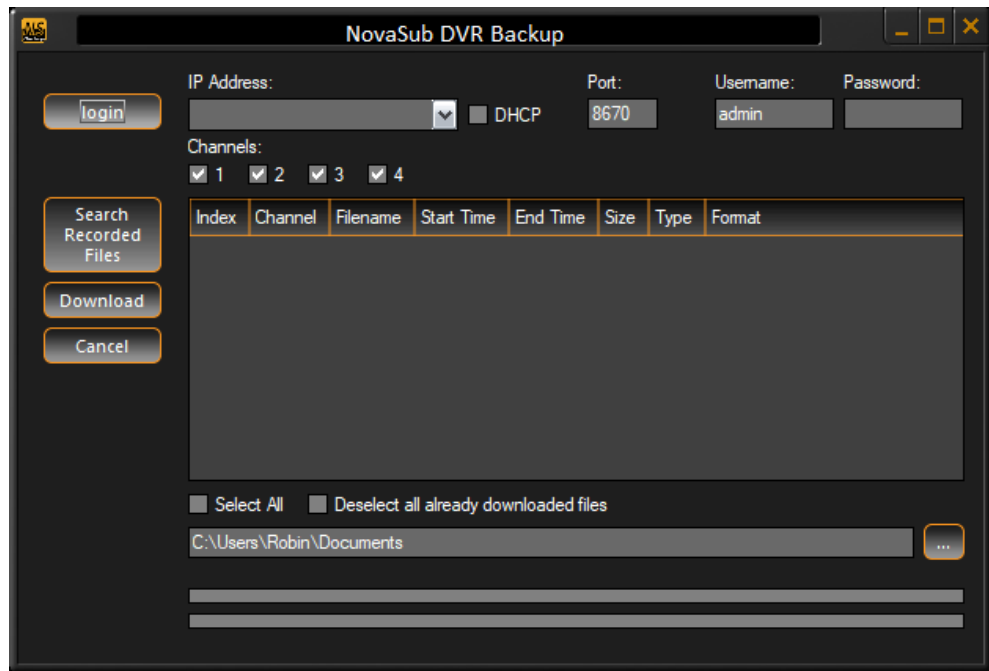


DVR2 Backup software Manual



Novasub DVR2 file backup software

Windows based application for downloading recorded files from the Novasub DVR2 hardware

Free available for Novasub DVR2 hardware

Software Version: 1.0.0b6

Download from our websites

www.seascape.nl

www.novasub.com

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WARNING

YOU MUST READ the DVR2 Backup software manual before using the DVR2 Backup software. Failure to do so may lead to improper use, serious injury or death. Care should be taken to follow the instructions correctly and also conduct a separate risk assessment prior to commencing work



WARNING

Is used in connection with a procedure or situation that may result in serious injury or death.



CAUTION

Is used in connection with a procedure or situation that will result in damage to the product.



NOTE!

Is used to emphasize important information.

1 Help & Support

First please read this manual thoroughly.

For technical support contact your local a Novasub Authorized Service Center or Seascope BV.

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If you have cause to use our technical support service, please make ensure that you have the following details at hand prior to calling:

- system serial number
- firmware version and build number
- fault description
- any remedial action implemented

2 Introduction

The Novasub DVR2 Backup software is a windows based application for downloading recorded video files from Novasub DVR2 products. The Novasub DVR2 Backup application can be used on 1-channel, 2-channel and 4-channel DVR2's. The connection between the DVR2 hardware and the PC is a cabled LAN connection either direct or in a network.

2.1 Description

The Novasub DVR2 software is a basic software tool to quickly download recorded files from the Novasub Control units which have the DVR2 recorder built in. The connection between the DVR2 recorder and the PC is a network connection, either in a network surrounding or a direct peer-peer connections between the DVR2 and the PC.

A PC with windows and a LAN network connection is required. The software is free available and can be downloaded from our websites. See chapter 3

2.2 Features

The following features are available:

- The Novasub DVR2 Backup can automatically detect DVR2's
- The Novasub DVR2 Backup application can be used in a direct and a network configuration.
- The Novasub DVR2 Backup makes it possible to download all video files from the DVR2 autonomous. No one else needs to operate and download each page of files from the DVR2 anymore.
- There's no need for converting the video files anymore. The files are directly stored in "avi"-format.

2.3 Compatibel hardware

The following Novasub control units with built in DVR2 recorders can be used with the Novasub DVR2 software:

- SCCx-2DRVL-DVR G3.x
- SCC-xVL-DVR G3.x
- PDC-x-2DRVL-DVR
- SCU-DVR2-xCH
- SCU-xVL-DVR2-x

3 Installation

This chapter is about the installation process of the Novasub DVR2 Backup program. The Novasub – DVR Backup Setup installer will install the Novasub DVR2 Backup software and setup your environment. When your done installing the software on your system is ready to use and you can connect your DVR2 like described further down this manual.

3.1 Downloading software

You can download the DVR backup software on the seascope website. Go to your video system on the website for example the [SCC-2DRVL-DVR](#) and click on the tab downloads, there you will find the latest software and manual.

3.2 System requirements

The following minimum PC requirements are needed for a good working of the Novasub DVR2 software.

1. Intel i3 processor or equal
2. > 2Gb Ram
3. Windows 7
4. 1 free network adapter/connection
5. .NET framework

3.3 Installation process

You don't have to copy the installer file to your computer before installing. You can just install the software right from your storage medium. So double-click the downloaded executable file. There is the possibility that you will be alerted with a pop-up from UAC(User Account Control). In this message you are asked to allow the program Novasub DVR2 Backup program. Click on the 'yes'-button here. Then the installer will be started.

1. The first step in the installation process is to read the License Agreement carefully. When your done reading you have to accept the agreement in order to complete the installation process successfully. See Figure 1.

