



Product catalogue

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Icon description



Max. horizontal resolution



Day/Night function with a mechanical IR cut filter



Electronic Day/Night function



Digital Slow Shutter



Wide Dynamic Range



Easy installation and connection



Varifocal lens



3-axis camera module adjustment



Built-in LED illuminator



Degree of protection



Vandal proof housing



Built-in RS-485 port for remote control



Digital zoom



Optical zoom



On Screen Display



Digital Image Stabilization



Digital Noise Reduction



Built-in night sensor



Privacy zones



Presets



Patterns



Tours



Auto Scans



Number of alarm inputs/outputs



"Home" function



Continuous pan



Glass-made optics



Aspherical lenses



IR operation capability



Operation mode



Max. recording speed



Max. recording resolution 720x288



Max. recording resolution 704x576



JPEG2000 compression



MPEG compression



M-JPEG compression



Software compression



Hardware compression



Real-time recording



CPU load



Number of recorded audio channels



Analogue spot output



Analogue spot output (with split screen feature)



PTZ camera control

Built-in CD-RW drive



Built-in USB



Built-in SCSI port for external **HDDs** connection



Number of spot monitors





Control via PC mouse



Keyboard control via RS-485 port



IR remote control in-set included



Pre-alarm



Archive function



Mirroring - automatic backup onto internal HDDs



Object detection function



Event notification



Network operation



Simultaneous connection with multiple sites



Remote configuration



E-map visualization



Auto callback function



Time synchronization



Watermark-proof



Motion detection

Dual-screen operation



Observation via PDA device



Multi-lingual user interface



Text insertion from external

Auto-diagnostic function



DVR control



PTZ control



B/W Board Cameras

NVC-SB100B, NVC-SB100BCP, NVC-HB100B, NVC-HB100BCP









Features

- Horizontal resolution: up to 600 TVL
- Min. Illumination: from 0.07 lx/F=2.0
- · Lens type:
- Standard, f=3.6 mm
- Conical-pinhole, f=3.7 mm
- Power supply: 12 VDC

Model	NVC-SB100B	NVC-SB100BCP	NVC-HB100B	NVC-HB100BCP
Pick-up Element		1/3" SONY Super HA	ND B/W CCD imager	
Horizontal Resolution	420	TVL	600)TVL
Min. Illumination	0.1 lx/F=2.0	0.07 lx/F=2.0	0.2 lx/F=2.0	0.1 lx/F=2.0
S/N Ratio		More than 48	dB (AGC Off)	
Electronic Shutter		Auto (AES): 1/50	s ~ 1/100 000 s	
Auto Gain Control (AGC)		0	n	
Synchronization		Inte	rnal	
Lens Type	Standard: f=3.6 mm	Conical-pinhole: f=3.7 mm	Standard: f=3.6 mm	Conical-pinhole: f=3.7 mm
Angle of View (H)	68°	67°	68°	67°
Video Output		1.0 V _{p-p} /	75 Ohm	
Power Supply	12 VDC			
Power Consumption	1.5 W			
Operating Temperature	0°C ~ 50°C			
Dimensions (mm)	32 (L) x 32 (W) x 27 (H)	32 (L) x 32 (W) x 15 (H)	32 (L) x 32 (W) x 27 (H)	32 (L) x 32 (W) x 15 (H)
Weight	14.5 g	9.5 g	14.5 g	9.5 g



Color Board Cameras NVC-SC100B, NVC-SC100BCP, NVC-HC100B, NVC-HC100BCP





Features

- Horizontal resolution: up to 540 TVL
- Min. Illumination: from 0.3 lx/F=2.0
- Lens type:
- Standard, f=3.8 mm
- Conical-pinhole, f=3.8 mm
- Power supply: 12 VDC

Model	NVC-SC100B	NVC-SC100BCP	NVC-HC100B	NVC-HC100BCP
Pick-up Element	1/3" SONY Super HAD color CCD imager		1/3" SONY Super HAD HQ1 DSP color CCD imager	
Horizontal Resolution	380	TVL	540	TVL
Min. Illumination	0.3 lx/	/F=2.0	0.5 lx	/F=2.0
S/N Ratio		More than 48	dB (AGC Off)	
Electronic Shutter		Auto (AES): 1/50	s ~ 1/100 000 s	
Auto Gain Control (AGC)		0	n	
White Balance		Aι	ito	
Back Light Compensation (BLC)		Au	ito	
Synchronization		Inte	rnal	
Lens Type	Standard: f=3.8 mm	Conical-pinhole: f=3.8 mm	Standard: f=3.8 mm	Conical-pinhole: f=3.8 mm
Angle of View (H)		60	6°	
Video Output		1.0 V _{p-p} /	75 Ohm	
Power Supply	12 VDC			
Power Consumption	2 W			
Operating Temperature	0°C ~ 50°C			
Dimensions (mm)	32 (L) x 32 (W) x 28 (H)	32 (L) x 32 (W) x 15 (H)	38 (L) x 38 (W) x 38 (H)	38 (L) x 38 (W) x 25 (H)
Weight	17 g	12 g	25 g	20 g



Day/Night Board Cameras NVC-SDN100B, NVC-SDN100BCP,

NVC-HDN100B, NVC-HDN100BCP





Features

- Electronic Day/Night function
- IR operation capability
- Horizontal resolution: up to 540 TVL
- Min. Illumination: from 0.3 lx/F=2.0
- Lens type:
- Standard, f=3.8 mm
- Conical-pinhole, f=3.8 mm
- Power supply: 12 VDC

Model	NVC-SDN100B	NVC-SDN100BCP	NVC-HDN100B	NVC-HDN100BCP
Pick-up Element	1/3" SONY Super HAD CCD imager		1/3" SONY Super HAD HQ1 DSP CCD imager	
Horizontal Resolution	380)TVL	540	TVL
Min. Illumination	0.3 lx	/F=2.0	0.5 lx	/F=2.0
S/N Ratio		More than 48	dB (AGC Off)	
Electronic Shutter		Auto (AES): 1/50	s ~ 1/100 000 s	
Auto Gain Control (AGC)		C	n	
White Balance		Au	ito	
Back Light Compensation (BLC)	Auto			
Synchronization	Internal			
Day/Night Switching	Auto			
Lens Type	Standard: f=3.8 mm	Conical-pinhole: f=3.8 mm	Standard: f=3.8 mm	Conical-pinhole: f=3.8 mm
Angle of View (H)	66°			
Video Output	1.0 V _{P-P} /75 Ohm			
Power Supply	12 VDC			
Power Consumption	2 W			
Operating Temperature	0°C ~ 50°C			
Dimensions (mm)	32 (L) x 32 (W) x 28 (H)	32 (L) x 32 (W) x 15 (H)	38 (L) x 38 (W) x 38 (H)	38 (L) x 38 (W) x 25 (H)
Weight	17 g	12 g	25 g	20 g



B/W Dome Cameras NVC-SB200D, NVC-HB200D





Features

- Horizontal resolution: up to 600 TVL
- Min. Illumination: from 0.04 lx/F=2.0
- Standard lens: f=3.6 mm
- Power supply: 12 VDC

Model	NVC-SB200D	NVC-HB200D	
Pick-up Element	1/3" SONY Super HAD B/W CCD imager		
Horizontal Resolution	450 TVL	600 TVL	
Min. Illumination	0.04 lx/F=2.0	0.06 lx/F=2.0	
S/N Ratio	More than 48	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50	s ~ 1/110 000 s	
Auto Gain Control (AGC)	C	n	
Synchronization	Internal		
Lens Type	Standard: f=3.6 mm		
Angle of View (H)	68°		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC		
Power Consumption	1.3 W		
Operating Temperature	0°C ~ 50°C		
Dimensions (mm)	87.5 (Ø) x 56.5 (H)		
Weight	120 g		



Color Dome Cameras NVC-SC200D, NVC-HC200D, NVC-HC210D





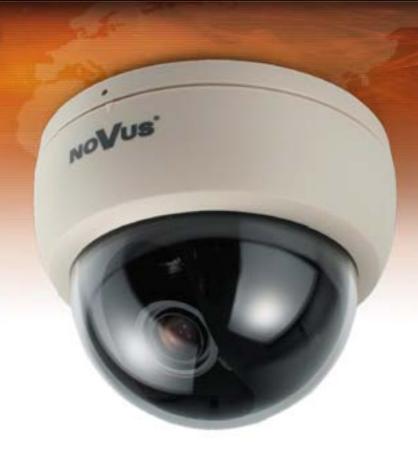
Features

- Horizontal resolution: up to 540 TVL
- Min. Illumination: from 0.3 lx/F=2.0
- Standard lens: f=3.8 mm
- Enclosure color:
- White: NVC-SC200D/W, NVC-HC200D/W, NVC-HC210D/W
- Black: NVC-SC200D/B, NVC-HC200D/B, NVC-HC210D/B
- Power supply: 12 VDC

Model	NVC-SC200D	NVC-HC200D	NVC-HC210D
Pick-up Element	1/3" SONY Super HA	AD color CCD imager	1/3"SONY Super HAD HQ1 DSP color CCD imager
Horizontal Resolution	380 TVL	480 TVL	540 TVL
Min. Illumination	0.3 lx/F=2.0	0.8 lx/F=2.0	0.5 lx/F=2.0
S/N Ratio		More than 48 dB (AGC Off)	
Electronic Shutter		Auto (AES): 1/50 s ~ 1/100 000 s	
Auto Gain Control (AGC)		On	
White Balance	Auto		
Back Light Compensation (BLC)	Auto		
Synchronization	Internal		
Lens Type	Standard: f=3.8 mm		
Angle of View (H)	66°		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC		
Power Consumption	2 W		
Operating Temperature	0°C ~ 50°C		
Dimensions (mm)	113 (Ø) x 76.7 (H)		
Weight	220 g		



Color Dome Cameras NVC-HC220DVF











Features

- Horizontal resolution: 540 TVL
- Min. Illumination: 0.5 lx/F=2.0
- Auto iris DC lens: f=4 ~ 9 mm
- 3-axis camera module adjustment
- Power supply: 12 VDC

- Petilitations		
Model	NVC-HC220DVF	
Pick-up Element	1/3" SONY Super HAD HQ1 DSP color CCD imager	
Horizontal Resolution	540 TVL	
Min. Illumination	0.5 lx/F=2.0	
S/N Ratio	More than 48 dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~ 1/100 000 s	
Auto Gain Control (AGC)	On/Off	
White Balance	Auto	
Back Light Compensation (BLC)	On/Off	
Synchronization	Internal	
Flickerless Function	On/Off	
Lens Type	Auto iris DC: f=4 ~ 9 mm	
Angle of View (H)	62° ~ 29°	
Video Output	1.0 V _{p-p} /75 Ohm (BNC)	
Power Supply	12 VDC	
Power Consumption	3 W	
Operating Temperature	0°C ~ 50°C	
Dimensions (mm)	130 (Ø) x 102 (H)	
Weight	520 g	



Day/Night Dome Cameras NVC-SDN200D, NVC-HDN200D, **NVC-HDN210D**









Features

- Electronic Day/Night function
- IR operation capability
- Horizontal resolution: up to 540 TVL
- Min. Illumination: from 0.3 lx/F=2.0
- Standard lens: f=3.8 mm
- Enclosure color:
- White: NVC-SDN200D/W, NVC-HDN200D/W, NVC-HDN210D/W
- Black: NVC-SDN200D/B, NVC-HDN200D/B, NVC-HDN210D/B
- Power supply: 12 VDC

Model	NVC-SDN200D	NVC-HDN200D	NVC-HDN210D
Pick-up Element	1/3" SONY Supe	er HAD CCD imager	1/3" SONY Super HAD HQ1 DSP CCD imager
Horizontal Resolution	380 TVL	480 TVL	540 TVL
Min. Illumination	0.3 lx/F=2.0	0.8 lx/F=2.0	0.5 lx/F=2.0
S/N Ratio		More than 48 dB (AGC Off)	
Electronic Shutter		Auto (AES): 1/50 s ~ 1/100 000 s	
Auto Gain Control (AGC)		On	
White Balance		Auto	
Back Light Compensation (BLC)	Auto		
Synchronization	Internal		
Day/Night Switching	Auto		
Lens Type	Standard: f=3.8 mm		
Angle of View (H)	66°		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC		
Power Consumption	2 W		
Operating Temperature	0°C ~ 50°C		
Dimensions (mm)	113 (Ø) x 76.7 (H)		
Weight	220 g		



B/W Vandal Proof Cameras

NVC-VS10BD, NVC-VS25BD, NVC-VH35BD, NVC-VS15BD/IR

















- Horizontal resolution: up to 580 TVL
- Min. Illumination: from 0.05 lx/F=1.2 (0 lx IR On)
- Lens type:
- Standard, f=3.6 mm
- Auto iris DC, f=4 ~ 9 mm
- Built-in IR LED 12 pcs. (NVC-VS15BD/IR)
- IP 66
- Vandal proof housing
- Power supply: 12 VDC

Model	NVC-VS10BD	NVC-VS25BD	NVC-VH35BD	NVC-VS15BD/IR
Pick-up Element	1/3"SAMSUNG B/W CCD imager			
Horizontal Resolution	420 TVL	420 TVL	580 TVL	420 TVL
Min. Illumination	0.05 lx/F=1.2	0.05 lx/F=1.2	0.08 lx/F=1.2	0 lx (IR On)
S/N Ratio		More than 48	dB (AGC Off)	
Electronic Shutter		Auto (AES): 1/50) s ~ 1/100 000 s	
Auto Gain Control (AGC)		C)n	
Back Light Compensation (BLC)		Aι	uto	
Synchronization	Internal			
Lens Type	Standard: f=3.6 mm	Auto iris DC:	: f=4 ~ 9 mm	Standard: f=3.6 mm
Angle of View (H)	68°	62° ~ 29°	62° ~ 29°	68°
IR LED	N/A	N/A	N/A	12 pcs.
IR Effective Range	N/A	N/A	N/A	Up to 10 m
Degree of Protection		IP	66	
Enclosure	Vandal p	roof, chrome coated steel, im	npact resistant poly-carbonat	e bubble
Video Output	1.0 V _{p-p} /75 Ohm (BNC)			
Power Supply	12 VDC			
Power Consumption	2.5 W			
Operating Temperature	-10°C ~ 50°C			
Dimensions (mm)	108 (Ø) x 75 (H)			
Weight		64	0 g	



Color Vandal Proof Cameras NVC-VS50CD, NVC-VS55CD, NVC-VH60CD, NVC-VS45CD/IR















Features

- Horizontal resolution: up to 480 TVL
- Min. Illumination: from 0.8 lx/F=1.2 (0 lx IR On)
- Lens type:
- Standard, f=3.6 mm
- Auto iris DC, $f=4 \sim 9 \text{ mm}$
- Built-in IR LED 12 pcs. (NVC-VS45CD/IR)
- IP 66
- Vandal proof housing • Power supply: 12 VDC
- **Specifications**

Model	NVC-VS50CD	NVC-VS55CD	NVC-VH60CD	NVC-VS45CD/IR
Pick-up Element	1/3" SAMSUNG color CCD imager			
Horizontal Resolution	380 TVL	380 TVL	480 TVL	380 TVL
Min. Illumination	0.8 lx/F=1.2	0.8 lx/F=1.2	0.8 lx/F=1.2	0 lx (IR On)
S/N Ratio		More than 48	dB (AGC Off)	
Electronic Shutter		Auto (AES): 1/50	s ~ 1/100 000 s	
Auto Gain Control (AGC)		C)n	
White Balance		Αι	ito	
Back Light Compensation (BLC)	Auto			
Synchronization		Inte	rnal	
Lens Type	Standard: f=3.6 mm	Auto iris DC:	f=4 ~ 9 mm	Standard: f=3.6 mm
Angle of View (H)	68°	62° ~ 29°	62° ~ 29°	68°
IR LED	N/A	N/A	N/A	12 pcs.
IR Effective Range	N/A	N/A	N/A	Up to 10 m
Degree of Protection		IP	66	
Enclosure	Vandal pi	roof, chrome coated steel, im	pact resistant poly-carbonat	te bubble
Video Output	1.0 V _{p-p} /75 Ohm (BNC)			
Power Supply	12 VDC			
Power Consumption	3 W			
Operating Temperature	-10°C ~ 50°C			
Dimensions (mm)	108 (Ø) x 75 (H)			
Weight		64	0 g	



Color Vandal Proof Cameras

NVC-HC400VP, NVC-HC400VPH-2















- Horizontal resolution: 540 TVL
- Min. Illumination: 0.5 lx/F=2.0
- Auto iris DC lens: f=4 ~ 9 mm
- 3-axis camera module adjustment
- Built-in heater (NVC-HC400VPH-2)
- IP 65
- Vandal proof housing
- Power supply: 12 VDC, 12 VDC/24 VAC





specifications			
Model	NVC-HC400VP	NVC-HC400VPH-2	
Pick-up Element	1/3" SONY Super HAD H	Q1 DSP color CCD imager	
Horizontal Resolution	540	OTVL	
Min. Illumination	0.5 >	√F=2.0	
S/N Ratio	More than 4	8 dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/5	0 s ~ 1/100 000 s	
Auto Gain Control (AGC)	Or	n/Off	
White Balance	A	uto	
Back Light Compensation (BLC)	Or	n/Off	
Synchronization	Int	ernal	
Flickerless Function	Or	n/Off	
Lens Type	Auto iris DC: f=4 ~ 9 mm		
Angle of View (H)	62° ~ 29°		
Degree of Protection	IF	P 65	
Enclosure	Vandal proof, coated aluminium, im	pact resistant poly-carbonate bubble	
Video Output	1.0 V _{p-p} /75	Ohm (BNC)	
Heater	N/A	Yes	
Power Supply	12 VDC	12 VDC/24 VAC	
Power Consumption	3 W 5 W (Heater On)		
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	142 (Ø) x 100 (H)		
Weight	844 g	861 g	



