 (Ø) x 109 (H)	95 (Ø) x 63 (H)



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AHD CAMERAS 1080p



	NVAHD-2DN5504MV/IR-1	NVAHD-2DN3201MH/IR-1-II	NVAHD-2DN3202MH/IR-1-II	NVAHD-2DN5101MH/IR-1
	  MULTI STANDARD	 MULTI STANDARD	 MULTI STANDARD	 MULTI STANDARD
Obraz				
Image Sensor	CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)	1985 (H) x 1105 (V)	1985 (H) x 1105 (V)	1985 (H) x 1105 (V)
Horizontal Resolution	1080p	1080p	1080p	1080p
Min. Illumination	0.01 lx/F1.4 - color mode 0 lx (IR on) - B/W mode	0.1 lx/F2.0 - color mode 0.05 lx/F2.0 - B/W mode 0 lx (IR on) - B/W mode	0.1 lx/F1.2 - color mode 0.05 lx/F1.2 - B/W mode 0 lx (IR on) - B/W mode	0.5 lx/F1.9 - color mode 0.05 lx/F1.9 - B/W mode 0.005 lx/F1.9 - color mode (DSS) 0.0005 lx/F1.9 - B/W mode (DSS) 0 lx (IR on) - B/W mode
Digital Slow Shutter (DSS)	-	up to 30x	up to 30x	up to 30x
High Light Compensation (HLC)	-	yes	yes	yes
Wide Dynamic Range (WDR)	yes	yes	yes	yes
Digital Noise Reduction (DNR)	2D	2D, 3D	2D, 3D	2D, 3D
Defog Function (F-DNR)	-	yes	yes	yes
Lens				
Lens Type	motor-zoom, f=2.8 ~ 12 mm/F1.4	standard, f=2.8 mm/F2.0	varifocal, f=2.7 ~ 13.5 mm/F1.3	standard, f=3.6 mm/F1.9
Day/Night				
Switching Type	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
Switching Mode	auto, manual	auto, manual	auto, manual	auto, manual
Other functions				
OSD	languages: English	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others (joystick on the cable)
Privacy Zones	-	4	4	4
Motion Detection	-	yes	yes	yes
Remote control	yes (COAX protocol or optional UTC remote control)	yes (COAX protocol)	yes (COAX protocol)	yes (COAX protocol)
IR LED				
LED Number	24	18	30	24
Range	35 m	25 m	40 m	15 m
Angle	60°	60°	120°	80°
Interfaces				
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters				
Enclosure	vandal proof, aluminum, white color	aluminum, ivory, wall bracket with cable entry included	aluminum, ivory, wall bracket with cable entry included	aluminum, ivory, wall bracket with cable entry included
Power Supply	12 V DC	12 V DC	12 V DC	12 V DC
Power consumption	1 W/5 W (IR on)	1 W/5 W (IR on)	1 W/5 W (IR on)	1 W/4 W (IR on)
Operating Temperature	-30°C ~ 55°C	-30°C ~ 55°C	-20°C ~ 55°C	-30°C ~ 40°C
Heater/Fan	-/-	-/-	-/-	-/-
Degree of Protection	IP66 (details in the user's manual)	IP66 (details in the user's manual)	IP66 (details in the user's manual)	IP66 (details in the user's manual)
Dimensions (mm)	119 (Φ) x 100 (H)	with handle 71 (Φ) x 138(L)	with handle 84 (Φ) x 241(L)	with handle 70 (Φ) x 173(L)



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AHD CAMERAS 1080p



	NVAHD-2DN5102MH/IR-1	NVAHD-2DN5104MH/IRH-2	NVAHD-2DN5106MH/IR-1
			
	MULTI STANDARD	MULTI STANDARD	MULTI STANDARD
Obraz			
Image Sensor	CMOS sensor 1/2.9"SONY	CMOS sensor 1/2.9"SONY	CMOS sensor 1/2.9"SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)	1985 (H) x 1105 (V)	1920 (H) x 1080 (V)
Horizontal Resolution	1080p	1080p	1080p
Min. Illumination	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.5 lx/F1.2 - color mode 0.01 lx/F1.2 - B/W mode 0 lx (IR on) - B/W mode	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode
Digital Slow Shutter (DSS)	up to 30x	-	up to 30x
High Light Compensation (HLC)	yes	-	yes
Wide Dynamic Range (WDR)	yes	yes	yes
Digital Noise Reduction (DNR)	2D, 3D	2D	2D, 3D
Defog Function (F-DNR)	yes	-	yes
Lens			
Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4	varifocal, f=2.8 ~ 12 mm/F1.2	varifocal, f=2.8 ~ 12 mm/F1.4
Day/Night			
Switching Type	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
Switching Mode	auto, manual	auto, manual	auto, manual
Other functions			
OSD	languages: Polish, English, Russian, others (joystick on the cable)	languages: English, Russian, others	languages: Polish, English, Russian, others (joystick on the cable)
Privacy Zones	4	-	4
Motion Detection	yes	-	yes
Remote control	yes (COAX protocol)	yes (COAX protocol or optional UTC remote control)	yes (COAX protocol)
IR LED			
LED Number	18	2	30
Range	20 m	40 m	35 m
Angle	120°	90°	120°
Interfaces			
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters			
Enclosure	aluminum, white, wall bracket with cable entry included	aluminum, white, wall bracket with cable entry included	aluminum, white, wall bracket with cable entry included
Power Supply	12 V DC	12 V DC, 24 V AC	12 V DC
Power consumption	1 W/3.3 W (IR on)	1 W/7 W (IR on)/14.2 W (IR and heater on)	1.2 W/5 W (IR on)
Operating Temperature	-30°C ~ 40°C	-30°C ~ 50°C	-30°C ~ 40°C
Heater/Fan	-/-	yes/nie	-/-
Degree of Protection	IP66 (details in the user's manual)	IP66 (details in the user's manual)	IP66 (details in the user's manual)
Dimensions (mm)	with handle:88 (Φ) x 220(L)	with handle:109 (W) x 111 (H) x 259(L)	with handle:84 (Φ) x 270(L)

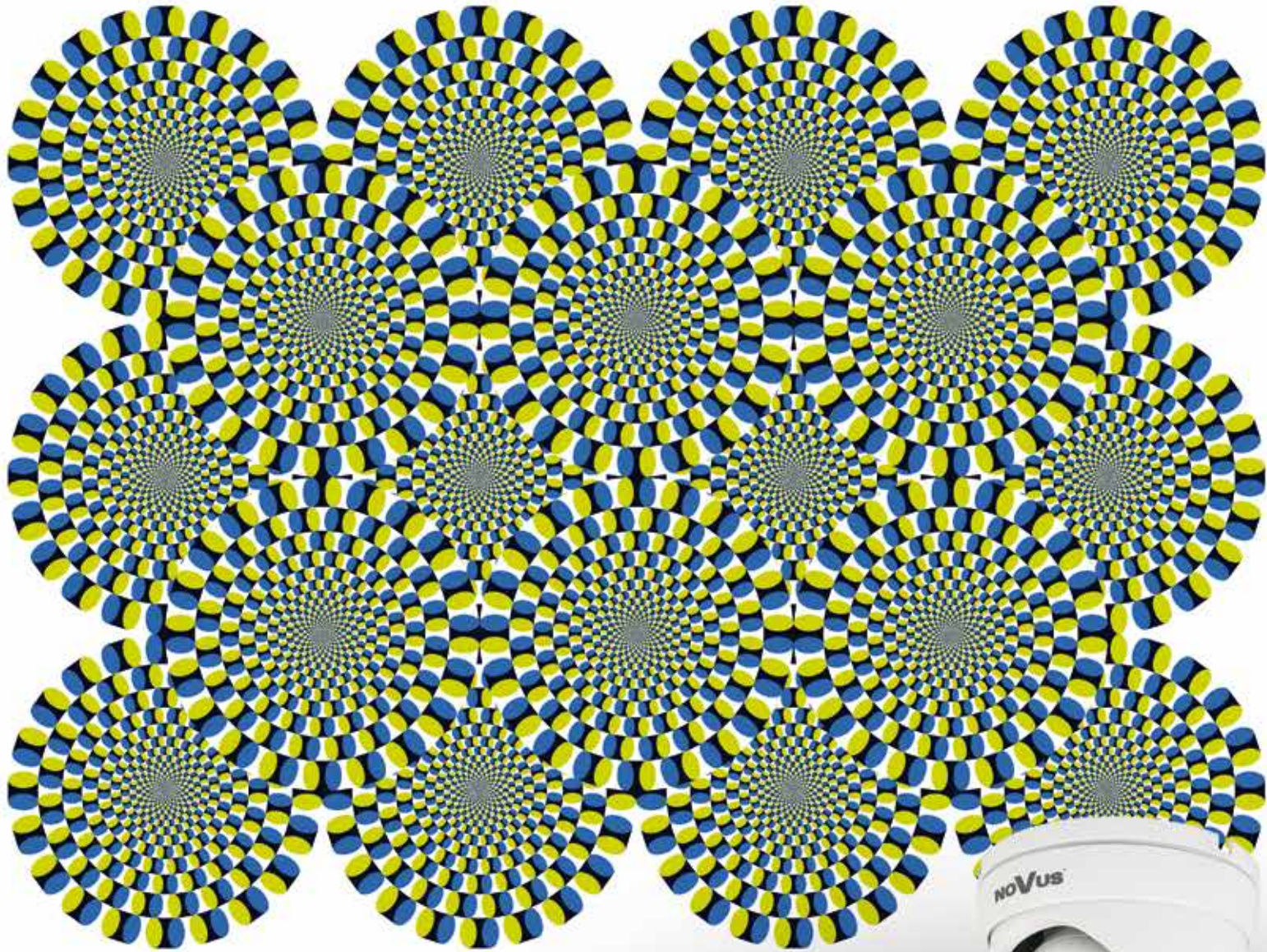
NVAHD-2DN5202MH/IR-1	NVAHD-2DN5504MH/IR-1	NVAHD-2DN5100MC-1	NVAHD-2DN5100MC-3
 MOTOR ZOOM MULTI STANDARD	 MOTOR ZOOM MULTI STANDARD	 MULTI STANDARD	 MULTI STANDARD
CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY	CMOS sensor 1/2.9" SONY
AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
1080p	1080p	1080p	1080p
0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS) 0 lx (IR on) - B/W mode	0.01 lx/F1.4 - color mode 0 lx (IR on) - B/W mode	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS)	0.1 lx/F1.4 - color mode 0.05 lx/F1.4 - B/W mode 0.005 lx/F1.4 - color mode (DSS) 0.0001 lx/F1.4 - B/W mode (DSS)
up to 30x	-	up to 30x	up to 30x
yes	-	yes	yes
yes	yes	yes	yes
2D, 3D	2D	2D, 3D	2D, 3D
yes	-	yes	yes
motor-zoom, f=2.8 ~ 12 mm/F1.4	motor-zoom, f=2.8 ~ 12 mm/F1.4	-*	-*
mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
auto, manual	auto, manual	auto, manual	auto, manual
languages: Polish, English, Russian, others (joystick on the cable)	languages: English	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others
4	-	4	4
yes	-	yes	yes
yes (COAX protocol)	yes (COAX protocol or optional UTC remote control)	yes (COAX protocol)	yes (COAX protocol)
30	30	-	-
35 m	40 m	-	-
120°	60°	-	-
BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
aluminum, white, wall bracket with cable entry included	aluminum, white, wall bracket with cable entry included	aluminum, white color	aluminum, white color
12 V DC	12 V DC	12 V DC	100 ~ 230 V AC
1.2 W/5 W (IR on)	1 W/6 W (IR on)	1.1 W	2.3 W
-30°C ~ 40°C	-30°C ~ 55°C	-30°C ~ 40°C	-30°C ~ 40°C
-/-	-/-	-/-	-/-
IP66 (details in the user's manual)	IP66 (details in the user's manual)	-	-
with handle 84 (Φ) x 270(L)	with handle 95 (Φ) x 277(L)	58 (W) x 62 (H) x 125(L)	58 (W) x 62 (H) x 125(L)