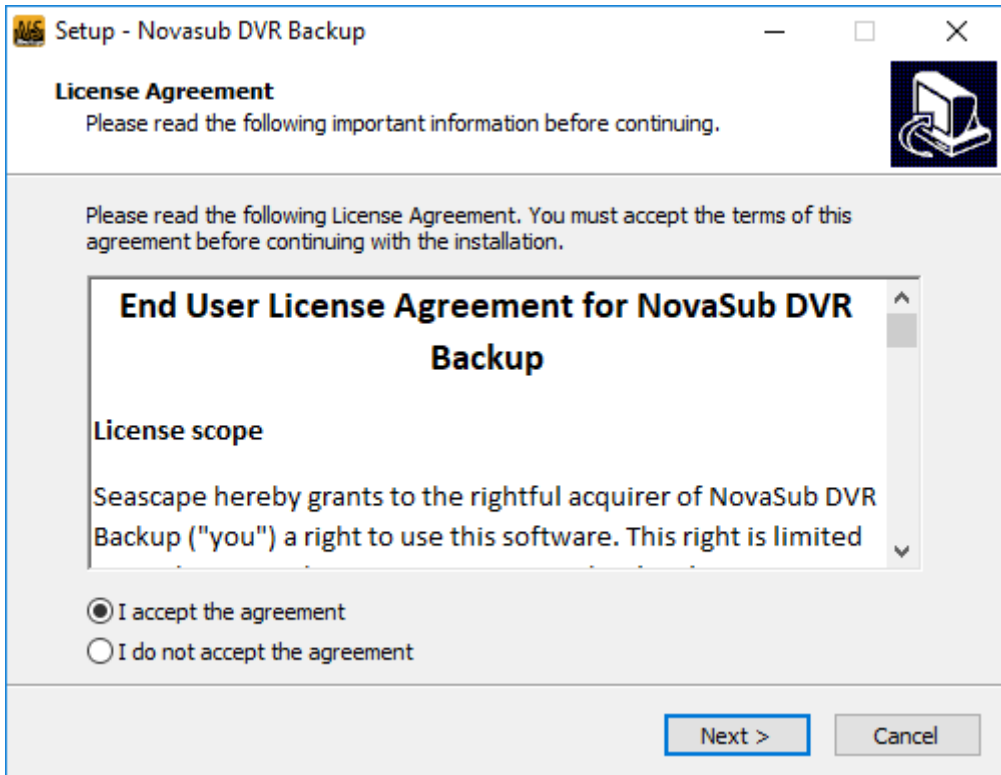


Figure 1: Installation process step 1

2. The next step is to setup the installation directory. If you know the consequences you can adjust the installation path to your needs. Otherwise it's recommended to leave this field as it is. See Figure 2.

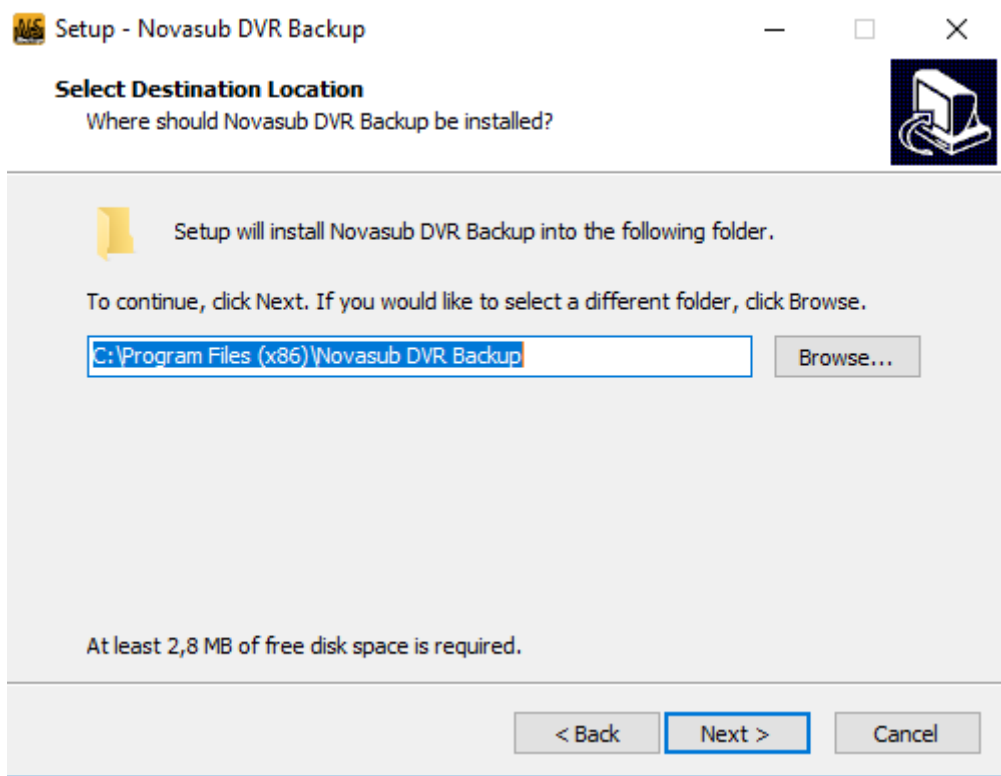


Figure 2: Installation process step 2

- The third step is to set the name of the shortcut to the Novasub DVR2 Backup application. You can rename if necessary. See **Fout! Verwijzingsbron niet gevonden..**