Day/Night Vandal Proof Cameras

NVC-HDN400VP, NVC-HDN400VPH-2, NVC-HDN400VP/IR, NVC-HDN400VPH/IR-2



















Features

- Mechanical IR cut filter
- IR operation capability
- Horizontal resolution: up to 600 TVL
- Min. Illumination: 0 lx (IR On)
- Digital Slow Shutter (DSS)
- Digital Noise Reduction (DNR)
- Auto iris DC lens: f=3.8 ~ 9.5 mm
- 3-axis camera module adjustment (NVC-HDN400VP, NVC-HDN400VPH-2)
- Built-in IR LED 20 pcs. (NVC-HDN400VP/IR, NVC-HDN400VPH/IR-2)
- Built-in heater (NVC-HDN400VPH-2, NVC-HDN400VPH/IR-2)
- IP 65
- Vandal proof housing
- Power supply: 12 VDC, 12 VDC/24 VAC



Model	NVC-HDN400VP	NVC-HDN400VPH-2	NVC-HDN400VP/IR	NVC-HDN400VPH/IR-2	
Pick-up Element	1/3" SONY Super HAD HQ1 DSP CCD imager				
Horizontal Resolution	550 TVL - color mode, 600 TVL - B/W mode				
Min. Illumination	0.3 lx/F=1.2 - color mode, 0.1 lx/F=1.2 - B/W mode, 0.008 lx/F=1.2 - B/W mode, DSS (0.64 s) 0.3 lx/F=1.2 - color mode, 0.1 lx/F=1.2 - B/W mode, 0.008 lx/F=1.2 - B/W mode, DSS (0.64 s)			- B/W mode, / mode, DSS (0.64 s),	
S/N Ratio		More than 50	dB (AGC Off)		
Electronic Shutter		Auto (AES): 1/50	s ~ 1/120 000 s		
Digital Slow Shutter (DSS)		0.04 s ~	~ 0.64 s		
Auto Gain Control (AGC)		On/	/Off		
White Balance		Au	ito		
Digital Noise Reduction (DNR)		Au	ito		
Back Light Compensation (BLC)		On/	/Off		
Synchronization		Inte	rnal		
Day/Night Switching	Auto				
Flickerless Function	On/Off				
Lens Type	Auto iris DC: f=3.8 ~ 9.5 mm				
Angle of View (H)	62° ~ 29°				
Digital Zoom		2	X		
IR LED	N/	'A	20	pcs.	
IR Effective Range	N/) 15 m	
Degree of Protection		IP (
Enclosure	Vanda	l proof, coated aluminium, imp	pact resistant poly-carbonate b	oubble	
Video Output		1.0 V _{p-p} /75 (Ohm (BNC)		
Heater	N/A	Yes	N/A	Yes	
Power Supply	12 VDC	12 VDC/24 VAC	12 VDC	12 VDC/24 VAC	
Power Consumption	1.8 W	3 W 13 W (Heater On)	4.3 W 9.3 W (IR On)	5 W 15 W (Heater On) 20 W (Heater and IR On)	
Operating Temperature	-10°C ~ 50°C	-40°C ∼ 50°C (Heater On)	-10°C ~ 50°C	-40°C ∼ 50°C (Heater On)	
Dimensions (mm)	142 (Ø) x 100 (H)				
Weight	844 g	861 g	874 g	884 g	







Features

- Horizontal resolution: 420 TVL
- Min. Illumination: 0.1 lx/F=2.0
- Standard lens: f=3.6 mm
- IP 66
- Mounting bracket and sunshield included
- Power supply: 12 VDC

- I		
Model	NVC-70BH	
Pick-up Element	1/3" SAMSUNG B/W CCD imager	
Horizontal Resolution	420 TVL	
Min. Illumination	0.1 lx/F=2.0	
S/N Ratio	More than 46 dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~ 1/100 000 s	
Auto Gain Control (AGC)	On	
Synchronization	Internal	
Lens Type	Standard: f=3.6 mm	
Angle of View (H)	68°	
Degree of Protection	IP 66	
Video Output	1.0 V _{p-p} /75 Ohm (BNC)	
Power Supply	12 VDC	
Power Consumption	1.2 W	
Operating Temperature	-10°C ~ 50°C	
Dimensions (mm)	58 (Ø) x 115 (L)	
Weight	580 g	



B/W Bullet Cameras NVC-80BH



Features

- Horizontal resolution: 380 TVL
- Min. Illumination: 0 lx (IR On)
- Standard lens: f=3.6 mm
- Built-in IR LED 12 pcs.
- IP 57
- Mounting bracket and sunshield included
- Power supply: 12 VDC

Model	NVC-80BH	
Pick-up Element	1/3" SAMSUNG B/W CCD imager	
Horizontal Resolution	380 TVL	
Min. Illumination	0 lx (IR On)	
S/N Ratio	More than 48 dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~ 1/100 000 s	
Auto Gain Control (AGC)	On	
Synchronization	Internal	
Lens Type	Standard: f=3.6 mm	
Angle of View (H)	68°	
IR LED	12 pcs.	
IR Effective Range	Up to 10 m	
Degree of Protection	IP 57	
Video Output	1.0 V _{P-P} /75 Ohm (BNC)	
Power Supply	12 VDC	
Power Consumption	1 W (IR Off), 3.5 W (IR On)	
Operating Temperature	-10°C ~ 50°C	
Dimensions (mm)	64.6 (Ø) x 95 (L)	
Weight	550 g	



Color Bullet Cameras NVC-SC300H





Features

- Horizontal resolution: 380 TVL
- Min. Illumination: 0.5 lx/F=2.0
- Standard lens: f=3.6 mm
- IP 57
- Mounting bracket included
- Power supply: 12 VDC

Model	NVC-SC300H	
Pick-up Element	1/3" SONY Super HAD color CCD imager	
Horizontal Resolution	380 TVL	
Min. Illumination	0.5 lx/F=2.0	
S/N Ratio	More than 48 dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~ 1/100 000 s	
Auto Gain Control (AGC)	On	
White Balance	Auto	
Back Light Compensation (BLC)	Auto	
Synchronization	Internal	
Lens Type	Standard: f=3.6 mm	
Angle of View (H)	68°	
Degree of Protection	IP 57	
Video Output	1.0 V _{p-p} /75 Ohm (BNC)	
Power Supply	12 VDC	
Power Consumption	1 W	
Operating Temperature	-10°C ~ 50°C	
Dimensions (mm)	26 (Ø) x 87 (L)	
Weight	300 g	



Color Bullet Cameras NVC-80CH







Features

- Horizontal resolution: 380 TVL
- Min. Illumination: 0 lx (IR On)
- Standard lens: f=4 mm
- Built-in IR LED 12 pcs.
- IP 57
- Mounting bracket and sunshield included
- Power supply: 12 VDC

Model	NVC-80CH	
Pick-up Element	1/4" SHARP color CCD imager	
Horizontal Resolution	380 TVL	
Min. Illumination	0 lx (IR On)	
S/N Ratio	More than 48 dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~ 1/100 000 s	
Auto Gain Control (AGC)	On	
White Balance	Auto	
Synchronization	Internal	
Lens Type	Standard: f=4 mm	
Angle of View (H)	48°	
IR LED	12 pcs.	
IR Effective Range	Up to 10 m	
Degree of Protection	IP 57	
Video Output	1.0 V _{p-p} /75 Ohm (BNC)	
Power Supply	12 VDC	
Power Consumption	1.5 W (IR Off), 3.5 W (IR On)	
Operating Temperature	-10°C ~ 50°C	
Dimensions (mm)	64.6 (Ø) x 95 (L)	
Weight	550 g	







- Horizontal resolution: 420 TVL
- Min. Illumination: 0 lx (IR On)
- Standard lens: f=4.3 mm and f=6 mm
- Built-in IR LED 23 or 48 pcs.
- IP 65
- Mounting bracket and sunshield included
- Power supply: 12 VDC

Model	NVC-SC310H/IR	NVC-SC320H/IR	
Pick-up Element	1/3" SONY Super HAD color CCD imager		
Horizontal Resolution	420	TVL	
Min. Illumination	0 lx (li	R On)	
S/N Ratio	More than 48	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50) s ~ 1/100 000 s	
Auto Gain Control (AGC)	0	n	
White Balance	Au	uto	
Synchronization	Internal		
Lens Type	Standard: f=4.3 mm	Standard: f=6 mm	
Angle of View (H)	58.3°	43.6°	
IR LED	23 pcs.	48 pcs.	
IR Effective Range	Up to 18 m	Up to 30 m	
Degree of Protection	IP 65		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC		
Power Consumption	4 W (IR On) 1.5 W (IR Off)	5.5 W (IR On) 1.5 W (IR Off)	
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	60 (Ø) x 100 (L)	70 (Ø) x 102 (L)	
Weight	375 g	650 g	



Day/Night Bullet Cameras NVC-HDN300H/IR, NVC-HDN310H/IR





- Mechanical IR cut filter
- IR operation capability
- Horizontal resolution: up to 600 TVL
- Min. Illumination: 0 lx (IR On)
- Auto iris DC lens: f=3.8 ~ 9.5 mm
- Built-in IR LED 18 or 36 pcs.
- IP 65 or IP 66
- Mounting bracket and sunshield included
- Power supply: 12 VDC

Model	NVC-HDN300H/IR	NVC-HDN310H/IR	
Pick-up Element	1/3" SONY Super HAD HQ1 DSP CCD imager		
Horizontal Resolution	540 TVL - color mode, 600 TVL - B/W mode		
Min. Illumination	0 lx (l	R On)	
S/N Ratio	More than 48	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~ 1/100 000 s	1/50 s	
Auto Gain Control (AGC)	C)n	
White Balance	Auto (2	modes)	
Synchronization	Inte	ernal	
Day/Night Switching	Auto		
Lens Type	Auto iris DC: f=3.8 ~ 9.5 mm		
Angle of View (H)	66° ~ 28.6°		
IR LED	18 pcs.	36 pcs.	
IR Effective Range	Up to 20 m	Up to 35 m	
Degree of Protection	IP 66	IP 65	
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC		
Power Consumption	4 W (IR On) 2 W (IR Off)	5 W (IR On) 2.2 W (IR Off)	
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	60 (Ø) x 100 (L)	70 (Ø) x 102 (L)	
Weight	575 g	650 g	



Day/Night Bullet Cameras NVC-HDN320H/IR















Features

- Mechanical IR cut filter
- IR operation capability
- Horizontal resolution: up to 600 TVL
- Min. Illumination: 0 lx (IR On)
- Auto iris DC lens: f=3.8 ~ 9.5 mm
- Built-in IR LED 36 pcs.
- IP 66
- Mounting bracket and sunshield included
- Power supply: 12 VDC

Model	NVC-HDN320H/IR	
Pick-up Element	1/3" SONY Super HAD HQ1 DSP CCD imager	
Horizontal Resolution	540 TVL - color mode, 600 TVL - B/W mode	
Min. Illumination	0 lx (IR On)	
S/N Ratio	More than 48 dB (AGC Off)	
Electronic Shutter	1/50 s	
Auto Gain Control (AGC)	On	
White Balance	Auto	
Synchronization	Internal	
Day/Night Switching	Auto	
Lens Type	Auto iris DC: f=3.8 ~ 9.5 mm	
Angle of View (H)	66° ~ 28.6°	
IR LED	36 pcs.	
IR Effective Range	Up to 30 m	
Degree of Protection	IP 66	
Video Output	1.0 V _{p-p} /75 Ohm (BNC)	
Power Supply	12 VDC	
Power Consumption	6 W (IR On) 2 W (IR Off)	
Operating Temperature	-10°C ~ 50°C	
Dimensions (mm)	70 (Ø) x 100 (L)	
Weight	925 g	



B/W Classic Cameras NVC-105B, NVC-155B, NVC-130BH, NVC-180BH





Features

- Horizontal resolution: up to 600 TVL
- Min. Illumination: from 0.01 lx/F=1.2
- Power supply: 12 VDC/24 VAC, 100 ~ 240 VAC

Model	NVC-105B	NVC-155B	NVC-130BH	NVC-180BH	
Pick-up Element	1/3" SONY Super HAD B/W CCD imager				
Horizontal Resolution	420	TVL	600	TVL	
Min. Illumination	0.05 lx	/F=1.2	0.01 lx	0.01 lx/F=1.2	
S/N Ratio		More than 4	8 dB (AGC Off)		
Electronic Shutter		Auto (AES): 1/5	0 s ~ 1/100 000 s		
Auto Gain Control (AGC)		(On .		
Back Light Compensation (BLC)	On/Off				
Synchronization	Internal				
Iris Mode	V or D selectable				
Lens Mount	C/CS				
Video Output	1.0 V _{p-p} /75 Ohm (BNC)				
Power Supply	12 VDC/24 VAC	100 ~ 240 VAC	12 VDC/24 VAC	100 ~ 240 VAC	
Power Consumption	1.65 W/2.75 W	2.75 W	1.65 W/2.75 W	2.75 W	
Operating Temperature	-10°C ~ 50°C				
Dimensions (mm)	125 (L) x 62 (W) x 52 (H)				
Weight	460 g	600 g	460 g	600 g	



Color Classic Cameras NVC-235C, NVC-255C



Features

• Horizontal resolution: 380 TVL

• Min. Illumination: 0.1 lx/F=1.2

• Power supply: 12 VDC/24 VAC, 100 ~ 240 VAC

Specifications			
Model	NVC-235C	NVC-255C	
Pick-up Element	1/3" SONY Super HAD color CCD imager		
Horizontal Resolution	380	TVL	
Min. Illumination	0.1 lx/	/F=1.2	
S/N Ratio	More than 48	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50) s ~ 1/100 000 s	
Auto Gain Control (AGC)	C	n	
White Balance	Au	ito	
Back Light Compensation (BLC)	On/Off		
Synchronization	Internal		
Iris Mode	V or D selectable		
Lens Mount	C/CS		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC/24 VAC	100 ~ 240 VAC	
Power Consumption	3.2 W		
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	125 (L) x 62 (W) x 52 (H)		
Weight	460 g	600 g	







Features

Horizontal resolution: 380 TVLMin. Illumination: 0.07 lx/F=1.2

• Power supply: 12 VDC/24 VAC, 100 ~ 240 VAC

Model	NVC-SC500-2	NVC-SC500-3	
Pick-up Element	1/3" SONY Super HAD color CCD imager		
Horizontal Resolution	380	TVL	
Min. Illumination	0.07 lx	/F=1.2	
S/N Ratio	More than 48	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50	s ~ 1/100 000 s	
Auto Gain Control (AGC)	On/	/Off	
White Balance	Au	ito	
Back Light Compensation (BLC)	On/	/Off	
Synchronization	Internal		
Flickerless Function	On/Off		
Iris Mode	V or D selectable		
Lens Mount	C/CS		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC/24 VAC 100 ~ 240 VAC		
Power Consumption	2.8W 3W		
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	124 (L) x 62 (W) x 57 (H)		
Weight	220 g 430 g		



Color Classic Cameras NVC-HC530-2, NVC-HC530-3





Features

Horizontal resolution: 540 TVLMin. Illumination: 0.4 lx/F=1.2

 \bullet Power supply: 12 VDC/24 VAC, 100 \sim 240 VAC

Model	NVC-HC530-2	NVC-HC530-3	
Pick-up Element	1/3" SONY Super HAD HQ1 DSP color CCD imager		
Horizontal Resolution	540	TVL	
Min. Illumination	0.4 lx/	/F=1.2	
S/N Ratio	More than 48	B dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50) s ~ 1/100 000 s	
Auto Gain Control (AGC)	On	/Off	
White Balance	Au	uto	
Back Light Compensation (BLC)	On/Off		
Synchronization	Internal		
Flickerless Function	On/Off		
Iris Mode	V or D selectable		
Lens Mount	C/CS		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC/24 VAC	100 ~ 240 VAC	
Power Consumption	2.8 W	3 W	
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	124 (L) x 62 (W) x 57 (H)		
Weight	220 g 430 g		



Classic Cameras with Electronic Day/Night Function NVC-HC510, NVC-HC510-3





Features

- Electronic Day/Night function
- Horizontal resolution: 520 TVL
- Min. Illumination: 0.1 lx/F=1.2
- Power supply: 12 VDC, 230 VAC

Model	NVC-HC510	NVC-HC510-3	
Pick-up Element	1/3" SONY Super HAD HQ1 DSP color CCD imager		
Horizontal Resolution	520	TVL	
Min. Illumination	0.1 lx/	F=1.2	
S/N Ratio	More than 50	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50	s ~ 1/100 000 s	
Auto Gain Control (AGC)	0	n	
White Balance	Au	ito	
Back Light Compensation (BLC)	On/Off		
Synchronization	Internal		
Day/Night Switching	On/Off		
Iris Mode	V or D selectable		
Lens Mount	C/CS		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC	230 VAC	
Power Consumption	2.4 W	4 W	
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	128.5 (L) x 58.5 (W) x 53 (H)		
Weight	220 g 550 g		



Day/Night Classic Cameras NVC-SDN500-2, NVC-SDN500-3





Features

- Electronic Day/Night function
- IR operation capability
- Horizontal resolution: 380 TVL
- Min. Illumination: 0.07 lx/F=1.2
- Power supply: 12 VDC/24 VAC, 100 ~ 240 VAC

Model	NVC-SDN500-2	NVC-SDN500-3	
Pick-up Element	1/3" SONY Super HAD CCD imager		
Horizontal Resolution	380	TVL	
Min. Illumination	0.07 lx,	/F=1.2	
S/N Ratio	More than 48	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50	s ~ 1/100 000 s	
Auto Gain Control (AGC)	On/	Off	
White Balance	Auto		
Back Light Compensation (BLC)	On/Off		
Synchronization	Internal		
Day/Night Switching	Auto		
Flickerless Function	On/Off		
Iris Mode	V or D selectable		
Lens Mount	C/CS		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Power Supply	12 VDC/24 VAC	100 ~ 240 VAC	
Power Consumption	2.8 W	3 W	
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	124 (L) x 62 (W) x 57 (H)		
Weight	220 g	430 g	



Day/Night Classic Cameras NVC-525DN, NVC-560DN





Features

- Mechanical IR cut filter
- IR operation capability
- Horizontal resolution: up to 570 TVL
- Min. Illumination: from 0.01 lx/F=1.2
- Power supply: 12 VDC/24 VAC, 220 ~ 240 VAC

