

For the physical installation of the equipment, avoid: a closed place (ensure air intake for heat dissipation), direct sunlight, liquid sources, blows or falls. Ensure a correct electrical installation to avoid damage to equipment and people.

**1. - HDD Installation**

It must be taken into account that in order for the NVR to record the different cameras, the HDD (not supplied) must be installed inside it. This disk must be of the SATA type.

For HDD installation follow the steps below:

- a. - Remove the top cover of the NVR.
- b. - Inside you will find the power and data cables that will connect to the HDD. Connect the terminals in the corresponding places of the Disk.
- c. - Fix the HDD to the NVR on the holes planned for this purpose.
- d. - Install the top cover and the corresponding screws.

**2.- USB Mouse Connection**

This NVR is ready to operate with a USB mouse (supplied with the equipment).

**3.- Monitor connection**

To be able to visualize locally it is necessary to have a Monitor, which can be connected by VGA output (standard PC monitor) or HDMI output (LCD TV, LED, etc.)

VGA / HDMI Monitor Installation.

- a. - Connect the VGA / HDMI cable from your Monitor to the corresponding output of the NVR.
- b. - Connect your Monitor and NVR to electrical power.

**4. - Camera connection (IPC)**

The NVR supports IP cameras either Siera or another manufacturer (Onvif Protocol)

Camera Installation

- a. - Connect your cameras to the same network as the NVR (May be on the same "Switch").
- b. - Connect your cameras to their corresponding power supply or "PoE Switch". See attached diagram as example.

**5.- Network connection**

NVR enables complete network management.

Network installation.

- a. - Connect the Network cable (Patch cord) to the RJ45 port of the NVR.
- b. - By default the NVR is by DHCP, TCP Ports: "HTTP: 80", "Data: 3333", "Mobile: 3334".

**6. - System grounding. "Note: Grounding ensures proper operation of the NVR, prevents damage to equipment and people from electric shock, and is vital to its warranty."**

The NVR must have a ground connection as a safety condition.

Connect the ground terminal of the NVR to the ground of your electrical installation, as well as the power supply of the cameras or "Switch".

**7. - Turning on the system.**

Connect the HVR power supply to the "DC 12V" connector and the power cord to a power outlet.

Verify that all NVR connections are properly connected. Turn it on, connecting the power supply to the NVR and to the mains.

NVR operation is done using the supplied USB mouse.

NVR supports NPTS, NETIP and ONVIF protocols.

**1. - Starting the NVR:**

Once the NVR is turned on, the loading screen will be displayed, while doing so it will perform a functional check and detection of connected hardware. When you finish checking the entire system you can view the cameras and enter the menu.

**2. - Viewing the cameras:**

- When the system starts, a division of windows is displayed in which it will present the cameras linked to the different video channels of the NVR.
- To go to full screen one of the cameras, simply double-click the mouse on the desired camera, in case you want to return to the split view, double-click anywhere.

**3. - Accessing the menu: - "To access the NVR menu, you must log in to it."**

To log in, press the right mouse button, select "Main Menu", the default user is "admin" and your password is "if you want to" confirm by pressing "OK", a window for "Password Change" will open. (For security of access to your computer, Siera advises changing the default password of the "admin" user, for a personal one. The password must be 4 to 8 characters long, with letters and at least one number). If you do not want to make the change at this time, to continue, click on "Cancel" and the NVR menu will be displayed.

**4. - Schedule recording mode: - "The NVR will allow you to have several recording modes by: camera, day and event."**

Access the "Main Menu", go to "Recording", "Recording" icon, select the desired channel e.g. (Channel 1), select the desired day or every day, program any of the periods at the desired time, select the mode of recording. If you need it, you can do the same procedure with the other periods.

**5. - Recording Modes**

**Normal:** Records "continuously" all the time programmed in the selected "Period".

**Detection:** Records when movement is detected in the image (changes in light and movement of objects are considered as "Detection").

**Alarm:** Records when one of the alarm inputs is activated.

**Example of setting of channel 1 to record by motion detection 24 hours:**

*Channel 1\_Every day From 00:00 to 23: 59\_Detec (Motion detection)*

With this setting camera 1 will record every time it detects movement 24 hours a day. Note: Bear in mind that motion detection must be enabled on the camera, in order for motion to be detected, the event generates a recording on the hard disk.

**Manual recording:** To record manually, press the right mouse button and select "Record Mode" from the menu, select the channels you want to record in "Manual". To stop manual recording do the same procedure, but unchecking the corresponding boxes.

**6. - Watch recordings: - "The NVR will allow you a simple search of the recordings made in it."**

- 1. - To search for a recording press the right mouse button, select "Play", a window will be displayed with the division of the video channels.
- 2. - Select: Date, Channels to view (lower right corner), Recording type: All, Normal, Alarm, Manual.
- 3. - The hourly chart will show the available recordings with the corresponding color. To reproduce any of them, just left click on the desired time on the chart. During playback you can use the buttons of "Pause", "Fast Forward", "Slow Forward", "Frame by Frame", "Time Jump", "Stop", "Full Screen".

**7. - Backup via USB port: - "The NVR will allow you to back up your video files to a removable USB drive."** Backup procedure to USB drive. Go to the recording playback screen (detailed in the previous point) and search for the desired recording.

- 1. - Press the "File List" button located below the channel selection. List of recordings will be displayed.
- 2. - Mark the event you want to support.
- 3. - Insert USB drive into a free port.
- 4. - Press the "Backup" button located to the left of the "File List" button and in the window that will open press the "Backup" button, select "Format" "AVI" and press "Start" wait for the system to finish making the backup, then remove the USB drive at any time.

**Correct installation**