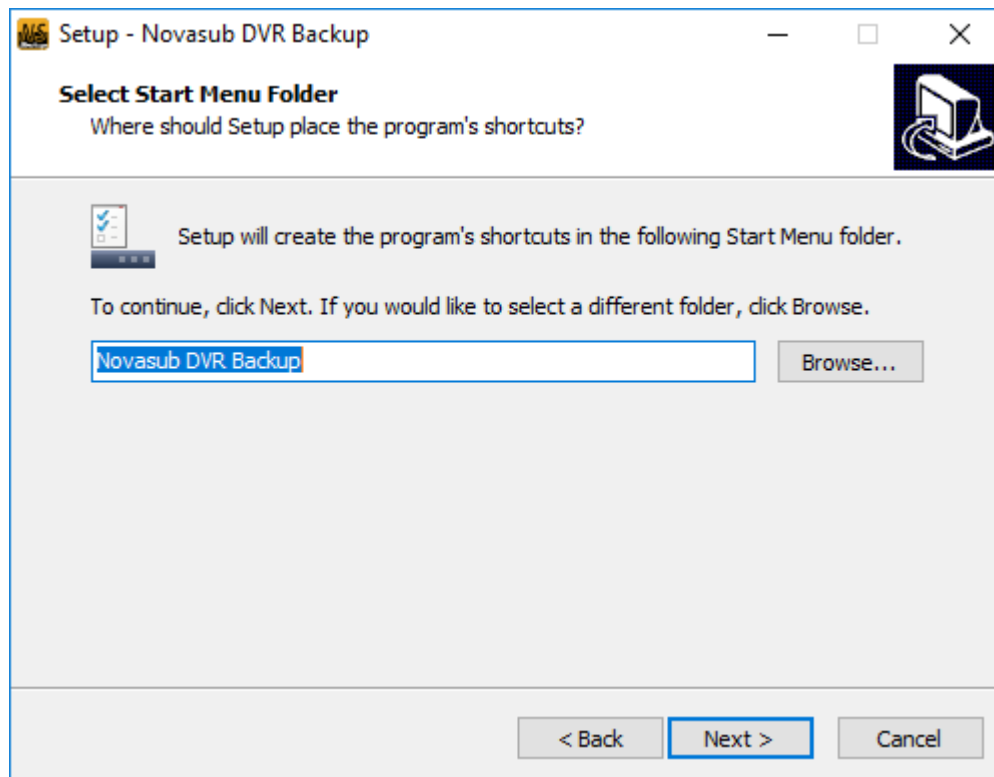


Figure 3: Installation process step 3

4. In the next step you can set the preference if you would like a shortcut on your desktop. In this way you can access the application fast because the shortcut is always within your reach. See Figure 4.

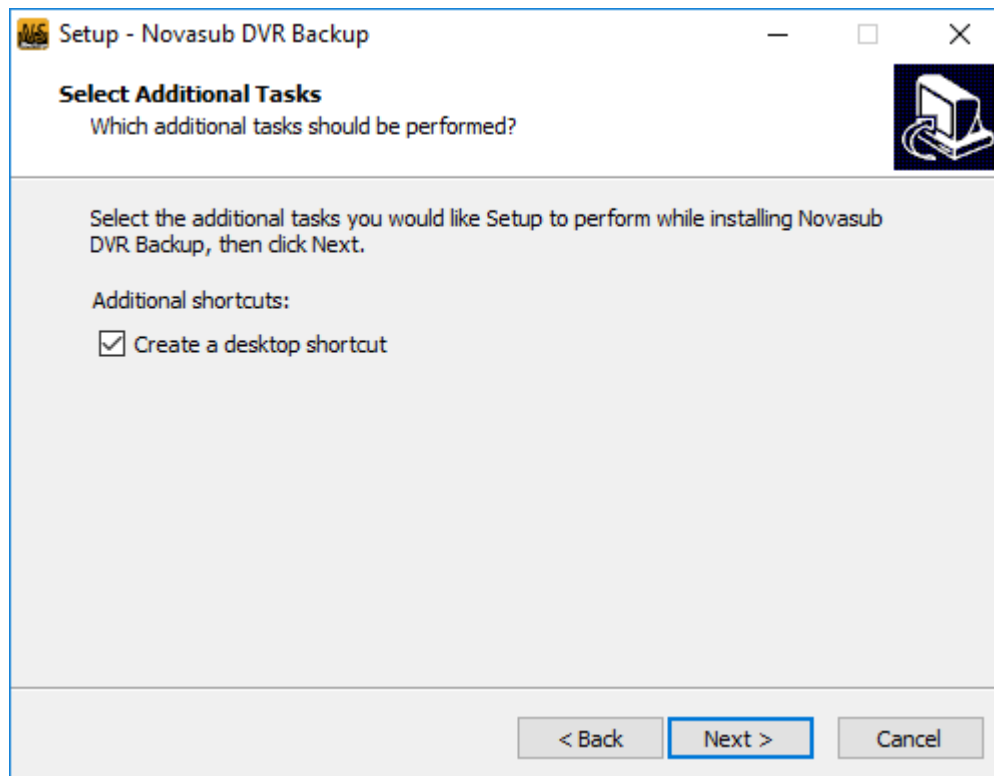


Figure 4: Installation process step 4

5. The following step is the last step before the installation can take place. In this step you can review your preferences. See Figure 5.