Model	NVC-525DN	NVC-560DN		
Pick-up Element	1/3" SONY Super HAD CCD imager			
Horizontal Resolution	480 TVL - color mode, 570 TVL - B/W mode			
Min. Illumination	0.5 lx/F=1.2 - color mode, 0.01 lx/F=1.2 - B/W mode			
S/N Ratio	More than 50	More than 50 dB (AGC Off)		
Electronic Shutter	Auto (AES): 1/50 s ~	Auto (AES): 1/50 s ~ 1/100 000 s/Manual		
Auto Gain Control (AGC)	On	On/Off		
White Balance	Auto			
Back Light Compensation (BLC)	On/Off			
Synchronization	Internal/Line-lock with phase adjustment			
Day/Night Switching	Auto/Manual			
Flickerless Function	On/Off			
Iris Mode	V or D selectable			
Lens Mount	C/CS			
Video Output	1.0 V _{p-p} /75 Ohm (BNC)			
Power Supply	12 VDC/24 VAC	220 ~ 240 VAC		
Power Consumption	3.5 W	6 W		
Operating Temperature	-10°C ~ 50°C			
Dimensions (mm)	124 (L) x 62 (W) x 54 (H)			
Weight	287 g 310 g			



Day/Night Classic Cameras

NVC-625DN, NVC-660DN















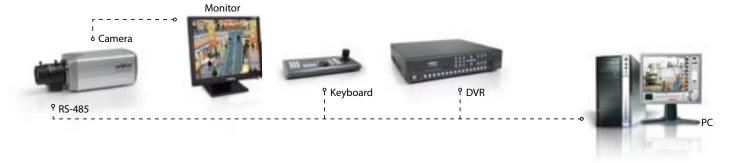






Features

- Mechanical IR cut filter
- IR operation capability
- Horizontal resolution: up to 570 TVL
- Min. Illumination: from 0.003 lx/F=1.2
- Wide Dynamic Range (WDR) for enhanced image quality in diverse light conditions
- Digital Slow Shutter (DSS)
- Digital zoom: 12x
- Digital Image Stabilizer (DIS)
- Digital Noise Reduction (DNR)
- Various picture effects
- Full configuration (user friendly OSD):
- directly from the camera
- from the NV-KBD60 & NV-KBD40 keyboards
- from the PC through an additional dedicated CamConfigurator application
- from NOVUS® video capture cards
- directly from the front panel of NOVUS® 5000 Series DVRs
- Zoom control directly from the front panel of NOVUS® DVRs, NOVUS® video capture cards, NV-KBD60 & NV-KBD40 keyboards and CamConfigurator application
- Remote control: RS-232/RS-485
- Protocols: Novus-C1
- Power supply: 12 VDC/24 VAC, 220 ~ 240 VAC





Model	NVC-625DN	NVC-660DN	
Pick-up Element	1/3" SONY Super HAD CCD imager		
Horizontal Resolution	480 TVL - color mode, 570 TVL - B/W mode		
Min. Illumination	0.5 lx/F=1.2 - color mode (1/50 s), 0.01 lx/F=1.2 - B/W mode (1/50 s), 0.003 lx/F=1.2 - B/W mode, Digital Slow Shutter (DSS) (1.2 s)		
S/N Ratio	More than 52	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~	1/10 000 s/Manual	
Digital Slow Shutter (DSS)	1/25 s	~ 1.2 s	
Auto Gain Control (AGC)	On/	Off	
Wide Dynamic Range (WDR)	On/	/Off	
White Balance	5 modes: AWB/Indoor/C	Outdoor/Manual/WAWB	
Back Light Compensation (BLC)	On/Off (3 zones: Centre/Top/Bottom)		
Synchronization	Internal/Line-lock with auto phase adjustment		
Day/Night Switching	Auto/Manual (On/Off)/External		
Flickerless Function	On/Off		
Iris Mode	V or D selectable		
Lens Mount	C/CS		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Remote Control	RS-232/RS-485		
Protocol	Novus-C1		
Digital Zoom	12x		
Set-up	On Screen Display (OSD)		
Other Functions	Digital Image Stabilizer (DIS), Digital Noise Reduction (DNR), Various picture effects: Nega/Posi, B/W, Mirror (horizontal), PIP, Freeze, Image adjustment: brightness and sharpness		
Power Supply	12 VDC/24 VAC 220 ~ 240 VAC		
Power Consumption	4.5 W		
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	124 (L) x 62 (W) x 54 (H)		
Weight	265 g	450 g	



Day/Night Classic Cameras

NVC-825DN, NVC-860DN















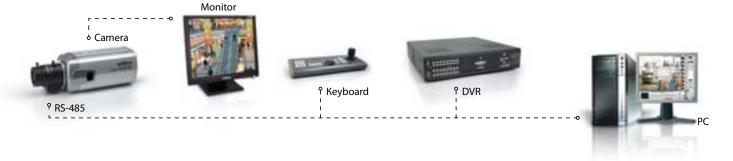






Features

- Mechanical IR cut filter
- IR operation capability
- Horizontal resolution: up to 580 TVL
- Min. Illumination: from 0.0003 lx/F=1.2 (DSS)
- Wide Dynamic Range (WDR) for enhanced image quality in diverse light conditions
- Digital Slow Shutter (DSS)
- Digital zoom: 3x
- Privacy zones: 4
- Various picture effects
- Full configuration (user friendly OSD):
- directly from the camera
- from the NV-KBD60 & NV-KBD40 keyboards
- from the PC through an additional dedicated CamConfigurator application
- from NOVUS® video capture cards
- Zoom control directly from the front panel of NOVUS® DVRs, NOVUS® video capture cards, NV-KBD60 & NV-KBD40 keyboards and CamConfigurator application
- Remote control: RS-485
- Protocols: Novus-C2
- Power supply: 12 VDC/24 VAC, 100 ~ 240 VAC





Model	NVC-825DN	NVC-860DN	
Pick-up Element	1/3" SONY Double Scan CCD imager		
Horizontal Resolution	480 TVL - color mode, 580 TVL - B/W mode		
Min. Illumination	0.1 x/F=1.2 - color mode (1/50 s), 0.01 x/F=1.2 - B/W mode (1/50 s), 0.001 x/F=1.2 - color mode, Digital Slow Shutter (DSS) (3.2 s), 0.0003 x/F=1.2 - B/W mode, Digital Slow Shutter (DSS) (3.2 s)		
S/N Ratio	More than 50	dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~	1/10 000 s/Manual	
Digital Slow Shutter (DSS)	1/25 s	~ 3.2 s	
Auto Gain Control (AGC)	Off/Low/I	Mid/High	
Wide Dynamic Range (WDR)	On/Off (setting	range: 0 ~ 15)	
White Balance	3 modes: Aut	o/Hold/User	
Back Light Compensation (BLC)	On/Off (setting range: 0 ~ 15)		
Synchronization	Internal/Line-lock with phase adjustment	Internal	
Day/Night Switching	Auto/Manual/External		
Day/Night Level	0 ~ 200		
Filter Delay	0 ~ 15 s		
Flickerless Function	On/Off		
Privacy Zones	4		
Iris Mode	V or D selectable		
Lens Mount	C/CS		
Video Output	1.0 V _{p-p} /75 Ohm (BNC)		
Remote Control	RS-485		
Protocol	Novus-C2		
Digital Zoom	3x		
Set-up	On Screen Display (OSD)		
Other Functions	Built-in photo cell, Various picture effects: Flickerless, Mirror (horizontal and vertical), Nega/Posi, Freeze, Image adjustment: brightness and sharpness		
Power Supply	12 VDC/24 VAC	100 ~ 240 VAC	
Power Consumption	6W		
Operating Temperature	-10°C ~ 50°C		
Dimensions (mm)	124 (L) x 62 (W) x 57 (H)		
Weight	430 g	560 g	



Manual Iris Lenses NVL-358M, NVL-2810M,

NVL-515M, NVL-550M





Features

- Manual iris varifocal lenses
- Glass-made optics
- Additional Lens_Calc application available focal length estimation required for monitoring a specific scene

Model	NVL-358M	NVL-2810M	NVL-515M	NVL-550M
CCD Format Size	1/3"			
Focal Length	3.5 ~ 8 mm	2.8 ~ 10 mm	5 ~ 15 mm	5 ~ 50 mm
Iris Operation	Manual			
Relative Aperture	F=1.4-C	F=1.4-C	F=1.4-C	F=1.4-C
Mount Type	CS			
Angle of View (H)	80° ~ 34°	82.5° ~ 28°	52.5° ~ 19°	52.5° ~ 5.6°



Auto Iris Lenses NVL-358D, NVL-2810D, NVL-550D





Features

- Auto iris varifocal lenses
- Glass-made optics
- Additional Lens_Calc application available focal length estimation required for monitoring a specific scene

Model	NVL-358D	NVL-2810D	NVL-550D	
CCD Format Size	1/3"			
Focal Length	3.5 ~ 8 mm	2.8 ~ 10 mm	5 ~ 50 mm	
Iris Operation	Auto (D)			
Relative Aperture	Aperture F=1.4-360		F=1.4-360	
Mount Type	CS			
Angle of View (H)	80° ~ 34°	82.5° ~ 28°	52.5° ~ 5.6°	



IR Series Auto Iris Lenses

NVL-298D/IR, NVL-308D/IR, NVL-358D/IR, NVL-416D/IR, NVL-550D/IR





Features

- Auto iris varifocal lenses
- IR range designed lenses
- Dedicated particularly for Day/Night cameras
- Lenses levelling the chromatic aberration
- Glass-made optics
- In the NVL-298D/IR, aspherical lenses are fabricated from a special ED glass characterised by very low light dispersion
- Additional Lens_Calc application available focal length estimation required for monitoring a specific scene

Model	NVL-298D/IR	NVL-308D/IR	NVL-358D/IR	NVL-416D/IR	NVL-550D/IR
CCD Format Size	1/3"				
Focal Length	2.9 ~ 8 mm	3 ~ 8 mm	3.5 ~ 8 mm	4 ~ 16 mm	5 ~ 50 mm
Iris Operation	Auto (D)				
Relative Aperture	F = 1.0-360	F=1.0-360	F=1.4-360	F=1.4-360	F=1.4-360
Mount Type	CS				
Angle of View (H)	92.4° ~ 35.6°	82° ~ 35°	80° ~ 35°	65° ~ 18°	52.7° ~ 5.7°



IR Series Auto Iris Lenses

NVL-2812D/IR, NVL-3085D/IR, NVL-7550D/IR









Features

- Auto iris varifocal lenses
- Super bright (NVL-3085D/IR), IR range designed lenses
- Dedicated particularly for Day/Night cameras
- Lenses levelling the chromatic and spherical aberration
- Aspherical lenses fabricated from a special ED glass characterised by very low light dispersion
- Additional Lens_Calc application available focal length estimation required for monitoring a specific scene

Model	NVL-2812D/IR	NVL-3085D/IR	NVL-7550D/IR			
CCD Format Size	1/3"					
Focal Length	2.8 ~ 12 mm 3 ~ 8.5 mm		7.5 ~ 50 mm			
Iris Operation	Auto (D)					
Relative Aperture	F=1.2-360	F=1.0-360	F=1.3-360			
Mount Type	CS					
Angle of View (H)	98.5° ~ 23.8°	90.5° ~ 33.6°	36.6° ~ 5.64°			



Color & Day/Night Cameras with Motor-zoom Lens

NVC-HC370HZL-2, NVC-HDN370HZL-2 All-In-One





























- Cameras with a built-in motor-zoom lens, color and Day/Night, with housing and bracket for wall/in-ceiling mount (All-In-One)
- Mechanical IR cut filter (NVC-HDN370HZL-2)
- IR operation capability (NVC-HDN370HZL-2)
- Horizontal resolution: up to 570 TVL
- Min. Illumination: from 0.001 lx/F=1.6 (DSS)
- Motor-zoom lens, Al and AF function: $f=3.8 \sim 85.8$ mm and $f=3.9 \sim 85.8$ mm
- Wide Dynamic Range (WDR) for enhanced image quality in diverse light conditions
- Digital Slow Shutter (DSS)
- Total zoom: 242x (Optical: 22x/Digital: 11x)
- Various picture effects
- Full configuration (user friendly OSD):
- from the NV-KBD60 & NV-KBD40 keyboards
- from the PC through an additional dedicated CamConfigurator application
- from NOVUS® video capture cards
- directly from the front panel of NOVUS® 5000 Series DVRs
- Zoom control directly from the front panel of NOVUS® DVRs, NOVUS® video capture cards, NV-KBD60 & NV-KBD40 keyboards and CamConfigurator application
- Remote control: RS-485 or NV-RC370 wire controller
- Protocols: Novus-C1, Pelco-P, Pelco-D
- Built-in heater and sunshield
- IP 66
- Power supply: 12 VDC/24 VAC



Model	NVC-HC370HZL-2	NVC-HDN370HZL-2			
Pick-up Element	1/4" SONY Super	HAD CCD imager			
Horizontal Resolution	480 TVL	480 TVL - color mode, 570 TVL - B/W mode			
Min. Illumination	0.3 lx/F=1.6 - color mode (1/50 s), 0.005 lx/F=1.6 - color mode, DSS (1.2 s)	0.2 lx/F=1.6 - color mode (1/50 s), 0.05 lx/F=1.6 - B/W mode (1/50 s), 0.001 lx/F=1.6 - B/W mode, DSS (1.2 s)			
S/N Ratio	More than 52	dB (AGC Off)			
Electronic Shutter	Auto (AES): 1/50 s ~	· 1/10 000 s/Manual			
Digital Slow Shutter (DSS)	1/25 s	~ 1.2 s			
Auto Gain Control (AGC)	On	/Off			
Wide Dynamic Range (WDR)	On	/Off			
Digital Image Stabilizer (DIS)	On	/Off			
White Balance	5 modes: AWB/Indoor/Outdoor/Manual/WAWB				
Back Light Compensation (BLC)	Default/Top/Bottom/Level/Off				
Synchronization	Internal	Internal/Line-lock with phase adjustment			
Day/Night Switching	N/A	Auto/Manual/External			
Lens Type	Motor-zoom lens, Al and AF function: $f=3.9 \sim 85.8 \text{ mm} (F1.6 \sim F32)$	Motor-zoom lens, Al and AF function: $f=3.8 \sim 85.8 \text{ mm}$ (F1.6 \sim F32)			
Angle of View (H)	50° ~ 2.4°				
Zoom	Optical 22x	, Digital 11x			
Set-up	On Screen D	Display (OSD)			
Video Output	1.0 V _{p-p} /75 (Ohm (BNC)			
Remote Control	RS-485 or NV-RC3	70 wire controller			
Protocol	Novus-C1, Pe	lco-P, Pelco-D			
Other Functions	Digital Noise Re Various picture effects: Nega Image adjustment: brig	/Posi, B/W, Mirror, PIP, Freeze,			
Housing	Aluminium body with plastic sunshield an for indoor/outdoor, v				
Degree of Protection	IP	66			
Power Supply	12 VDC,	/24 VAC			
Power Consumption	8 W	9W			
Operating Temperature	-10℃	~ 50°C			
Dimensions (mm)	308 (L) x 120	(W) x 158 (H)			
Weight	880 g	900 g			















Color Cameras with Motor-zoom LensNVC-HC520ZL





















- Compact camera with a built-in motor-zoom lens
- Horizontal resolution: 480 TVL
- Min. Illumination: from 0.005 lx/F=1.6 (DSS)
- Motor-zoom lens, Al and AF function: $f=3.9 \sim 85.8 \text{ mm}$
- Wide Dynamic Range (WDR) for enhanced image quality in diverse light conditions
- Digital Ślow Shutter (DSS)
- Total zoom: 242x (Optical: 22x/Digital: 11x)
- Various picture effects
- Full configuration (user friendly OSD):
- directly from the camera
- from the NV-KBD60 & NV-KBD40 keyboards
- from the PC through an additional dedicated CamConfigurator application
- from NOVUS® video capture cards
- directly from the front panel of NOVUS® 5000 Series DVRs
- Zoom control directly from the front panel of NOVUS® DVRs, NOVUS® video capture cards, NV-KBD60 & NV-KBD40 keyboards and CamConfigurator application
- Remote control: RS-485
- Protocols: Novus-C1, Pelco-P, Pelco-D
- Power supply: 12 VDC



Model	NVC-HC520ZL	
Pick-up Element	1/4" SONY Super HAD color CCD imager	
Horizontal Resolution	480 TVL	
Min. Illumination	0.3 lx/F=1.6 (1/50 s), 0.005 lx/F=1.6 (1.2 s) - Digital Slow Shutter (DSS)	
S/N Ratio	More than 52 dB (AGC Off)	
Electronic Shutter	Auto (AES): 1/50 s ~ 1/10 000 s/Manual	
Digital Slow Shutter (DSS)	1/25 s ~ 1.2 s	
Auto Gain Control (AGC)	On/Off	
Wide Dynamic Range (WDR) On/Off		
Digital Image Stabilizer (DIS)	On/Off	
White Balance	5 modes: AWB/Indoor/Outdoor/Manual/WAWB	
Back Light Compensation (BLC)	Default/Top/Bottom/Level/Off	
Synchronization	Internal	
Lens Type	Motor-zoom lens, Al and AF function: f=3.9 \sim 85.8 mm (F1.6 \sim F32)	
Angle of View (H)	50° ~ 2.4°	
Zoom	Optical 22x, Digital 11x	
Set-up	On Screen Display (OSD)	
Video Output	1.0 V _{p-p} /75 Ohm (BNC)	
Remote Control	RS-485	
Protocol	Novus-C1, Pelco-P, Pelco-D	
Other Functions	Digital Noise Reduction (DNR), Various picture effects: Nega/Posi, B/W, Mirror, PIP, Freeze, Image adjustment: brightness and sharpness	
Power Supply	12 VDC	
Power Consumption	4.3 W	
Operating Temperature	-10°C ~ 40°C	
Dimensions (mm)	106 (L) x 62 (W) x 62 (H)	
Weight	335 g	











