user's manual

NVR-5304POE





IMPORTANT SAFEGUARDS AND WARNINGS

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

CE 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, were designed and manufactured in compliance with mentioned regulation. Simultaneously, we claim that our

products were 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 resulted from improper or inconsistent with user's manual installation of the device in the system.

ATTENTION!

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 SHELL BE EXCLUDED.

IMPORTANT SAFEGUARDS AND WARNINGS

- 1. Prior to undertaking any action please consult the following manual and read all the safety and operating instructions before starting the device.
- 2. Please keep this manual for the lifespan of the device in case referring to the contents of this manual is necessary;
- 3. All the safety precautions referred to in this manual should be strictly followed, as they have a direct influence on user's safety and durability and reliability of the device;
- 4. All actions conducted by the servicemen and users must be accomplished in accordance with the user's manual;
- 5. The device should be disconnected from power sources during maintenance procedures;
- 6. Usage of additional devices and components neither provided nor recommended by the producer is forbidden;
- 7. You are not allowed to use the device in high humidity environment (i.e. close to swimming pools, bath tubs, damp basements);
- 8. Mounting the device in places where proper ventilation cannot be provided (e. g. closed lockers etc.) is not recommended since it may lead to heat build-up and damaging the device itself as a consequence;
- 9. Mounting the device on unstable surface or using not recommended mounts is forbidden. Improperly mounted device may cause a fatal accident or may be seriously damaged itself. The device must be mounted by qualified personnel with proper authorization, in accordance with this user's manual.
- 10. Device should be supplied only from a power sources whose parameters are in accordance with those specified by the producer in the devices technical datasheet. Therefore, it is forbidden to supply the devices from a power sources with unknown parameters, unstable or not meeting producer's requirements;
- 11. You cannot allow any metal objects get inside the recorder. It might cause serious damage. If a metal object gets inside the device contact the authorised Novus service immediately.
- 12. The manufacturer does not bear responsibility for damage or loss of data stored on HDDs or other media occurred during the usage of the product.

Due to the product being constantly enhanced and optimized, certain parameters and functions described in the manual in question may change without further notice.

We strongly suggest visiting the www.novuscctv.com website in order to access the newest manual.

Technical changes reserved without prior notice and printing errors possible.

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FOREWORD INFORMATION

1. FOREWORD INFORMATION

1.1. Network recorder's technical data

Network Camera	up to 4 channel in resolution 1920x1080(video + audio)
Camera/Protocol suport	NOVUS, ONVIF, RISP
Monitor Output	Main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA,
Audio Output	1 x Line out
Dualstreaming support	Yes*
RECORDING	
Compression	H.264, MJPEG
Resolution	Up to 1920 x 1080
Speed	Up to 120 fps (4 x 30fps for 1920 x 1080 and lower)
Streams Size	Up to 20Mb/s for the system
Recording Mode	Time-lapse, Event (Alarm, Motion detection), manual
Schedule	Individual settings for: each day, each hour, each camera, possibility of combining individual recording modes
Prealarm/postalarm	0 s - 30 s/5 s - 600 s
DISPLAY	
Resolution	Up to 1920 x 1080
Speed	Up to 120 fps (4 x 30fps)**
PLAYBACK	
Speed	Up to 120 fps (4 x 30fps for 1280 x 960 and lower) Up to 30 fps (1 x 30fps for 1920 x 1080)
Recorded Data Search	By date/time
васкир	
Methods	USB port (HDD or Flash memory), network
File Format	AVI
STORAGE	
Internal HDD	Installing 1 HDD 3,5" SATA
Total Capacity	4 TB
Total Capacity ALARM	4 TB
Total Capacity ALARM Camera Input/Output	4 TB Support camera's alarm input*
Total Capacity ALARM Camera Input/Output Motion Detection	4 TB Support camera's alarm input* Support camera's motion detection*
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE ONVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 0NVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100/ Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100/ Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100/ Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth	4 TB Support camera's alarm input* Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 0NVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPV4, UPNP, UDP, SMTP, NTP, DNCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ	4 TB Support camera's alarm input* Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mb
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions	4 TB Support camera's alarm input* Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mb
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 1 x Ethernet - RJ-45 socket, 10/100 Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit/s + 4 x Ethernet - RJ-45 socket, 10/100/ Mbit
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RI-45 socket, 10/100 Mbit/s + 4 x Ethernet - RI-45 socket, 10/100/ Mbit with IEEE 802.3 af POE 0NVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system Pan, tilt, zoom, preset * 2 x USB 2.0
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB OPERATING SYSTEM	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function UNVIF C.2./Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system Pan, tilt, zoom, preset * 2 x USB 2.0
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB OPERATING SYSTEM Operating mode	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function tx Ethernet - RI-45 socket, 10/100 Mbit/s + 4 x Ethernet - RI-45 socket, 10/100/ Mbit with IEEE 802.3 af POE ONVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system Pan, tilt, zoom, preset * 2 x USB 2.0 triplex
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB OPERATING SYSTEM Operating mode OSD	4 TB Support camera's alarm input* Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function tx Ethernet - RI-45 socket, 10/100 Mbit/s + 4 x Ethernet - RI-45 socket, 10/100/ Mbit with IEEE 802.3 af POE ONVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system Pan, tilt, zoom, preset * CX USB 2.0 CX USB
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB OPERATING SYSTEM Operating mode OSD Control	4 TB Support camera's alarm input* Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RI-45 socket, 10/100 Mbit/s + 4 x Ethernet - RI-45 socket, 10/100/ Mbit with IEEE 802.3 af POE ONVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPV4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system Pan, tilt, zoom, preset * 2 x USB 2.0 triplex Polish, English and others PC mouse (in-set included), network
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB OPERATING SYSTEM Operating mode OSD Control System Diagnostic	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RI-45 socket, 10/100 Mbit/s + 4 x Ethernet - RI-45 socket, 10/100/ Mbit with IEEE 802.3 af POE ONVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system Pan, tilt, zoom, preset * 2 x USB 2.0 triplex Polish, English and others PC mouse (in-set included), network Automatic control of HDDs, network, network cameras lost
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB OPERATING SYSTEM Operating mode OSD Control System Diagnostic Security	4 TB Support camera's alarm input* Support camera's alarm input* Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RI-45 socket, 10/100 Mbit/s + 4 x Ethernet - RI-45 socket, 10/100/ Mbit with IEEE 802.3 af POE ONVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for IPhone, Android) Up to 4 connections / up to 20Mb/s for the system Pan, tilt, zoom, preset * Cameration of HDDs, network Automatic control of HDDs, network, network cameras lost Password protections, IP filtering, MAC filtering
Total Capacity ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB OPERATING SYSTEM Operating mode OSD Control System Diagnostic Security INSTALLATION PARAMETERS	4 TB Support camera's alarm input* Support camera's motion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RI-45 socket, 10/100 Mbit/s + 4 x Ethernet - RI-45 socket, 10/100/ Mbit with IEEE 802.3 af POE ONVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system Pan, tilt, zoom, preset * Pan, tilt, zoom, preset * Polish, English and others PC mouse (in-set included), network Automatic control of HDDs, network, network cameras lost Password protections, IP filtering, MAC filtering
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Total Capacity ALARM ALARM Camera Input/Output Motion Detection System Reaction to Alarm Events NETWORK Network Interface Network Protocols Support PC Software Smartphone Software Number of Connections/Bandwidth PTZ Functions AUXILIARY INTERFACES USB OPERATING SYSTEM Operating mode OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm) Weight Power Supply Power Consumption Operating Temperature	4 TB Support camera's alarm input* Support camera's notion detection* Buzzer, E-mail with attachment, output activation, screen message, recording activation, PTZ function 1 x Ethernet - RI-45 socket, 10/100 Mbit/s + 4 x Ethernet - RI-45 socket, 10/100 / Mbit with IEEE 802.3 af POE ONVIF (2.2/Profile S), RTSP, HTTP, TCP/IP, IPv4, UPNP, UDP, SMTP, NTP, DHCP, DNS, DDNS, FTP Internet Explorer MEye, MEyePro (for iPhone, Android) Up to 4 connections / up to 20Mb/s for the system 2 x USB 2.0 3 x USB 2.0

* Function capability depends on used communication protocol, for details please check full user manual.

** Available with using dual streaming mode

FOREWORD INFORMATION

1.2. Main characteristics

NVR-5304POE

- Up to 4 video and audio channels for network cameras
- Support ONVIF and RTSP protocol
- Recording speed up to 120 fps for 1920 x 1080
- Supported resolution up to 1920 x 1080
- Monitor output: HDMI, VGA,
- Support 1 HDDs 3,5" inside

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WARNING!

ONVIF protocol support was verified with IP cameras based on ONVIF ver. 2.2 and compatible with the "PROFILE S".

Implementation of the ONVIF protocol by different manufacturers may vary by some functions, which can make them work improperly or not in accordance with expectation. AAT HOLDING Company is not responsible for incompatibility problems resulting from cameras of other brands than NOVUS, which are using ONVIF protocol. If you are using ONVIF protocol cameras other than NOVUS brand it is recommended to test for each time whether required functions work correctly.