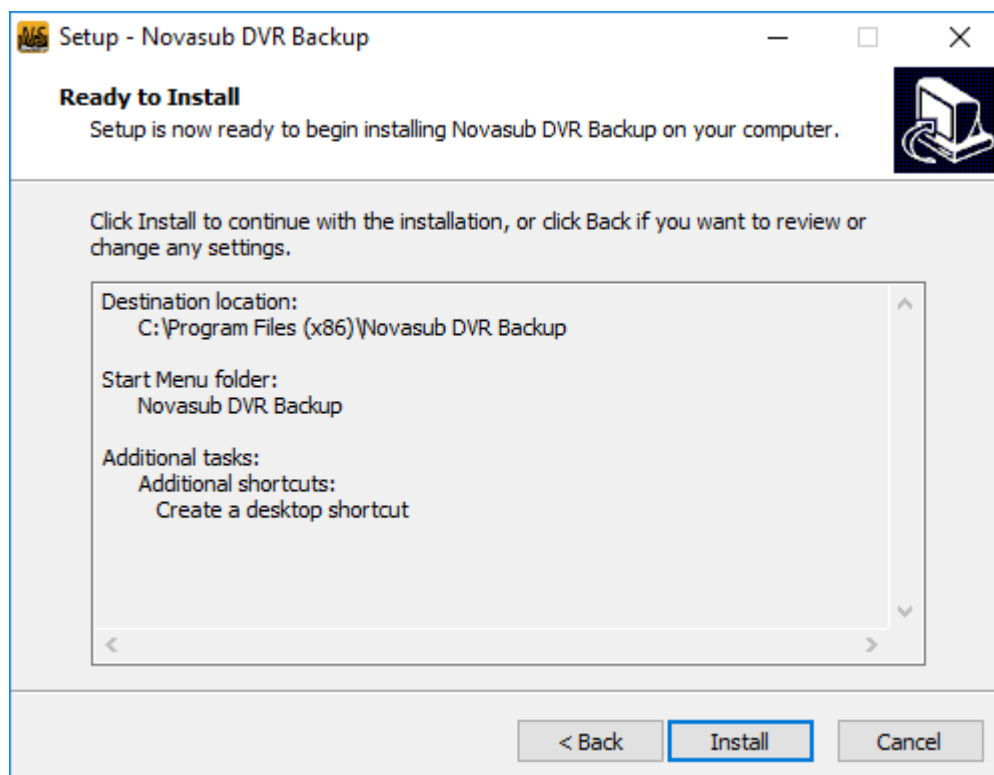


Figure 5: Installation process step 5

6. You will see a progress bar filling up, the installer will install all required components and will set your preferences. After the installation has completed you will be asked if you would like to launch Novasub DVR2 Backup. See Figure 6.

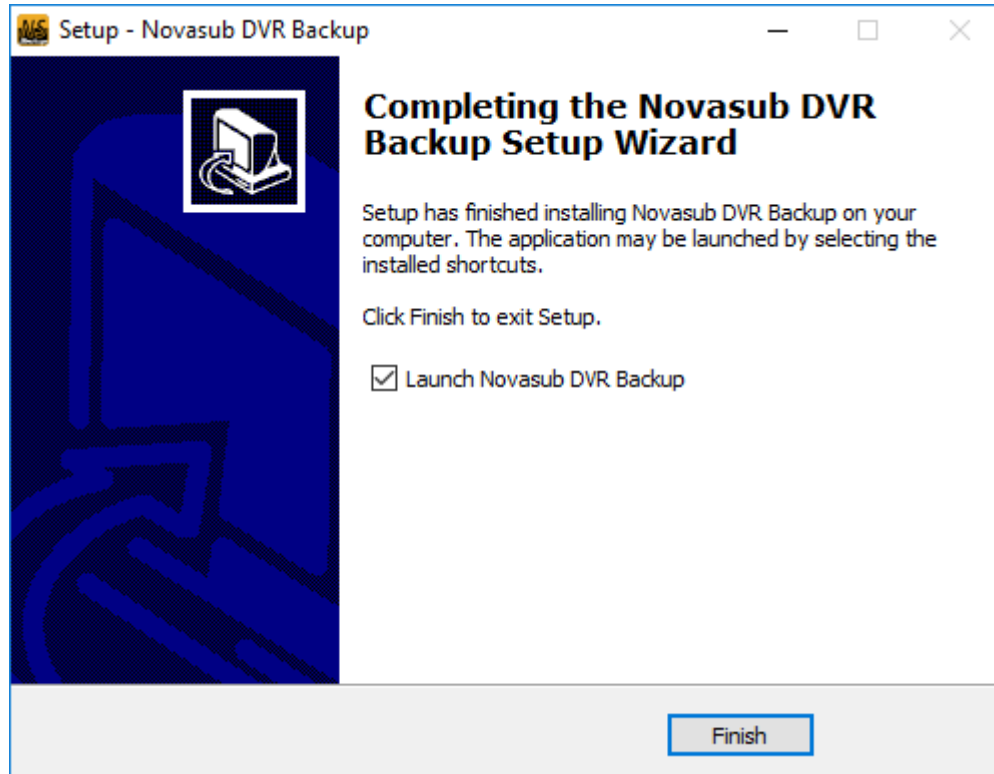


Figure 6: Installation process step 6

7. Dependent on the target system you will be asked to allow a connections to your network(s) while the Novasub DVR2 Backup application is started for the first time. If you don't exactly know in which type of network you are, you can check the checkboxes for all type of networks. In this way you really know that the app is working properly in a way that it was intended to work. See Figure 7.