CAMA-mini Series Speed Dome Cameras NVC-MSD10C



























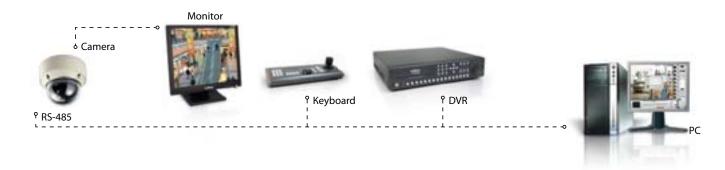




- Integrated mini speed dome camera in a vandal proof housing
- Horizontal resolution: 480 TVL
- Min. Illumination: 0.3 lx/F=1.8
- Motor-zoom lens, Al and AF function: $f=3.15 \sim 31.5 \text{ mm}$
- 4 tours
- 4 auto-scan functions
- 60 preset commands
- Total zoom: 100x (Optical: 10x/Digital: 10x)
- 1 sensor input (NO/NC)
- "Auto-Flip" function
- Mirror image function
- Full configuration (user friendly OSD):
- from the NV-KBD60 & NV-KBD40 keyboards
- from the PC through an additional dedicated CamConfigurator application
- from NOVUS® video capture cards
- directly from the front panel of NOVUS® 5000 Series DVRs
- Zoom control directly from the front panel of NOVUS® DVRs, NOVUS® video capture cards, NV-KBD60 & NV-KBD40 keyboards and CamConfigurator application
- Remote control: RS-422/RS-485
- Protocols: Novus-C1, Pelco-D
- IP 66
- Vandal proof housing
- Installation:
- directly on the surface,
- wall mount using NVB-CM10W bracket,
- in-ceiling mount using NVB-CM10C bracket
- Power supply: 12 VDC/24 VAC



Model	NVC-MSD10C
Pick-up Element	1/4" SONY Super HAD color CCD imager
Horizontal Resolution	480 TVL
Min. Illumination	0.3 lx/F=1.8
S/N Ratio	More than 48 dB (AGC Off)
Electronic Shutter	Auto (AES): 1/50 s ~ 1/10 000 s/Manual
Auto Gain Control (AGC)	On/Off
White Balance	4 modes: Auto/Indoor/Outdoor/Manual
Back Light Compensation (BLC)	On/Off
Synchronization	Internal/Line-lock with phase adjustment (auto switching)
Lens Type	Motor-zoom lens, Al and AF function: $f=3.15 \sim 31.5$ mm (F1.8 \sim F32)
Angle of View (H)	61° ~ 6.5°
Zoom	Optical 10x, Digital 10x
Video Output	1.0 V _{p-p} /75 Ohm (BNC)
Alarm Input	1 sensor input programmable (NO/NC, Off)
Remote Control	RS-422/RS-485
Protocol	Novus-C1, Pelco-D
Set-up	On Screen Display (OSD)
Preset Commands	60 positions
Tours	4 tours (max. 16 presets each)
Auto-Scans	4 auto-scan patterns
Tilt Range	0° ~ 90°
Pan Range	0° ~ 359°
Pan/Tilt Speed	Max. 120°/s
Scanning Speed	Max. 7°/s
Other Functions	"Auto-Flip" function, Flickerless function, Mirror image function, Image adjustment: brightness and sharpness
Enclosure	Weather & vandal proof, die-cast aluminium camera enclosure
Degree of Protection	IP 66
Power Supply	12 VDC/24 VAC
Power Consumption	10 W
Operating Temperature	-10°C ~ 50°C
Dimensions (mm)	145 (Ø) x 117.2 (H)
Weight	1.3 kg





CAMA-I Series Speed Dome Cameras NVC-SD22C, NVC-SD18DNA,

NVC-SD22DN, NVC-SD26DN

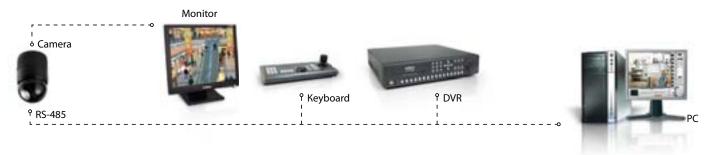






- Mechanical IR cut filter
- IR operation capability
- Horizontal resolution: up to 570 TVL
- Min. Illumination: from 0.0003 lx/F=1.4 (DSS)
- Motor-zoom lens, Al and AF function
- Wide Dinamic Range (WDR) for enhanced image quality in diverse light conditions
- 8 auto-scan functions
- 8 tours
- 4 patterns
- 240 preset commands
- 8 dynamic privacy zones
- Optical zoom: up to 26x and digital zoom: up to 12x
- •8 sensor inputs and 4 relay outputs (NO/NC) 8 priority levels, activation of patterns, tours, presets and auto-scans

- "Auto-Flip" function allows the tilt to rotate 180° and reposition itself for continuous viewing of a moving object directly beneath the dome
- Full configuration (user friendly multi-lingual OSD):
- from the NV-KBD60 & NV-KBD40 keyboards
- from the PC through CamConfigurator an additional dedicated application
- from NOVUS® video capture cards
- directly from the front panel of NOVUS® 5000 Series DVRs
- PTZ control directly from NOVUS® DVRs, NOVUS® video capture cards, NV-KBD60 & NV-KBD40 keyboards and CamConfigurator application
- Remote control: RS-422/RS-485
- Protocols: Novus-C, Novus-C1, Pelco-P, Pelco-D
- Installation: directly on the surface without an additional housing, suspended ceiling mount using NVH-SDHKIT adapter, wall/ in-ceiling mount using NVH-SD10I & NVH-SD40EH-C housings
- Acrylic bubble included
- Power supply: 24 VAC





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Specifications								
Model	NVC-SD22C	NVC-SD18DNA	NVC-SD22DN	NVC-SD26DN				
Pick-up Element	1/4" SONY Super HAD CCD	1/4" SONY ExView HAD CCD	1/4" SONY Super HAD CCD	1/4" SONY ExView HAD CCD				
Horizontal Resolution	480 TVL - color mode	480 T	VL - color mode, 570 TVL - B/W r	mode				
Min. Illumination	0.6 lx/F=1.6 (1/50 s) - color mode 0.008 lx/F=1.6 (1 s) - color mode, DSS	0.7 lx/F=1.4 (1/50 s) - color mode 0.05 lx/F=1.4 (1/3 s) - color mode, DSS 0.008 lx/F=1.4 (1/3 s) - B/W mode, DSS 0.0003 lx/F=1.4 (1 s) - B/W mode, DSS	0.8 lx/F=1.6 (1/50 s) - color mode 0.06 lx/F=1.6 (1/3 s) - color mode, DSS 0.009 lx/F=1.6 (1/3 s) - B/W mode, DSS 0.0008 lx/F=1.6 (1 s) - B/W mode, DSS	0.8 lx/F=1.6 (1/50 s) - color mode 0.06 lx/F=1.6 (1/3 s) - color mode, DSS 0.01 lx/F=1.6 (1/3 s) - B/W mode, DSS 0.0009 lx/F=1.6 (1 s) - B/W mode, DSS				
S/N Ratio		More than 50	dB (AGC Off)					
Electronic Shutter		Auto (AES): 1 s ~ 1/10 000 s/Manual						
Digital Slow Shutter (DSS)		1/25 s ~ 1 s						
Auto Gain Control (AGC)		С	n					
Wide Dynamic Range (WDR)	Yes	N/A	Yes	N/A				
White Balance	6 ma	odes	5 modes	6 modes				
Back Light Compensation (BLC)		On/Off						
Synchronization	Internal/Line-lock with phase adjustment							
Day/Night Switching	N/A Auto/Manual							
Lens Type	Motor-zoom lens, Al and AF function: f=3.8 ~ 83.6 mm (F1.6 ~ F32)	Motor-zoom lens, Al and AF function: $f=4.1 \sim 73.8$ mm (F1.4 \sim F32)	Motor-zoom lens, Al and AF function: $f=3.9 \sim 85.8$ mm (F1.6 \sim F32)	Motor-zoom lens, Al and AF function: f=3.5 ~ 91 mm (F1.6 ~ F32)				
Angle of View (H)	50° ~ 2.6°	48° ~ 2.7°	49.5° ~ 2.4°	54.2° ~ 2.2°				
Zoom	Optical 22x, Digital 11x	Optical 18x, Digital 12x	Optical 22x, Digital 11x	Optical 26x, Digital 12x				
Video Output		1.0 V _{p-p} /75 (Ohm (BNC)					
Alarm Input		8 sensor inp	uts (NO/NC)					
Alarm Output		4 relay outputs						
Remote Control		Standard RS						
Protocol		Novus-C, Novus-C						
Set-up	Multi-lingual On :	1 / 1 3 1	olish, German, French, Spanish, P	ortuguese, Italian				
Preset Commands		240 pc						
Tours	8 tours (max.	· · · · · · · · · · · · · · · · · · ·	s, auto-scans and other tours pro	ogrammable)				
Auto-Scans	8 auto-scan patterns (including spiral scan)							
Patterns		4 patterns (8 dynamic privacy zones (i						
Privacy Zones Tilt Range	10	, , , ,	user defined switching on) nenu within the range of -10° ~	10%				
	-10			10)				
Pan Range Pan/Tilt Speed		360° (cor	Novus-C protocol)					
Preset Speed		0.1 /S ~ 380 /S (III) Max. 3	·					
Power Supply		24\						
Power Consumption			W					
Operating Temperature			- 50°C					
Dimensions (mm)			x 180 (H)					
Weight		1.2						
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Video Capture Cards with Software Compression

(A Series) NVB-025/4A, NVB-050/4A, NVB-050/8A, NVB-100/8A, NVB-050/16A



An exemplary system configuration can be found on page 92































- QUADRUPLEX: simultaneous recording, monitoring, playback (2 x VGA) and networking
- Software compression: MPEG-4
- Video input: up to 16
- Audio input: up to 4 (with 2 sound cards)
- Up to 16 sensor inputs & 4 sensor outputs
- Composite Output: 1 x RCA (full-screen sequence, events)
- Recording resolution:
- 704 (H) x 576 (V)
- 352 (H) x 288 (V)
- Double-screen operation capability (2 x VGA)
- Remote control:
- NOVUS® PTZ cameras
- NOVUS® cameras equipped with RS-485 interface
- Protocols: Novus-C, Novus-C1, Novus-C2, Pelco-P, Pelco-D and others
- Advanced schedule recording & motion detection functions
- · Watermark image protection (JPEG)
- Recording modes: Normal, Sensor, Motion detection, Sensor & Motion, Normal & Event
- Playback display: common, panorama and icon views
- Network support: LAN, WAN, xDSL
- Remote connection through DVR_Net, PDA_Net and Internet Explorer
- External devices support: POS, ATM, AC
- CPU load: approx. 90%
- In set included: PTZ converter, alarm input/output interface
- Software: DVR_Main server application, DVR_Net application for remote connections, PDA_Net application for remote connection from PDA devices, DVR_Utilities tools for playing back the video material recorded with DVR_Main application on another PC, **DVR** Calc for recording time estimation.



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Model	NVB-025/4A	NVB-050/4A	NVB-050/8A	NVB-100/8A	NVB-050/16A			
Video Input	4 x BNC	4 x BNC	8 x BNC	8 x BNC	16 x BNC			
Audio Input		1, 2	or 4 (4 with 2 sound car	ds)				
Alarm Input	4 (NO/NC)	4 (NO/NC)	8 (NO/NC)	8 (NO/NC)	16 (NO/NC)			
Alarm Output			4 relay outputs					
Composite Output		1 x RC/	۱ (full-screen sequence, ه	events)				
PCI Board Quantity			1					
Recording Resolution			704 (H) x 576 (V) 352 (H) x 288 (V)					
Compression		MPE	G-4 (software compress	ion)				
Display Speed	25 fps	50 fps	50 fps	100 fps	50 fps			
Recording Speed (352 x288)	25 fps	50 fps	50 fps	100 fps	50 fps			
Display Screen	1, 4	1, 4	1, 4, 6, 9	1, 4, 6, 9	1, 4, 6, 9, 10, 16			
Playback Screen	1, 4	1, 4	1, 4, 9	1, 4, 9	1, 4, 9, 16			
Recording Mode		Normal, Sensor, Motic	n detection, Sensor & M	otion, Normal & Event				
Notification Function		Sound, Alarm, Relay, E-mail, Phone, Preset						
Backup Drives		HDD, CD-RW, DVD-RW, network drives						
Video Saving Files		AVI, MP4 or MP4+EXE (MP4 with player included)						
Frame Saving Files			JPEG					
Backup			Auto/Manual					
Network Support			LAN, WAN, xDSL					
Software		DVR_Net,	PDA_Net (PDA devices),	DVR_Calc				
PTZ Camera Control		RS-232/RS-422/RS-4	185 (from DVR_Main, DV	R_Net, PDA_Net, IE)				
Protocol		Novus-C, Novus-	C1, Novus-C2, Pelco-P, Pe	elco-D and others				
Image Security			Watermark - JPEG files					
User Authorization		3-level pas	sword protection (up to	100 users)				
Auto System Recovery		Har	dware WATCHDOG funct	tion				
External Devices		PO	S, ATM, AC (Access Conti	rol)				
	PC	SPECIFICATIONS	RECOMMENDED					
CPU		Intel f	Pentium IV 2.4 GHz and h	nigher				
Mother Board			te based on Intel i845, i8 ISG and i865G are not ac					
RAM			512 MB					
VGA		AT	TRadeon 9000 and high	er				
Operating System		,	Windows 2000/XP/VISTA					



Video Capture Cards with Software Compression

(B Series)

NVB-100/16B, NVB-100/16BLV, NVB-200/16B, NVB-200/16BLV, NVB-200/32B, NVB-400/32B



An exemplary system configuration can be found on page 92



- QUADRUPLEX: simultaneous recording, monitoring, playback (2 x VGA) and networking
- · Software compression: MPEG-4
- Video input: up to 32
- Audio input: up to 4 (with 2 sound cards)
- Up to 16 sensor inputs & 4 sensor outputs
- Composite Output: 1 x RCA (full-screen sequence, quad sequence, PC screen, events)
- Recording resolution:
- 704 (H) x 576 (V)
- 704 (H) x 288 (V)
- 352 (H) x 288 (V)
- Real-time display (BLV models)
- Double-screen operation capability (2 x VGA)
- Remote control:
- NOVUS® PTZ cameras
- NOVUS® cameras equipped with RS-485 interface
- Protocols: Novus-C, Novus-C1, Novus-C2, Pelco-P, Pelco-D and others
- Advanced schedule recording & motion detection functions
- Watermark image protection (JPEG)
- Recording modes: Normal, Sensor, Motion detection, Sensor & Motion, Normal & Event
- Playback display: common, panorama and icon views
- Network support: LAN, WAN, xDSL
- Remote connection through DVR_Net, PDA_Net and Internet Explorer
- External devices support: POS, ATM, AC
- CPU load: approx. 40% 16 channel video capture cards, approx. 90% 32 channel video capture cards,
- In set included: PTZ converter, alarm input/output interface
- Software: DVR_Main server application, DVR_Net application for remote connections, PDA_Net application for remote connection from PDA devices, DVR_Utilities tools for playing back the video material recorded with DVR_Main application on another PC, DVR_Calc for recording time estimation.



Specifications									
Model	NVB-100/16B	NVB-100/16BLV	NVB-200/16B	NVB-200/16BLV	NVB-200/32B	NVB-400/32B			
Video Input	16 x BNC	16 x BNC	16 x BNC	16 x BNC	32 x BNC	32 x BNC			
Audio Input		1, 2 or 4 (4 with 2 sound cards)							
Alarm Input		16 (NO/NC)							
Alarm Output		4 relay outputs							
Composite Output		1 x RCA (fu	ıll-screen sequence,	quad sequence, PC so	creen, events)				
PCI Board Quantity			1		Ź)			
Recording Resolution			704 (H) x 576 (V)) x 288 (V)) x 288 (V)					
Compression			MPEG-4 (softw	are compression)					
Display Speed	100 fps	400 fps (real-time)	200 fps	400 fps (real-time)	200 fps	400 fps			
Recording Speed (352 x 288)	100 fps	100 fps	200 fps	200 fps	200 fps	400 fps			
Display Screen		1, 4, 6,	9, 10, 16		1, 4, 6, 9), 16, 33			
Playback Screen		1, 4, 9, 16							
Recording Mode	Normal, Sensor, Motion detection, Sensor & Motion, Normal & Event								
Notification Function		Sound, Alarm, Relay, E-mail, Phone, Preset							
Backup Drives		HDD, CD-RW, DVD-RW, network drives							
Video Saving Files		AVI, MP4 or MP4+EXE (MP4 with player included)							
Frame Saving Files		JPEG							
Backup			Auto	/Manual					
Network Support			LAN, V	VAN, xDSL					
Software		DVR_Net, PDA_Net (PDA devices), DVR_Calc							
PTZ Camera Control		RS-232/RS-422/RS-485 (from DVR_Main, DVR_Net, PDA_Net, IE)							
Protocol		Novus-	C, Novus-C1, Novus-	C2, Pelco-P, Pelco-D a	and others				
Image Security			Waterma	rk - JPEG files					
User Authorization	3-level password protection (up to 100 users)								
Auto System Recovery		Hardware WATCHDOG function							
External Devices	POS, ATM, AC (Access Control)								
	PC SPECIFICATIONS RECOMMENDED								
CPU	Inte	l Pentium IV 2.4 GHz	and higher (or equiv	valent)	Intel Pentium IV 3.	0 GHz and higher			
Mother Board	Intel, ASUS, GigaByte based on Intel i845, i865 or i9xx chipsets (NOTE: i845G and i865G are not acceptable!) Intel, ASUS, GigaByte only, based on Intel i9xx chipset/S-AT/								
RAM		51	2 MB		1 (GB			
VGA		ATI Radeon 9	000 and higher		ATI Radeon X3	00 and higher			
Operating System			Windows 2	2000/XP/VISTA					



Video Capture Cards with Hardware Compression

(MPG Series) NVB-100/4MPG, NVB-200/8MPG, NVB-400/16MPG



An exemplary system configuration can be found on page 92





- QUADRUPLEX: simultaneous recording, live monitoring, playback (2 x VGA) and networking
- Hardware compression: MPEG-4
- Video input: up to 16 x BNC
- Audio input: up to 16 x Jack
- Up to 16 sensor inputs and 8 sensor outputs
- Composite Output: 1 x RCA (full-screen sequence)
- Recording resolution:
- 704 (H) x 576 (V)
- -704 (H) x 288 (V)
- 352 (H) x 288 (V)
- Real-time display
- Double-screen operation capability (2 x VGA)
- Remote control:
- NOVUS® PTZ cameras
- NOVUS® cameras equipped with RS-485 interface
- Protocols: Novus-C, Novus-C1, Novus-C2, Pelco-P, Pelco-D and others
- Advanced schedule recording & motion detection functions
- Watermark image protection (JPEG)
- Recording modes: Normal, Sensor, Motion detection, Sensor & Motion, Normal & Event
- Playback display: common, panorama and icon views
- Network support: LAN, WAN, xDSL
- Remote connection through DVR_Net, PDA_Net and Internet Explorer
- External devices support: POS, ATM, AC
- Low CPU load: approx. 10%
- In set included: PTZ converter, alarm input/output interface
- Software: DVR_Main server application, DVR_Net application for remote connections, PDA_Net application for remote connection from PDA devices, DVR_Utilities tools for playing back the video material recorded with DVR_Main application on another PC, DVR Calc for recording time estimation.