*Lens należy do wyposażenia dodatkowego

AHD CAMERAS 1080p WITH PIR



	NVAHD-2DN3201MV/IR-1-PIR	NVAHD-2DN3201MH/IR-1-PIR
		
	MULTI STANDARD	MULTI STANDARD
Image		
Image Sensor	CMOS sensor 1/2.7" SMARTSENS	CMOS sensor 1/2.7" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1936 (H) x 1096 (V)	1936 (H) x 1096 (V)
Horizontal Resolution	1080p	1080p
Min. Illumination	0.01 lx/F2.0 - color mode 0 lx (IR on) - B/W mode	0.01 lx/F2.0 - color mode 0 lx (IR on) - B/W mode
Wide Dynamic Range (WDR)	yes	yes
Digital Noise Reduction (DNR)	2D	2D
Lens		
Lens Type	standard, f=2.8 mm/F2.0	standard, f=2.8 mm/F2.0
Day/Night		
Switching Type	mechanical IR cut filter	mechanical IR cut filter
Switching Mode	auto, manual	auto, manual
Other functions		
OSD	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others
Remote control	yes (COAX protocol)	yes (COAX protocol)
PIR detector	range up to 8 m	range up to 8 m
IR LED		
LED Number	16	18
Range	20 m	20 m
Angle	60°	60°
Interfaces		
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters		
Enclosure	vandal proof aluminum, white color	aluminum, white color, wall bracket with cable entry included
Power Supply	12 V DC	12 V DC
Power consumption	1 W/5 W (IR on)	1 W/5 W (IR on)
Operating Temperature	-30°C ~ 55°C	-30°C ~ 55°C
Heater/Fan	-/-	-/-
Degree of Protection	IP66 (details in the user's manual)	IP66 (details in the user's manual)
Dimensions (mm)	100 (Φ) x 90 (H)	with handle 71 (Φ) x 138(L)



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LIMITING FALSE ALARMS
PIR RANGE UP TO 8 M

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AHD CAMERAS 4 Mpx



	NVAHD-4DN3202V/IR-1-II	NVAHD-4DN3202H/IR-1-II
		
Obraz		
Image Sensor	1/3" OV	1/3" OV
Operating mode	AHD 4 Mpx	AHD 4 Mpx
Number of Effective Pixels	2688 (H) x 1520 (V)	2688 (H) x 1520 (V)
Horizontal Resolution	4 Mpx	4 Mpx
Min. Illumination	0.03 lx/F1.3 - color mode 0 lx (IR on) - B/W mode	0.03 lx/F1.3 - color mode 0 lx (IR on) - B/W mode
Wide Dynamic Range (WDR)	yes	yes
Digital Noise Reduction (DNR)	2D	2D
Lens		
Lens Type	varifocal, f=2.7 ~ 13.5 mm/F1.3	varifocal, f=2.7 ~ 13.5 mm/F1.3
Day/Night		
Switching Type	mechanical IR cut filter	mechanical IR cut filter
Switching Mode	auto, manual	auto, manual
Other functions		
OSD	languages: Polish, English, Russian, others	languages: Polish, English, Russian, others
Remote control	yes (COAX protocol)	yes (COAX protocol)
IR LED		
LED Number	30	30
Range	30 m	30 m
Angle	120°	120°
Interfaces		
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters		
Enclosure	vandal proof, aluminum, white	aluminum, white, wall bracket with cable entry included
Power Supply	12 V DC	12 V DC
Power consumption	1 W/5 W (IR on)	1 W/5 W (IR on)
Operating Temperature	-30°C ~ 55°C	-30°C ~ 55°C
Wbudowany wentylator/grzałka	-/-	-/-
Degree of Protection	IP66 (details in the user's manual)	IP66 (details in the user's manual)
Dimensions (mm)	135 (Φ) x 128 (H)	with handle 84 (Φ) x 241(L)



4Mpx
(2688 x 1520)

1080p
(1920 x 1080)

720p
(1280 x 720)

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	NVAHD-1DN3102SD/IR-1	NVAHD-2DN3102SD/IR-1	NVAHD-2DN5120MSD/IRH-2
	 	 	 
Image			
Image Sensor	CMOS sensor 1/3"SONY	CMOS sensor 1/2.8"SONY	CMOS sensor 1/2.9" SONY
Operating mode	AHD 720p, analog 960H	AHD 1080p, AHD 720p	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1280 (H) x 720 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Horizontal Resolution	720p	1080p	1080p
Min. Illumination	0.1 lx/F1.2 - color mode 0.01 lx/F1.2 - B/W mode 0 lx (IR on) - B/W mode	0.1 lx/F1.2 - color mode 0.01 lx/F1.2 - B/W mode 0 lx (IR on) - B/W mode	0.23 lx/F1.8 - color mode 0 lx (IR on) - B/W mode
Digital Noise Reduction (DNR)	2D, 3D	2D	2D, 3D
Defog Function (F-DNR)	yes	-	yes
Lens			
Optical Zoom	10x	10x	20x
Lens Type	motor-zoom, f=5 ~ 50 mm/F1.2	motor-zoom, f=5 ~ 50 mm/F1.2	motor-zoom, f=4.7 ~ 94 mm/F1.8
Day/Night			
Switching Type	mechanical IR cut filter	mechanical IR cut filter	mechanical IR cut filter
PTZ			
Preset Commands	220	220	85
Tours	8 (up to 32 presets per tour)	8 (up to 32 presets per tour)	4 (up to 12 presets per tour)
Auto-Scans	1	1	4
Patterns	4 (max. 100 commands for each pattern)	4 (max. 100 commands for each pattern)	4
Tilt/Pan Range	0° ~ 90°/360° (continuous)	0° ~ 90°/360° (continuous)	5° ~ 95°/360° (continuous)
Pan/Tilt Speed	up to 200°/s (proportional to zoom)	up to 200°/s (proportional to zoom)	up to 200°/s (proportional to zoom)
Protocols	N-Control, Pelco-D, Pelco-P	N-Control, Pelco-D, Pelco-P, COAX	Pelco-D, Pelco-P, COAX
Other functions			
OSD	languages: English	languages: English	languages: English
Real-time Clock	yes	yes	yes
IR LED			
LED Number	6	6	8
Range	up to 60 m (depends on current optical zoom value)	up to 60 m (depends on current optical zoom value)	up to 150 m (depends on current optical zoom value)
Interfaces			
Video Output	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm	BNC, 1.0 Vp-p, 75 Ohm
Installation parameters			
Power Supply	12 V DC	12 V DC	24 V DC
Power consumption	20 W (IR and heater on)	20 W (IR and heater on)	6 W, 30 W (IR on) 50 W (IR and heater on)
Operating Temperature	-20°C ~ 60°C	-20°C ~ 60°C	-30°C ~ 60°C
Heater/Fan	yes/no	yes/no	yes/no
Degree of Protection	IP66 (details in the user's manual)	IP66 (details in the user's manual)	IP66 (details in the user's manual)
Dimensions (mm)	136 (Φ) x 199 (H)	136 (Φ) x 199 (H)	205 (Φ) x 332 (H)