1.3. Package contents

Unpack the device carefully. After unpacking, please ensure that package contains the following items:

- Network Video Recorder: NVR-5304POE
- Power supply 48VDC with cord
- USB Mouse
- Accessory bag with screw
- User's manual (short)
- CD with a full version of user's manual and software tools and software

If any of the elements has been damaged during transport, pack all the elements back into the original packaging and contact your supplier.



* for future usage

Note:

Back panels bottom USB port is shared with USB port at front panel (it is the same port), so you cannot use both ports at the same time.

2.2 HDD mounting

Novus NVR support 1 internal SATA HDD.

WARNING!

In order to find information regarding the compatible models of HDDs and their maximum capacities, please contact Novus distributor or check the information presented at www.novuscctv.com. AAT HOLDING Company is not responsible for any problems resulting from using not recommended hard drives.

The list of compatible HDDs contains all the HDDs that can be used with a given DVR including HDDs designed for office use - so called desktop disks. However, due to the fact that reliability of the recording process and data safety are paramount factors of any CCTV system, we strongly advise to use HDDs designed for continuous (24/7) operation.

You need to format disks to if they were used in a different device. All data saved on HDD prior to format will be lost .

In order to mount HDD, please unscrew two screws on the NVR back side as depicted below and remove top cover





Move cable tapes to the top, insert HDD under the cable and place HDD in dedicated place.



Move NVR to the side holding HDD by hand, and screw it tightly. Then connect the power cable and data cable to the disk





Install the top cover on the NVR and screw it back.

2.3. Connecting power adapter.

Please connect provided DC 48V adaptor in the rear power port of the NVR like depicted below.



To start the unit turn on the power switch on back panel. Initialization lasts for approximately 60 seconds. During this time executing any device functions and pressing any buttons is prohibited. To shut down the device please use the menu.

CAUTION:

Make connection when the power is not applied.

Do not place the power cord under the carpet or rug. The power cord is usually earth-grounded. However, even if it's not earth-grounded, never modify it on your own for earth-grounding.

Make sure that power adapter is placed near of NVR and secured from accidental disconnection.

CAUTION:

If the device was brought from a location with lower temperature, please wait until it reaches the temperature of location it is currently in. Turning the device on immediately after bringing it from a location with lower ambient temperature is forbidden, as the condensing water vapour may cause short-circuits and damage the device as a result.

2.4. Connecting monitor

This product supports following interfaces for main monitor: HDMI, VGA.

For HDMI and VGA outputs following resolutions are supported: 800x600, 1024x768, 1280x1024, 1366x768, 1440x900, 1920x1080

After changing resolution you have to confirm it by clicking YES. In case of monitor does not display anything please wait 8 seconds, then previous resolution will be restored.

Note:

You can use the HDMI <> DVI converter to connect to the DVI monitor.

HDMI cable and HDMI<>DVI converter it's not included and you have to buy it separately.

2.5. Camera and Network wiring

NVR-5304 POE has 4 bulid-in RJ-45 ethernet ports with PoE support which can be used for connecting cameras. By using Ethernet cables connect the cameras and NVR to the switch, like on image below. Please notice that the Ethernet connection is effective within 100 meter distance.



Before adding any camera to the NVR, you have to configure its network settings like it is described in Camera User Manual. For the next steps of camera and network configurations please check chapter 3.4. Startup configuration.

Note:

To ensure recording stability from an overloaded network traffic, or unauthorised access, it is strongly recommended to create separate network secured by router firewall from the user network.

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NOVUS NVR

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NVR OPERATING

2.6. Peripheral device connection

• Connecting audio ports

Audio output signal normally are above 200mV 1k Ω . You can connect the low impedance earphone, or power amplifier with the external speakers.

• Connecting USB devices

NVR has 2 x USB 2.0 ports for external Flash memory, mouse connection and other USB compatible devices. 2 USB ports (1x independent and 1x shared) are located at back panel and 1 USB port at front panel.

Note:

Back panels bottom port is shared with port at front panel (it is the same port), so you cannot use both ports at the same time.

3. NVR OPERATING

3.1. Front panel description



- **1. LED** Shows power, recording, network connection or active alarm statuses.
- 2. USB USB 2.0 port for external Flash memory and mouse connection.

3.2. Controlling via USB mouse

It is possible to control NVR via an USB mouse connected to the USB port. Double-clicking on any camera in 2x2, 3x3 display mode switches the display to full-screen mode. Subsequent double-click returns to previous display mode. Move cursor to the top or click the right key of mouse to bring up MAIN MENU and select START icon.

Certain positions allow to select them via mouse scroll. Depending on NVR operating mode, pressing RMB displays a corresponding function menu.

3.3. System operations

To start NVR plug power cable and switch on power button. The power led turns on. After booting, the video output default to multi-window output mode.

By default NVR is using English language interface.

To change language please follow the procedure like below:

- Move cursor to the top or click the right key of mouse to bring up MAIN MENU
- Select START icon $\stackrel{\clubsuit}{\uparrow}$ and click the LOGIN icon $\stackrel{\clubsuit}{\rightharpoonup}$ to pop out the login menu:



• Select User "admin", leave password blank and confirm with *OK* button.

Default login is "admin" / no password.

• From the MAIN MENU click DISPLAY icon _____, following window will be shown:

	Dir	play Setting		×
Language	English			
AutoLogout	0			- Minute
TV Adjust		Setting		
Display		Setting		
⁶ Resolution	1366_768(60HZ)			
🔲 Enable SEQ				
Rotation Interval	5			(=)
			ОК	Cancel

• In LANGUAGE menu select preferred language.

NVR OPERATING

- Save changes by clicking OK button
- New confirmation window will appear, choose YES to confirm

Now NVR will start again with new language.

To manipulate or access menus of the NVR, you should log in again. Move cursor to the top or click the right key of mouse to bring up MAIN MENU and select START icon

Next click the LOGIN icon $\stackrel{>}{>}$ to pop out the login menu:



Select User and enter the password . Use the virtual keyboard to enter the password and confirm with *OK* button.

Default login is "admin" / no password. For safety reasons, it is recommended to change default user name and password.

In order to shutdown NVR you should move cursor to the top or click the right key of mouse and select START icon \uparrow . Next click the POWER OFF icon \circlearrowright . After that use disable button at rear panel to turn off the power.

To prevent unauthorized access, it is recommended to log out when you leave the screen. To do that move cursor to the top or click the right key of mouse and select START icon $\stackrel{\frown}{\frown}$. Next click the LOGOUT icon $\stackrel{\frown}{\frown}$.

Note:

When user is not login or has limited rights all inactive icon and menus are greyed out.

CAUTION:

If you turn off the system in an abnormal manner such as removing the power cord while the system is working, the disk will acquire or increase the numbers of bad sectors, causing data loss and shortened life cycle of the disk.

3.4. Startup configuration

Prior to using NVR for the first time, initial setup is strongly advised. Before you connect the IP cameras to the NVR, please set up network and stream parameters of IP cameras in the right way.

Note:

For suggested values for IP camera setting please refer to the "Cameras Capability Table - appendix A" which is an integral part of this manual. If you will set wrong values some problems may appear: the NVR cannot search the IP camera, the stream cannot be connected, the image is not fluent, the image quality is bad and so on.

To configure NVR please follow procedure like below:

- I. From the MAIN MENU click DISPLAY icon 🖵 and set following parameters
 - LANGUAGE allow to select preferred language
 - **RESOLUTION** select the resolution most corresponding to the used monitor.
- II. From the MAIN MENU click SETTING icon \bigcirc and go to the SYSTEM section. Select HDD SETTING tab and check the hard drive. If it is unformatted you have to select it and press FORMAT button.
- III. From the MAIN MENU click SETTING icon \bigcirc and go to the DEVICE section. Select DEVICE INFO tab and set following parameters:
 - DEVICE NAME allow to add unique name for NVR
 - VIDEO FORMAT PAL or NTSC
 - STREAM TYPE depending on used cameras you have to chose correct mode from the list

For eg. in mode 2x[1920*1080] + 2x[1280*720] + sub[960*576] + 1Ref + 4Play

Channel 1 and 2 support 1920*1080, channel 3 and 4 support 1280*720, channel 1-4 sub streams support 960*576 resolution. 4Play means that there is possible to playback for 4 channels at once. 1Ref is internal buffer capacity.

- DEVICE TIME set up correct time and date and confirm by pressing MODIFY button
- IV. From the MAIN MENU click SETTING icon \bigcirc and go to the NETWORK section. Select NETWORK SETTING tab and set following parameters:
 - IP (by default it is 192.168.1.188)
 - SUBNET MASK (by default it is 255.255.255.0).

Note:

Be sure that IP addresses and subnet mask of the NVR and the IP cameras are in the same network subnet (e.g. for the NVR IP address 192.168.1.188, and mask 255.255.255.0 appropriate address for the camera ranges from 192.168.1.1 to 192.168.1.254, for example 192.168.1.201). It is not allowed to set the same addresses for multiple devices.

NVR OPERATING

Optionally if you are going to connect NVR to the Internet (for remote access, sending email, etc) set up

- DEFAULT GATEWAY,
- FIRST and SECOND DNS.

You can alternatively check DHCP mode (DHCP server is required in this method in target network) then all settings will be set up automatically. When you use DHCP server check IP address lease and its linking with NVR MAC address to avoid changing or losing IP address during device operation or network/DHCP server breakdown. This solution is not recommended for security systems.