Model	NVB-100/4MPG	NVB-200/8MPG	NVB-400/16MPG				
Video Input	4 x BNC	8 x BNC	16 x BNC				
Audio Input	4 x Jack	8 x Jack	16 x Jack				
Alarm Input	4 (NO/NC)	8 (NO/NC)	16 (NO/NC)				
Alarm Output	4 relay outputs	4 relay outputs	8 relay outputs				
Composite Output		1 x RCA (full-screen sequence, events)					
PCI Board Quantity			2				
Recording Resolution		704 (H) x 576 (V) 704 (H) x 288 (V) 352 (H) x 288 (V)					
Compression		MPEG-4 (hardware compression)					
Display Speed	100 fps (real-time)	400 fps (real-time)					
Recording Speed (352 x 288)	100 fps	200 fps	400 fps				
Display Screen	1,4	1, 4, 6, 9	1, 4, 6, 9, 16				
Playback Screen	1,4	1, 4, 9	1, 4, 9, 16				
Recording Mode	Normal, Sensor, Motion detection, Sensor & Motion, Normal & Event						
Notification Function	Sound, Alarm, Relay, E-mail, Phone, Preset						
Backup Drives	HDD, CD-RW, DVD-RW, network drives						
Video Saving Files	AVI, MP4 or MP4+EXE (MP4 with player included)						
Frame Saving Files		JPEG					
Backup		Auto/Manual					
Network Support		LAN, WAN, xDSL					
Software	D'	VR_Net, PDA_Net (PDA devices), DVR_C	alc				
PTZ Camera Control	RS-232/RS-4	RS-232/RS-422/RS-485 (from DVR_Main, DVR_Net, PDA_Net, IE)					
Protocol	Novus-C,	Novus-C1, Novus-C2, Pelco-P, Pelco-D a	nd others				
Image Security		Watermark - JPEG files					
User Authorization	3-level password protection (up to 100 users)						
Auto System Recovery		Hardware WATCHDOG function					
External Devices		POS, ATM, AC (Access Control)					
	PC SPECIFICATI	ONS RECOMMENDED					
СРИ		Intel Pentium IV 2.4 GHz and higher					
Mother Board		s, GigaByte based on Intel i845, i865 or i9 NOTE: i845G and i865G are not acceptab					
RAM		512 MB					
VGA		ATI Radeon 9000 and higher					
Operating System		Windows 2000/XP/VISTA					



Video Capture Cards with Hardware Compression

(AMPG Series) NVB-400/16AMPG, NVB-800/32AMPG



An exemplary system configuration can be found on page 92



- QUADRUPLEX: simultaneous recording, live monitoring, playback (2 x VGA) and networking
- Hardware compression: MPEG-4
- Video input: up to 32 x BNC
- Audio input: up to 32 x Jack
- Up to 32 sensor inputs and 8 sensor outputs
- Composite Output: 1 x RCA (PC split screen)
- Recording resolution:
- -704 (H) x 576 (V)
- 704 (H) x 288 (V)
- 352 (H) x 288 (V)
- Real-time display
- Double-screen operation capability (2 x VGA)
- Remote control:
- NOVUS® PTZ cameras
- NOVUS® cameras equipped with RS-485 interface
- Protocols: Novus-C, Novus-C1, Novus-C2, Pelco-P, Pelco-D and others
- Advanced schedule recording & motion detection functions
- Watermark image protection (JPEG)
- Recording modes: Normal, Sensor, Motion detection, Sensor & Motion, Normal & Event
- Playback display: common, panorama and icon views
- Network support: LAN, WAN, xDSL
- Remote connection through DVR_Net, PDA_Net and Internet Explorer
- External devices support: POS, ATM, AC
- Low CPU load: approx. 10%
- In set included: PTZ converter, alarm input/output interface
- Software: DVR_Main server application, DVR_Net application for remote connections, PDA_Net application for remote connection from PDA devices, DVR_Utilities tools for playing back the video material recorded with DVR_Main application on another PC, DVR_Calc for recording time estimation.



Model	NVB-400/16AMPG	NVB-800/32AMPG			
Video Input	16 x BNC	32 x BNC			
Audio Input	16 x Jack	32 x Jack			
Alarm Input	16 (NO/NC)	32 (NO/NC)			
Alarm Output	4 relay outputs	8 relay outputs			
Composite Output	1 x RCA (PC	C split screen)			
PCI Board Quantity	1	2			
Recording Resolution	704 (H)	x 576 (V) x 288 (V) x 288 (V)			
Compression	MPEG-4 (hardw	vare compression)			
Display Speed	400 fps (real-time)	800 fps (real-time)			
Recording Speed (352 x 288)	400 fps 800 fps				
Display Screen	1, 4, 6, 9, 16	1, 4, 6, 9, 16, 33			
Playback Screen	1, 4, 9, 16	1, 4, 9, 16			
Recording Mode	Normal, Sensor, Motion detection, Sensor & Motion, Normal & Event				
Notification Function	Sound, Alarm, Relay, E-mail, Phone, Preset				
Backup Drives	HDD, CD-RW, DVD-RW, network drives				
Video Saving Files	AVI, MP4 or MP4+EXE (N	MP4 with player included)			
Frame Saving Files	JF	PEG			
Backup	Auto/	'Manual			
Network Support	LAN, W.	'AN, xDSL			
Software	DVR_Net, PDA_Net (F	PDA devices), DVR_Calc			
PTZ Camera Control	RS-232/RS-422/RS-485 (from D	VR_Main, DVR_Net, PDA_Net, IE)			
Protocol		C2, Pelco-P, Pelco-D and others			
Image Security	Watermark	k - JPEG files			
User Authorization	3-level password prot	ection (up to 100 users)			
Auto System Recovery	Hardware WAT	CHDOG function			
External Devices		(Access Control)			
	PC SPECIFICATIONS RECOMME	NDED			
CPU	Intel Pentium IV 2.4 GHz and higher	Intel Core Duo and higher			
Mother Board	ASUS, Intel, GigaByte based on Intel i865 or i9xx chipsets	ASUS, Intel, GigaByte based on Intel i9xx chipset/S-ATA HDD			
RAM	512 MB	1 GB			
VGA	ATI Radeon X	(300 and higher			
Operating System	Windows 2	Windows 2000/XP/VISTA			

NOUS® Professional solution for your CCTV systems



NOUS® Professional solution for your CCTV systems

















- SIMPLEX
- Operating system based on Linux
- Real-time display
- Recording speed: up to 25 fps
- M-JPEG compression
- Recording resolution:
- 640 x 272
- Supports 1 HDD (NV-DVR1004 LITE) and up to 2 HDDs including 1 to be installed in the swappable drive (NV-DVR1004, NV-DVR1004NET)
- PTZ control directly from the device (NV-DVR1004, NV-DVR1004NET) and through the network (NV-DVR1004NET)
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface (NV-DVR1004, NV-DVR1004NET)
- Protocols: Novus-C, Novus-C1, Novus-C2, Pelco-D (NV-DVR1004, NV-DVR1004NET)
- Networking through IE browser (NV-DVR1004NET)
- Backup function through the network (NV-DVR1004NET)
- Software: PC Viewer for reviewing and copying parts of recorded data from HDD, DVR_Calc for recording time estimation at given parameters
- User friendly OSD
- Power supply: 12 VDC (NV-DVR1004 LITE, 100 ~ 240 VAC/12 VDC PSU in-set included), 100 ~ 240 VAC (NV-DVR1004, NV-DVR1004NET)



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Model	NV-DVR1004 LITE	NV-DVR1004	NV-DVR1004NET			
Operation Mode	SIMPLEX					
Operating System	Linux					
Video Input	4 x BNC 4 x BNC, loop-through					
Video Output	1 Main Monitor output (BNC)					
Alarm Input	N/A 4 sensor inputs (NO/NC programmable)					
Alarm Output	N/A	1 relay outp	out (NO/NC)			
Recording Speed	Up to 25 fps					
Compression		M-JPEG				
Recording Resolution		640 x 272				
Recording Mode	Time-lapse, Motion detection	Time-lapse, Event (Alarm	and/or Motion detection)			
Display Speed		100 fps (real-time)				
Display Screen		Full screen, 4				
Motion Detection	1 grid with sensitivity adjustment (5 levels)	2 grids with active areas si	ize & sensitivity adjustment			
Video Loss Detection		Yes				
Schedule Recording	Mode (Time-lapse/Motion detection/ Off) & recording speed selection in different times of the day (timed to 1 h)	Mode (Time-lapse/Event/Off) & recording speed selection in different times of the day (timed to 1 h)				
Recorded Data Search	By date/time or events					
Event History Log	Up to 64 alarm events for each HDD					
Storage	Supports 1 HDD (max. 500 GB) Supports up to 2 HDDs (max. 500 GB each), 1 to be installed in the swappable drive					
Backup	USB PC-LINK using the PC Viewer software	PC - directly from HDD using the PC Viewer software PC - directly from HDD using the PC Viewer software, network				
External ports	N/A	1 x RS-485 for PTZ cameras	1 x Ethernet - RJ-45 1 x RS-485 for PTZ cameras			
PTZ Functions	N/A	PTZ cameras control directly from the device using front panel buttons	PTZ cameras control directly from the device using front panel buttons or through the network (IE)			
Protocol	N/A	Novus-C, Novus-C1	, Novus-C2, Pelco-D			
Set-up		Multi-lingual On Screen Display (OSD)				
Control	Front	panel	Front panel or through the network			
Software		DVR_Calc, PC Viewer				
User Authorization		Password protection				
Auto System Recovery		Hardware WATCHDOG function				
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)	100 ~ 240 VAC				
Power Consumption	Approx. 5 W without HDD, approx. 30 W with HDD	Approx. 16 W without HDD, approx. 40 W with 1 HDD, approx. 50 W with 2 HDDs				
Operating Temperature	0°C ~ 40°C					
Relative Humidity		0% ~ 80% (non-condensing)				
Dimensions (mm)	218 (W) x 44 (H) x 206 (D)	432 (W) x 55	5 (H) x 321 (D)			
Weight	1.3 kg	4 kg				



Digital Video RecordersNV-DVR404/CD



An exemplary system configuration can be found on page 95

















- TRIPLEX: simultaneous recording, playback and networking
- Operating system based on Linux
- Recording speed: up to 100 fps
- M-JPEG compression (5 levels)
- Recording resolution:
- 720 x 288
- -360 x 288
- Supports 1 HDD
- Schedule recording individually adjustable for each day per camera, individual recording modes are also possible
- Motion detection function
- Immediate access to any fragment of the recorded material
- PTZ control directly from the device or through the network
- $\hbox{$\bullet$ Possibility of controlling NOVUS$^{\circ}$ cameras equipped with RS-485 interface}\\$
- Protocol: Novus-C1, Novus-C2, N-Control, Pelco-D
- Alarm recording function
- Archiving files on CD or through the network
- Built-in CD-RW drive
- Network function (live monitoring, playback and archiving)
- User friendly multi-lingual OSD
- User Authorization
- Power supply: 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)



Model	NV-DVR404/CD	
Operation Mode	TRIPLEX	
Operating System	Linux	
Video Input	4 x BNC	
Video Output	1 Main Monitor output (BNC and/or VGA), 1 Spot Monitor output (BNC)	
Alarm Input	4 sensor inputs	
Alarm Output	1 relay output	
Recording Speed	Up to 100 fps	
Compression	M-JPEG	
Recording Resolution	720 x 288, 360 x 288	
Recording Mode	Time-lapse, Event (Alarm, Motion detection, Alarm & Motion Detection)	
Display Speed	100 fps (real-time)	
Display Screen	Full screen, 4, PIP, sequence, freeze image function, digital zoom of a chosen screen area	
Motion Detection	192 detection windows (12x16 grid) with sensitivity defined individually	
Video loss detection	Yes	
Schedule Recording	Individually adjustable for each day per camera, combination of individual recording modes possibility	
Recorded Data Search	By date/time or events	
Event History Log	Up to 9990 alarm events	
Storage	Supports 1 HDD (max. 500 GB)	
Backup	CD, USB Flash Memory, Network	
CD-RW Drive	Built-in	
External Ports	1 x Ethernet - RJ-45 interface 2 x USB - for upgrading software and backup 1 x RS-485 for PTZ cameras	
PTZ Functions	PTZ cameras control directly from the device or via network (N-Viewer 400)	
Protocol	Novus-C1, Novus-C2, N-Control, Pelco-D	
Control	PS2 PC mouse, Network	
Set-up	Multi-lingual On Screen Display (OSD)	
Software	N-Viewer 400	
User Authorization	Password protection	
Auto System Recovery	Hardware WATCHDOG function	
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)	
Power Consumption	Approx. 48 W	
Operating Temperature	0°C ~ 40°C	
Relative Humidity	0% ~ 80% (non-condensing)	
Dimensions (mm)	355 (W) x 70 (H) x 340 (D)	
Weight	3.5 kg	



Digital Video Recorders NV-DVR1104/CD, NV-DVR1108/CD, NV-DVR1116/CD



An exemplary system configuration can be found on page 96



























- TRIPLEX: simultaneous recording, playback and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 100 fps
- M-JPEG compression (4 levels)
- Recording resolution:
- -720 x 288
- -360 x 288
- Supports up to 2 HDDs; 1 to be installed In the swappable drive
- Schedule recording individually adjustable for week days and weekends with the possibility of individual recording modes
- Motion detection function
- 1-channel real-time audio recording
- Immediate access to any fragment of the recorded material
- PTZ control directly from the device & IR remote control or through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: Novus-C, Novus-C1, Novus-C2, Pelco-D
- NV-KBD60 & NV-KBD30 keyboards compatible
- Alarm recording function
- Archiving files on CD, through the network or USB port
- Built-in CD-RW drive
- Network function (live monitoring, playback, archiving & alarm event e-mail notification, duplicating event files on to FTP server)
- User friendly multi-lingual OSD
- User Authorization
- Covert camera function
- IR remote control
- Power supply: 100 ~ 240 VAC



Model	NV-DVR1104/CD	NV-DVR1108/CD	NV-DVR1116/CD				
Operation Mode	TRIPLEX						
Operating System	Linux						
Video Input	4 x BNC, loop-through	8 x BNC, loop-through	16 x BNC, loop-through				
Video Output	1 Main Monitor output (BNC)		tput (BNC, S-Video) or output (BNC)				
Alarm Input	4	8	16				
Alarm Output	1 relay output						
Audio Input	1 x RCA						
Audio Output		1 x RCA					
Recording Speed	Up	o to 100 fps for 360 x 288, 50 fps for 720 x	288				
Compression		M-JPEG (4 levels)					
Recording Resolution		720 x 288, 360 x 288					
Recording Mode	Time	e-lapse, Event (Alarm and/or Motion dete	ction)				
Display Speed	100 fps (real-time)	200 fps (real-time)	400 fps (real-time)				
Display Screen	Full screen, 4	Full screen, 4, 8, sequence	Full screen, 4, 9, 13, 16, sequence				
Motion Detection	192 detection windows (12x16 grid) with sensitivity adjustment						
Video Loss Detection	Yes						
Schedule Recording	Individually adjustable for week days/weekends and day/night						
Recorded Data Search	By date/time or events						
Event History Log	Up to 2 000 alarm events						
Storage	Supports up to 2 HDDs (max. 500 GB each; 1 to be installed in the swappable drive)						
Backup	CD, USB Flash Memory, PC backup (NC Viewer), network backup						
CD-RW Drive	Built-in						
External Ports	1 x Ethernet - RJ-45 interface 1 x RS-485 for PTZ cameras 1 x USB for external drives 1 x RS-485 for NV-KBD60 & NV-KBD30 keyboards						
PTZ Control	Directly from the device or through the network (IE)						
Protocol	Novus-C, Novus-C1, Novus-C2, Pelco-D						
Control	Front panel, IR re	emote control, Network, NV-KBD60 & NV-	KBD30 keyboards				
Set-up	Multi-lingual On Screen Display (OSD)						
Software		NC Viewer					
User Authorization	Password protection						
Auto System Recovery	Hardware WATCHDOG function						
Power Supply		100 ~ 240 VAC					
Power Consumption	Approx. 16 W without HDD and 65 W with 2 HDDs						
Operating Temperature		0°C ~ 40°C					
Relative Humidity		0% ~ 80% (non-condensing)					
Dimensions (mm)	432 (W) x 88 (H) x 427 (D)						
Weight	7 kg						

^{*} VGA modules for all DVR models available (page 91)









- QUADRUPLEX: simultaneous recording, monitoring, playback and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 100 fps
- MPEG-4 compression (5 levels)
- Recording resolution:
- 720 x 288
- 360 x 288
- · Recording speed and resolution defined individually for each camera and each recording mode
- Supports up to 4 HDDs; 1 to be installed in the swappable drive
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- 4-channel real-time audio recording
- Immediate access to any fragment of the recorded material
- SHUTTLE/JOG system for viewing recorded files
- PTZ control directly from the device or through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: Novus-C, Novus-C1, Novus-C2, Pelco-D and others
- NV-KBD60 & NV-KBD30 keyboards compatible
- Backup function onto HDDs or CD-RW/DVD-RW (internal or connected through USB and IEEE1394 ports)
- Networking (simultaneous connections with multiple DVRs, real-time audio transmission and alarm e-mail notification)
- Software: N-Viewer 3000 application for remote connection with the DVR through the network and HDD reading
- User friendly multi-lingual OSD
- Multi-level password protection
- Covert camera function
- IR remote control and PC mouse control
- Power supply: 115 ~ 230 VAC