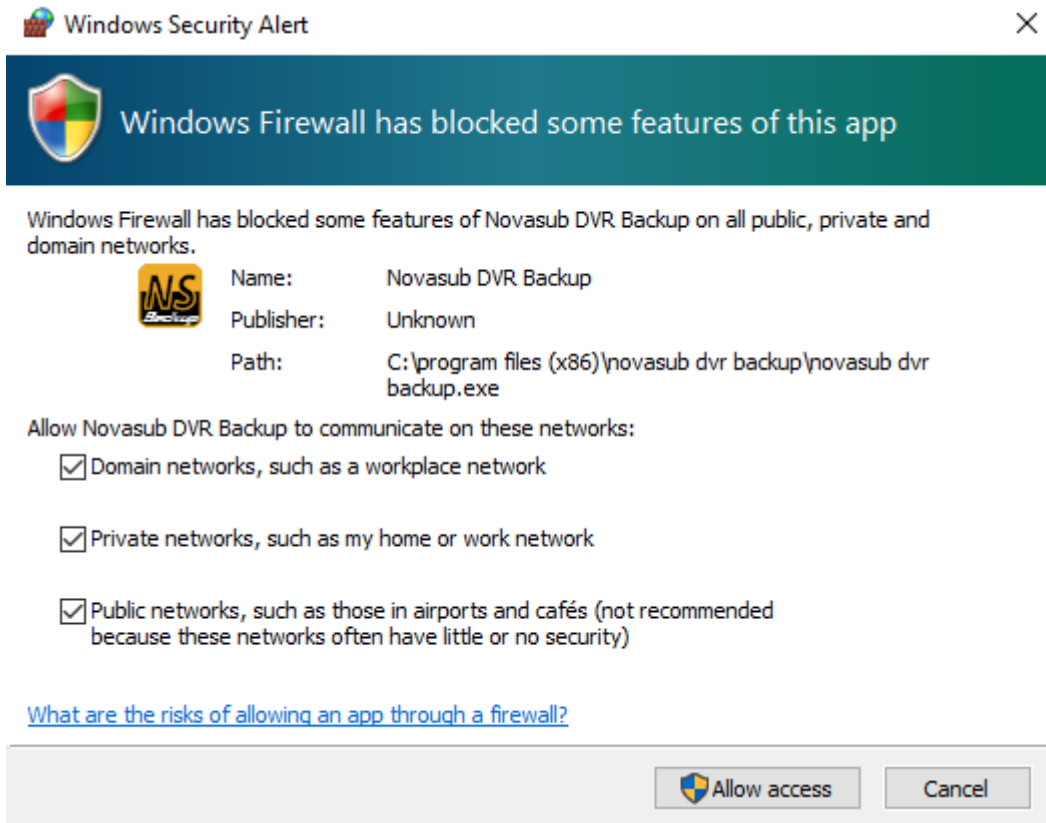


Figure 7: Firewall pop-up

If there's another security application on your system you have to be sure that it's not blocking the network connections for the Novasub DVR2 Backup application. If you're not the system administrator of the target system and you're not getting the firewall message, you have to contact your system administrator. The administrator can safely apply the correct settings in the firewall of the target system.

Tabel 1: Firewall settings

Protocol	Port
TCP	8670
SSDP(Upnp)	1900

- After the setup/installation is successfully completed you should end up with the Novasub DVR2 Backup application. See Figure 8.

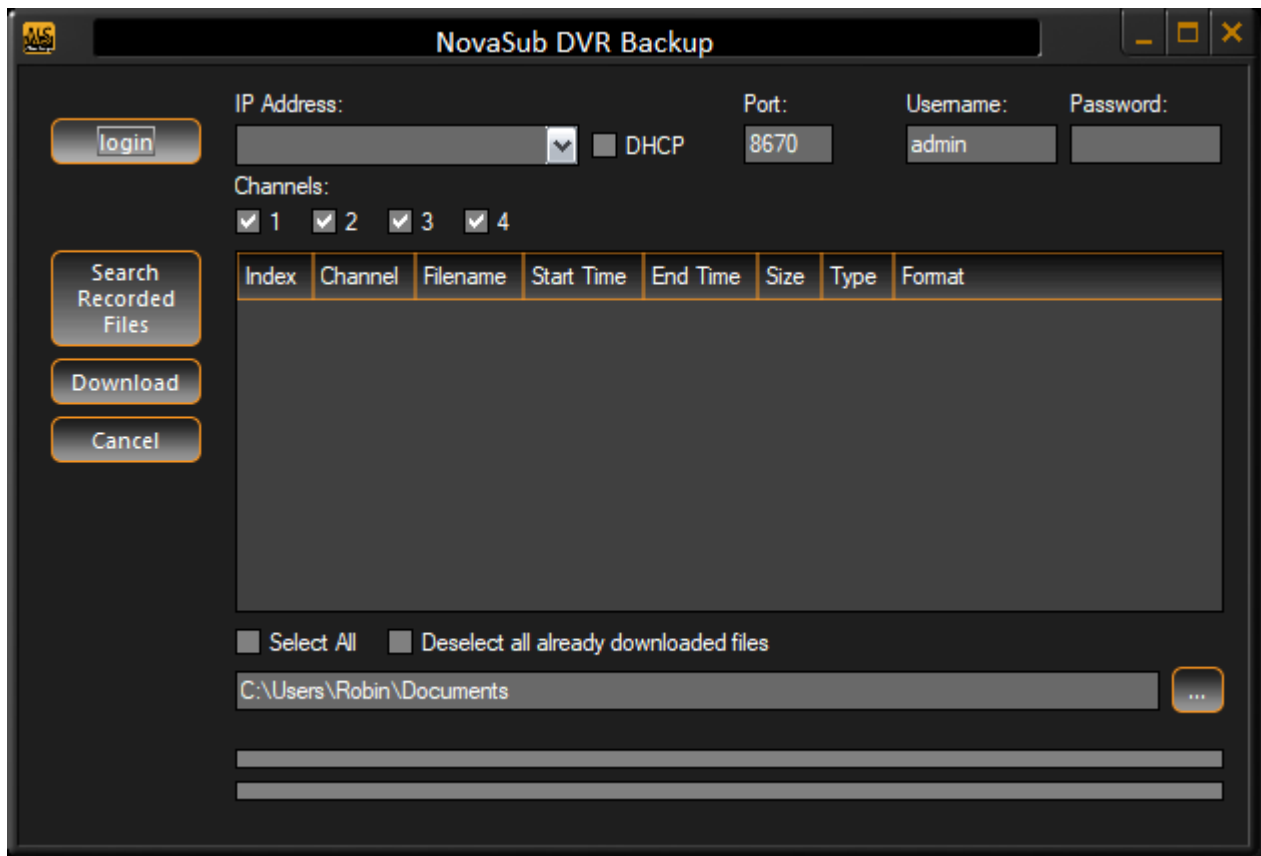


Figure 8: Noavsub DVR2 Backup

4 Connecting

After the installation is successfully completed as described in chapter 3 of this manual, you're ready to connect with your DVR2. In general there are two ways to connect to your DVR2.