V. From the main window click the RMB and choose IP CHANNEL SETTING>MANUAL



Then following window appears:

			IP Channel Betting		
G11 10°	Search	and the second second second second			
D 1		Search	All		
2	0.5 Printical	Part Denne Maler		IP E	
23				Subnet Mask	
24				Default Gateway	
				DNS1	
				DNS2	
					Modify
	Channel				
	Channel	Channel2			Enable
	Protocol	Onvid			
	IP				
	Port	80			
	Stream Type	Main Stream			
	Network Type	тср			
	Play Mode	Smooth			
	User Name	root			
	Password	•••			
Delete					Copy To

To connect the IP cameras to the NVR you can find them automatically or type IP address manually.





To add required camera to the system TICK it on the list. Selected camera will be added to first empty channel. CHANNEL LIST is displayed at left hand side. If you press ALL button, all available channels will be connected with camera from the list.

If you would like to remove camera added to one of the channels please select it at CHANNEL LIST "A" and press DELETE button "B" below:

					IP Channel Setting		×	
-01-09 157	-CH 280 ☑ 1 192 168 3.11	Search Se	arch		All			
	2 192 168 3 19	1	- Physical Street		- The second second			
	3 192 168 3 16		omi	0.0	stmil device	Subnet Mask		
	V 192-168.3/17	E4192 168 3 15	Onvit	80	envit device	Default Gateway		
×		192 168 3 16	Onvif	80	onvit device	DNS2		
		192 168 3 17	Onvit	80	onvit device		Modify	
A /		Channel Channel Cha	nnel2				Enable	
		IP 192	168 3 15	_				
		Port 80						
		Stream Type Main	n Stream					
Β 🔨		Network Type TCP					<u></u>	
		Play Mode Smo	oth	_				
		Password		_				
	Delete						Copy To	
	1						Save Exit	

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VII. Next you have to fill user name and password for each camera that you add to the NVR.

Please double click at CHANNEL LIST "A" or select required channel from the CHANNEL dropdown menu "B". Next check if all settings for this channel are correct, fill username and password "C" and confirm by using SAVE button. Now you can select next channel from the dropdown menu.

				IP Channel Setting		×
CH IN	Search		-			
1 192 168 3 11	S	earch		All		
2 192 168 3 15		Z Probabilit	- Dise	C. Come Game	IP III	
3 192 168 3.16	192168.3.11	Onvil	00	anviil davies	Subnet Mask	
4 192 168 3 17	192 168 3 13	Onvif	80	envit device	Default Gateway	
	3192 168 3 15	Onvif	80	onvif device	DNS1	
	192 168.3.16	Onvit	80	onvit device	DNS2	
	2192 168.3.17	Onvif	80	onvit device		Modify
	Channel					
	Channel Cha	annel1				Enable
	Protocol On	rif				
	192 192	A1683311	_			
	Stream Tune Ma	In Planar				-
	Network Type Ma	n oream				
	Play Mode Sm	noth				
	User Name		N.			
	Password	1 2 3 4	15161	7 8 9 0 1 D		

If you set up the same user name and password and other parameters for all cameras you can simply type them and save for first channel, and then press COPY TO button, select required channels to copy them and confirm by OK button. Note that IP address is unique and doesn't copy.

2								
_								
01-09 15		-		IP Channel Bet	ling		×	
- cu	105	Search		-				
2 1	192.168.3.11	Jean		- Har				
2	192,168,3,15	10- Z.	Protected 1		e iP			
2 3	192.168.3.16	192.168.3.11	Omii 60	simil device	Subnet	Mask		
E 4	192 168 3 17	192 168 3 13	Onvi	Сору То.	a ult	Gateway		
		2192 168 3 15	Onv			_	-	
		2192.168.3.16	On		R 2	_		
		2192 168 3.17	On 🖾 All				Modify	
		Channel		•				
		Channel Chann	-11				Enable	
		Protocol Onvif	121	2 U 3	₩ 4			
		IP 192.16	283					
		Port 80						
		Stream Type Main S	tree .	0	K Cancel			
		Network Type TCP						
		Play Mode Smoot						
		User Name real						
		Pattword						
							Come To	
	Delete						Copy 10_	
							Save Exit	
								٩

After finishing following procedure NVR is ready to use.

Additionally you should create user accounts for each operator.

For event recording you should set up motion/alarm setting in the camera and modify SCHEDULE RECORDING and MOTION in the NVR.

For event notification you should set up motion/alarm setting in the camera, configure NETWORK SETTING for using Internet and EMAIL SETTING

4. NVR MENU

4.1. Live monitoring

Novus network video recorders features a multilingual OSD menu allowing for adjusting the settings of the device. Available languages are: English, Polish, and others

As soon as the NVR completes its initialization process, it will enter the real-time monitoring image. Displaying all cameras simultaneously is the default mode. If you move mouse to the top MENU BAR will be shown. At the right corner of screen, shows the logged user and alarms status. In the bottom right corner of each channel image, shows capture and recording icon, zoom mode and alarm icon.



After login in, click the right key of mouse to bring up the MAIN MENU interface. You can also move mouse cursor to the window top display MENU BAR, which contains basic menu functions.

ltem	lcon	Description
Power Off	\bigcirc	Click to turn off the
Reboot		Click to reboot the NVR
Login /Logout	-	Click to login/logout the system
Lock menu bar	F	Click to stay menu bar always visible

Click \Uparrow icon to pop out the menu showed below:

NVR MENU

Click the right key of mouse to bring the MAIN MENU bar

ltem	lcon	Description
Playback		Move to the playback screen, which allow to search and watch recordings.
Backup		Allow to copy recording files to the USB external storage.
PTZ		Move to the PTZ screen. You can control the PTZ operations of a PTZ-compliant camera on the PTZ screen.
Capture	0	Capture picture on any preview channel.
Alarm		Display the list of the recent alarms and recording events.
File manager		Allow to manage the capture pictures and backup files in the external storage device.
Setting	0	Enter to the NVR setup
Record		Allow to quick change of recording mode
Display Setting	ł	Set up language, screen resolution and other parameters
Image settings	N	Menu allow to adjust image parameters for selected channel
lp Channel Setting	P	Bring up sum-menu responsible for IP cameras and time settings.
Split Screen		Selects a split screen mode.
Start	*	Bring up sum-menu responsible for NVR maintenance.

4.2. Searching and playing recorded video

To start the PLAYBACK MENU click () icon. Then following window appears:



1. From the CHANNEL SELECT tick the channel which you want to search the recording, it will auto search the recording .

2. Change the date from the calendar and press SEARCH button to find records for selected date.

You can identify the type of the recording data by the color in the bar.

- Blue (Continuous) : continuous recording data.
- Red (Alarm) : alarm event recording data.
- Yellow (Motion) : motion event recording data.
- Pink (Motion or Alarm) : motion or alarm event recording data.
- Azure (Motion & Alarm) : motion and alarm event (when occurs in the same time) recording data.
- Green : data originating from manual recording.
- 3. To play the searched data simply double click a desired point on "Timeline" or press PLAY button.

NVR MENU

Description of playback buttons:

- Pause/Play: pause the current playback image.
- Stop: Stop the playing video.
- Slow: Slow down the playback speed. (there are: 1/2, 1/4, 1/8, 1/16 times)
- Fast: Accelerate playback. (there are: 2, 4, 8, 16 times)
- Snapshot: You can capture picture in any playback channel.
- Backup: You can backup the recording of any channel.

4.3. Backup

User may copy recordings to external storage devices or through the network. The NVR features the possibility of copying the recordings to an external HDD connected via the USB, onto Flash memories. NVRs allow to copy the recordings in following formats: AVI.

To start the BACKUP MENU click 💾 icon. Then following window will shown

	Back	up	
Channel	All		
From	2014-1-9 0:00.1	00	-
To	2014-1-9 23:59	:59	
Backup to		Refre	1h
File Type	() 18	Ø AVI	
File Size			
Process	1		

Insert USB storage

device, click Refresh to detect the USB device. If the USB device is recognized normally, it will be displayed in the list, then select following:

- Select a required channels
- Select a date range filling FROM and TO range.
- Set the desired USB device for the backup.
- Choose the required file format.

Press START button, process bar will move forward until reaches 100%.

When it finish press UNMOUNT button and remove USB device.

4.4. PTZ

PTZ button opens new window which allows to control the operations of a selected PTZ camera.

To start the PTZ click $\overline{\bigcirc}$ icon. Then following window will shown



Use it to adjust the pan, tilt, zoom and focus of the camera. You can also run and set Preset etc.

Note: Not every camera model and network protocol allow to control camera remotely.

4.5. Alarm

You can check the alarm log for events of particular interest.

Click ALARM icon \triangle to display the "ALARM" window. The list is sorted with the latest events being on the top.



Use DEFENCE OFF button to disable alarm temporary. CLEAR ALARM button will remove all alarms from the list.

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NVR MENU

4.6. Capture

If you would like to save some single image from camera click **o** icon at the preview channel can capture the channel image. Image file will be stored at hard disk.

Note:

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Capture works only with cameras supporting this functions.