Model	NV-DVR3009	NV-DVR3016				
Operation Mode	QUADRUPLEX					
Operating System	Linux					
Video Input	9 x BNC, loop-through 16 x BNC, loop-through					
Video Output	1 Main Monitor output (BNC, S-Video and/or VGA), 1 Spot Monitor output (BNC)					
Alarm Input	9	16				
Alarm Output	4 relay	outputs				
Audio Input	4 x	RCA				
Audio Output	1 x	RCA				
Recording Speed	Up to 100 fps for 360 x	288, 50 fps for 720 x 288				
Compression	MP	EG-4				
Recording Resolution	720 x 288	, 360 x 288				
Recording Mode	Time-lapse, Event (Alarm	and/or Motion detection)				
Display Speed	225 fps (real-time)	400 fps (real-time)				
Display Screen	Full screen, 4, 6, 8, 9, PiP, sequence, user defined, digital zoom of a chosen screen area: 2x, 3x, 4x	Full screen, 4, 6, 8, 9, 13, 16, PiP, sequence, user defined, digital zoom of a chosen screen area: 2x, 3x, 4x				
Motion Detection	720 detection windows (30x24 grid) with active areas size, sensitivity & object speed defined individually for each channel					
Video Loss Detection	Yes					
Schedule Recording	Individually adjustable for each day/specific days (holidays etc.) per camera, combination of individual recording modes possibility					
Recorded Data Search	By date/time or events					
Event History Log	Up to 25 000 alarm events (Video loss detection, Full HDD, Power loss detection, Motion detection)					
Time Synchronization	Automatic time synchronization with NTP server					
Storage	Supports up to 4 HDDs (max. 500 GB each), 1 to be installed in the swappable drive					
Backup	CD-RW or DVD-RW drive, external HDDs through USB and IEEE1394 ports, network backup					
External Ports	1 x Ethernet - RJ-45 interface, 10 Mbit/s 1 x USB for external drives and PC Mouse 1 x FireWire (IEEE1394) for external drives (HDD, CD-RW, DVD-RW) 1 x RS-485 for PTZ cameras 1 x RS-422 for NV-KBD60 & NV-KBD30 keyboards					
PTZ Control	Directly from the device or through the network (N-Viewer 3000, IE)					
Protocol	Novus-C, Novus-C1, Novus-C2, Pel	co-D, LG, Lilin, Samsung and others				
Control	Front panel, IR remote control, Network (N-Viewer 300	0, IE), NV-KBD60 & NV-KBD30 keyboards, USB PC mouse				
Set-up	Multi-lingual On So	creen Display (OSD)				
Software	N-View	ver 3000				
User Authorization	Multi-level password protection	on, 16 individual user accounts				
Auto System Recovery	Hardware WATC	EHDOG function				
Power Supply	115~2	230 VAC				
Power Consumption	Approx. 63 W without HD	DD and 102 W with 4 HDDs				
Operating Temperature	5℃~	~ 40°C				
Relative Humidity	0% ~ 80% (non-condensing)					
Dimensions (mm)	432 (W) x 88	3 (H) x 380 (D)				
Weight	8.9 kg (without HDD)					
Rack Mount	Standard	EIA 19", 2U				



Digital Video Recorders NV-DVR5004



An exemplary system configuration can be found on page 98































- TRIPLEX: simultaneous recording, live monitoring and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 100 fps
- MPEG-4 compression (4 levels)
- Recording resolution:
- 720 x 288
- -360 x 288
- Recording speed and resolution defined individually for each camera and each recording mode
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- 4-channel real-time audio recording
- External devices support ("Text-in" feature): ATM, POS, AC etc.
- Advanced search functions of recorded images
- PTZ control directly from the device or through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: Novus-C, Novus-C1, Pelco-D and others
- NV-KBD60 & NV-KBD30 keyboards compatible
- Backup: CD-RW drive & external HDDs through USB port, USB Flash Memory, network
- Networking (simultaneous connections with multiple DVRs and alarm e-mail notification)
- · Software:
- IRAS application for remote connection with single or multiple DVRs through the network (full DVR administration, live monitoring and recorded data search)
- iMAP application that allows the user to create graphic interfaces based on own site schemes (object map editor included)
- Self-diagnostic functions with automatic notification
- User friendly multi-lingual OSD
- Covert camera function
- Power supply: 100 ~ 240 VAC



Specifications		
Model	NV-DVR5004	
Operation Mode	TRIPLEX	
Operating System	Linux	
Video Input	4 x BNC, loop-through	
Video Output	1 Main Monitor output (BNC, S-Video and/or VGA)	
Alarm Input	4 sensor inputs TTL	
Alarm Output	2 relay outputs	
Audio Input	4 x RCA	
Audio Output	1 x RCA	
Compression	MPEG-4 (4 quality levels)	
Recording Resolution	720 x 288, 360 x 288 - defined individually for each channel	
Recording Speed	Up to 100 fps for 360 x 288, 50 fps for 720 x 288	
Recording Mode	Time-lapse, Event (Alarm, Motion detection and/or "Text-in")	
Display Speed	100 fps (real-time)	
Display Screen	Full screen, 4, sequence, 2x digital zoom of a chosen screen area	
Motion Detection	192 detection windows (12x16 grid) with sensitivity defined individually for each channel	
Video Loss Detection	Yes	
Schedule Recording	Individually adjustable for each day/specific days (holidays etc.) per camera, combination of individual recording modes possibility	
Recorded Data Search	By date/time or events (Motion detection, "Text-in")	
Event History Log	Up to 10 000 alarm events	
Time Synchronization	Automatic time synchronization with NTP server	
System Diagnostic	Automatic control of HDD temperature status with local and network notification function	
Storage	Supports 1 internal HDD (max. 500 GB)	
Backup	CD-RW drive & external HDDs through USB port, USB Flash Memory, network backup	
CD-RW Drive	External via USB	
External Ports	1 x Ethernet - RJ-45 interface 1 x USB 2.0 for external drives (HDD, CD-RW, Flash Memory) 1 x RS-485 for PTZ cameras or NV-KBD60 & NV-KBD30 keyboards 1 x RS-232 for external devices such as POS, ATM, AC etc.	
PTZ Functions	PTZ cameras control directly from the device without an additional keyboard or through the network (IRAS, iMAP)	
Protocol	Novus-C, Novus-C1, Pelco-D and others	
Control	Front panel, Network (IRAS, iMAP), NV-KBD60 & NV-KBD30 keyboards	
Software	IRAS, iMAP	
Set-up	Multi-lingual On Screen Display (OSD)	
User Authorization	2 users multi-level password protection	
Auto System Recovery	Hardware WATCHDOG function	
Power Supply	100 ~ 240 VAC	
Power Consumption	138 W with HDD	
Operating Temperature	5°C ~ 40°C	
Relative Humidity	0% ~ 80% (non-condensing)	
Dimensions (mm)	220 (W) x 88 (H) x 305 (D)	
Weight	3.5 kg (without HDD)	



Digital Video RecordersNV-DVR5009/CD, NV-DVR5016/CD



An exemplary system configuration can be found on page 99



- PENTAPLEX: simultaneous recording, live monitoring, playback, archiving and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 200 fps
- MPEG-4 compression (4 levels)
- Recording resolution:
- 720 x 288
- -360 x 288
- 4 spot monitor outputs fully controlled
- Storage of max. 9 TB
- Recording speed and resolution defined individually for each camera and each recording mode
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- 4-channel real-time audio recording
- External devices support ("Text-in" feature): ATM, POS, AC etc.
- Advanced search functions of recorded images
- PTZ control directly from the device or through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: Novus-C, Novus-C1, Pelco-D and others
- NV-KBD60 & NV-KBD30 keyboards compatible
- Built-in CD-RW drive
- Backup: CD-RW drive & external HDDs through USB port, USB Flash Memory, network
- Networking (simultaneous connections with multiple DVRs, real-time audio transmission and alarm e-mail notification)
- Software:
- IRAS application for remote connection with single or multiple DVRs through the network (full DVR administration, live monitoring and recorded data search)
- iMAP application that allows the user to create graphic interfaces based on own site schemes (object map editor included)
- Self-diagnostic functions with automatic notification
- User friendly multi-lingual OSD
- Covert camera function
- Power supply: 100 ~ 240 VAC



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Model	NV-DVR5009/CD	NV-DVR5016/CD					
Operation Mode	PENTAPLEX						
Operating System	Linux						
Video Input	9 x BNC, loop-through 16 x BNC, loop-through						
Video Output	1 Main Monitor output (BNC, S-Video ar	nd/or VGA), 4 Spot Monitor outputs (BNC)					
Alarm Input	9 sensor inputs TTL	16 sensor inputs TTL					
Alarm Output	9 OC	16 OC					
Audio Input	4 x	RCA					
Audio Output	1 x RCA						
Recording Speed	Up to 200 fps for 360 x :	288, 100 fps for 720 x 288					
Compression	MPEG-4 - own algor	rithm (4 quality levels)					
Recording Resolution	720 x 288, 360 x 288 - define	d individually for each channel					
Recording Mode	Time-lapse, Event (Alarm, Mo	tion detection and/or "Text-in")					
Display Speed	225 fps (real-time)	400 fps (real-time)					
Display Screen	Full screen, 4, 9, PiP, sequence, user defined, freeze image function, digital zoom of a chosen screen area: 2x, 3x, 4x	Full screen, 4, 9, 16, PiP, sequence, user defined, freeze image function, digital zoom of a chosen screen area: 2x, 3x, 4x					
Motion Detection	256 detection windows (16x16 grid) with sensitivity, active areas size & cells number needed for alarm activation defined individually for each channel, additional disappeared object detection function						
Video Loss Detection	Yes						
Schedule Recording	Individually adjustable for each day/specific days (holidays etc.) per camera, combination of individual recording modes possibility						
Recorded Data Search	By date/time or events (motion, disappeared object, "Text-in")						
Event History Log	Up to 10 000 alarm events						
Time Synchronization	Automatic time synchronization with NTP server						
System Diagnostic	Automatic control of HDD bad sectors number ("Health") & temperature status with local and network notification function						
Storage	Max. 9 TB - supports up to 3 internal HDDs (max. 500 GB each) and external HDDs through SCSI port						
Backup	CD-RW drive & external HDDs through USB port, USB Flash Memory, network backup						
Archiving	Automatic archiving onto internal HDDs & external HDDs connected through SCSI port						
CD-RW Drive	Built-in						
External Ports	1 x Ethernet - RJ-45 interface, 3 x USB 2.0 for external drives (HDD, PC mouse, Flash Memory, POS, ATM, AC etc.) 1 x SCSI for external HDDs, 1 x RS-485 for PTZ cameras, NV-KBD60 & NV-KBD30 keyboards, POS, ATM, AC etc. 1 x RS-232 for POS, ATM, AC etc.						
PTZ Functions	PTZ cameras control directly from the device without an	additional keyboard or through the network (IRAS, iMAP, IE)					
Protocol	Novus-C1, Pelco-D and others						
Control	Front panel, IR remote control, Network (IRAS, iMAP, IE), NV-KBD60 & NV-KBD30 keyboards, USB PC mouse						
Set-up	Multi-lingual On Screen Display (OSD)						
Software	IRAS	, iMAP					
User Authorization	Multi-level pass	sword protection					
Auto System Recovery	Hardware WATCHDOG function						
Power Supply	100 ~	240 VAC					
Power Consumption	Approx. 100 \	W with 4 HDDs					
Operating Temperature	5℃	~ 40°C					
Relative Humidity	0% ~ 80% (nc	on-condensing)					
Dimensions (mm)	430 (W) x 88	8 (H) x 403 (D)					
Weight	10.2 kg (without HDD)						
Rack Mount	Standard EIA 19", 2U						









- QUADRUPLEX: simultaneous recording, live monitoring, playback and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 100 fps
- MPEG-4 compression
- Recording resolution:
- 720 x 288
- 360 x 288
- Supports up to 3 HDDs, 1 HDD 250 GB in-set included
- Recording speed and quality defined individually for each camera
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- 2-channel real-time audio recording
- External devices support ("Text-in" feature): ATM, POS, AC etc.
- Advanced search functions of recorded images
- PTZ control directly from the device or through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: Novus-C, Novus-C1, Pelco-D and others
- NV-KBD60 & NV-KBD30 keyboards compatible
- Built-in DVD-RW drive
- Backup: onto HDD or USB Flash Memory through USB port, CD/DVD & through the network
- Networking (simultaneous connections with multiple DVRs and alarm e-mail notification)
- Software: RASplus application (for remote administration, live monitoring and recorded data search) with a built-in module for graphical object visualization (maps)
- Self-diagnostic functions with automatic notification
- User friendly multi-lingual OSD
- Covert camera function
- Power supply: 100 ~ 240 VAC



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Model	NV-DVR5108/DVD	NV-DVR5116/DVD					
Operation Mode	OUADRUPI FX						
Operating System	Linux						
Video Input	8 x BNC, loop-through 16 x BNC, loop-through						
Video Output	Main Monitor (1 x BNC, 1 x VGA), Spot Monitor (1 x BNC)						
Alarm Input	8 16						
Alarm Output	2 OC						
Audio Input	2 x RCA						
Audio Output	1 x l	RCA					
Recording Speed	Up to 100 fps (360 x 288)), up to 50 fps (720 x 288)					
Compression	MPEG-4 - ov	vn algorithm					
Recording Resolution	720 x 288,	360 x 288					
Recording Mode	Time-lapse, Event (Alarm, Mot	ion detection and/or "Text-in")					
Display Speed	200 fps (real-time)	400 fps (real-time)					
Display Screen	Full screen, 4, 9, PiP, sequence, user defined, freeze image function, digital zoom of a chosen screen area: 2x	Full screen, 4, 9, 16, PiP, sequence, user defined, freeze image function, digital zoom of a chosen screen area: 2x					
Motion Detection	192 detection windows (16x12 grid) with sensitivity & defined individual	active areas cells number needed for alarm activation ly for each channel					
Video Loss Detection	Yes						
Schedule Recording	Individually adjustable for each day/specific days (holidays etc.) per camera, combination of individual recording modes possibility						
Recorded Data Search	By date/time or events (motion, disappeared object, "Text-in")						
Event History Log	Up to 10 000 alarm events						
Time Synchronization	Automatic time synchronization with NTP server						
System Diagnostic	Automatic control of HDD bad sectors number ("Health") & temperature status with local and network notification function						
Storage	Supports up to 3 internal HDDs (max. 500 GB each), 1 HDD 250 GB in-set included						
Backup	Onto CD/DVD, HDD or USB Flash Memory through USB port, through the network						
DVD-RW Drive	Built-in						
External Ports	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s 2 x USB 2.0 for external drives (HDD, PC mouse, Flash Memory) 1 x RS-485 for PTZ cameras or NV-KBD60 & NV-KBD30 keyboards 1 x RS-232 for POS, ATM, AC etc.						
PTZ Functions	PTZ cameras control directly from the dev	rice and through the network (RASplus, IE)					
Protocol	Novus-C, Novus-C1,	, Pelco-D and others					
Control	Front panel, Network (RASplus, IE), NV-KBD	060 & NV-KBD30 keyboards, USB PC mouse					
Set-up	Multi-lingual On Sc	reen Display (OSD)					
Software		plus					
User Authorization		vith diverse grants, password protection					
Auto System Recovery	Hardware WATCHDOG function						
Power Supply		240 VAC					
Power Consumption	Approx. 90 W with 4 HDDs						
Operating Temperature		√40°C					
Relative Humidity	0% ~ 80% (not	n-condensing)					
Dimensions (mm)	430 (W) x 88 (H) x 400 (D)						
Weight	7.3 kg (without HDD)						
Rack Mount	Standard EIA 19", 2U						







- PENTAPLEX: simultaneous recording, live monitoring, playback, archiving/mirroring and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 200 fps
- TRIPLEX function: simultaneous recording, live monitoring and playback of a chosen camera on the main monitor
- MPEG-4 compression
- Recording resolution:
- 720 x 576
- 720 x 288
- 360 x 288
- 4 spot monitor outputs with matrix switcher function (16 x 4)
- Storage of max. 9 TB, 1 HDD 250 GB in-set included
- Recording resolution, speed and quality defined individually for each camera
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- 4-channel real-time audio recording
- External devices support ("Text-in" feature): ATM, POS, AC etc.
- Advanced search functions of recorded images
- PTZ control directly from the device or through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: Novus-C, Novus-C1, Pelco-D and others
- NV-KBD60 & NV-KBD30 keyboards compatible
- Built-in DVD-RW drive
- Backup: onto HDD or USB Flash Memory through USB port, CD/DVD & through the network
- Networking (simultaneous connections with multiple DVRs and alarm e-mail notification)
- Software: RASplus application (for remote administration, live monitoring and recorded data search) with a built-in module for graphical object visualization (maps)
- Self-diagnostic functions with automatic notification
- User friendly multi-lingual OSD
- Covert camera function
- Power supply: 100 ~ 240 VAC