1. Direct
Connect your DVR2 directly with a conventional network cable to your computer. This type of connection is further described in chapter 4.1.
2. Network
Connect your DVR2 to the same network as you are in with the target computer. This type of connection is further described in chapter 4.2.

In both ways there is a build-in feature to automatically discover your DVR2 by your computer.

There is always a manually/common way to access your DVR2. That's to type in the IP-address in by yourself. In that way, make sure that the IP-address is in the same range as the target computer is. So that the first numbers are the same. Only the last number is different than that of the target computer. The setup of a manual connection is described under the chapter of the connection type in question.

4.1 Direct connection

First of all you can connect the DVR2 directly through a network cable. It can be a conventional cable or a cross-cable. It doesn't matter. Both cables should work in this case. After you hooked up the DVR2 to the target system you can start Novasub Backup DVR2.

4.1.1 Automatic Discover feature(DHCP)

Check the checkbox DHCP. If the DVR2 network settings are still in factory setting and the firewall is properly configured, Novasub Backup DVR2 should be able to find the DVR2. Dropdown the IP-address dropdown list and the DHCP feature in should add the IP-address of your DVR2 in that list within minute. If not, probably the settings of your DVR2 are not quite right.



Figure 9: DHCP feature

If an IP-address appears in the dropdown-list select it. Now you can login to your DVR2.

Pay attention! It can take a while. It can take about a minute before the DVR2 has taken over the IP-address.

4.1.2 Troubleshoot discover feature (DHCP)

To troubleshoot the DHCP feature you can check the following settings on the DVR2. Go to the LAN settings of the DVR2 and check whether the DHCP checkbox is checked. In order to do that go to Menu->Setup->LAN. See Figure 10, Figure 11 and Figure 12.



Figure 10: Setup menu DVR2

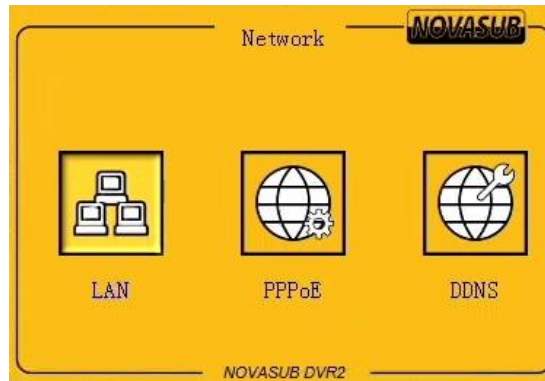


Figure 11: Network menu DVR2

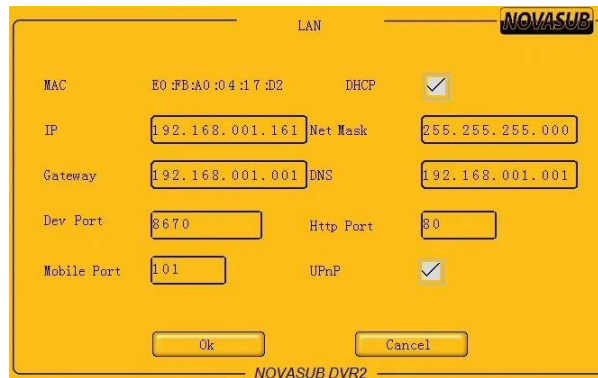


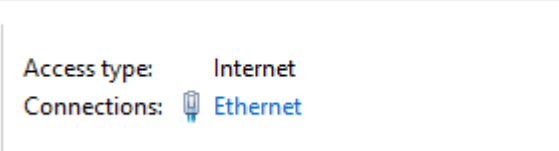
Figure 12: LAN menu DVR2

If it isn't checked, then check it and click 'Ok'. After that you should see the IP-address appear in the dropdown list of Novasub DVR2 Backup application.

4.1.3 Manual direct connection

If the automatic discover feature isn't working for you, it's always possible to connect manually to the DVR2. In order to do that we have to configure a static IP-address in the DVR2. Furthermore you need to know the IP-address or the IP-address range of the target computer.

- In order to retrieve the IP-address of the target computer. Go to Control Panel->Network and sharing Center->The connection in question(See Figure 13)->Details
- The entry "IPv4 address" should give you your IP-address. See Figure 14.