4.7. File manager

Menu allows to search and watch for the images captured manually, as well as delete or export them to a storage device. In this menu user can also search the storage device for the archived data and check the details of it or playback records.

Click FILE MANAGER 🧾 icon to open following menu:



The default status is to show the capture image stored in the hard disk. To search images, select required channel, choose the date and press REFRESH button

When need to playback the recording file or image from the external device, please click dropdown box to select the USB device from the drop-down list and search for files like previously.

The file list column will show the file in the USB and captured image file on the NVR.

Setting menu allow to configure various NVRs parameters.

5.1. Device menu allows to check NVR information and configure the settings of date/time, system management, and peripheral device.

5.1.1. Device Info - check and modify the basic information of the NVR

4-01-09 15:58:44			Setting	×	
	Device	Device Name			
	Channel	DeviceID	0		
	Alarm	Record Replace	Replace		
	Account	Record Time(Hour)		Enable	
	System	Panel Version	01	Remote	
		RS405	PTZ		
		Device Serial No.	01541010692e0b56d134	QR Code	
		Channel Number	4		
		Alarm Input Number	0		
		Alarm Output Number	0		
		HDD Number			
		Video Format	PAL		
		Stream Type	4x[1920*1080]+sub[950*576]+4Ref.+1Play		
		Protocol	Setting		
		Device Time	2014-1-9 15 56 39	Modity	
		Time Format	24-Hour		
		Date Format	YYYY-MM-DD Year Month Day		

Following function are available:

- Device name set device name
- Device ID set up device unique number for remote controller
- Record Replace if set to REPLACE, the existing data will be overwritten by newly recording data if the HDD free storage space is exhausted. If the option is set to STOP RECORD and the HDD is full, NVR will stop recording and notify via beep depending on the ALARM setting.
- Record Time if ENABLE is on the available records will be limited by provided amount of hours.
- Panel Version define front panel hardware version, do not modify it.
- RS 485 set up functionality of RS485 interface
- Device info: contains current system information: Serial number, Channel, Alarm input, Alarm output, HDD number
- Video Format switch between PAL and NTSC
- Stream Type depending on used cameras you have to chose correct mode from the list

For eg. in mode 2x[1920*1080] + 2x[1280*720] + sub[960*576] + 1Ref + 4Play

Channel 1 and 2 support 1920*1080, channel 3 and 4 support 1280*720, channel 1-4 sub streams support 960*576 resolution. 4Play means that there is possible to playback for 4 channels at once. 1Ref is internal buffer capacity.

- Protocol enable / disable various IP cameras protocols.
- Device Time set up current time and date, confirm by MODIFY button.
- Time and date format allows to select different time and date formats

5.1.2. System Version - menu contains current system version info and hardware version

4-01-09 15:57:14		Setting	×	
	Device Device Info. Bystem Version PTZ Setting DST Setting			
	Channel Network Alarm Account Bystem	Master Version V4.8(20131228)		
		Hardware Version V4.0		
			OK Cancel Apply	

5.1.3. PTZ setting - configure the settings of the port for remote controller and peripheral devices.

		Setting	×	
Device Device Info System Version	Channel	Channel1		
DST Setting Channel	Bits per second	50		
Network Alarm Account System	Stop Bits	1		
	Parity	None	-	
	Flow Control Protocol	None		
	PTZ address	p		
			Copy To	
	PTZ address		Copy To	

- 01- 09 15: 58: 02		Setting	×	
	Device Device Info. System Version PTZ Setting DBT Betting Channel	Enable Daylight Saving Time		
ħ	Network Alarm Account System	From January 📑 1 Week	📕 Bun. 📑 B 🚍	
		To January 🚺 1 Week	Sun. 24 📑	
		DST Bias 30minutes		
			OK Cancel Apply	

5.1.4. DST setting -user can specify the DST (Daylight Saving Time) settings.

To ensure proper operation, set FROM time as last Sunday of March, 1:00 AM UTC. Clocks are moved forward at time defined in DST Bias. Set the TO time as last Sunday of October, 1:00 UTC. The clocks are moved back at time defined in DST Bias.

5.2. Channel - menu allow to configure camera settings, recordings parameters, alarm and motion events.

5.2.1. Display setting - configuration of camera image and display parameters.

		Setting X	
Device Channel	Channel	Channel1	
Display Betting	🖾 Show Name		
Schedule Record	Local Camera Name	CH01	
Video Lost	Show Name		
Tampering Alarm Video Mask	Camera Name		
Network Alarm	Show Date		
Account Bystem	Date Format	24-nour	
	USD Pasidon	acting	
	Image Setting	Setting	
	Sensor		
		Сару Те.	
		OK Cancel Apply	

After selecting channel following parameters are available:

- Local Camera Name: You can modify the name and visibility for the specified channel .
- Camera Name: Allow to modify the OSD name and visibility of it remotely in camera, associated to the selected channel.

- Time and date format allows to select different time / date formats and enable visibility of it remotely in camera, associated to the selected channel.
- OSD Position: menu allows to select any position for the OSD remotely in associated camera.
- Image settings: user can set the brightness, contrast, saturation and hue remotely in associated camera.
- Sensor: set up various parameters remotely in camera, associated to the selected channel.

Note:

Not every camera model and network protocol allow to change all camera settings remotely.

58:43	C			
			Setting	×
	Device Channel	Channel	Channell	
	Display Setting Video Parameters	Encoding Type	Main Stream	
	Schedule Record Motion	Stream Type	Video & Audio	
	Video Lost Tampering Alarm	Resolution	HD720P(1280*720)	
	Video Mask Network	Bitrate Type	VBR	
	Alarm Account	Bitrate	Self-Define(15-16000kbps)	
	aystem		2000kbp+	
		Frame Rate	Full Frame(25/30)	
		Video Quality	Highert	
		I Frame Interval	30	=
			Сару Та	
		*	OK-	Annie

5.2.2. Video Parameters - setting of streams parameters for every channel.

After selecting CHANNEL and ENCODING STREAM following parameters are available:

- Stream type: select between Video or Video&Audio.
- Resolution: there is list of resolution available for current camera
- Bitrate type: select between CBR(constant) and VBR(variable).
- Bitrate: compression value for camera's current stream
- Frame Rate: select different value from the drop-down list, the default value is "Full Frame".
- Video Quality: select different image quality as needed (for VBR mode).
- I Frame interval: set the amount of frames for each I Frame.

By using COPY TO button you can copy current settings to other required channel.

Note:

Not every camera model and network protocol allow to change all camera settings remotely.

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		Retting		124	
Device	Channel	Channel1			
Channel	Enable Recording	🔲 All Day Re	cording Schedule		
Video Parameters	00-00-00-29(Double	click for detial) 8 10 12 14 1	5 18 20 22	24	
Schedule Record	Mon.				
Video Lost	Tue				
Tampering Alarm	Wed	an a			
Network	Thu.				
Alarm	Bat	*** *** *** *** *** *** *** ***			
System	Sun.				
	🕑 Schedule	Motion	2 Alarm		
k	🐼 Motion Alarm	Motion & Alarm			
	Record Time	Setting			
	Advanced	Setting			
وسيعت وستعملت والأ			Cepy To_		
				and the second se	

5.2.3. Schedule Recording - setting of different types of record plan for each channel.

After selecting CHANNEL following parameters are available:

- Enable Recording: Tick the checkbox will start recording.
- All Day Recording: For using one type of recording tick the checkbox and select one of following: schedule, motion, alarm, motion or alarm, motion and alarm. It will start all day recording based of selection you have done.

For using many type of recordings uncheck the checkbox and draw at schedule areas like is needed. It will start schedule recording based of current schedule. You can setup up to 8 separate time periods for each day/camera.

Color schedule description.

Blue (Continuous) : The continuous recording is performed on the recording data.

Yellow (Motion) : The motion event recording is performed on the recording data.

Red (Alarm) : The alarm event recording is performed on the recording data.

Pink (Motion or Alarm) : If motion or alarm event occurs then recording is performed on the recording data.

Azure (Motion & Alarm) : If motion and alarm event occurs in the same time then recording is performed on the recording data.

- Record Time: use it for advanced & precise schedule setting, by selecting days and typing times manually.
- Advanced: You can set the prerecord time and post record time.

By using COPY TO button you can copy current settings to other required channel.

5.2.4. Motion - menu allows to configure the built-in camera motion detection function.

A 🖵 🛡 🗘	o 🖻 🗳	A 📫 🗉	NoVus	🚺 User admin
CH03 2014-01-09 16:00:06			Betting X	
	Device Channel Display Setting Video Parameters Schedule Record	Channel	Channel1	
	Video Lost Tampering Alarm Video Mask Notwork Alarm	Area settings Sensitivity	Setting	
	Account Bystem	Arm Schedule	Off Low->High Setting	
		Linkage	Setting Copy To	
			OK Cancel Apply	
				Q ID

After selecting CHANNEL following parameters are available:

- Enable Motion Detection: Tick the checkbox will enable detection functionality.
- Area settings: select the motion detection area, press the left mouse button and drag to the area which you want to set motion detection, click OK.
- Sensitivity : set the sensitivity of detection
- Arm Schedule: set the time intervals when alarm is active.