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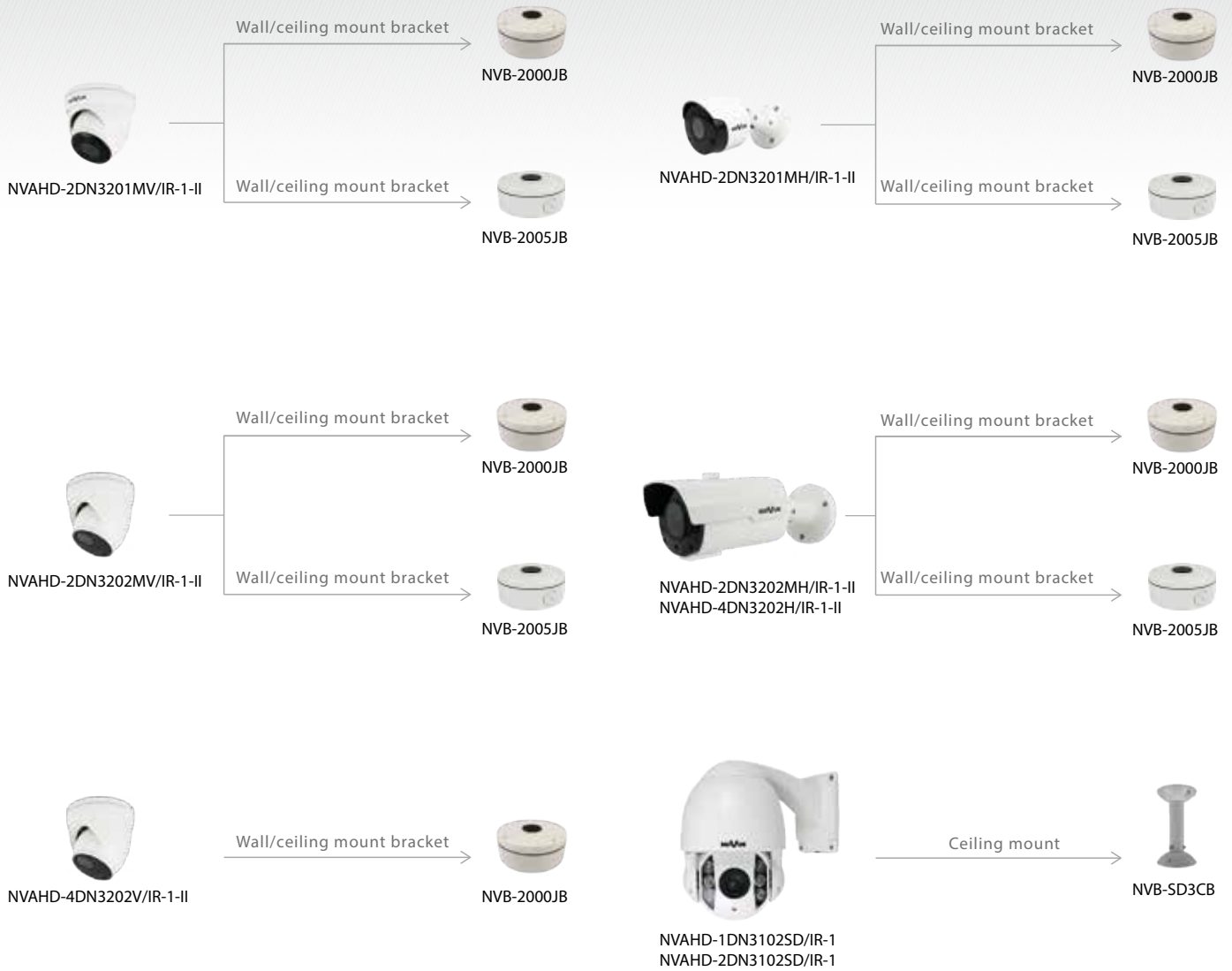
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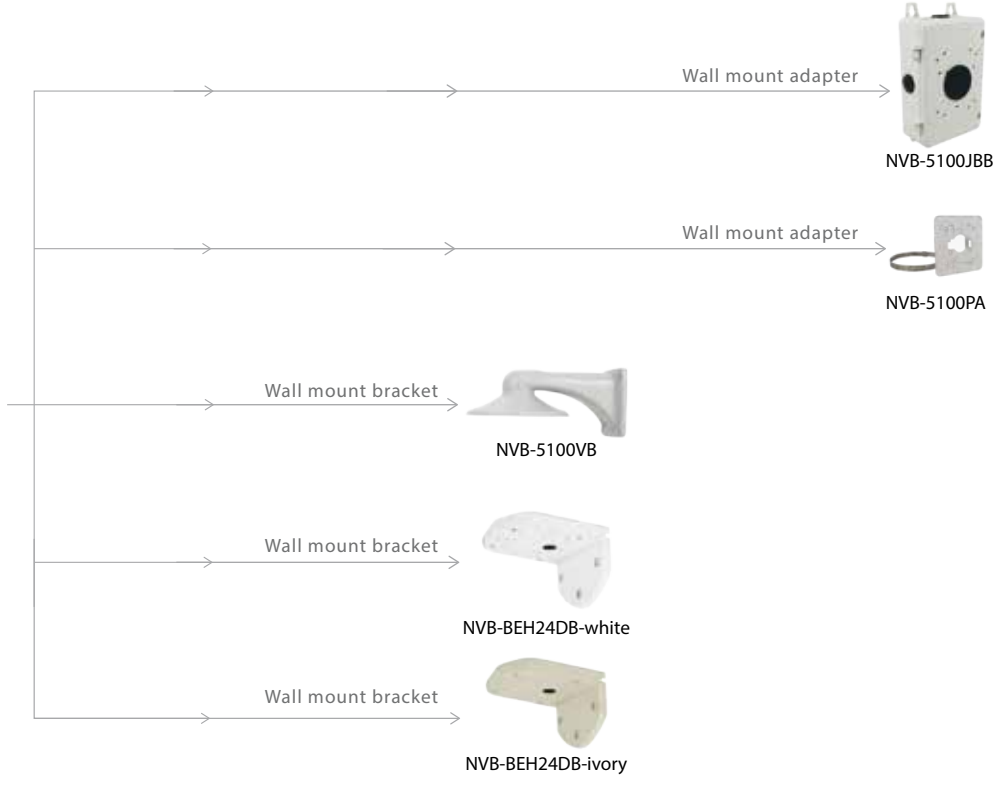
MOUNTS AND ADAPTERS FOR 5000 SERIES CAMERAS **AHD** by **noVus** TECHNOLOGY



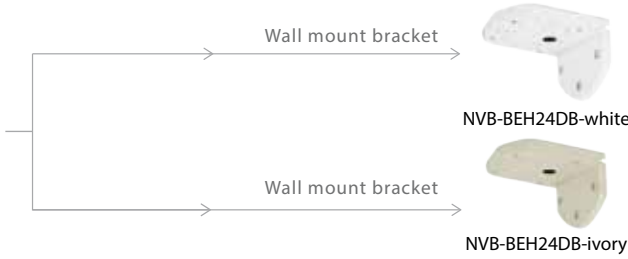
NVAHD-xDN5101V/IR-1
NVAHD-2DN5101MV/IR-1



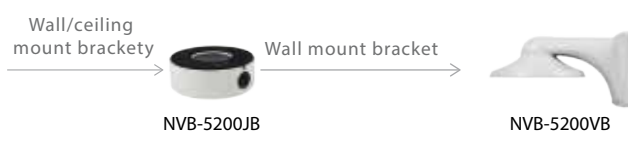
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NVAHD-2DN5202V/IR-1
NVAHD-2DN5102MV/IR-1
NVAHD-2DN5202MV/IR-1



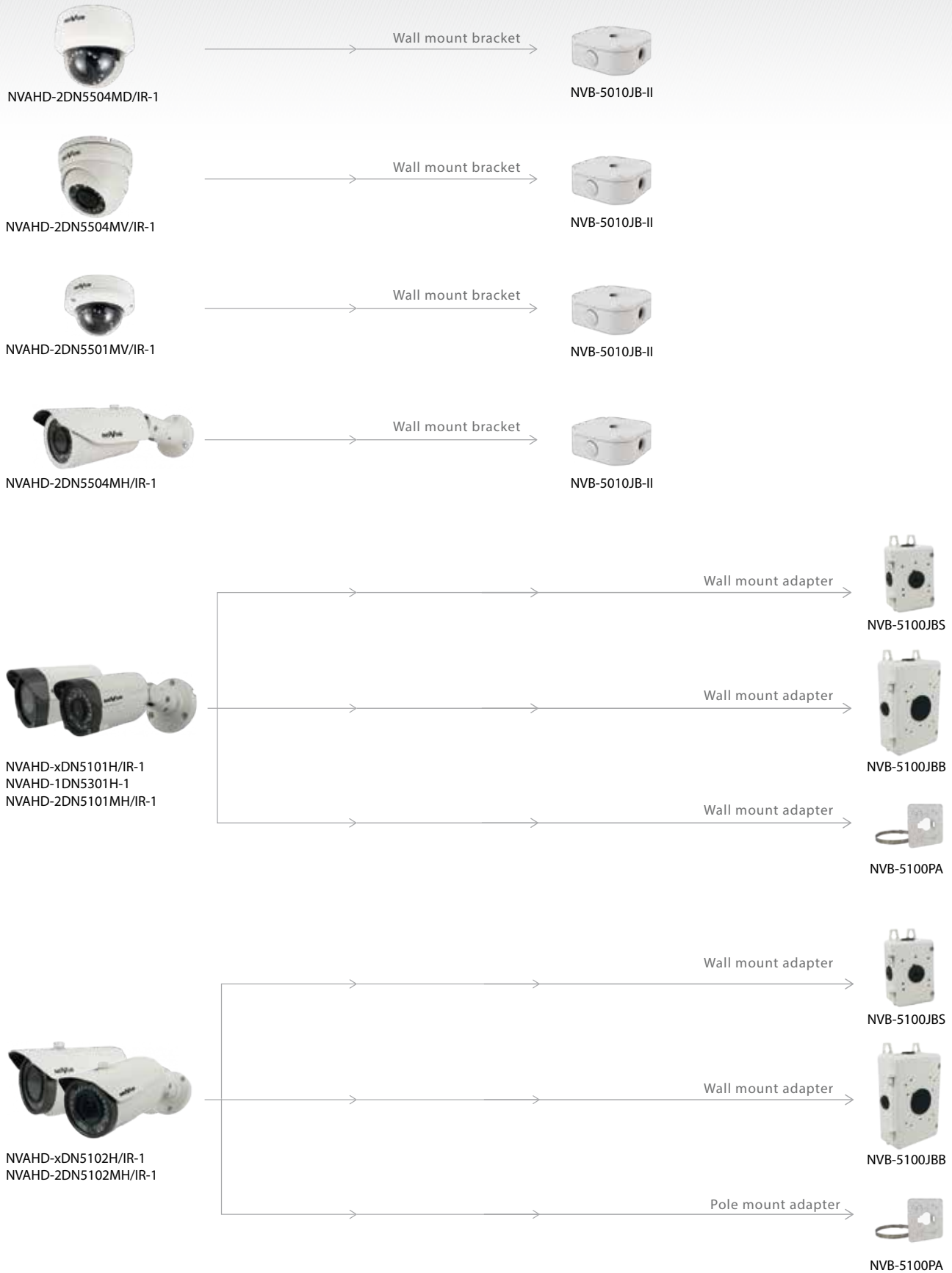
NVAHD-xDN5102D/IR-1
NVAHD-2DN5102MD/IR-1