Specifications						
Model	NV-DVR5508/DVD	NV-DVR5516/DVD				
Operation Mode	PENTAPLEX					
Operating System	Lir	nux				
Video Input	8 x BNC, loop-through	16 x BNC, loop-through				
Video Output	Main Monitor (1 x BNC, 1 x S-Vide	o, 1 x VGA), Spot Monitor (4 x BNC)				
Alarm Input	8	16				
Alarm Output	7 OC, 1 relay output	15 OC, 1 relay output				
Audio Input	4 x	RCA				
Audio Output	1 x	RCA				
Recording Speed	Up to 200 fps (360 x 288), up to 100 f	ps (720 x 288), up to 50 fps (720 x 576)				
Compression	MPEG-4 - ov	vn algorithm				
Recording Resolution	720 x 576, 720	x 288, 360 x 288				
Recording Mode	Time-lapse, Event (Alarm, Mo	tion detection and/or "Text-in")				
Display Speed	200 fps (real-time)	400 fps (real-time)				
Display Screen	Full screen, 4, 9, PiP, sequence, user defined, freeze image function, digital zoom of a chosen screen area: 2x, 3x, 4x	Full screen, 4, 9, 16, PiP, sequence, user defined, freeze image function, digital zoom of a chosen screen area: 2x, 3x, 4x				
Motion Detection		active areas cells number needed for alarm activation ly for each channel				
Video Loss Detection	Yes					
Schedule Recording	Individually adjustable for each day/specific days (holidays etc.) per camera, combination of individual recording modes possibility					
Recorded Data Search	By date/time or events (motion, disappeared object, "Text-in")					
Event History Log	Up to 10 000 alarm events					
Time Synchronization	Automatic time synchronization with NTP server					
System Diagnostic	Automatic control of HDD bad sectors number ("Health") & temperature status with local and network notification function					
Storage	Max. 9 TB - supports up to 3 internal HDDs (max. 500 GB each) and external HDDs through SCSI port, 1 HDD 250 GB in-set included					
Backup	Onto CD/DVD, HDD or USB Flash Memor	y through USB port, through the network				
Archiving	Automatic archiving onto internal or extern	al HDD connected through SCSI or USB port				
Mirroring	Automatic backup onto internal HDDs					
DVD-RW Drive	Built-in					
External Ports	1 x Ethernet - RJ-45 interface, 10/100 Mbits/s, 3 x USB 2.0 for external drives (HDD, PC mouse, Flash Memory), 1 x SCSI for external HDDs, 1 x RS-485 for PTZ cameras or NV-KBD60 & NV-KBD30 keyboards, 1 x RS-232 for POS, ATM, AC etc.					
PTZ Functions	PTZ cameras control directly from the dev	vice and through the network (RASplus, IE)				
Protocol	Novus-C, Novus-C1	, Pelco-D and others				
Control	Front panel, IR remote control (in-set included), Network (RASplus, IE), NV-KBD60 & NV-KBD30 keyboards, USB PC mouse					
Set-up	Multi-lingual On So	creen Display (OSD)				
Software	RASplus					
User Authorization	Creation of user groups and accounts v	vith diverse grants, password protection				
Auto System Recovery	Hardware WATC	CHDOG function				
Power Supply	100 ~ 240 VAC					
Power Consumption	Approx. 100 W with 4 HDDs					
Operating Temperature	5°C ~ 40°C					
Relative Humidity		n-condensing)				
Dimensions (mm)	430 (W) x 88 (H) x 403 (D)					
Weight	10.2 kg (without HDD)					
Rack Mount	Standard EIA 19", 2U					































































- PENTAPLEX: simultaneous recording, live monitoring, playback, archiving/mirroring and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 400 fps for 720 x 288 "real-time recording" DVR
- MPEG-4 compression
- Recording resolution:
- 720 x 576
- 720 x 288
- 360 x 288
- 4 spot monitor outputs with matrix switcher function (16 x 4)
- Storage of max. 9 TB, 1 HDD 250 GB in-set included
- Recording resolution, speed and quality defined individually for each camera
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- 16-channel real-time audio recording
- External devices support ("Text-in" feature): ATM, POS, AC etc.
- Advanced search functions of recorded images
- PTZ control directly from the device or through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: Novus-C, Novus-C1, Pelco-D and others
- NV-KBD60 & NV-KBD30 keyboards compatible
- Built-in DVD-RW drive
- Backup: onto HDD or USB Flash Memory through USB port, CD/DVD & through the network
- Networking (simultaneous connections with multiple DVRs and alarm e-mail notification)
- Software: RASplus application (for remote administration, live monitoring and recorded data search) with a built-in module for graphical object visualization (maps)
- Self-diagnostic functions with automatic notification
- User friendly multi-lingual OSD
- Covert camera function
- Power supply: 100 ~ 240 VAC



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Model	NV-DVR5816/DVD	
Operation Mode	PENTAPLEX	
Operating System	Linux	
Video Input	16 x BNC, loop-through	
Video Output	Main Monitor (1 x BNC, 1 x S-Video, 1 x VGA), Spot Monitor (4 x BNC)	
Alarm Input	16	
Alarm Output	12 OC, 4 relay outputs	
Audio Input	16 x RCA	
Audio Output	1 x RCA	
Recording Speed	Up to 400 fps (720 x 288, 360 x 288), up to 200 fps (720 x 576)	
Compression	MPEG-4 - own algorithm	
Recording Resolution	720 x 576, 720 x 288, 360 x 288	
Recording Mode	Time-lapse, Event (Alarm, Motion detection, Object detection and/or "Text-in")	
Display Speed	400 fps (real-time)	
Display Screen	Full screen, 4, 9, 16, PiP, sequence, user defined, freeze image function, digital zoom of a chosen screen area: 2x, 3x, 4x	
Motion Detection	256 detection windows (16x16 grid) with sensitivity & active areas cells number needed for alarm activation defined individually for each channel	
Video Loss Detection	Yes	
Schedule Recording	Individually adjustable for each day/specific days (holidays etc.) per camera, combination of individual recording modes possibility	
Recorded Data Search	By date/time or events (motion, disappeared object, "Text-in")	
Event History Log	Up to 5 000 alarm events	
Time Synchronization	Automatic time synchronization with NTP server	
System Diagnostic	Automatic control of HDD bad sectors number ("Health") & temperature status with local and network notification function	
Storage	Max. 9 TB - supports up to 4 HDDs installed in Hot Swap drives (max. 500 GB each) and external HDDs through SCSI port, 1 HDD 250 GB in-set included	
Backup	Onto CD/DVD, HDD or USB Flash Memory through USB port, through the network	
Archiving	Automatic archiving onto internal or external HDD connected through SCSI or USB port	
Mirroring	Automatic backup onto internal HDDs	
DVD-RW Drive	Built-in	
External Ports	1 x Ethernet - RJ-45 interface, 10/100 Mbits/s, 3 x USB 2.0 for external drives (HDD, PC mouse, Flash Memory), 1 x SCSI for external HDDs, 2 x RS-485 for PTZ cameras or NV-KBD60 & NV-KBD30 keyboards, 2 x RS-232 for POS, ATM, AC etc.	
PTZ Functions	PTZ cameras control directly from the device and through the network (RASplus, IE)	
Protocol	Novus-C, Novus-C1, Pelco-D and others	
Control	Front panel, IR remote control (in-set included), Network (RASplus, IE), NV-KBD60 & NV-KBD30 keyboards, USB PC mouse	
Set-up	Multi-lingual On Screen Display (OSD)	
Software	RASplus	
User Authorization	Creation of user groups and accounts with diverse grants, password protection	
Auto System Recovery	Hardware WATCHDOG function	
Power Supply	100 ~ 240 VAC	
Power Consumption	Approx. 105 W with 4 HDDs	
Operating Temperature	5°C ~ 40°C	
Relative Humidity	0% ~ 80% (non-condensing)	
Dimensions (mm)	430 (W) x 177 (H) x 504 (D)	
Weight	17.8 kg (without HDD)	
Rack Mount	Standard EIA 19", 4U	





Features

- System keyboard designed to remotely control NOVUS® DVRs, speed domes, other NOVUS® cameras incorporating the RS-485 interface
- Protocols for DVR control: Novus-D1, Novus-D2, Novus-D3, N-Control
- Protocols for controlling speed domes and other camera types: Novus-C, Novus-C1, Novus-C2, Pelco-D
- Three-axial joystick with the zoom control ring
- 37 multi-function keys
- SHUTTLE ring, JOG dial for controlling DVR functions
- 2 x 16 digits display
- Flexible configuration of user grants, each user access secured by password
- Multi-lingual menu
- Power supply: 12 VDC

Model	NV-KBD60	
Equipment Connection	PTZ Cameras: NOVUS® CAMA-I Series speed domes, NOVUS® CAMA-mini Other NOVUS® cameras: NVC-625DN, NVC-660DN, NVC-825DN, NVC-860DN, NVC-HC520ZL, NVC-HC370HZL-2 All-In-One (up to 30 cameras with various speeds)	
	NOVUS® Digital Video Recorders: NV-DVR900, NV-DVR1600, 5000, 3000 & 1100 Series (up to 10 devices)	
Camera Protocol	Novus-C, Novus-C1, Novus-C2, Pelco-D	
DVR Protocol	Novus-D1, Novus-D2, Novus-D3, N-Control	
Joystick	Three-axial joystick (auto-returning, zoom)	
Buttons	37 multi-function keys (made of silicon)	
Knob	Jog/Shuttle	
Display	16 x 2 backlit LCD	
External Ports	1 x RS-422/RS-485 (RJ-11) for connection with DVRs 1 x RS-485 (2 x RJ-11) for connection with PTZ cameras 1 x RS-232 (D-Sub 9 Pin) for keyboard software upgrades from the PC	
Power Supply	12 VDC	
Power Consumption	15 W	
Operating Temperature	5°C ~ 40°C	
Dimensions (mm)	364 (W) x 48 (H) x 146 (D)	
Weight	1.2 kg	









Features

- Keyboard for remote control of NOVUS® DVRs
 Protocols for DVR control: Novus-D1, Novus-D2, Novus-D3
- 27 multi-function keys
- 4 digit LED display
- Power supply: 9 VDC

Model	NV-KBD30	
Equipment Connection	NOVUS® Digital Video Recorders: NV-DVR900, NV-DVR1600, 5000, 3000 & 1100 Series (up to 9 devices)	
DVR Protocol	Novus-D1, Novus-D2, Novus-D3	
Buttons	27 multi-function keys	
Display	LED, 4 digit	
External Ports	RS-485 (RJ-45) for connection with DVRs	
Power Supply	9 VDC	
Power Consumption	2.5 W	
Operating Temperature	5°C ~ 40°C	
Dimensions (mm)	220 (W) x 56 (H) x 180 (D)	
Weight	0.8 kg	







Features

- Keyboard designed to remotely control NOVUS® speed domes, other NOVUS® cameras incorporating the RS-485 interface
- Protocols for controlling speed domes and other camera types: Novus-C, Novus-C1, Novus-C2, Pelco-D
- Three-axial joystick with the zoom control ring
- 33 multi-function keys
- 2 grant level: administrator (password protected access) and operator
- 2 x 16 digit display
- Power supply: 9 VDC

Specifications

Model	NV-KBD40
Equipment Connection	PTZ Cameras: NOVUS® CAMA-I Series speed domes, NOVUS® CAMA-mini Other NOVUS® cameras: NVC-625DN, NVC-660DN, NVC-825DN, NVC-860DN, NVC-HC520ZL, NVC-HC370HZL-2 All-In-One (up to 29 cameras with various speeds)
Camera Protocol	Novus-C, Novus-C1, Novus-C2, Pelco-D
Joystick	Three-axial joystick (auto-returning, zoom function)
Buttons	33 multi-function keys
Display	16 x 2 backlit LCD
External Ports	1 x RS-485 (2 x RJ-11) for connection with PTZ cameras
Power Supply	9VDC
Power Consumption	3 W
Operating Temperature	5°C ~ 40°C
Dimensions (mm)	335 (W) x 56 (H) x 180 (D)
Weight	1.25 kg





Camera



Camera



Camera



B/W Monitors NVM-009M, NVM-012M, **NVM-012MA, NVM-014M**



Features

- CRT Size: 9", 12", 14"
- Resolution: up to 1000 TVL
- Audio -NVM-012MA model
- Front panel control
- Metal case: black or white
- Power supply: 100 ~ 240 VAC

Model	NVM-009M	NVM-012M/NVM-012MA	NVM-014M	
CRT Size	9"	12"	14"	
Video Input		1 x BNC loop-through, 75 Ohm/Hi-Z		
Audio Input		1 x RCA loop-through (models with an "A"	")	
Resolution	900 TVL	1000	TVL	
Operation System		CCIR/EIA (Auto Scan)		
Front Panel Control	Power On/Off switch, H-hold and V-hold, contrast, brightness and volume adjustment (models with an "A")			
Linearity	Horizontal: 10%, Vertical: 10%			
Case	Metal (black or white)			
Power Supply	100 ~ 240 VAC			
Power Consumption	21 W	22 W	27 W	
Operating Temperature	0°C ~ 50°C			
Relative Humidity	10% ~ 85% (non-condensing)			
Dimensions (mm)	220 (W) x 237.5 (H) x 261 (D)	310 (W) x 303.5 (H) x 302 (D)	356 (W) x 333 (H) x 381 (D)	
Weight	4.6 kg 7.6 kg 10.5 kg			



Professional solution for your CCTV systems

B/W Monitors NVM-015M, NVM-015MA, NVM-017MA



Features

- CRT Size: 15", 17" • Resolution: 1000 TVL
- Audio NVM-015MA, NVM-017MA models
- Front panel control
- Metal case: black or white
- Power supply: 100 ~ 240 VAC

Model	NVM-015M/NVM-015MA	NVM-017MA	
CRT Size	15″	17"	
Video Input	1 x BNC loop-through, 75 Ohm/Hi-Z	2 x BNC loop-through, 75 Ohm/Hi-Z	
Audio Input	1 x RCA loop-through (models with an "A")	2 x RCA loop-through	
Resolution	1000	TVL	
Operation System	CCIR/EIA (,	Auto Scan)	
Front Panel Control	Power On/Off switch, H-hold and V-hold, contrast, brightness and volume adjustment (models with an "A")		
Linearity	Horizontal: 10%, Vertical: 10%		
Case	Metal (black or white)		
Power Supply	100 ~ 240 VAC		
Power Consumption	28 W 38 W		
Operating Temperature	0°C ~ 50°C		
Relative Humidity	10% ~ 85% (non-condensing)		
Dimensions (mm)	356 (W) x 333 (H) x 381 (D)	405 (W) x 370.5 (H) x 406 (D)	
Weight	11.2 kg 14.4 kg		



Color Monitors NVM-015CH, NVM-017CH, NVM-019CH, NVM-021CS



Features

- CRT Size: 15", 17", 19", 21"
- Resolution: up to 800 TVL
- S-Video input
- Audio
- Front panel control
- Black metal case
- Power supply: 100 ~ 240 VAC

Specifications				
Model	NVM-015CH	NVM-017CH	NVM-019CH	NVM-021CS
CRT Size	15"	17"	19"	21"
CRT Dot Pitch	0.28 mm	0.28 mm	0.27 mm	0.76 mm
Video Input		2 x BNC loop-thro	ugh, 75 Ohm/Hi-Z	
Audio Input		2 x RCA loc	pp-through	
S-Video Input/Output		Ye	es	
Resolution		700 TVL, 800 TVL (S-VHS)		450 TVL, 500 TVL (S-VHS)
Operation System	PAL/NTSC (Auto Scan)			
Front Panel Control	Power On/Off switch, video and audio select switch, contrast, brightness, color, sharpness and volume adjustment			ess and volume adjustment
Underscan Select Switch	N/A			Yes
16:9 Select Switch	N/A Yes			es
Linearity	Horizontal: 10%, Vertical: 10%			
Case	Metal (black)			
Power Supply	100 ~ 240 VAC			
Power Consumption	68 W	72 W	78 W	70 W
Operating Temperature	0°C ~ 50°C			
Relative Humidity	10% ~ 85% (non-condensing)			
Dimensions (mm)	356 (W) x 333 (H) x 381 (D)	405 (W) x 370 (H) x 406 (D)	442 (W) x 405 (H) x 446 (D)	480 (W) x 462 (H) x 462 (D)
Weight	13.2 kg	19.4 kg	24 kg	25.5 kg



LCD Monitors NVM-317LCD, NVM-319LCD

Features

- High resolution color TFT LCD Panel
- Digital 3D comb filter for sharp and clear picture with natural colors
- Panel type: 17", 19"Multi-lingual On Screen Display (OSD)
- Video input: 2 x BNC, S-Video, VGA
- Operation System: PAL/NTSC (Auto Scan)
- Audio input: RCA, Jack
- Internal speakers
- Power supply: 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)

pecification	1S			
Model		NVM-317LCD	NVM-319LCD	
Panel Type		17" color TFT LCD Panel	19" color TFT LCD Panel	
Screen Size (Dia	agonal)	431 (mm)	480 (mm)	
Resolution		580 TVL	580 TVL	
Viewable Size (mm)	337.9 (H) x 270.3 (V)	376.3 (H) x 301.6 (V)	
Dot Pitch (mm)		0.264 x 0.264	0.297 x 0.297	
Viewing Angle	(L/R/T/B)	80°/80°/80°	85°/85°/70°	
Contrast Ratio		400:1	500:1	
Brightness		350 cd/m ²	250 cd/m ²	
Display Color 16.7 mln 16			16.7 mln	
Response Time		8 ms	8 ms	
Video Input		2 x CVBS: BNC connector 1 x S-Video: Mini-DIN 4 Pin connector 1 x VGA	2 x CVBS: BNC connector 1 x S-Video: Mini-DIN 4 Pin connector 1 x VGA	
A !'	Audio Input	Stereo 1 V _{p-p} /1 kHz	Stereo 1 V _{p-p} /1 kHz	
Audio	Speaker	2 x 1.0 W	2 x 1.0 W	
Set-up		Multi-lingual On Screen Display (OSD)		
Operation Syst	em	PAL/NTSC (Auto Scan)		
Power Supply		12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)		
Power Consumption		40 W	40 W	
Operating Temperature		5°C ~ 40°C		
Case		Plastic (black)		
Dimensions (m	m)	370 (W) x 390 (H) x 190 (D)	420 (W) x 420 (H) x 190 (D)	
Weight		3.5 kg	4.5 kg	



Video Distributors & Amplifiers NV-102VDA, NV-104VD, NV-408VD,

NV-408VDA, NV-1632VDA



Features

- Active video distributor
- Video input up to 16
- Video output: up to 32
- Wide bandwidth, video gain compensation amplification
- 10 dB adjustable image gain with HF compensation
- Sharpness and Brightness adjustment
- Transmission range: 800 meters (RG59 coaxial cable)
- Power supply: 12 VDC (230 VAC/12 VDC PSU in-set included)

Model	NV-102VDA	NV-104VD	NV-408VD	NV-408VDA	NV-1632VDA
Video Input	1	1	4	4	16
Video Output	2	4	8	8	32
Video Input Level			0.8 - 1.2 V _{p-p} , 75 Ohm		
Video Bandwidth			10 Hz - 10 MHz		
Video Amplifier	Yes	N,	/A	Y	es
Brightness Adjustment	Yes	N/A Yes			
Sharpness Adjustment	Yes	N/A Yes			
Power Supply	12 VDC (PSU in-set included)				
Power Consumption	1.2 W	6 W			
Dimensions (mm)	138 (W) x 28 (H) x 84 (D)	1		483 (W) x 88 (H) x 44 (D)	
Weight	130 g	115 g 600 g		1400 g	
Material	ABS (black) Metal (black)				
Rack Mount	N/A Standard EIA 19", 2U				