🔺 🖵 😈 🌣	ò 🖰 🎽	i 🔺 📫		NoVus	🔒 Useradmi
сноз					
2014-01-09 16:00:17			Setting	×	
	Device Channel	Channel	Channell		
	Display Setting Video Parameter		Arm Schedule	×	
	Schedule Hecon Motion Video Lost	D 2 4 6 Mon.	8 10 12 14 16 18	20 22 24	
	Tampering Alarn Video Mask	Tue. Wed.			
	Network Alarm	Thu.			
	System	Sat			
		Sun.			
			() Arm		
			Setting OK	Cancel	
				Copy To.	
				OK Cancel Apply	
					Q 10

• Setting: use it for advanced & precise schedule setting, by selecting days and typing times manually.

• Linkage: select the reaction way for current which you need. Available reaction are: Audio warning (NVR internals buzzer), Email, Specified alarm output activation, Alarm on monitor and Alarm List, Trigger recording.

n 🖵 🔻 🌣	🕑 🖻 🗳 🗚	📫 🔳	NOVUS	🛔 Useradmin
103 114-01-09 18:00:28		Ratting		
	Device Channel Chana	nel Chan	nell I	
	Display Setting Video Parameter Schedule Becon	Linkege	×	
	Video Last	e 🔲 Audio Warning	🖸 Alarm On Monitor	
	Tampering Alarn Video Mask Network	🔲 Email Linkage	Upload to Center	
	Alerm Account Trigger Reco System	rding 🔲 All		
		□ 1	3 4	
			OK Cancel	
			Сору То	
			OK Cancel Apply	
				9.8

By using COPY TO button you can copy current settings to other required channel.

Note: Not every camera model and network protocol allow to change all camera settings remotely.

5.2.5. Video Lost - menu allows to define response of the NVR to video loss event on one of its video channels.

1-09 16:00:38			Setting		×	
	Device Channel Display Setting Videe Parameters Schedule Record Metion Videe Low Tampering Alarm Videe Mask Network Alarm Account System	Channel 12 Enable Video Los Arm Schedule Linkage	Channel1	Setting		
				Сору Те.		

- Enable Video Lost: Tick the checkbox will enable detection functionality.
- Arm Schedule: set the time intervals when alarm is active.
- Linkage: select the reaction way for current which you need. Available reaction are: Audio warning (NVR internal buzzer), Email, Specified alarm output activation, Alarm on monitor and Alarm List.

For detailed description of Arm Schedule and Linkage please check MOTION chapter.

5.2.6. Tampering alarm - menu allows to configure the built-in camera tampering detection function.

* 🖵 🛡 🌣	• 🖻 🗳	▲ 📫 🔳	NoVus	🚹 Useradmi
CH03 2014-01-09 18:00:58				
	Device		Soting X	
	Display Setting Video Parameters Schedule Record	Channel	Channel1	
	Motion Video Lost Tampering Alarm	🔽 Enable Video Tamperin		
	Video Mask Network Alarm	Area settings	Setting	
	Account System	Arm Schedule	Setting	
		Linkage	Setting	
			Сору Те	
		×	OK Cancel Apply	
				Q. #

After selecting CHANNEL following parameters are available:

- Enable Video Tampering: Tick the checkbox will enable detection functionality.
- Area settings: select the detection area, press the left mouse button and drag to the area which you want to set, click OK to confirm.
- Arm Schedule: set the time intervals when alarm is active.
- Linkage: select the reaction way for current which you need. Available reaction are: Audio warning (NVR internals buzzer), Email, Specified alarm output activation, Alarm on monitor and Alarm List.

For detailed description of Arm Schedule and Linkage please check MOTION chapter.

Note:

Function available in the future.

Not every camera model and network protocol allow to change all camera settings remotely.

	0 🗎 🎬	🔺 📫 🔳	NoVus	🛔 User admin
CH03 2014-01-09 18:01:20	Device Channel Display Setting Vise Darameters Bichedule Record Metion Vise Lott Tampering Alarm Network Alarm Asarm System	Channel Cha Enable Video Mask Area settings	net!	L User admin
			OK Cancel Apply	

5.2.7. Video Mask - menu allows to define masking zone on selected video channels.

After selecting CHANNEL following parameters are available:

- Enable Video Mask: Tick the checkbox will enable detection functionality.
- Area settings: select the masking area, press the left mouse button and drag to the area which you want to set, click OK to confirm.

Note:

Function available in the future.

Not every camera model and network protocol allow to change all camera settings remotely.

5.3. Network - menu allow to configure network parameters of the device including email, DDNS and NTP setting .

5.3.1. Network setting - configuration of basic network parameters of the device. Following parameters are available:

		Setting X	
Device	NIC		
Network	IP	192.168.1.188 DHCP	
Network Setting	Subnet Mask	255 255 0 0	
NTP Setting	Default Gateway	192.168.1.1	
Email Setting Management Plat	First DNS	202.210.230.255	
Alarm	MAC	09.24.06.56.41.24	
Alarm Input Alarm Output			
Exception	-		
Account System	Bemote Port	KOSO	
	HTTP Port	88	
	Multicest	238,255,255,255	
	Enable Wi-Fi		
	Eastle 20		
	Energy and		
· · · · · · · · · · · · · · · · · · ·		Advance	
		OK Cancel Apply	

- NIC Type: selection one of network interface (if additional network interfaces available).
- IP: enter the IP address. When the DHCP box is checked, the sub-fields: IP address, gateway, subnet mask, primary DNS server, secondary DNS server will be filled in automatically. When DHCP is off, user has to type fixed IP address and fill other network parameters. Using a fixed IP is recommended in order to achieve stable network operation.
- Subnet Mask: Enter the corresponding IP subnet mask.
- Default Gateway: Enter the corresponding gateway address.
- First/Second DNS: Enter the domain name servers IP address.
- MAC: Display the MAC address for current network interface
- Default route : chose the default network interface (if additional card available).
- Remote Port: enter port number used for sending data to the web browser or client software.
- HTTP Port: enter port number used for connecting to the NVR by web browser.
- Multicast: enter the corresponding multicast address.
- Enable Wi-Fi *: Tick the checkbox to enable and click "Wi-Fi" button to enter the setting interface. To enable Wi-Fi you have to connect a supported USB Wi-Fi card.
- Enable 3G *: Tick the box before "Enable 3G", click "3G" to enter the setting interface. To enable 3G you have to connect a supported USB 3G modem.

* Wi-Fi and 3G functionality will be available in the future.

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• Advance: additional menu contains:

CHO3			
014-01-09 18:01:58	Advance	×	
	Device Channel Network Network Network DONS 6: NTP Get User Name Email Sc Manager Manager Marger Alarm In Alarm In Alarm Sc Excepting Password Arcsount		
	System Confirm Password	OK. Cencel	

- Enable PPPOE: you can enable the PPPOE service: Input the PPPOE user name, password dynamic address of the device
- Enable UPnP feature: will enable UPnP discovery function

Note:

Correct settings of IP address and subnet mask are necessary for proper operation of an IP camera. Defining gateways and DNS servers is necessary for using the camera outside the local network.

5.3.2. DDNS setting - configuration of Dynamic DNS service

		Setting	×	
Device Channel Network	Enable DDNS			
Network Setting DDN8 Setting NTP Setting	Server Type	Dyndna		
Email Setting Management Platf_ Alarm	Server Name	members.dyndns.org		
Alarm Input Alarm Oulput Exception	Port	80		
Account System	User Name			
	Confirm Password			
•	Demain			
	Dumain			
			UK Cancel Apply	
	Channel Network Setting DOME Setting TOME Setting Email Setting Management Platf. Alarm Alarm Output Exception Account System	Channel Network Network Betting DDNB Sening Email Setting Management Platt. Alarm Input Alarm Input Account System Domain	Channel Channel Network Berver Type DDNS Seming Berver Type DDNS Seming Berver Type NTP Geting Berver Name Management Platt. Bo Alarm Part Alarm Bo Account User Name System Confirm Password Domain Domain	Channel Enable DDNB Network Setting Server Type Dyndns DDNE Senser Server Type Dyndns Maragement Plaing Server Name members.dyndns.org Maragement Plaing Server Name members.dyndns.org Alarm Input Port B0 Alarm Output Exception Ascenunt System Password Domain Domain Domain Domain

- Enable DDNS: Tick the checkbox will enable detection functionality.
- Server Type: Allows to select a DDNS server that will be used in the DVR

- Server Name and Port: values are set automatically after selecting Server Type
- User Name: requires entering the user's name registered in the DDNS database.
- Password requires entering the DDNS-registered password.
- Domain requires entering hostname, that was registered in selected DDNS server.

Note:

Although the DVR supports dynamic IP addresses, it is advised that DDNS support should be performed at the local router that DVR is connected to.

Prior configuration attempt please register the address in one of the DDNS servers supported by the device - www.dyndns.org server is advised.

Prior to configuring the DDNS please contact the network administrator in order to obtain proper network parameters that are entered in this menu.