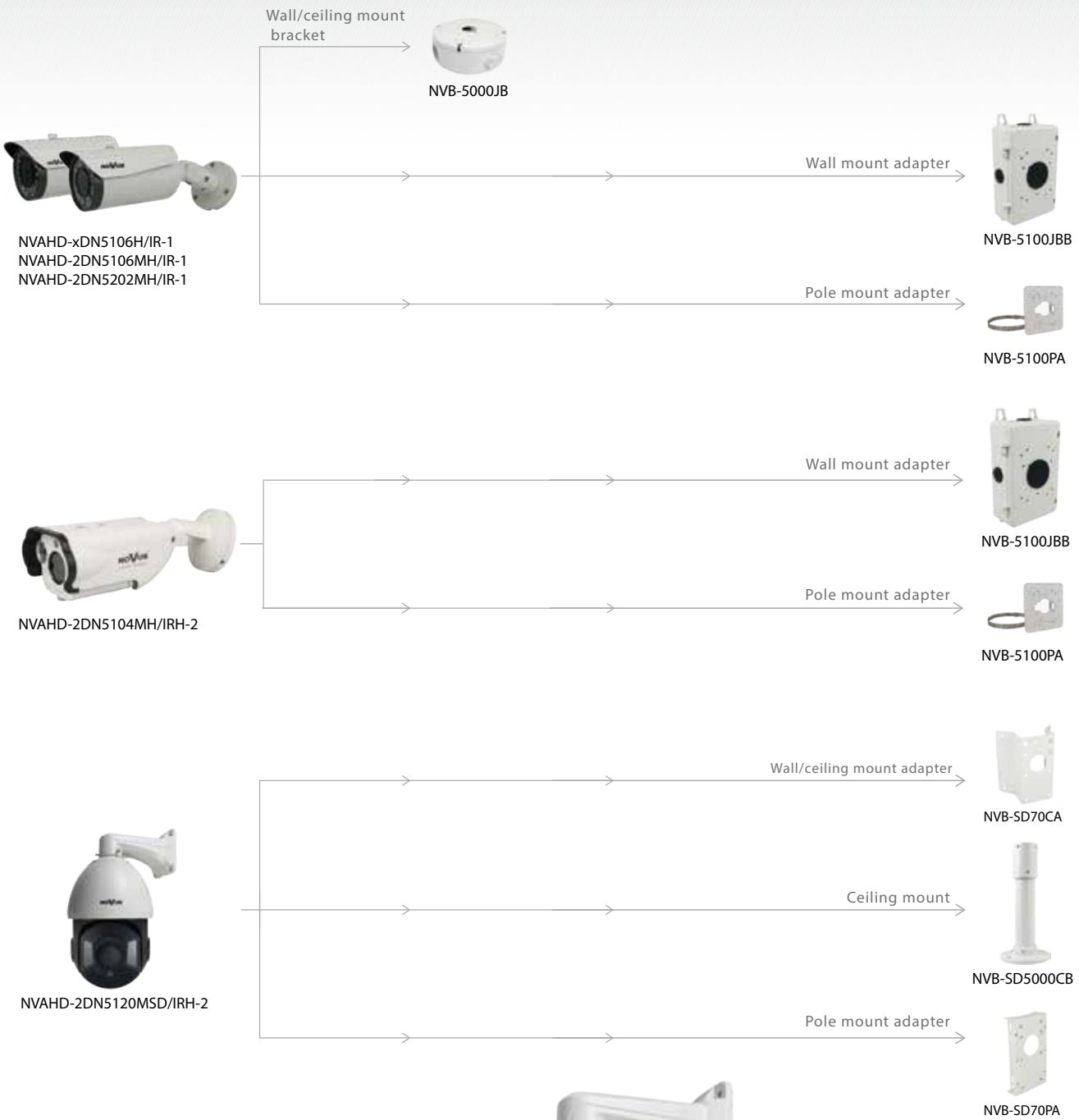


NVAHD-1DN5301V-1
NVAHD-2DN5204MV/IR-1



MOUNTS AND ADAPTERS FOR 5000 SERIES CAMERAS





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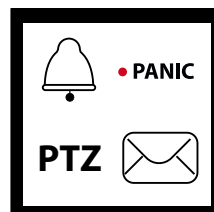
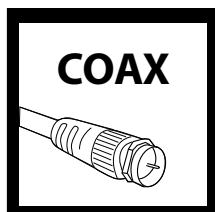
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4 VIDEO CHANNELS AHD RECORDERS



	NHDR-3204AHD	NHDR-5104AHD	NHDR-4M5304AHD
	 HYBRID SYSTEM	 HYBRID SYSTEM	 VCA ANALYSIS HYBRID SYSTEM
		MULTI STANDARD	MULTI STANDARD
Video			
Video input	4 x BNC (AHD 720p, 1080p lite, analog 960H)	4 x BNC (AHD 1080p, TVI 1080p, CVI 1080p, analog 960H)	4 x BNC (AHD 5 Mpx, TVI 1080p, CVI 1080p, analog 960H)
Hybrid mode	4 x BNC + 2 x IP; 0 x BNC + 6 x IP	4 x BNC + 2 x IP; 0 x BNC + 6 x IP	4 x BNC + 2 x IP; 0 x BNC + 6 x IP
Horizontal Resolution IP supported	max 1920 x 1080	max 2688 x 1520	max 2688 x 1520
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD)	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD)	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD)
Audio			
Audio Input/Output	4 x RCA (Line-in)/1 x HDMI, 1 x RCA	4 x RCA (Line-in)/1 x HDMI, 1 x RCA	4 x RCA (Line-in)/1 x HDMI, 1 x RCA
Recording			
Recording Speed*	100 fps (960 x 576), 100 fps (1280 x 720), 100 fps (960 x 1080)	100 fps (960 x 576), 100 fps (1280 x 720), 60 fps (1920 x 1080)	100 fps (960 x 576), 100 fps (1280 x 720), 100 fps (1920 x 1080), 60 fps (2560 x 1440), 40 fps (2560 x 1944)
Recording Speed IP	Hybrid mode: 50fps IP mode: 150fps	Hybrid mode: 50fps IP mode: 150fps	Hybrid mode: 50fps IP mode: 150fps
The size of the IP stream	Hybrid mode: 6 Mb/s in total from all IP cameras IP mode: 18 Mb/s in total from all IP cameras	Hybrid mode: 8 Mb/s in total from all IP cameras IP mode: 24 Mb/s in total from all IP cameras	Hybrid mode: 16 Mb/s in total from all IP cameras IP mode: 48 Mb/s in total from all IP cameras
Playback			
Playback Speed	100 fps	100 fps	100 fps
Recorded Data Search	by date/time, events, object appearance/disappearance	by date/time, events, object appearance/disappearance	by date/time, events, object appearance/disappearance, after image analysis events
Storage			
Internal storage/Total capacity	1 x HDD 3.5" SATA/8 TB	1 x HDD 3.5" SATA/8 TB	1 x HDD 3.5" SATA/8 TB
External drives / Max. capacity	1 x eSATA/24 TB	1 x eSATA/24 TB	1 x eSATA/24 TB
Alarm			
Alarm Input/Output	-	4/1 relay type	4/1 relay type
Motion Detection	36 x 44 grid, individual settings of sensitivity	36 x 44 grid, individual settings of sensitivity	36 x 44, separate sensitivity settings, PIR camera support
Intelligent image analysis			
Supported functions	-	-	object detection, line crossing, zone violation
Number of channels	-	-	1 x BNC, 6 x IP (Seria 2000)
Network			
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer
Smartphone Software	RxCamView (iPhone, Android)	RxCamView (iPhone, Android)	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	16 Mb/s in total to all client stations	32 Mb/s in total to all client stations	32 Mb/s in total to all client stations
PTZ			
PTZ Ports/PTZ Protocols	1 x RS-485/Pelco-D, Pelco-P	1 x RS-485/Pelco-D, Pelco-P	1 x RS-485/Pelco-D, Pelco-P
COAX			
COAX function	menu, zoom, focus, PTZ	menu, zoom, focus, PTZ	menu, zoom, focus, PTZ

*AHD Recording is limited to 15 fps per channel during playback or hybrid mode (model: NHDR-3204AHD).
Recording speed may be limited during playback in hybrid mode (model: NHDR-4M5304AHD).