Serial Data Distributors

Model	NVRS-004DD	NVRS-016DD		
Device Type	Active serial data distributor			
Data Input	1 x RS-232 (D-Sub 9 pin).	/2 x RS-485 (screw terminal)		
Data Output Port	4 ports (screw terminal)	16 ports (screw terminal)		
Data Output	R	S-485		
Control Signal Transmission Distance	Up to) 1200 m		
Power Supply	12 VDC (PSU	in-set included)		
Power Consumption	4	.2 W		
Operating Temperature	0°C ~ 45°C			
Dimensions (mm)	133 (W) x 44 (H) x 76 (D)	482 (W) x 44 (H) x 100 (D)		
Weight	425 g	1100 g		
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)			
Material	Metal (black)			
Rack Mount	N/A	Standard EIA 19", 1U		

Repeaters/Amplifiers

Model	NV-001DR		
Device Type	RS-485 data signal repeater/amplifier		
Data Input	RS-485 (screw terminal)		
Data Output	RS-485 (screw terminal)		
Protection	2.5 kV isolation of input and output circuits, surge protection		
Power Supply	12 VDC (PSU in-set included)		
Power Consumption	4.2 W		
Operating Temperature	0°C ~ 55°C		
Relative Humidity	0% ~ 95%		
Dimensions (mm)	27.5 (L) x 88 (W) x 67 (H)		
Weight	120 g		
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)		



Twisted-pair Signal Transmission

Model	NVPT-A111VRH	NVPT-A111VT	NVPT-111AVDT
Device Type	Active video receiver	Active video transmitter	Active video & data transmitter NVPT-111AVDT(T) & receiver NVPT-111AVDT(R)
Video Input/Output		1 x BNC, 1.0 V _{p-p} /75 Ohm	
Bandwidth		12 MHz	
Color Signal Transmission Distance	Up to 1200 m (with passive transmitter) Up to 2400 m (with active transmitter)	Up to 2400 m (with active receiver)	Up to 1500 m
B/W Signal Transmission Distance	Up to 2000 m (with passive transmitter) Up to 3000 m (with active transmitter)	Up to 3000 m (with active receiver)	Up to 2400 m
Power Supply	12 VDC (PSU in-set included)		2 x 12 VDC (PSU in-set included)
Power Consumption	1.8 W	0.5 W	2 x 0.5 W
RS-485 Connector	N	/A	Yes (up to 1200 m)
Dimensions (mm)	138 (L) x 77 (W) x 28 (H)	45 (L) x 49 (W) x 42 (H)	NVPT-111AVDT(T): 41 (L) x 43 (W) x 43 (H) NVPT-111AVDT(R): 41 (L) x 57 (W) x 43 (H)
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)		
Material	ABS (black)		
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Model	NVPT-111VTS	NVPT-111VT	NVPT-111VTP	NVPT-414V
Device Type		Passive video tra	nsmitter/receiver	
Video Input/Output		1 x BNC, 1.0 V _{p-p} /75 Ohm		4 x BNC, 1.0 V _{p-p} /75 Ohm
Bandwidth		12	MHz	
Color Signal Transmission Distance	Up to 400 m Up to 1200 m (up to 1000 m for NVPT-111VTS) - with NVPT-A111VRH active receiver			
B/W Signal Transmission Distance	Up to 600 m Up to 2000 m (up to 1000 m for NVPT-111VTS) - with NVPT-A111VRH active receiver			
Dimensions (mm)	61 (L) x 19 (W) x 15.3 (H)	60 (L) x 20 (W) x 21 (H)	280 (L) x 20 (W) x 21 (H) with 23 cm coaxial cable	78 (L) x 110 (W) x 25 (H)
Weight	60 g	60 g	100 g	200 g
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)			
Material	ABS (black)			



Twisted-pair Signal Transmission

Model	NVPT-301SV
Device Type	Set (transmitter & receiver) for S-Video signal transmission
Data Input	S-Video (Mini-DIN 4 Pin "male" with 25 cm cable)
Data Output	RJ-45
Bandwidth	Up to 8 MHz
Transmission Distance	Up to 300 m
Operating Temperature	0°C ~ 55°C
Relative Humidity	0% ~ 95%
Dimensions (mm)	50 (L) x 23 (W) x 20 (H)
Weight	25 g
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)



Model	NVPT-501VGA
Device Type	Set (transmitter & receiver) for VGA signal transmission
Data Input	VGA (D-Sub 15 Pin)
Data Output	RJ-45
Resolution & Frequency Support	Max. 1600 x 1200, 85 Hz
Video Amplifier Bandwidth	150 MHz
Horizontal Frequency	30 ∼ 95 kHz
Vertical Frequency	50 ~ 180 Hz
Transmission Distance	Up to 300 m
Power Supply	Transmitter: 5 VDC; Receiver: 5 VDC (PSUs in-set included)
Power Consumption	Transmitter: 2 W; Receiver: 1.5 W
Operating Temperature	0°C ~ 55°C
Relative Humidity	0% ~ 95%
Dimensions (mm)	Transmitter: 87 (L) x 67 (W) x 27 (H); Receiver: 140 (L) x 67 (W) x 27 (H)
Weight	Transmitter: 136 g; Receiver: 209 g
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)





Twisted-pair Signal Transmission

Model	NVPT-201KME
Device Type	Set (transmitter & receiver) for PC mouse & keyboard signals transmission
Connector	2 x PS2 (keyboard, PC mouse), RJ-45
Bandwidth	Up to 1 MHz
Signals Transmission	PC mouse & keyboard data and clock signals, power supply, ground
Transmission Distance	Up to 100 m
Operating Temperature	0°C ~ 55°C
Relative Humidity	0% ~ 95%
Dimensions (mm)	Transmitter: 70 (L) x 67 (W) x 27 (H); Receiver: 140 (L) x 25 (W) x 21 (H) with cable
Weight	Transmitter: 108 g; Receiver: 30 g
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)





Coaxial Signal Transmission

Model	NVCT-101AV
Device Type	Set (transmitter & receiver) for video & audio transmission
Video Input/Output	1 x BNC, 1.0 V _{p-p} /75 Ohm
Audio Input/Output	1 x RCA, 1.0 V _{p-p} /600 Ohm
Video & Audio Input/Output Type	Type F
Transmission Distance	Up to 400 m (RG59), 600 m (RG6)
Power Supply	Transmitter: 12 VDC; Receiver: 12 VDC (PSUs in-set included)
Power Consumption	Transmitter: 1.8 W; Receiver: 1.8 W
Operating Temperature	0°C ~ 55°C
Relative Humidity	0% ~ 95%
Dimensions (mm)	Transmitter: 91 (L) x 67 (W) x 27 (H); Receiver: 102 (L) x 67 (W) x 27 (H)
Weight	Transmitter: 147 g; Receiver: 166 g
Cable Type	Coaxial

Ground Loop Isolators

Model	NVG-002LIB	NVG-003TLIB		
Device Type	Passive ground loop isolator with impedance adjustment for video transmission	Passive ground loop isolator with impedance adjustment and built-in transmitter (works with eg. NVPT-111VT as a receiver) for video transmission		
Insertion Loss	0.5	5 dB		
Frequency	0-3 dB fc	or 10 MHz		
Input Resistance	75 (Ohm		
Output Resistance	75 (75 Ohm		
Breakdown Voltage	600	600 VDC		
Transient Voltage	12	12 Vsk		
Impedance Adjustment	Y	'es		
Dimensions (mm)	84 (L) x 28 (W) x 21 (H) with 2 x 15 cm coaxial cable	69 (L) x 25 (W) x 22 (H)		
Cable Type	Coaxial	CAT 5 UTP		
Material	ABS	(black)		



Surge Protectors

Model	NVS-001CB	NVS-003UR	NVS-005VD	
Device Type			Passive surge protection device for video and data transmission	
Surge Protection Time	Max. 1 ns	Ma	x. 100 ns	
Protection Level		4 kV		
Surge Life		300 surges of 100 As		
Normal Resistance		10 000 MOhm		
Surge Resistance	Approx. 0 Ohm			
Bandwidth	0 ~ 1 GHz 0 ~ 10 MHz			
Insertion Loss		Less than 0.2 dB		
Connector	BNC	BNC RJ-45 Screw terminal & BNC		
Dimensions (mm)	78 (L) x 25 (W) x 25 (H)	85 (L) x 25 (W) x 25 (H)	87 (L) x 67 (W) x 27 (H)	
Cable Type	Coaxial	Coaxial CAT 5 UTP Coaxial (video) & CAT 5 UTP (dat		
	ER CO	80	15 mg	

Model	NVS-001PS	NVS-001PS/AC	NVS-003VPS	NVS-005VPSD
Device Type	Passive surge protection	n device for power supply	Passive surge protection device for power supply and video transmission	Passive surge protection device for power supply, video and data transmission
Voltage Range	0 ~ 40 VAC & 0 ~ 56 VDC	100 ~ 120 VAC & 220 ~ 240 VAC	0 ~ 40 VAC & 0 ~ 56 VDC	
Surge Protection Time		Max	c. 1 ns	
Protection Level	4 kV			
Surge Life	300 surges of 100 As			
Normal Resistance Across Coax	10 000 MOhm			
Surge Resistance	Approx. 0 Ohm			
Bandwidth	0 ~ 1 GHz			
Insertion Loss		Less tha	an 0.2 dB	
Connector	Screw	terminal	Screw tern	ninal & BNC
Dimensions (mm)	65 (L) x 25	(W) x 25 (H)	87 (L) x 67	(W) x 27 (H)
	DE 23	EG 33	(B) (1)	-0



Converters

Model	NV-001RSC	NV-001RSCI		
Device Type	RS-232/RS-485 converter			
Data Input	RS-232 (D	-Sub 9 Pin)		
Data Output	RS-485 (scre	RS-485 (screw terminal)		
Protection	N/A 2.5 kV isolation of input and output circuits			
Transmission Type	Half duplex, 2-wire, differential signals			
Transmission Distance	Up to 1200 m			
Operating Temperature	-10°C ~ 45°C			
Relative Humidity	0% ~ 95%			
Dimensions (mm)	73 (L) x 33 (W) x 16 (H)			
Weight	25 g			
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)			





Model	NV-101USBCI	
Device Type	USB/RS-485 converter	
Data Input	USB 2.0	
Data Output	RS-485 (screw terminal)	
Protection	3 kV isolation of input and output circuits	
Transmission Type	Half duplex, differential signals	
Transmission Distance	Up to 1200 m	
Operating Temperature	0°C ~ 55°C	
Relative Humidity	0% ~ 95%	
Dimensions (mm)	25 (L) × 67.5 (W) × 25 (H)	
Weight	65 g	
Cable Recommended	CAT 5 UTP Cable (Ø=0.5 mm)	
In Set Included	Main body, software drivers, USB cable for PC connection	





CAMA-I Series Camera Housings

Model	NVH-SDHKIT	NVH-SD10I	NVH-SD40EH-C
Туре	Adapter kit for suspended ceiling mount	Wall/in-ceiling mount indoor housing	Wall/in-ceiling mount outdoor housing
Construction Material	Plastic, steel	Aluminium, steel	Aluminium, steel
Housing Color	Black	Beige	Beige
Bubble	N/A	Acrylic, clear	Acrylic, clear
Heater	N/A	N/A	Yes
Fan	N/A	Yes	Yes
Degree of Protection	N/A	N/A	IP 66
Mount Type	Suspended ceiling mount	Wall or in-ceiling mount	Wall or in-ceiling mount
Power Supply	N/A	24 VAC	24 VAC
Power Consumption	-	6 W (Fan On)	Max. 53 W (Heater & Fan On)
Operating Temperature	N/A	N/A	-45°C ~ 50°C
Dimensions (mm)	130 (Ø) x 140 (H)	235 (Ø) x 320 (H)	234 (Ø) x 278 (H)
Weight	0.55 kg	3.6 kg	2.9 kg
In-set Included	N/A	Bracket for wall/in-ceiling mount	Sunshield

Speed Dome Mounting Accessories

NVB-SD40CB

In-ceiling mount aluminium bracket for NVH-SD40EH-C housing, load capacity 6 kg, length 400 $\,\mathrm{mm}$

NVB-SD40WB

Wall mount aluminium bracket for NVH-SD40EH-C housing, load capacity 6 kg, dimensions: $288 \text{ mm} \times 140 \text{ mm}$

NVB-SD40PWB/230

Wall mount aluminium bracket for NVH-SD40EH-C housing, load capacity 9 kg, dimensions: $270 \text{ mm} \times 194 \text{ mm}$, power supply: 230 VAC/24 VAC

NVB-30CA

Corner mount aluminium adapter for NVH-SD30EH and NVH-SD10I housings

NVB-30PA

Pole mount aluminium adapter for NVH-SD30EH and NVH-SD10I housings

NVB-CM10C

In-ceiling mount aluminium bracket for NVC-MSD10C CAMA-mini, load capacity 5 kg, length 394 mm

NVB-CM10W

Wall mount aluminium bracket for NVC-MSD10C CAMA-mini, load capacity 5 kg, dimensions: 260 mm x 205 mm





Camera Housings

Model	NVH-100H	NVH-150H	NVH-200H	NVH-250H	NVH-300H
Туре	Outdoor camera housing	Outdoor camera housing	Outdoor camera housing with semi-cable-managed mounting bracket	Outdoor camera housing with fully-cable-managed mounting bracket	Outdoor camera housing with fully-cable-managed mounting bracket
Construction Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Housing Color	Beige	Beige	White	White	White
Heater	Yes	Yes	Yes	Yes	Yes
Sun Protection	Sunshield	Sunshield	Shade	Shade	Sunshield
Degree of Protection	IP 66	IP 66	IP 66	IP 67	IP 67
Power Supply	12 VDC/24 VAC, 230 VAC	12 VDC/24 VAC, 230 VAC	230 VAC	230 VAC	230 VAC
Operating Temperature	-30°C ~ 50°C	-30°C ~ 50°C	-40°C ~ 50°C	-40°C ~ 50°C	-40°C ~ 50°C
External Dimensions (mm)	410 (L) x 113 (W) x 106 (H)	400 (L) x 140 (W) x 112 (H)	390 (L) x 114 (W) x 124 (H)	450 (L) x 135 (W) x 140 (H)	415 (L) x 150 (W) x 125 (H)
Camera Mount Dimensions (mm)	260 (L) x 76 (W) x 72 (H)	240 (L) x 100 (W) x 75 (H)	230 (L) x 90 (W) x 70 (H)	250 (L) x 105 (W) x 80 (H)	230 (L) x 100 (W) x 60 (H)
Weight	1.25 kg	1.4 kg	2.5 kg	3.65 kg	3 kg
In-set Included	Main body, L-wrench, mounting screws	Main body, mounting screws	Main body, bracket, L-wrench, mounting screws	Main body, bracket, L-wrench, mounting screws	Main body, bracket, L-wrench, mounting screws
		1			

Camera Mounting Accessories

NVB-02B

Plastic camera bracket, load capacity 3 kg, length 125 mm

NVB-03B

Plastic camera bracket, load capacity 3 kg, length 145 mm

NVB-09DB WHITE, NVB-09DB BLACK

Plastic mini-dome camera bracket, wall mount, load capacity 3 kg, length 126 mm, color: black or white

NVB-15DB

Wall mount aluminium bracket for NVC-HC400VP & NVC-HDN400VP Series vandal proof cameras and NVC-HC220DVF dome camera, outdoor, load capacity 15 kg, dimensions: 294 mm x 156 mm

NVB-100B

Aluminium bracket for NVH-100H and NVH-150H Series aluminium housings, load capacity 15 kg, length 226 mm





Accessories

Dummies	NVD-10B Mini-dome dummy camera, black, diameter 100 mm	
- 1	NVD-10W Mini-dome dummy camera, white, diameter 100 mm	
	NVD-100B Dome dummy camera, black, diameter 113 mm	Au .
	NVD-100W Dome dummy camera, white, diameter 113 mm	
Others	NV-RC370 Remote control for NVC-HC370HZL-2 & NVC-HDN370HZL-2 All-In-One	000
	NV-001MIC High sensitivity microphone: • Audio output: 1 x RCA, max. 2.0 V _{p-p} • Bandwidth: 20 Hz ~ 16 kHz • Output impedance: 10 kOhm • S/N ratio: more than 60 dB • 45 cm power/audio cable • Power supply: 12 VDC • Power consumption: 120 mW • Operating temperature: -10°C ~ 45°C • Dimensions (mm): 14 (Ø) x 500 (L) with 45 cm cable • Weight: 35 g	
	NV-DVR1104/CD VGA CARD VGA module for NV-DVR1104/CD: • Monitor output: 1 x VGA • Resolution modes: 640x480, 800x600, 1024x768, 1280x1024 • Frequency modes: 56 Hz, 60 Hz, 70 Hz, 75 Hz	
	NV-DVR1108/1116/CD VGA CARD VGA module for NV-DVR1108/CD i NV-DVR1116/CD: • Monitor output: 1 x VGA • Resolution modes: 640x480, 800x600, 1024x768, 1280x1024 • Frequency modes: 56 Hz, 60 Hz, 70 Hz, 75 Hz	







System overview NV-DVR1004 LITE





System overview NV-DVR1004, NV-DVR1004NET









System overview NV-DVR1104/CD, NV-DVR1108/CD, NV-DVR1116/CD









System overview NV-DVR5004 4 Video Inputs Main Monitor (VGA) Twisted-pair Main Monitor (BNC and/or S-Video) Transmission Vandal Proof Cameras RS Day/Night Cameras CAMA-mini VIDEO IIII RS-485 RS-232 RS-422 USB NV-KBD60 External HDD or Flash Memory NV-KBD30 **External Device** (Access Control, POS, ATM etc.) External CD-RW Alarm Inputs Alarm Outputs Audio Inputs Ethernet IRAS Network Software iMAP Network Software (...)













Professional solution for your CCTV systems

NOVUS® products are manufactured with attention to quality and handling comfort, but also with great care for the safety of their users. For this reason each component of NOVUS® CCTV systems meets the stringent norms applicable in the European Union (CE, WEEE, RoHS), as well as on the territory of the Russian Federation (GOST-R).



European certificate of conformity (CE) guarantees that all NOVUS® products fulfill the demanding safety and quality regulations binding for electric and electronic equipment in United Europe.



NOVUS® products have been designed and constructed in compliance with the RoHS (2002/95/EC) directive limiting the use of hazardous substances in electric and electronic equipment. Completed tests guarantee that the appliances do not contain such substances in quantities that could negatively influence human health or natural environment.



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