

user's manual  
instrukcja obsługi



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**NVM-317LCD**  
**NVM-319LCD**

**NOVUS<sup>®</sup>**



# user's manual



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## WARNINGS

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### EMC (2004/108/EC) and LVD (2006/95/EC ) Directives

#### CE Marking



Our products are manufactured to comply with requirements of following directives and national regulations implementing the directives:

- Electromagnetic compatibility EMC 2004/108/EC.

- Low voltage LVD 2006/95/EC with further amendment. The Directive applies to electrical equipment designed for use with a voltage rating of between 50VAC and 1000VAC as well as 75VDC and 1500VDC

### WEEE Directive 2002/96/EC



Information on Disposal for Users of Waste Electrical and Electronic Equipment

This appliance is marked according to the European Directive on Waste Electrical and Electronic Equipment (2002/96/EC) and further amendments. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. It shall be handed over to the applicable collection point for the waste electrical and electronic equipment for recycling purpose.

For more information about recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.



### RoHS Directive 2002/95/EC

Concerning for human health protection and friendly environment, we assure that our products falling under RoHS Directive regulations, regarding the restriction of the use of hazardous substances in electrical and electronic equipment, have been designed and manufactured in compliance with mentioned regulation. Simultaneously, we claim that our products have been tested and do not contain hazardous substances exceeding limits which could have negative impact on human health or natural environment.

### Information

The device, as a part of professional CCTV system used for surveillance and control, is not designed for self installation in households by individuals without technical knowledge.

The manufacturer is not responsible for defects and damages resulting from improper, or inconsistent with user's manual, installation of the device in the system.

Prior to undertaking any action that is not provisioned for the given product in its user's manual and other documents delivered with the product, or that arises from the normal application of the product, its manufacturer must be contacted or the responsibility of the manufacturer for the results of such an action shall be excluded.

**1. Important Safeguards and warnings:****SAFETY PRECAUTIONS:**

1. Operate this unit only from the type of power source indicated on the label.
2. Do not block or cover ventilation openings on the back or bottom of the monitor housing.
3. Do not place this monitor near a radiator or heating vent.
4. Do not push objects of any kind through housing openings. This may result in fire or electrical shock.
5. Before adding attachments always ask a service technician to perform routine safety tests to determine that equipment is in safe operating condition. Ground potential tests should be part of the routine safety check conducted by the service technician.
6. Do not place monitor on an unstable cart, stand, or shelf where it may fall and injure personnel or damage equipment.
7. Route power cords so that they cannot be walked upon or tripped over. Do not allow anything to rest on the power cord.
8. Do not install monitor in wet areas, or where it may be exposed to rain or water. Do not spill liquid of any kind on the unit.
9. Unplug the power cord from the unit before cleaning the screen. Use only a damp cloth. Do not use alcohol, spirits, or ammonia to clean the screen.
10. Refer all servicing to qualified service personnel.  
REMOVAL OF BACK COVER BY UNAUTHORIZED PERSONNEL MAY EXPOSE THE USER TO DANGEROUS VOLTAGES OR OTHER HAZARDS.
11. Unplug the unit immediately and notify the service technician:
  - If liquid has been spilled onto the screen or the screen has been exposed to rain or water.
  - If the unit has been dropped or the housing damaged.
  - If fuses continue to blow.
  - If the power cord is damaged or frayed.
  - If a distinct change from normal operation is visible.

When replacement parts are required, be sure that the service technician uses components specified by the manufacturer which have the same characteristics as the original parts.

**UNAUTHORIZED SUBSTITUTIONS MAY RESULT IN FIRE, ELECTRICAL SHOCK OR OTHER HAZARDS.**

Upon completion of any service or repairs, ask the technician to perform safety checks to determine that the equipment is in safe operating condition.

**WARNING**

**SERIOUS SHOCK HAZARDS EXIST WITHIN THE COVERS OF THIS MONITOR.  
DO NOT OPEN THE COVERS UNDER ANY CIRCUMSTANCES,  
THERE ARE NO USER SERVICEABLE COMPONENTS INSIDE.**

**Notice: Data included in the following user's manual is up to date at the time of printing. Novus Security Sp z o.o. holds exclusive rights to modify this manual. The producer reserves the rights for device specification modification and change in the design without prior notice.**

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**SPECIFICATION****2. Specification:**

- High resolution TFT LCD color monitor.
- Digital 3D comb filter for sharp and clear picture with natural colors
- Screen diameter 17" and 19".
- Multilanguage OSD.
- Video input: VGA, S-Video, 2 x CVBS.
- Automatic detection of signal format (NTSC / PAL).
- Audio input RCA, Jack
- Internal speakers.
- Power supply: 12 VDC (power supply unit in-set included 100~240 VAC/12 VDC )