AHD by **noVus**
TECHNOLOGY

5000
AHD SERIES

3000
AHD SERIES

EXTEND THE DISPLAY SPACE AHD RECORDERS

WITH DISK ARRAY NV-5000EST-H4

SUPPORT FOR UP TO 4 X HDD 3.5" SATA

MAXIMUM CAPACITY 24 TB

Distribution:

noVus
www.novuscctv.com

8 VIDEO CHANNELS AHD RECORDERS



	NHDR-3208AHD	NHDR-5108AHD	NHDR-4M5308AHD
	 HYBRID SYSTEM	 HYBRID SYSTEM MULTI STANDARD	 VCA ANALYSIS HYBRID SYSTEM MULTI STANDARD 4K HDMI
Video			
Video input	8 x BNC, (AHD 720p, 1080p lite, analog 960H)	8 x BNC (AHD 1080p, TVI 1080p, CVI 1080p, analog 960H)	8 x BNC (AHD 5 Mpx, TVI 1080p, CVI 1080p, analog 960H)
Hybrid mode	8 x BNC + 4 x IP; 0 x BNC + 12 x IP	8 x BNC + 4 x IP; 0 x BNC + 12 x IP	8 x BNC + 4 x IP; 0 x BNC + 12 x IP
Horizontal Resolution IP supported	max 2688 x 1520	max 2688 x 1520	max 2688 x 1520
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD)	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD)	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) spot**: 1 x VGA (HD) interchangeably to main output
Audio			
Audio Input/Output	4 x RCA (Line-in)/1 x HDMI, 1 x RCA	8 x RCA (Line-in)/1 x HDMI, 1 x RCA	8 x RCA (Line-in)/1 x HDMI, 1 x RCA
Recording			
Recording Speed*	200 fps (960 x 576), 200 fps (1280 x 720), 200 fps (960 x 1080)	200 fps (960 x 576), 200 fps (1280 x 720), 120 fps (1920 x 1080)	200 fps (960 x 576), 200 fps (1280 x 720), 200 fps (1920 x 1080), 120 fps (2560 x 1440), 96 fps (2560 x 1944)
Recording Speed IP	Hybrid mode: 100fps IP mode: 300fps	Hybrid mode: 100fps IP mode: 300fps	Hybrid mode: 100fps IP mode: 300fps
The size of the IP stream	Hybrid mode: 12 Mb/s in total from all IP cameras IP mode: 36 Mb/s in total from all IP cameras	Hybrid mode: 16 Mb/s in total from all IP cameras IP mode: 48 Mb/s in total from all IP cameras	Hybrid mode: 32 Mb/s in total from all IP cameras IP mode: 96 Mb/s in total from all IP cameras
Playback			
Playback Speed	200 fps	200 fps	200 fps
Recorded Data Search	by date/time, events, object appearance/disappearance	by date/time, events, object appearance/disappearance	by date/time, events, object appearance/disappearance, after image analysis events
Storage			
Internal storage/Total capacity	1 x HDD 3.5" SATA/8 TB	2 x HDD 3.5" SATA/16 TB	2 x HDD 3.5" SATA/16 TB
External drives / Max. capacity	1 x eSATA/24 TB	1 x eSATA/24 TB	1 x eSATA/24 TB
Alarm			
Alarm Input/Output	-	8/1 relay type	8/1 relay type
Motion Detection	36 x 44 grid, individual settings of sensitivity PIR cameras support	36 x 44 grid, individual settings of sensitivity, PIR cameras support	36 x 44 grid, individual settings of sensitivity
Intelligent image analysis			
Supported functions**	-	-	object detection, line crossing, zone violation
Number of channels**	-	-	1 x BNC, 12 x IP (2000 series)
Network			
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer
Smartphone Software	RxCamView (iPhone, Android)	RxCamView (iPhone, Android)	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	16 Mb/s in total to all client stations	32 Mb/s in total to all client stations	64 Mb/s in total to all client stations
PTZ			
Porty PTZ/ Protokoły PTZ	1 x RS-485/Pelco-D, Pelco-P	1 x RS-485/Pelco-D, Pelco-P	1 x RS-485/Pelco-D, Pelco-P
COAX			
COAX function	menu, zoom, focus, PTZ	menu, zoom, focus, PTZ	menu, zoom, focus, PTZ

*AHD Recording is limited to 15 fps per channel during playback or hybrid mode (model: NHDR-3208AHD).
Recording speed may be limited during playback in hybrid mode (model: NHDR-4M5308AHD).

**One of the functions: SPOT monitor, POS, intelligent analysis, can be switched on at once.

INTELLIGENT IMAGE ANALYSIS

IN AHD RECORDERS



DETECTION
AND IDENTIFICATION
OF ADVERSE EVENTS



CROSSING THE LINE
(up to 4 detection lines)



DETECTION OF THE OBJECT
(disappearance/appearance of the object)



ZONE VIOLATION
(up to 4 detection zones)



BENEFITS

- Automation of the supervision process
- Limiting the number of events requiring the operator's attention
- Quick response to an alarm event
- Minimizing the number of false alarms

CLIENT SOFTWARE



NHDR-5000 VIEWER

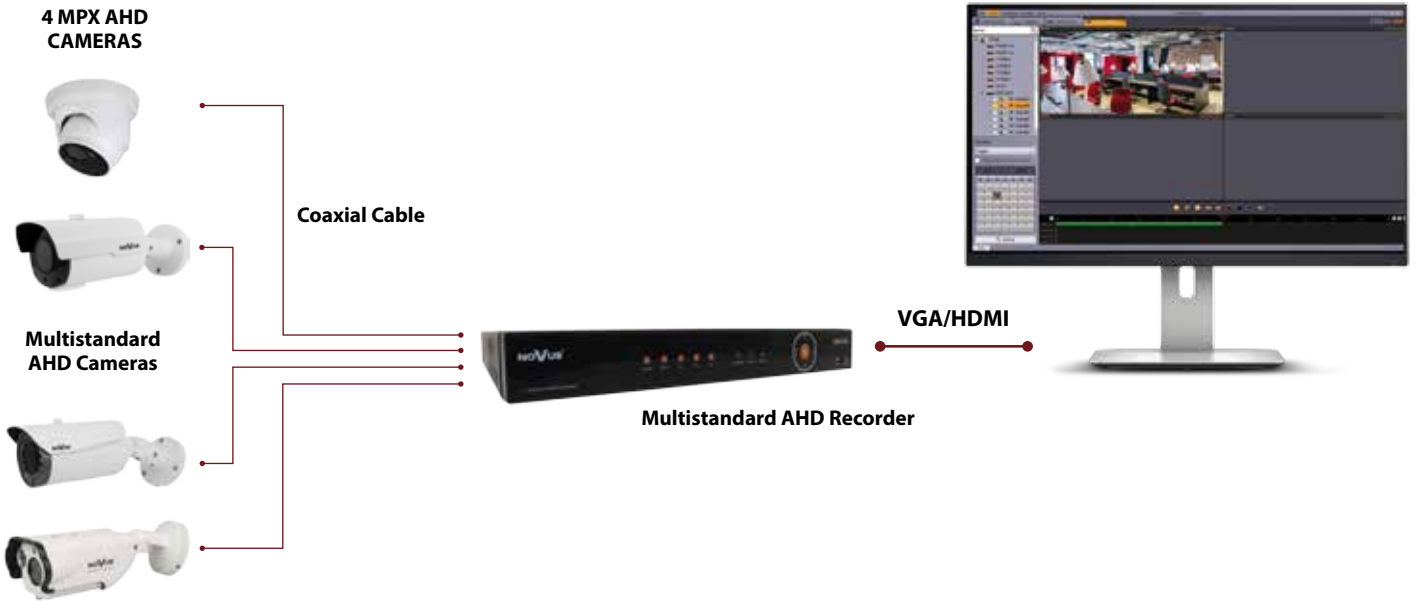
- Work in multi-monitor mode - extended work area
- 4 independent video windows - the ability to display 4 divisions simultaneously
- P2P support - connection with recorders without advanced network configuration
- Connection with multiple recorders at the same time - monitoring of extensive CCTV systems
- Playback nagrań bezpośrednio z rejestratora
- PTZ support - control of PTZ cameras directly from the panel
- Maps program - visualization and location of monitored objects
- Remote configuration - the ability to manage distance recorders