Access type: Internet
Connections: Ethernet

Figure 13: Ethernet connection

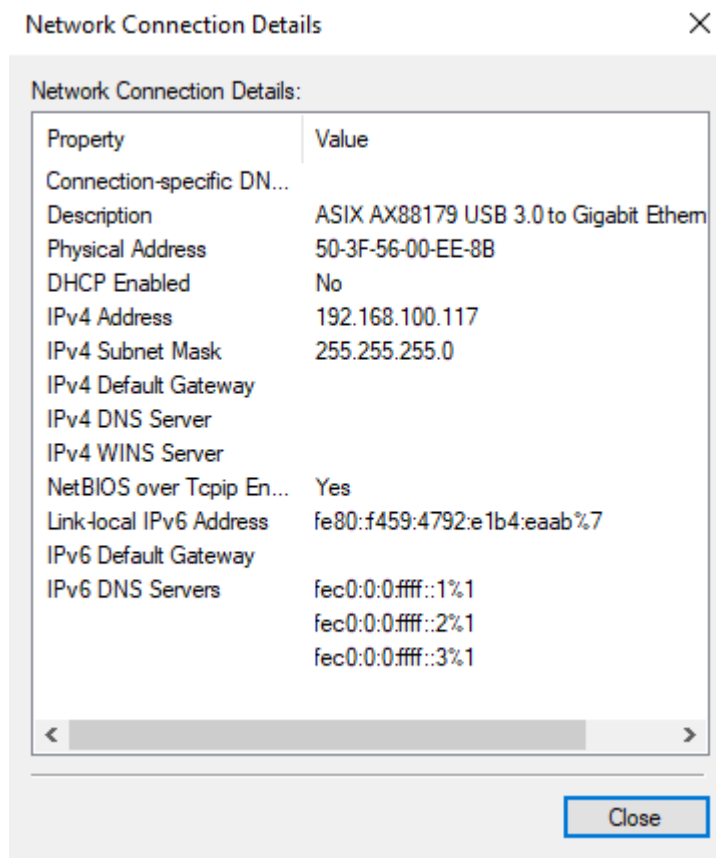


Figure 14: Connection Details

In order to connect to your DVR2 you should give the DVR2 a static IP-address in the same range as the target computer. In order to do that go in the DVR2 to Menu->Setup->LAN. See Figure 10, Figure 11 and Figure 12.

- Uncheck the DHCP checkbox.
- Fill in the IP field with (in this example) 192.168.100.118.
- Fill in the Gateway field (in this example) 192.168.100.001.
- Click Ok.

Now you can fill in the IP-address, (in this example) 192.168.100.118 in the IP-Address field of the Novasub DVR2 Backup application. You should be able to login to the DVR2 right now.

4.2 Network connection

The second type of connection is if the DVR2 is connected to a network. With this type of connection Novasub DVR2 Backup also offers an automatic discover feature.

4.2.1 Automatic discover feature (Upnp)

This feature is enabled by default. So if the DVR2 makes itself visible on the network using Upnp, Novasub DVR2 Backup is able to discover the DVR2. Like with the DHCP-feature dropdown the IP-address list and wait till an IP-address appears in the list.

Pay Attention! It can take some time. It can take about a minute to discover the DVR2.

4.2.2 Troubleshoot discover feature (Upnp)

In order to make use of the automatic discover feature, make sure that the Upnp-service on the DVR2 is enabled. To do so, go to Menu->Network->LAN. See Figure 10, Figure 11 and Figure 12. Because the DVR2 is part of a network right now, the checkbox DHCP has to be checked too. Click 'Ok' and drop down the IP-address list in Novasub Backup DVR2 and wait till the IP-address appears.

4.2.3 Manual network connection

If the auto Upnp discover feature isn't working for you, it's always possible to manually connect to the DVR2. In order to that make sure that the DVR2 and the target computer are connected to a network including a router. Next make sure the DHCP service on the DVR2 is running. In order to do that go on the DVR2 to Menu->Setup->LAN. See Figure 10, Figure 11 and Figure 12.

- Check DHCP
- Click Ok
- Click again on LAN
- Use the IP-address in the IP field on the DVR2 in the "IP address"-field of the Novasub DVR2 Backup application.

You should be able to login in the DVR2 right now.

5 Usage

Now you're logged in the DVR2 with Novasub DVR2 Backup like described in the previous chapters, it's possible to search for the video files that are located on the DVR2. Click on "Search Recorded Files", see Figure 15. There should appear a list with video files for all selected channels. See Figure 16.

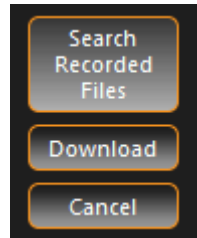


Figure 15: Novasub DVR2 Backup controls



Figure 16: Select Channels

The list is automatically sorted on date/time. If you don't would like files from a specific channel to appear, deselect the channel in question at the top. Next click on "Search Recorded Files" again.

In the list it's possible to select one file or multiple files at a time. The way of using is the same as all other windows based applications. So you can select multiple files with holding the shift button and select the first and the last file of the range. Or you can select multiple files with interruptions while pressing CTRL and select all files you would like to download. See Figure 17.