5.3.3. NTP setting - configuration of network time synchronization

CH03 2014-01-09 18:02:24						
	×	Device Channel Network DDNS Setting DDNS Setting Management Platf. Alarm Alarm Output Exception Account System	Carrier Address Server Address NTP Part Update Frequency Select Time Zane GMT	Besting 123 2 (OMT+11:00)Selemen Islands 12 Hour 45 12	Minute 🖸 Adjust	Minute Apply

- Enable NTP: Tick the checkbox will enable detection functionality.
- Server Address: set up required NTP server address
- NTP Port: set up required NTP server port (default is 123)
- Update Frequency: input the time interval needed to be adjusted
- Select Time Zone: choose the time zone valid for yours localization.
- GMT: allow to Daylight Saving Time adjustment, select ADJUST to enable.



5.3.4. Email setting - menu responsible for Email account configuration

- Email Address: input the sender email address.
- Password: input the sender email password.
- PWD Confirm: confirm the password.
- SSL: tick to enable SSL authorization.
- Attachment: tic to add an image attachment to the email.
- Receiver: double click in selected field and type name and email address of the receivers (max 3).
- Delete : button to remove selected user and email address from the list.
- Interval: select the minimum time interval for sending emails.
- SMTP Server: input the SMTP server address.
- Port: input the SMTP server port.

Note:

Some email servers can block the email sending if the email delivery cycle is too short, and classify it as spam. Contact your email service provider to adjust the minimum delivery cycle so that the server does not classify the email as spam

5.3.5. Management platform - menu responsible for configuration of remote management service.

Note:

Feature available in the future

5.4. Alarm - menu allow to define various events, and specify the conditions to notify the user.

5.4.1. Alarm input - configuration of the alarm sensor and specify the operation of the sensor if an event occurs.

4-01-09 16:03:09			Betting		×	
	Device Channel	Alarm Input	1			
	Network Network Setting DDNS Setting	IP address	192 168 3 11			
	NTP Setting Email Setting Management Platf	Alarm Name	AlarminPort01	-		
	Alarm Alarm loput Alarm Output	Alarm Status	Normally Open		D	
	Exception Account System	💟 Alarm Handle				
		Arm Schedule		Setting		
		Linkage		Setting		
	*				Copy To.	
				OK	Cancel Apply	

After selecting ALARM INPUT following parameters are available:

- IP address: display type of input, local mean internal in NVR, IP address number shows its camera alarm input.
- Alarm Name: you can specify the name of the alarm sensor
- Alarm Status: You can specify the type of the alarm sensor, N/O (Normal Open) or N/C (Normal Close)
- Alarm Handle: Tick the checkbox will enable reaction for current sensor.
- Arm Schedule: set the time intervals when alarm is active.

🔺 🖵 👅 🗘 .	🕑 💾 🎽	i 🔺	📫 🔲	NoVus	🔒 User admir
CH03					
2014-01-09 16:03:17			Settin	×	
	Device		AND IN THE OWNER		
	Network	Alarm I	nput 1 Arm Schede		
	Network Setting DDNS Setting	-			
	NTP Setting	Mon.	4 6 6 10 12		
	Management Pl.	Tue.			
	Alarm Input	Wed.			
	Alarm Output Exception	Fri.			
	Account	Sat			
	oynem	Sun.			
			🖾 Arm		
•					
				Copy Te.	
				OK Cancel Apply	

Setting: use it for advanced & precise schedule setting, by selecting days and typing times manually.

• Linkage: select the reaction way for current which you need. Available reaction are: Audio warning (NVR internals buzzer), Email, Specified alarm output activation, Alarm on monitor and Alarm List, Trigger recording, PTZ Linkage.

4-01-09 10:03:25			Setting		×	
	Device Channel	Alarm Input	1			
	Network Network Setting		Linkage	×		
	DDNS Setting NTP Setting	Trigger Mode	Audio Warning	Alarm On Monitor		
	Email Setting Management P		Emeil Linkage	Upload to Center		
	Alerm Inglat	Trigger Recording	All			
	Alarm Output Exception		1 2	3 4		
	Account System	PTZ Linkage	Channel	Channel1		
			NO Action			
				OK Cancel		
		•		Сору Т	0	
				OK Cancel	Apply	

By using COPY TO button you can copy current settings to other required channel.

Note:

Not every camera model and network protocol allow to change all camera settings remotely.

5.4.2. Alarm output - configuration of the alarm output and specify the behaviour of it.



After selecting ALARM OUTPUT following parameters are available:

• IP address: allow to assign internal alarm input or external if available.

- Delay: set the time reaction of it.
- Arm Schedule: set the time intervals when alarm is active.

For detailed description of Arm Schedule please check Alarm input chapter.

Note: Not every camera model and network protocol allow to change all camera settings remotely.

5.4.3. Exception - configuration of the alarm system events and specify the alarm reaction.

Device				
Channel Network Network Setting DDNS Setting NTP Setting	Event Type	HDD Full	•	
Email Setting Management Platt_ Alarm Alarm Input Alarm Output Ecouption	🔽 Alarm On Monitor			
Account System	🗖 Audio Warning			
	🗖 Upload to Center			
	Upload to Center			

Select EVENT TYPE and configure the reaction way for it which you need. Available types are:

- HDD Full: When there is no space in the HDD, it can trigger corresponding linkage type.
- HDD Fault: When there is HDD read and write fault alarm
- Network Broken: When there is network broken alarm.
- IP Address Conflict: When there is network IP conflict alarm.
- Illegal Access: When there is illegal access alarm.
- Video Signal Exception: When there is video signal abnormality.

Available reaction are: Audio warning (NVR internals buzzer), Specified alarm output activation, Alarm on monitor and Alarm List.

5.5. Account - menu allows to configure the settings regarding user management, as well as user and group permissions

5.5.1. Account Setting - You can add a user accounts and set up various permissions of them.



To add a user account:

- Click ADD USER at the bottom of the screen.
- In new window please provide following values:

🔺 🖵 👅 🌻 🕑 🗎 😭	🖆 🚹 🔟 📃 🛛 No V usi 🧧	Useradmin
CH03		
2014-01-09 18:08:47	Setting X	
Device Channel Network Alarm	Northeast County Country Official States	
Account Account User Online	User Name default	
System	Password Confirm Password	
	User Type Guest	
	OK Cancel	
	User Privilege Delete User Add User Madily User	
	OK Cancel Apply	
		Q. 10

- User Name : enter user name.
- Password / Confirm Password: enter the password.
- User Typa: select a group that user belongs to: OPERATOR, GUEST, NONE.
- IP/MAC combine: provide IP address and MAC value for limiting access from network.
- When done, click OK.

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To set up a user privilege:

- Select user on a list and click USER PRIVILEGE button.
- In new window please choose required access values for local and remote operation.

		User Privilege		×	
Device Channel	Local PTZ	Upgrade and Format	Local Playback		
Alarm	Local Manual Recording	Local View			
Account	Local Playback	Local IP Device	2		
System	Local Perameter Setting	🔲 Local Backup			
	Local Log Query	Local Reboot and Shutdown			
	Remote PTZ	. Remote Preview	Remote Playback		
	Remote Manual Recording	g 🔲 Arm Software and Output			
	Remote Playback	🔲 Remote Backup	21		
	Remote Parameter Setting	🛛 🔲 Control Serial Port Remote	2		
	Remote Log Query	Remote View	23		
	Remote Upgrade and For	n 🔲 Remote IP Device	P ⁴		
	Voice Intercom	Remote Reboot and Shutd	•		
			ок	Cancel Jodity User	
	-				

• When done, click OK.

To modify a user information:

- Select user on a list and click MODIFY USER button.
- In new window please modify required values.
- When done, click OK.

To delete a user information:

- Select user on a list and click DELETE USER button.
- In new window please confirm deleting user by YES.

To apply changes, click OK or APPLY button at the bottom of the screen.

5.5.2. User online - menu display information about local / remote user which are currently logged in.



5.6. System - menu allows to configure the HDD, system management, and peripheral device.

5.6.1. Device Log - You can search the logs according to different types and different date and time, as shown in the above picture.

4-01-09 16:09:42	()						
	Device Channel	Main Type of Log Sub Type:	All Type				
	Alarm	From	2014-1-9 0	00:00		Search	
	System Device Log	10	2014-1-9 23	3.59.59	_	Export	
	Stream Info.	1 15 54 32	Alarm	Motion Detection End	1	The supervised in the local division of the	
	Update	15:54:45	Alarm	Motion Detection Begin	1		
	Auto Reboot	15:54:57	Alarm	Motion Detection End	1		
	Necovery Consigning	15:55:41	Operation	Enter setting		admin	
		15 56:38	Operation	Enter setting		admin	
		15 58 58	Alarm	Motion Detection Begin	1		
		15:59:26	Alarm	Motion Detection End	1		
		15:59:32	Operation	Local Setting		admin	
		16.01.21	Operation	Local Setting		admin	
						1.1	
			<		192	> >>	
			-	OK		Cancel Apply	

- Main Type of Log: there are All Type, Alarm, Exception and Operation for selection.
- Sub Type: according to different main types, there are corresponding sub types for selection.
- From: and To: you can select start and end time of a log you want to search.
- Search: press to display list of logs
- Export: allow export the log you have searched.
- Navigation buttons: allow to move pages

5.6.2. Stream Info - menu display information about cameras stream parameters

*	Ţ	$\overline{}$	٥	€	B	*					C	NoV	US	<u>Q</u> Useradmi
CH03 2014-0	1- 09 10	: 09: 51	0	De Chi Aia Act Byi	rice annel work rm sount tem Device Leg Evene Teto HDD Settin Update Auto Reboo	9 A Anonfigur.		2040(kb/s) 2040(kb/s) 4052(kb/s) 0(kb/s) 4183(kb/s)	Betting 653(bb/s) 588(bb/s) 0(bb/s) 1122(bb/s) - - - - - - - - - - - - -	Backet and a second and a	288(MB/H 258(MB/H) 258(MB/H) 493(MB/			2 User admi
							<u> </u>				ок	Refresh Cancel	Apply	
														Q R

<complex-block><complex-block><complex-block>

5.6.3. HDD Setting - menu allow to format the HDD and view the HDD capacity, the free space and status etc

Format - format the hard disk. Note that formatting the HDD will delete all video data and logs.