FAST CONFIGURATION

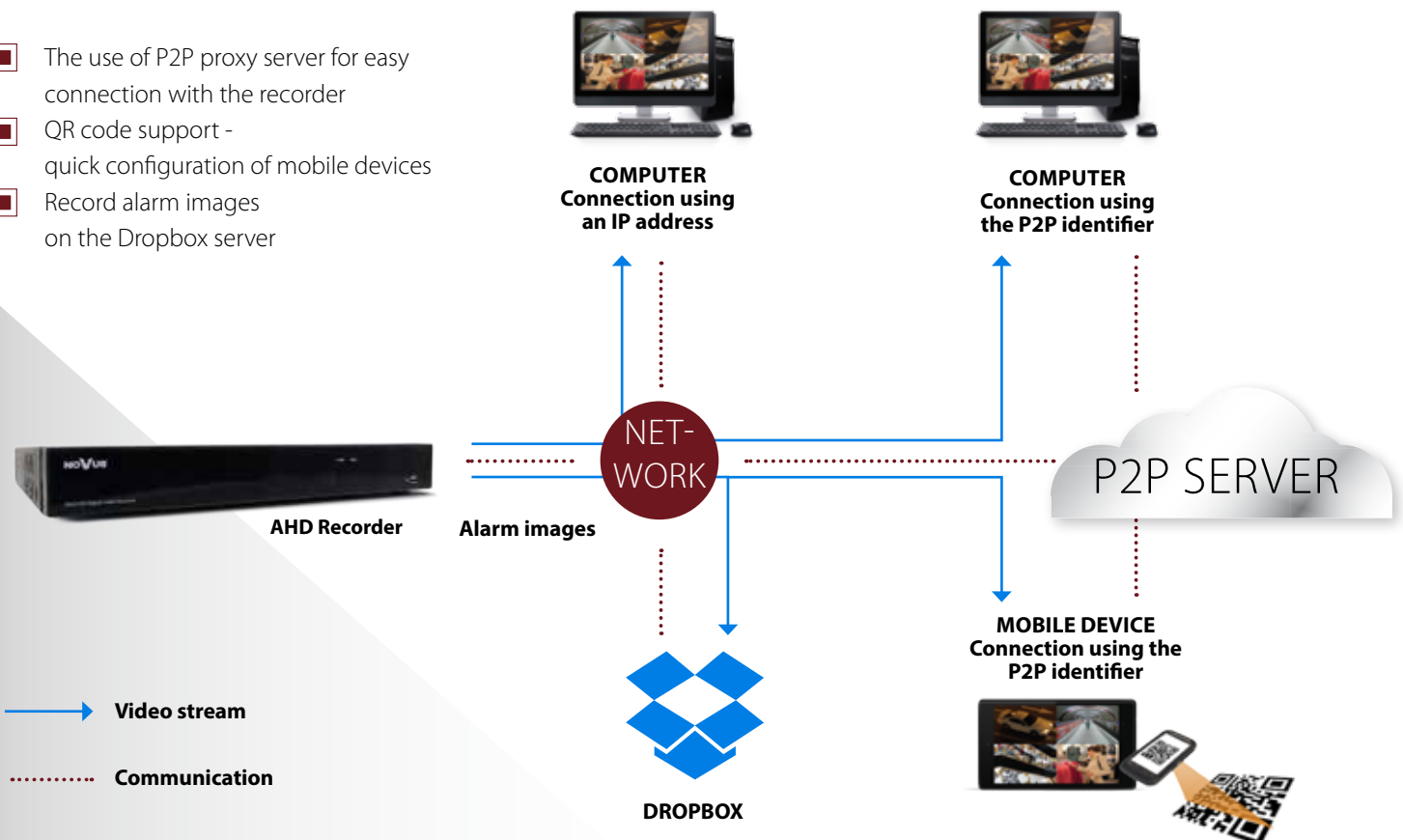


AUTOMATIC DETECTION OF CAMERAS STANDARD



EASY ACCESS P2P

- The use of P2P proxy server for easy connection with the recorder
- QR code support - quick configuration of mobile devices
- Record alarm images on the Dropbox server



16 VIDEO CHANNELS AHD RECORDERS



	NHDR-3216AHD	NHDR-5116AHD	NHDR-4M5316AHD
	 HYBRID SYSTEM	 HYBRID SYSTEM MULTI STANDARD 4K HDMI	 VCA ANALYSIS HYBRID SYSTEM MULTI STANDARD 4K HDMI
Video			
Video input	16 x BNC, (AHD 720p, 1080p lite, analog 960H)	16 x BNC (AHD 1080p, TVI 1080p, CVI 1080p, analog 960H)	16 x BNC (AHD 5 Mpx, TVI 1080p, CVI 1080p, analog 960H)
Hybrid mode	16 x BNC + 8 x IP 0 x BNC + 24 IP	16 x BNC + 8 x IP 0 x BNC + 24 IP	16 x BNC + 8 x IP
Horizontal Resolution IP supported	max 2688 x 1520	max 2688 x 1520	max 2688 x 1520
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD)	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) auxiliary**: 1 x VGA (HD) interchangeably with the main	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) auxiliary**: 1 x VGA (HD) interchangeably with the main
Audio			
Audio Input/Output	16 x RCA (Line-in)/1 x HDMI, 1 x RCA	16 x RCA (Line-in)/1 x HDMI, 1 x RCA	16 x RCA (Line-in)/1 x HDMI, 1 x RCA
Recording			
Recording Speed*	400 fps (960 x 576), 400 fps (1280 x 720), 400 fps (960 x 1080)	400 fps (960 x 576), 400 fps (1280 x 720), 240 fps (1920 x 1080)	400 fps (960 x 576), 400 fps (1280 x 720), 400 fps (1920 x 1080), 240 fps (2560 x 1440), 176 fps (2560 x 1944)
Recording Speed IP	Hybrid mode: 200 fps IP mode: 600 fps	Hybrid mode: 200 fps IP mode: 600 fps	Hybrid mode: 200 fps
The size of the IP stream	Hybrid mode: 24 Mb/s in total from all IP cameras IP mode: 72 Mb/s in total from all IP cameras	Hybrid mode: 32 Mb/s in total from all IP cameras IP mode: 96 Mb/s in total from all IP cameras	Hybrid mode: 128 Mb/s in total from all IP cameras
Playback			
Playback Speed	400 fps	400 fps	400 fps
Wyszukiwanie nagrania	by date/time, events, object appearance/disappearance	by date/time, events, object appearance/disappearance	by date/time, events, object appearance/disappearance, after image analysis events, POS
Storage			
Internal storage/Total capacity	2 x HDD 3.5" SATA/16 TB	2 x HDD 3.5" SATA/16 TB	2 x HDD 3.5" SATA/16 TB
External drives / Max. capacity	1 x eSATA/24 TB	1 x eSATA/24 TB	1 x eSATA/24 TB
Alarm			
Alarm Input/Output	16/1 relay type	16/1 relay type	16/1 relay type
Motion Detection	siatka 36 x 44grid, individual settings of sensitivity	36 x 44 grid, individual settings of sensitivity, PIR cameras support	siatka 36 x 44grid, individual settings of sensitivity
Intelligent image analysis			
Supported functions**	-	-	object detection, line crossing, zone violation
Number of channels**	-	-	1 x BNC, 8 x IP (Seria 2000)
Network			
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer
Smartphone Software	RxCamView (iPhone, Android)	RxCamView (iPhone, Android)	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	32 Mb/s in total to all client stations	64 Mb/s in total to all client stations	128 Mb/s in total to all client stations
PTZ			
PTZ Ports/PTZ Protocols	1 x RS-485/Pelco-D, Pelco-P	1 x RS-485/Pelco-D, Pelco-P	1 x RS-485/ Pelco-D, Pelco-P
COAX			
COAX function	menu, zoom, focus, PTZ	menu, zoom, focus, PTZ	menu, zoom, focus, PTZ
POS			
Number of channels POS**	-	-	4
POS interface**	-	-	Ethernet
POS functions**	-	-	displaying data on the background of the image, searching by character string, exporting POS data with recordings

*AHD Recording is limited to 10 fps per channel during playback or hybrid mode (model: NHDR-3216AHD).

Recording speed may be limited during playback in hybrid mode (model: NHDR-4M5316AHD).

**One of the functions: SPOT monitor, POS, intelligent analysis, can be switched on at once.

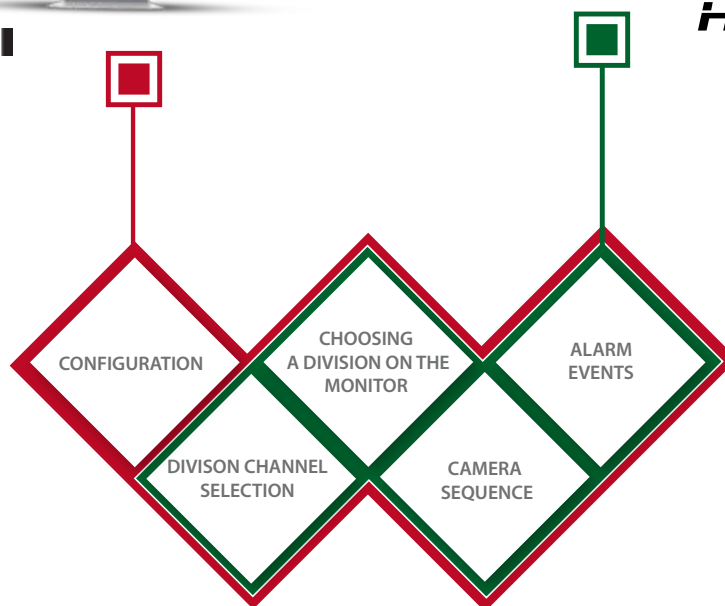
TWO INDEPENDENT DIVISIONS

IN AHD RECORDERS



4K HDMI

HD



BENEFITS

- Alarm events displayed on the secondary monitor (dynamic view)
- Comfort of observation of the increased number of cameras
- Increased operator response efficiency



32 VIDEO CHANNELS AHD RECORDERS



NHDR-5132AHD



4K HDMI

Video	
Video input	32 x BNC (AHD 1080p, analog 960H)
Hybrid mode	32 x BNC + 8 x IP
Horizontal Resolution IP supported	max 2688 x 1520
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) auxiliary**: 1 x VGA (HD) interchangeably with the main
Audio	
Audio Input/Output	4 x RCA (Line-in)/1 x HDMI, 1 x RCA
Recording	
Recording Speed*	800 fps (960 x 576), 800 fps (1280 x 720), 480 fps (1920 x 1080)
Recording Speed IP	Hybrid mode: 200fps
The size of the IP stream	Hybrid mode: 32 Mb/s in total from all IP cameras
Playback	
Playback Speed	400 fps
Recorded Data Search	by date/time, events, object appearance/disappearance, after image analysis events, POS
Storage	
Internal storage/Total capacity	4 x HDD 3.5" SATA/32 TB
External drives / Max. capacity	1 x eSATA/24 TB
Alarm	
Alarm Input/Output	8/1 relay type
Motion Detection	36 x 44 grid, individual settings of sensitivity, PIR cameras support
Network	
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/Safari, NHDR-5000 Viewer
Smartphone Software	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	32 Mb/s in total to all client stations
PTZ	
PTZ Ports/PTZ Protocols	1 x RS-485/ Pelco-D, Pelco-P
COAX	
COAX function	menu, zoom, focus, PTZ
POS	
Number of channels POS**	4
POS interface**	Ethernet
POS functions**	display text on the video, keyword search, export text with the video

*Recording speed may be limited in POS mode.