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Model	NVM-317LCD	NVM-319LCD
Panel type	17" TFT color LCD panel	19" TFT color LCD panel
Screen size (Diagonal)	431 (mm)	480 (mm)
Resolution	580 TVL	
Viewable size (mm)	337.9 x 270.3	376.3 x 301.6
Dot pitch (mm)	0.264 x 0.264	0.297 x 0.297
Viewing angle (L/R/T/B)	80°/80°/80°/80°	85°/85°/85°/70°
Contrast ratio	400:1	500:1
Brightness	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Display color	16.7 mln	
Response time	8 ms	
Video input	2 x BNC for CVBS input 1 x VGA 1 x mini-din 4pin for S-Video	
Audio	Audio input	stereo input 1Vp-p/1kHz
	Speaker	2 x 1.0 W
Set-up	Multilanguage OSD menu	
Operation system	PAL/NTSC (Auto scan)	
Power supply	12 VDC (power supply unit in-set included 100~240 VAC/12 VDC )	
Power consumption	40 W	
Operating temperature	5° ~ 40°C	
Case	black plastic	
Dimensions (mm)	370 (W) x 390 (H) x 190 (D)	420 (W) x 420 (H) x 190 (D)
Weight	3.5 kg	4.5 kg

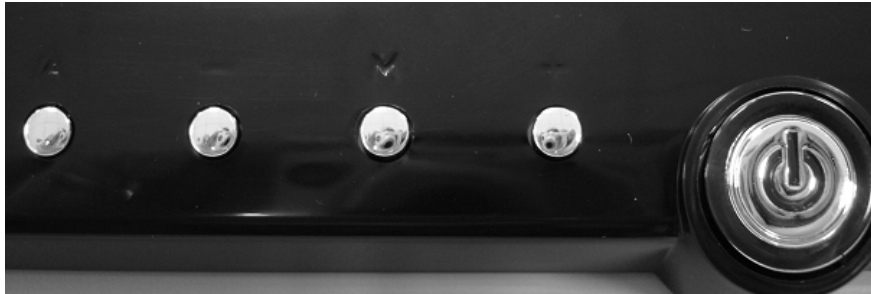
## FRONT PANEL AND CONNECTORS

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### 3. Front panel and connectors

Front panel:



**A            -            M            +            POWER**

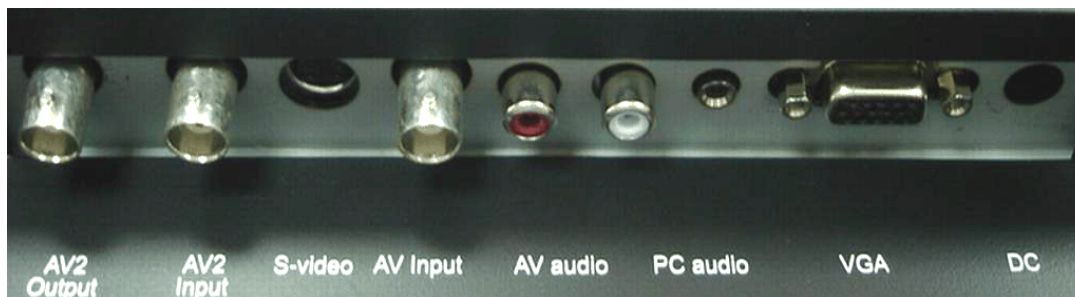
- Button **A** - select video signal input **PC** (VGA), **AV1**, **SV** (S-Video), **AV2**, during menu navigation selection confirmation.
- Button „-” - volume control, during menu navigation move cursor up or increases the adjusted value.
- Button **M** - display OSD menu, during menu navigation goes back to the higher menu level.
- Button „+” - automatic display mode adjust, during menu navigation moves cursor down or decreases the adjusted value.
- Button „**POWER**” - turn on / turn off the monitor.

The **POWER** button backlight

- Green - power on
- Orange - stand by mode
- Flash orange - sleep mode

## FRONT PANEL AND CONNECTORS

### Connectors



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- 1) **DC** - 12VDC power input
- 2) **VGA** - VGA input
- 3) **PC AUDIO** - audio input enabled when **VGA** input is selected
- 4) **AV AUDIO** - audio input enabled when **AV INPUT** or **S-VIDEO** input is selected
- 5) **AV INPUT** - video input - CVBS signal
- 6) **S-VIDEO** - video input - S-Video signal
- 7) **AV2 INPUT** - video input 2 - CVBS signal
- 8) **AV2 OUTPUT** - video input 2 - **AV2 INPUT** loop-through

Audio signal connected to the **PC AUDIO** input is sent to the speakers only when **VGA** video input is selected.