5.6.4. Update - menu responsible for upgrading NVR firmware

To update firmware :

- Please connect the USB storage device that contains the update files placed in a root directory.
- Click BROWSE button.
- Select the correct file from the list with ".update" extension.

in 🖓 🖓	🕑 🗎 🎬	🛦 📫 🔲	NoVus	🛔 Useradmin
CH03 2014-01-09 18:10:12				
	Device Channel			
	Network Alarm Account	Upgrade File	Browse	
	System Device Log Stream Info			
	HDD Setting Update Auto Reboot		Upgrade	
	Recovery Configur_		Cancel	
			OK Cancel Apply	
				19.00

- Click UPGRADE
- The progress bar displays the progress of the firmware upgrade process.
- When the upgrade is complete press OK reboot the system.

Caution:

Please contact your local distributor prior to software upgrade.

Power outage, turning the device off or removing the Flash memory during update may result in damage to the NVR and a necessity of service repair.

The producer isn't responsible for any data loss resulting from firmware update.

5.6.5. Auto reboot - menu allow to set auto reboot feature, with selected frequency.

CH03 2014-01-09 18:10:19			Setting	×	
	Device Channel Network Alarm Account System Device Log Biream Infa HOD Setting Update Recovery Configur-	Maintenance Mode:	Dirable		
			OK .	Cancel Apply	

Available values are:

- Every day: please select hour and minute in MAINTENANCE TIME
- Every Week: please select:
 - day of weeks in WEEKLY SHEDULE
 - hour and minute in MAINTENANCE TIME
- Once: please select a specific date and time in MAINTENANCE TIME



5.6.6. Recovery configuration - menu responsible for saving and restoring default NVR settings

- Export Configuration: Save NVR settings to a storage device, connected to the USB port.
- Import Configuration: Load settings from a storage device connected to the USB port to the NVR
- Default: Return NVR settings to the factory default.

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CH01 2014-01-09 15:53:00					CHOZ				
	N (Re	cord			×	
		Channel							
		Close							
		Manual							
CH03	The second s	Schedule Rec	ord 🔽 All	V	E.		1		
						_	ж	Exit	
				9.6					

5.7. Record - menu allows to quick change of recording behaviour.

From the MAIN MENU click icon and set following parameters:

Close - disable any recording at each of selected channel.

Manual - enable continuous manual recording at each of selected channel.

Schedule Record - allow to record depending of schedule setting for at each of selected channel.

5.8. Display Setting - Menu allow to select language, adjust screen colors and resolution, etc.

1 🖵 😈 🔅		🗎 🖆 🖌	🛝 📫 🔳		No V us	
CH01				Сног		
2014-01-09 15 52 14				Display Setting	X	
		Language	English			
	12	AutoLogout	0		Hinute	
		TV Adjust		Setting		
		Display		Setting		
CH03		Resolution	1366_768[60HZ]		•	લ =
		Enable SE	2			
		Rotation Inter	ral <u>5</u>		 (i)	
	I.				OK Cancel	
				Q. 10		Q. 10

From the MAIN MENU click \Box icon and set following parameters

Language - allow to select preferred language.

Auto Logout - time interval for auto log out.



TV adjust - calibration of output video size and location.

Display - settings of brightest, contrast, saturation and other monitor values.



Resolution - select the resolution most corresponding to the used monitor.

Enable SEQ - tick will enable camera image sequence.

Rotation Interval - time interval of camera image sequence.

5.9. Image Setting - Menu allow to adjust image parameters for selected channel

♥ ♥ ♥ 🗎 🖆	i 🔺 📫 🔲	NoVus	🚊 Uzer admin
CH02 2014-01-18 14:40:43			
	Image Setting CH2	×	
	Brightness	0	
	Contrast		
	Saturation C	168	
	Hue		
		OK Detault	
			Q. IR

From the MAIN MENU click icon and set parameters for selected camera image. Available parameters are brightest, contrast, saturation and hue.

Note:

Not every camera model and network protocol allow to change all camera settings remotely.

5.10. IP channel Setting

5.10.1. Manual - menu allow to add and manage IP cameras connection.

Note:

For suggested values for IP camera setting please refer to the "Cameras Capability Table - appendix A" which is an integral part of this manual. If you will set wrong values some problems may appear: the NVR cannot search the IP camera, the stream cannot be connected, the image is not fluent, the image quality is bad and so on.

From the MAIN MENU click IP icon and and choose MANUAL



Then following window will shown:



To connect the IP cameras to the NVR you can find them automatically or type IP address manually. *Note: Camera IP change functionality will be available in the future.*

• SEARCH PANEL - use it for search and add cameras to the NVR.

Press SEARCH button to find all cameras present in network. After some time cameras list will appear.



To add required camera to the system TICK it on the list, then camera will be added to first empty channel. If you press ALL button then all available channels will be connected with camera from the list.

• CHANNEL LIST allow to manage cameras currently added to the system.

15				IP Channel Setting		×
201 240	Search		-	(20)	-	
1 192 168 3 11	50	arch		All		
2 192 168 3.15	and the second	A. Danker		- Internet Based	IP	
3 192 168 3 16	C1924688341	Omii	00	armit device	Subnet Mask	
☑ ≤ 192-108.3.17	192 168 3 13	Onvif	80	onvit device	Default Gateway	
	2192 168 3 15	Onvif	80	anvit device	DNS1	
	192 168 3 16	Onvif	80	onvit device	DNS2	
Y I	2192 168 3 17	Onvif	80	onvit device		Modify
	Channel					
	Channel Cha	nnel2				Enable
	Protocol Onv	if		والمحصول والشكوم والم	والمراجع المقاربين والمقارب والمتعاد	
	IP 192	168.3.15				
	Port 80		_			
	Stream Type Mai	n Stream				
	Network Type TCF					
	Play Mode Smi	poth	_			
	Oter Name	_	_			
	Pattword					
Delete						Cepy Te_
						The second se

If you would like to disable current channel please uncheck it at the list, connection with camera will be stopped intermediately.

If you would like to remove camera added to one of the channels please select it at CHANNEL LIST "A" and press DELETE button "B".

• CHANNEL SETTING WINDOW - allow to set up network connection parameters.

To modify network connections setting please double click at CHANNEL LIST "A" or select required channel from the CHANNEL dropdown menu "B".

CH02								
					IP Channel Setting		×	
2014-01-09 15:	CH IT	Search		-				
	1 192 168 3 11		Search		All			
	2 192 168 3 15		- Z - Panhara	1 I. I.	C. Come Band	li IP		
	3 192 168 3.16	192/168.9.11	Onvil	00	envil device	Subnet Mask		
	4 192 168 3 17	192 168 3.13	Onvif	80	envif device	Default Gateway		
		192 168 3 15	Onvif	80	onvif device	DNS1		
		192 168 3.16	Onvif	80	onvit device	DNS2		
		192 168.3.17	Onvif	80	onvif device		Modify	
		Channel						
B ——	>	Channel C	hannel1				Enable	
		Protocol C	Dovif		وتوافيهم والمرجا			
		IP 1	92 168 3 11	_				
		Port 1	0	_				
		Stream Type	Aain Stream					
		Network Type T	CP					
		Play Mode S	imooth					
		User Name	_	-				
		Password		156	789010			
	Delete		Caps a s	111			Cepy Te_	
			Shift z x			7	Save Exit	
			Ctrl Home	Alt	Left Ri	aht		
								Q, m

Next you have to modify connection parameters. Available setting are:

-Protocol - select required communication protocol from the list

- IP IP address of the camera
- Port Communication port

- For RTSP communication protocol enter IP address, RTSP port and stream PATH for main and sub stream.

- Stream Type select basic stream for watching and recording.
- Network Type select between TCP and UDP
- Play Mode select between smooth and real time video
- User Name camera user name
- Password camera password

Confirm all settings by using SAVE button.

• CAMERA IP CHANGE PANEL - function available in the future.

Note:

If you set up the same user name and password and other parameters for all cameras you can simply type them and save for first channel, and next press COPY TO button to copy it to other required channel.

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5.10.2. Synchronization time - Menu allows to manage remote camera time synchronisation to the local NVR time.

1 🖓 💭	• B	🖆 🔺		NOVUS	🤱 User admin
CH02 2014-01-16 15:13:45			Synchronizati	an line X	
			Automatic synchroniza Link synchronization Timing Time	hinn IV Enable Enable Enable <u>80.00.00</u>	
					Q 10

Following options are available:

- Automatic synchronisation cameras time will be adjusted each time when necessary.
- Link synchronization cameras time will be adjusted after successfully network link connections.
- Timing cameras time will be adjusted each day at selected hour.
- Time set time for camera synchronisation.