**One of the functions: SPOT monitor, POS can be switched on at once.



Sale
BIG COFFEE -VA PLU:17
1* 4,25 = 4,25

Sale
SMALL CAKE -VA PLU:17
1* 2,25 = 2,25

Sale
CHOC. CAKE -VA PLU:17
1* 4,25 = 4,25



AHD by **noVus**
TECHNOLOGY

NHDR-4M5316AHD

NHDR-5132AHD

MINIMIZING LOSSES IN BUSINESS
WITH POS FUNCTION IN AHD RECORDERS
LIMITING FALSE TRANSACTIONS AND THEFT
PREVENTING HANDLING WITH A WEIGHT
ASSISTANCE IN EXPLANATION OF TRANSACTION DISPUTES

Distribution:

noVus
www.novuscctv.com

LENSES FOR AHD CAMERAS



	NVL-3MP660D/IR	NVL-4MP2713D/IR	NVL-5MP3818D/IR
			
Format	1/2.5"	1/2.8"	1/2"
Focal Length	6 ~ 60 mm	2.7 ~ 13 mm	3.8 ~ 18 mm
Mount Type	CS	CS	C
Angle of View (H)	43° ~ 5.6° (1/2.5")	106° ~ 20° (1/2.8")	114° ~ 26° (1/1.8") 100° ~ 23° (1/2")
Weight	200 g	120 g	240 g
Iris Operation	auto, D	auto, D	auto, D
Relative Aperture	F=1.4-360	F=1.4-360	F=1.6-360
Compatible with cameras up to	3 Mpx	4 Mpx	5 Mpx
Dimensions (mm)	50 (W) x 45 (H) x 89 (L)	42 (W) x 37 (H) x 48 (L)	50 (W) x 50 (H) x 74.23 (L)
Accessories	-	-	CS reduction ring in the set

MICROPHONES

	NV-003MIC	NV-004MIC	NV-005MIC	NV-105MIC	NV-106MIC
					
Device Type	Microphone with increased sensitivity	Microphone with increased sensitivity	Microphone with high sensitivity	Microphone with high sensitivity and background noise filters	Microphone with high sensitivity and background noise filters
Audio Output	1 x RCA + adapter jack 3,5mm	1 x RCA + adapter jack 3,5mm	1 x RCA + adapter jack 3,5mm	1 x RCA + adapter jack 3,5mm	1 x RCA + adapter jack 3,5mm
Output Impedance	600 Ohm	600 Ohm	600 Ohm	600 Ohm	600 Ohm
Frequency response	10 Hz~10 kHz	10 Hz~10 kHz	10 Hz~10 kHz	10 Hz~20 kHz	10 Hz~20 kHz
Power output	2.5 / 5.5 mm male power connector on the cord	2.5 / 5.5 mm male power connector on the cord	2.5 / 5.5 mm male power connector on the cord	2.5 / 5.5 mm male power connector on the cord	2.5 / 5.5 mm male power connector on the cord
Power Supply	12V DC	12 V DC	12 V DC	12 V DC	12 V DC
Power Consumption	240 mW	240 mW	240 mW	240 mW	240 mW
Operating Temperature	-25°C ~ 50°C	-25°C ~ 50°C	-25°C ~ 50°C	-25°C ~ 50°C	-25°C ~ 50°C
Dimensions (mm)	5 (Φ) x 35 (L) with 35 cm cable	35 (W) x 30 (H) x 15 (D)	65 (W) x 30 (H) x 18 (D)	50 (Φ) x 20 (H)	80 (Φ) x 25 (H)
Weight	25 g	30 g	40 g	70 g	85 g
Cable	35 cm power supply/audio	35 cm power supply/audio	35 cm power supply/audio	35 cm power supply/audio	35 cm power supply/audio

NV-KBD50



Device Type	System keyboard
Operation	
Supported Devices	up to 256 cameras with RS-485 interface, up to 256 NOVUS DVRs
Camera Protocol	N-Control, Pelco-D
DVR Protocol	N-Control
External Ports	2 x RS-485
Control	
Joystick	3-axial, with zoom function in the knob, auto-returning
Buttons	29, multi-function
Display	LCD, characters: 1 x 16
Installation parameters	
Power Supply	12 VDC (100-240 VAC/12 VDC PSU in-set included)
Power consumption	3 W
Operating Temperature	-10°C ~ 55°C
Dimensions (mm)	305 (W) x 82 (H) x 148 (D)
Weight	0.72 kg

NV-RCEX5AHD



Device Type	IR receiver extender
Application	IR receiver extender for particular AHD NHDRs.
Cable length	10 m

NV-RCUTC-35HD



Device type	Remote cable
Application	Pilot supports only selected AHD cameras (3000 and 5000 series) with UTC function

NV-5000AHD/SBD



Device Type	Plastic Dome for use in the following models: NVAHD-1DN5102D / IR-1-NVAHD 2DN5102D / IR-1
Color	shadowed
Dimensions (mm)	112 (Φ) x 87 (H)

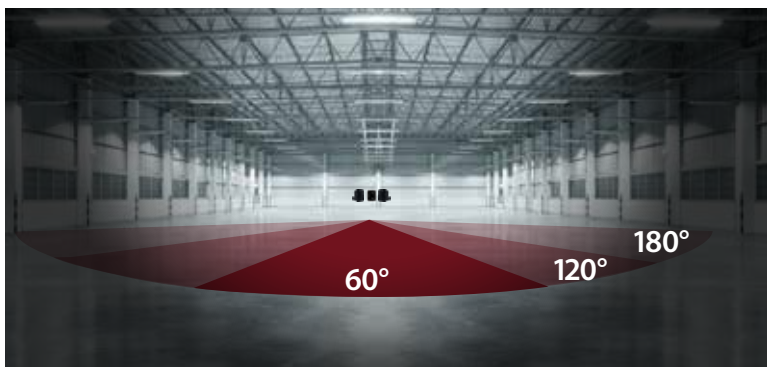
LED ILLUMINATOR IR



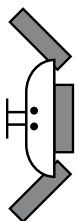
NV-IR60/150LED IR LED Illuminator

- IR LED Illuminator with a range up to 150 m
- Angle of illumination 60°
- 20 high power LEDs
- Extended LED life
- Adjustable lighting intensity
- Adjustable visible light sensor sensitivity
- Weatherproof enclosure (operating temperature: -30°C ~ 40°C, IP66 degree of protection)
- Power consumption: 45 W

AT A RANGE OF 150 M

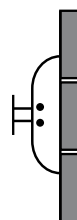


AT AN ANGLE OF 60°



INCREASE ANGLE OF ILLUMINATION

- for two illuminators - 120°
- for three illuminators - 180°





INCREASE THE RANGE

- for two illuminators - 180 m
- for three illuminators - 210 m

WALL MOUNT BRACKET FOR IR LED ILLUMINATORS





	NVB-IR2KIT	NVB-IR3KIT
		
Type	wall mount bracket	wall mount bracket
Application	2 IR LED illuminators NV-IR30/200LED	3 IR LED illuminators NV-IR30/200LED
Material	aluminium	aluminium
Color	black	black
Dimensions (mm)	138 (W) x 178 (H) x 140 (L)	290 (W) x 188 (H) x 200 (L)
Weight	0.58 kg	1.09 kg

BRACKETS AND ADAPTERS

	NVB-5100JBB	NVB-5100JBS
		
Type	wall mount adapter	wall mount adapter
Application*	5000 series AHD cameras*	5000* series AHD cameras*
Material	aluminium	aluminium
Color	white	white
Dimensions (mm)	121.4 (W) x 204 (H) x 56 (D)	86.4 (W) x 146 (H) x 55 (D)
Weight	0.6 kg	0.3 kg
Degree of Protection	IP66	IP66

*detailed compatibility list available as a file to download in section „Downloadable Files“

MOUNTS AND BRACKETS


	NVB-BEH24DB-ivory	NVB-BEH24DB-white	NVB-5100PA	NV-5000BB	NVB-5100VB	NVB-5010JB-II
						
Type	wall mount bracket, indoor/outdoor	wall mount bracket, indoor/outdoor	pole mount adapter	wall mount bracket, indoor	wall mount bracket, indoor/outdoor	wall mount adapter, indoor/outdoor
Application*	5000 series AHD cameras*	5000 series AHD cameras*	5000 series AHD cameras*	kamery kompaktowe	5000 series AHD cameras*	5000 & 7000 series IP cameras, 5000 series AHD cameras*
Material	aluminium, steel	aluminium, steel	aluminium	plastic	aluminium	aluminium
Color	ivory	white	white	white	white	white
Load Capacity	3 kg	3 kg	-	3 kg	15 kg	10 kg
Dimensions (mm)	122 (W) x 108 (H) x 160 (L)	122 (W) x 108 (H) x 160 (L)	120 (W) x 120 (H)	80 (W) x 80 (H) x 109 (L)	98 (W) x 70 (H) x 183 (L)	137 (W) x 137 (H) x 51 (L)
Weight	0.411 kg	0.411 kg	0.3 kg	0.083 kg	0.26 kg	0.65 kg

*detailed compatibility list available as a file to download in section "Downloadable Files"