Audio signal connected to the **AV INPUT** input is sent to the speakers when **AV INPUT** or **S-VIDEO** input is selected.

If you select **AV2 INPUT** no audio signal is sent to the speakers.

## OSD MENU

### 4. OSD Menu

To display the monitor OSD menu press the M button. Use “-” (up), “+” (down), “A” (select) and “M” (cancel) buttons to navigate the monitor menu.



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#### Color menu

- Contrast** - contrast adjustment within the range of 0 ~ 100
- Brightness** - brightness adjust in the range of 0 ~100
- Color Adjust** - color components adjustment (Red, Blue, Green) within the range of 0 ~ 255 - this menu position is enabled only for **VGA** video input.
- Color Temp.** - color temperature selection - **9300**, **6500**, **5800**, **sRGB** (standard RGB) or **USER** (user setting adjusted in the **Color Adjust.** position) - this menu position is enabled only for **VGA** video input.
- Saturation** - saturation adjustment within the range of 0 ~ 100 - this menu position is enabled for **AV1**, **AV2** and **S-Video** input.
- Hue** - hue adjustment within the range of 0 ~ 100 - this menu position is enabled for **AV1**, **AV2** and **S-Video** input.
- Back** - go back to the main menu

#### Image Settings menu

- Clock** - clock frequency adjustment - this option can be used to widen / tighten the picture to fit the monitor screen - this menu position is enabled only for **VGA** video input.
- Phase** - clock phase adjustment - this option can be used to noises reduction and picture sharpening - this menu position is enabled only for **VGA** video input.
- Sharpness** - sharpness adjustment within the range of 0 ~ 4 (**VGA**) or 0 ~ 15 (**AV1**, **AV2** or **S-Video**)
- Back** - go back to the main menu

**Position menu**

- H. Position** - picture horizontal position adjustment within the range of 0 ~100 (**AV1**, **AV2** and **S-Video**) and 0 ~ 200 (**VGA**)
- V. Position**↑↓ - picture vertical position adjustment within the range of 0 ~100 (**AV1**, **AV2** and **S-Video**) and 0 ~ 68 (**VGA**)
- H. Size** - picture horizontal size adjustment within the range of 0 ~100 - this menu position is enabled for **AV1**, **AV2** and **S-Video** input.
- V. Size** - picture vertical size adjustment within the range of 0 ~50 - this menu position is enabled for **AV1**, **AV2** and **S-Video** input.
- Back** - go back to the main menu

**OSD Menu menu**

- OSD H. Pos.** - OSD menu horizontal position adjustment within the range of 0 ~ 200
- OSD V. Pos.** - OSD menu vertical position adjustment within the range of 0 ~ 200
- OSD Timer** - OSD menu display time adjustment within the range of 0 ~ 27 (0 stands for menu closing after 3 seconds of inactivity while 27 means closing after 30 seconds)
- Back** - go back to the main menu

**Language Menu**

- English** - set OSD menu language to English
- Francais** - set OSD menu language to French
- Deutsch** - set OSD menu language to German
- Espanol** - set OSD menu language to Spanish
- Polski** - set OSD menu language to Polish
- Русский** - set OSD menu language to Russian
- Türkce** - set OSD menu language to Turkish

**Misc. Menu**

- Signal Source** - select video source - **PC** (**VGA**), **AV1**, **AV2** i **SV** (**S-Video**) - this function is also available directly from front panel by pressing "A" button.
- Volume** - audio signal level adjustment (currently sent to the speakers) - this function is also available directly from front panel by pressing "-" button.
- Reset** - set the default monitor settings.
- Back** - go back to the main menu

## MONITOR FREQUENCY TABLE

### 5. Monitor frequency table

Scanning frequency for different monitor display modes.

No.	Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
1	640x400@70	31.46	*	VGA
2	640x480@60	31.5	59.940	VESA
3	640x480@72	37.9	72.809	VESA
4	640x480@75	37.5	75.000	VESA
5	720x400@70	31.46	*	VESA
6	800x600@60	37.9	60.188	VESA
7	800x600@72	48.1	72.000	VESA
8	800x600@75	46.9	75.087	VESA
9	1024x768@60	48.4	60.004	VESA
10	1024x768@70	56.5	70.069	VESA
11	1024x768@75	60.0	75.029	VESA
11	1024x768@75	65.0	75.029	VESA
12	1280x1024@60	64.0	60.000	VESA
13	1280x1024@75	80.0	75.025	VESA

\* - the frequency has to be manually adjusted by a user so that the image takes up the whole screen.



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