Note:

Not every camera model and network protocol allow to change all camera settings remotely.

5.10.3. Manual synchronization

Function responsible for manual time synchronization. I case of selecting it local time of cameras will be set up the same like in NVR.

5.10.4. Changing channel sequence

Drag to change channel sequence menu allow to change camera channel list order. TICK to enable function. Next, at split screen view drag the camera to the other one channel. Then both channels will be swapped.

After finish remove TICK from the menu

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6. NETWORK OPERATIONS UTILIZING WEB BROSWER

Network Video Recorder features the possibility of controlling video data using network connections and web browser (Internet Explorer is recommended).

6.1. Recommended PC specification for web browser connections

Requirements below apply to connection with an NVR, assuming smooth image display 4 channel in 1920x1080 resolution and 25 fps speed.

Operating System	Windows XP Professional, Vista Home Baisc / Premium, Windows 7			
Web browsers:	Internet Explorer 8.0 or later			
CPU	Intel Pentium Core 2 Duo 3,16 GHz or higher			
Memory	1024 MB or more			
Display	min. 16-bit 1280 x 1024 High Color			
Hard Disk Drive	50MB (space required for installing the web viewer software)			

6.2. Establishing a connection

- Open the Internet Explorer browser .
- To connect to the NVR check the Network Setting and verify the IP and HTTP Port of the NVR (by default, IP address is 192.168.1.188).
- Enter the address in the address bar (web browser) of the local PC or dedicated software program in the format: http://IP_address

(Ex : http://192.168.1.188) The web service port is set to 80 by default, if use other type address like: http://IP_address:web_service_port . From the Network Setting screen, you can change the port number. If login first time following window will be displayed:

Web Client - Windows Internet Explorer	800
🖉 🗢 🖉 http://192.168.3.1/	۹ -
ile Edit View Favorites Iools Help	
Favorites 🏉 Web Client	
lownloading dyr_setup exe please click here!)	2
File Download - Security Warning	
Do you want to run or save this file? Name: dvr_setup.exe Type: Application, 3.38MB From: 192.168.3.1 Bun Save Cancel	
While files from the Internet can be useful, potentially harm your computer. If you do nor run or save this software. What's the risk? The publisher could not be verified. Are you sure you want to software? Name: dvr_setup.exe Publisher	> run this
This file does not have a vaild digital signature that verifies its should only run software from publishers you trust. <u>How can software to run?</u>	: publisher. You I decide what
This file does not have a vaild digital signature that verifies its should only run software from publishers you trust. <u>How can software to run?</u>	: publisher. You I.decide what

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- Click the given link and press Run button. If security warning window will be displayed press Run button. Web browser will download the applet for displaying images from the camera.
- After successfully plug in downloading run and install it on a computer.



• After successful installation, please reload web browser window. Following window should be displayed:

🖉 Web Client - Windows Internet Explorer			_ 🗆 🗶	
G S + http://192.168.3.1/		K Dive Search	P -	
File Edit View Favorites Tools Help				
🙀 Favorites 🏾 🏉 Web Client		🚹 • 🔂 · 🔄 🖷 • Page • Safety •	Tools + 🔞 +	
	Port 5050 User admin - Password Faile English Login		Enable Compatib View	ility
Done		Internet	F 100%	
TANARS)		I I I I I I I I I I I I I I I I I I I	and the second se	

If web page will not load properly try to enable "Compatibility View" in Internet Explorer

• Provide the ID and password before logging in (Default is: ADMIN without password). Then, you can view the monitoring screen.

If the installation fails, changing security settings for the IE browser is required. In order to do that, please choose: *Tools* > *Internet options* > *Security tab* > *Custom level* and:

- Under *Download unsigned ActiveX controls* select either Enable or Prompt
- Under Initialize and script ActiveX controls not marked as safe select Enable or Prompt

You can also add the camera's IP address to "trusted zone" and set lowest security level for it.

In addition, when working in Windows Vista/7 the ActiveX applet may be blocked by Windows Defender or User account control. In such case you should allow to run this applet, or simply disable these functions.

6.3. Configuration of remote access

If you are going to use Internet to remote connect with the NVR you need to have a Public IP Address (Static or Dynamic). Check your *Network Provider* if you don't know it.

More over you have to configure NVRs NETWORK SETTING and Router in right way.

For NVR you have to configure:

- IP and Subnet Mask use value corresponding to your router IP address, check your *Network Provider* if you don't know them.
- Default Gateway Yours Internet gateway (router) address, check your Network *Provider* if you don't know it.
- First and Second DNS Check your *Network Provider* to get DNS addresses or use Public DNS like for eg. 208.67.222.222.

To connect to the device by using Internet you have to create mapping of following ports:

- HTTP port: default number 80
- Remote port: default number 5050
- Remote data port: default number 5051
- Remote data port: default number 5052
- Mobile device port: default number 5053

In NVRs NETWORK SETTING menu you can configure HTTP and DEVICE PORT. REMOTE DATA PORTS are always DEVICE PORT value +1 and DEVICE PORT value +2. MOBILE DEVICE PORT is always DEVICE PORT value + 3.

Depending of used Router Mapping Ports could be also named as Virtual Server or Port Forwarding.

If you have an Dynamic IP Address you have to configure DDNS setting. Go to the DDNS setting chapter configure NVR like it is described.

After proper configuration of the device you will be able to connect with it remotely. To check it try to use web browser typing in address: http://your_static_ip:http_port or use your DDNS address: http://your_ddns_domain:http_port. If everything correct then login window should be appear.

6.4. Live monitoring interface

After successful logging into a user interface using IE web browser, the following window opens:



Whole interface is very similar to interface displayed on NVRs monitor.

To enable camera live view choose OPEN ALL \bigcirc from the MAIN MENU, or OPEN/CLOSE icon \otimes at selected camera window.

Click **f** icon to pop out the menu showed below:

ltem	lcon	Description
Reboot	(•	Click to reboot the NVR
Lock menu bar	G	Click to stay menu bar always visible

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ltem	lcon	Description
Playback	\bigcirc	Move to the playback screen, which allow to search and watch recordings.
Backup		Allow to copy recording files to the USB external storage.
PTZ	-	Move to the PTZ screen. You can control the PTZ operations of a PTZ-compliant camera on the PTZ screen.
Capture		Capture picture on any preview channel.
Alarm		Display the list of the recent alarms and recording events.
File manager		Allow to manage the capture pictures and backup files in the external storage device.
Setting	•	Enter to the NVR setup
Record	***	Allow to quick change of recording mode
Display Setting	Ţ	Set up language, screen resolution and other parameters
Image settings		Menu allow to adjust image parameters for selected channel
lp Channel Setting	IP	Bring up sum-menu responsible for IP cameras and time settings.
Voice Intercom	<u> </u>	Enable intercom mode*
Open All	\oslash	Enable live preview for all channel
Split Screen		Selects a split screen mode.
Start		Bring up sum-menu responsible for NVR maintenance.

Click the right key of mouse to bring the MAIN MENU bar

* Feature available in the future

6.5. Searching and playing recorded video

To start the PLAYBACK MENU click () icon. Then following window appears:



1. From the CHANNEL SELECT tick the channel which you want to search the recording, it will auto search the recording .

2. Change the date from the calendar and press SEARCH button to find records for selected date.

You can identify the type of the recording data by the color in the bar.

- Blue (Continuous) : continuous recording data.
- Red (Alarm) : alarm event recording data.
- Yellow (Motion) : motion event recording data.
- Pink (Motion or Alarm) : motion or alarm event recording data.
- Azure (Motion & Alarm) : motion and alarm event (when occurs in the same time) recording data.
- Green : data originating from manual recording.
- 3. To play the searched data simply double click a desired point on "Timeline" or press PLAY button.

Description of playback buttons:

- Pause/Play: pause the current playback image.
- Stop: Stop the playing video.
- Slow: Slow down the playback speed. (there are: 1/2, 1/4, 1/8, 1/16 times)
- Fast: Accelerate playback. (there are: 2, 4, 8, 16 times)
- Snapshot: You can capture picture in any playback channel.
- Backup: You can backup the recording of any channel.

6.6. Backup

User may copy recordings to external storage devices or through the network. The NVR features the possibility of copying the recordings to an external HDD connected via the USB, onto Flash memories. NVRs allow to copy the recordings in following formats: AVI.

To start the BACKUP MENU click 💾 icon. Then following window will shown

Backup	×
Channel All	
From 2014-1-16 0:00:00	
To 2014-1-16 23:59:59 🗧	
Backup to Browse	
File Type 💿 I 8 😨 AVI	
File Size	
Process 0%	
	Start Stop Exit

- Select a required channels
- Select a date range filling FROM and TO range.
- Select path for saving backup
- Choose the required file format.

Press START button, process bar will move forward until reaches 100%.

6.7. System setup

Setup menu contains most of NVR settings. Whole interface is very similar to interface displayed on NVRs monitor. For detail of each settings please refer "System Setup" description in chapter 5 - NVR CONFIGURATION.



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