	NVB-5200JB	NVB-2000JB	NVB-2005JB	NVB-SD3CB	NVB-SD5000CB	NVB-SD70PA	NVB-SD70CA
							
Type	wall/ceiling mount adapter, indoor/outdoor	wall/ceiling mount adapter, indoor/outdoor	wall/ceiling mount adapter, indoor/outdoor	ceiling mount cable-managed bracket	ceiling mount cable-managed bracket	pole mount adapter	corner mount adapter
Application*	5000 series AHD cameras*	2000 series IP cameras, 3000 series AHD cameras*	2000 series IP cameras, 3000 series AHD cameras*	3000 series AHD cameras*	5000 series IP cameras, 5000 series AHD cameras*	all mount bracket, 5000 and 7000 series IP cameras and 5000 series AHD cameras*	all mount bracket, 5000 and 7000 series IP cameras and 5000 series AHD cameras*
Material	aluminium	aluminium	aluminium	aluminium	steel	steel	steel
Color	white	white	white	ivory	white	white	white
Load Capacity	2 kg	3 kg	3 kg	5 kg	6 kg	25 kg	25 kg
Dimensions (mm)	146 φ x 43 (H)	147 φ x 59 (H)	134 φ x 59 (H)	150 (L) x 85 (diameter)	257 (L) x 116 (diameter)	136 (W) x 232 (H) zakres φ range = 112 ~ 130 mm	222 (W) x 204 (H) x 117 (D)
Weight	0.25 kg	0.45 kg	0.42 kg	0.2 kg	1.06 kg	0.97 kg	1.88 kg

*detailed compatibility list available as a file to download in section „Downloadable Files“

HOUSING





	NVH-160H/12/24	NVH-160H/230
		
Type	Outdoor housing	Outdoor housing
Application	Classic cameras	Classic cameras
Material	aluminium	aluminium
Color	beige	beige
Heater	yes	yes
Degree of Protection	IP66	IP66
Power Supply	12 V DC/24 V AC	230 V AC
Operating Temperature	-30°C ~ 60°C	-30°C ~ 60°C
In-set Included	main body, cable-managed bracket, L-wrench, mounting screws	main body, cable-managed bracket, L-wrench, mounting screws
External Dimensions (mm)	140 (W) x 140 (H) x 416 (L)	140 (W) x 140 (H) x 416 (L)
Camera Mount Dimensions (mm)	80 (W) x 80 (H) x 240 (L)	80 (W) x 80 (H) x 240 (L)

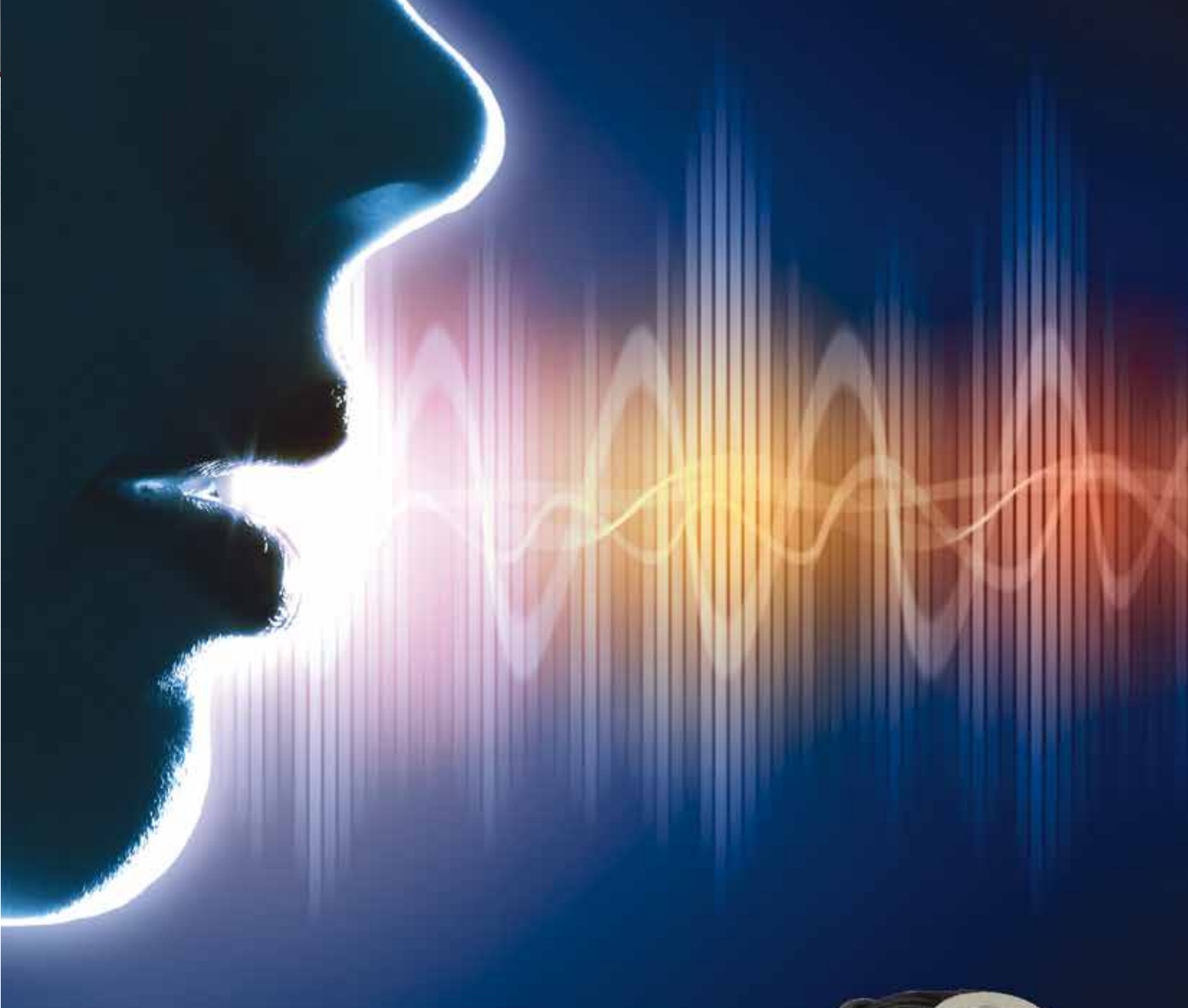
SIGNAL TRANSMISSION FOR AHD DEVICES

	NVPT-131VTP-HD	NVPT-A151VT-HD	NVPT-A151VR-HD
			
720p Resolution			
1080p Resolution			
General			
Device type	passive video transmitter/receiver (two devices in set)	passive video transmitter	passive video receiver
Video transmission			
Video Input/Output	1 x BNC, 1.0 Vp-p, 75 Ohm	1 x BNC, 1.0 Vp-p, 75 Ohm	1 x BNC, 1.0 Vp-p, 75 Ohm
Analog SD Signal Transmission Distance	Up to 300 m (with passive receivers)	-	-
AHD 720p Signal Transmission Distance	Up to 300 m (with passive receivers)	Up to 900 m (with active receivers) Up to 500 m (with passive receivers)	Up to 900 m (with active receivers) Up to 500 m (with passive receivers)
AHD 1080p Signal Transmission Distance	Up to 300 m (with passive receivers)	Up to 600 m (with active receivers) Up to 400 m (with passive receivers)	Up to 600 m (with active receivers) Up to 400 m (with passive receivers)
Communication between transmitter and receiver			
Connector	Clamp connector	Clamp connector	Clamp connector
Cable Type	CAT 5 UTP Cable (Ø=0.5 mm)	CAT 5/5E/6 UTP Cable	CAT 5/5E/6 UTP Cable
Installation parameters			
Operating Temperature	0°C~55°C	-10°C~55°C	-10°C~55°C

SURGE PROTECTORS



	NVS-021PS	NVS-021CB-HD	NVS-021VPS-HD	NVS-021VPSD-HD
				
Video protection				
Device Type	Single Channel Video Surge Protector	Single Channel Video Surge Protector	Single Channel Video Surge Protector	Single Channel Video Surge Protector
Continuous Operating Voltage/ Max Voltage Operating	24 V/36 V	-/-	24 V/36 V	24 V/36 V
Nominal Discharging Current (8/20 μs)/ Max Discharging Current (8/20 μs)	5 kA/10 kA	-/-	5 kA/10 kA	5 kA/10 kA
Limit Voltage (10/700 μs)	<80 V (10/700μs)	-	<200 V (8/20μs)	<200 V (8/20μs)
Response Time	≤10 A/≤5 μA	-/-	≤10 A/≤5 μA	≤10 A/≤5 μA
Insertion loss/impedance	≤25ns	-	≤25ns	≤25ns
Power protection				
Continuous Operating Voltage/ Max Voltage Operating	-/-	5 V/6 V	5 V/6 V	5 V/6 V
Nominal /Max Discharging Current (8/20 μs)	-/-	5 kA/10 kA	5 kA/10 kA	5 kA/10 kA
Protection tensioni (10/700μs)	-	< 20 V	< 20 V	< 20 V
Limit Voltage	-	≤1ns	≤1ns	≤1ns
Rated Overload Current/ Leakage Current	-/-	<0.5dB/≤1Ω	<0.5dB/≤1Ω	<0.2dB/≤1Ω
Response Time	-	0.3 ~ 100 MHz	100 MHz	100 MHz
Control signal protection				
Continuous Operating Voltage/ Max Voltage Operating	-	-	-	5 V/6 V
Nominal /Max Discharging Current (8/20 μs)	-	-	-	5 kA/10 kA
Limit Voltage (10/700 μs)	-	-	-	<20 V
Electrical resistance	-	-	-	≥0.4MΩ
Insertion impedance	-	-	-	≤0.5dB
Transmission Rate/Response Time	-/-	-/-	-/-	<2Mbps/1 ns
Installation parameters				
Operating Temperature	-20°C ~ 55°C	-40°C ~ 55°C	-20°C ~ 55°C	-20°C ~ 55°C
Dimensions (mm)/Weight	108 (W) x 66 (H) x 28 (L)/45	65 (W) x 25 (H) x 25 (L)/68	112 (W) x 63 (H) x 38 (L)/172	112 (W) x 64 (H) x 38 (L)/178
Case	aluminium, black	aluminium, black	aluminium, black	aluminium, black



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