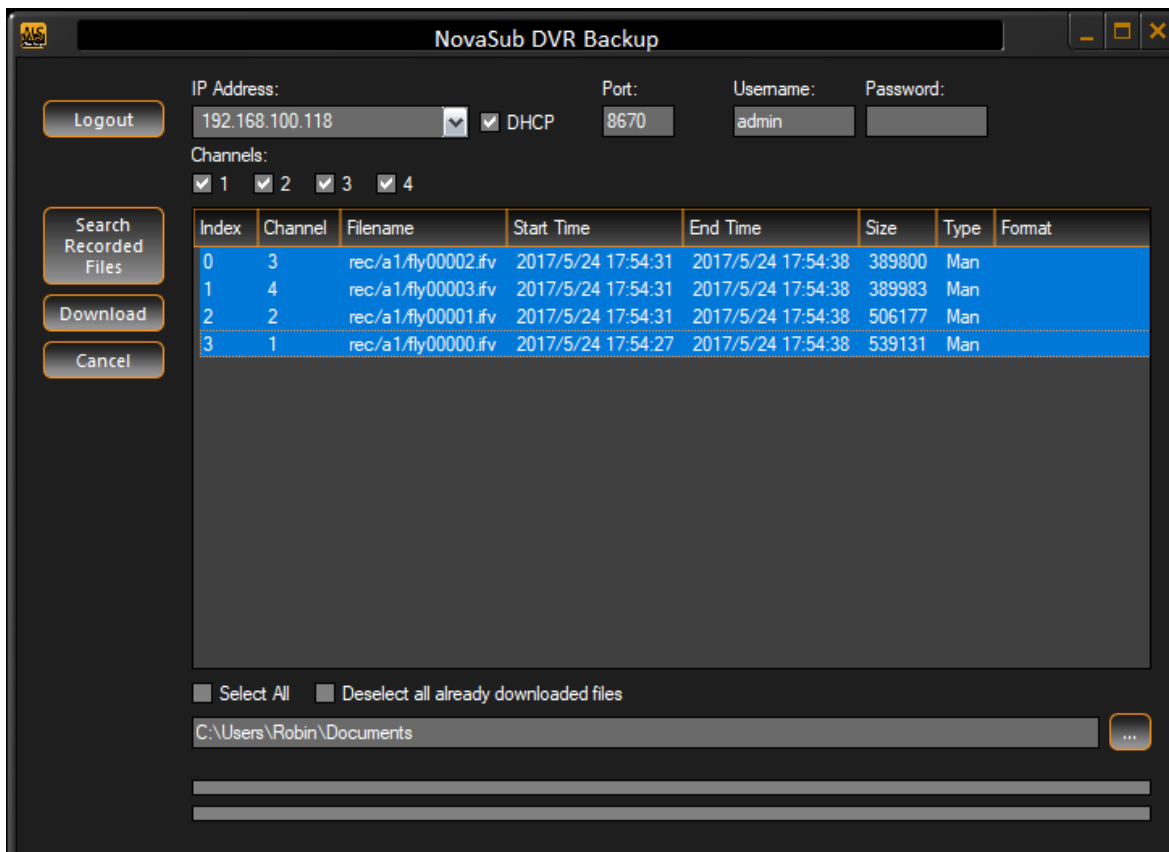


Figure 17: Selecting File

If you would like to select all files at a time you can use the options below. See Figure 18.

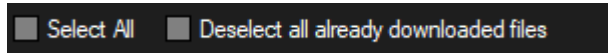


Figure 18: Selecting and deselecting

If you're done selecting the files you would like to download, you can click the Download button. You should see filling up the progress bar per file and in total at the bottom of Novasub DVR2 Backup. See .

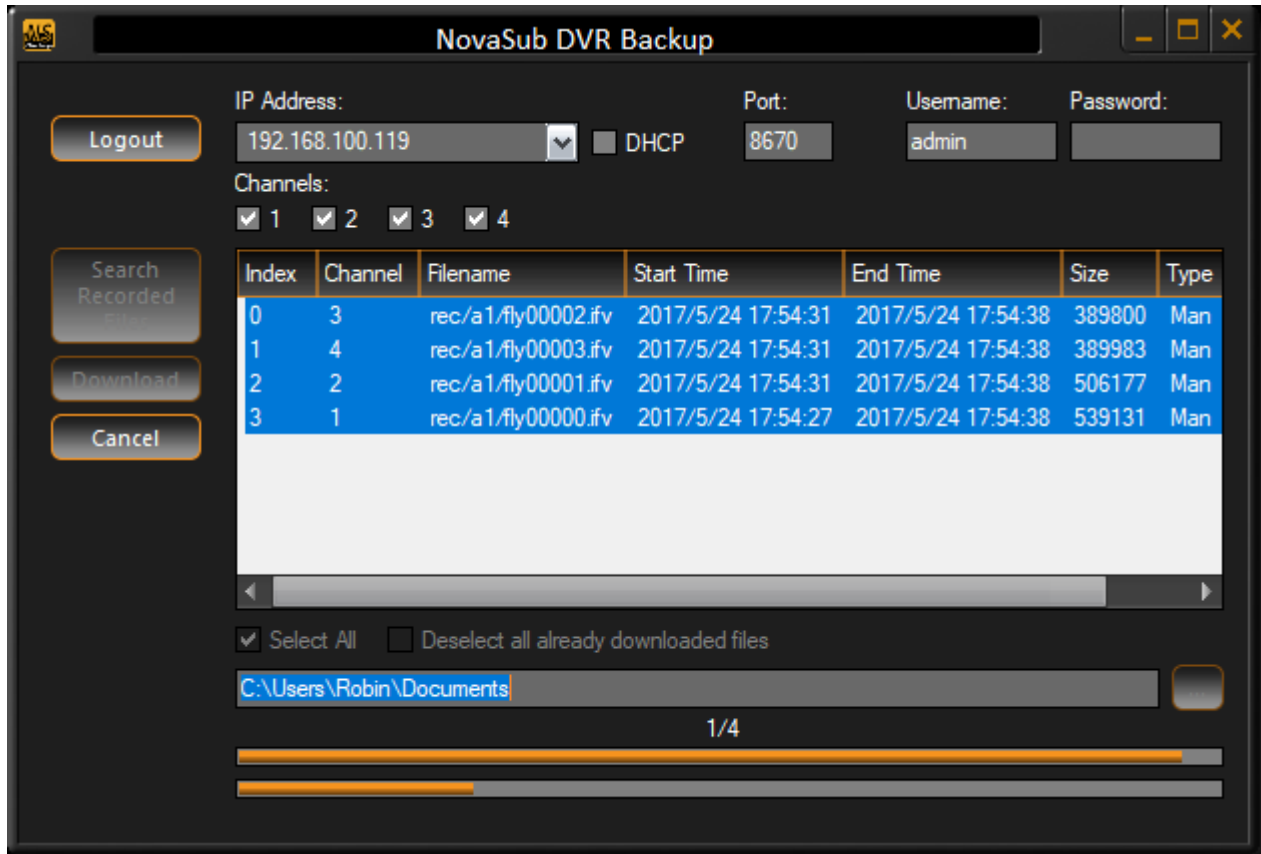


Figure 19: Downloading