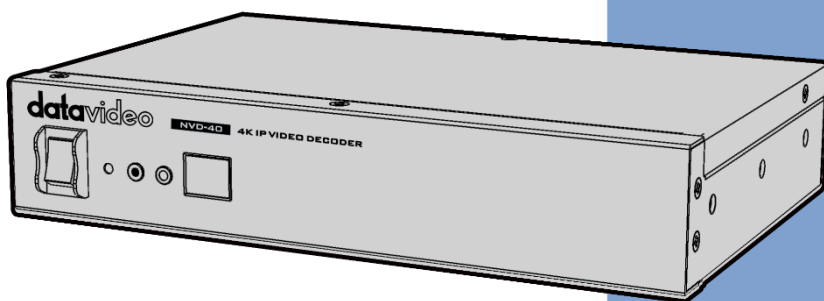




4K IP VIDEO DECODER NVD-40

Instruction Manual

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Disclaimer of Product & Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warnings and Precautions

1. Read all of these warnings and save them for later reference.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord's rating.
10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.
13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
 - a. When the power cord is damaged or frayed;
 - b. When liquid has spilled into the unit;
 - c. When the product has been exposed to rain or water;

- d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
- e. When the product has been dropped or the cabinet has been damaged;
- f. When the product exhibits a distinct change in performance, indicating a need for service.

Warranty

Standard Warranty

- Datavideo equipment is guaranteed against manufacturing defects for **one (1) year** from the date of purchase.
- A valid purchase invoice or other proof of purchase must be provided when requesting warranty service.
- The warranty period begins on the actual purchase date. If the purchase date cannot be verified, the warranty period will begin **thirty (30) days after shipment** from a Datavideo office.
- Non-Datavideo branded products (products without the Datavideo logo) are covered by a **one-year warranty** from the date of purchase.
- Damage caused by accident, misuse, unauthorized repair, or exposure to sand, grit, or water is **not covered** under warranty.
- Virus or malware infections on computer systems are **not covered** under warranty.
- Any issues caused by unauthorized third-party software installations that are not required by Datavideo systems are **not covered** under warranty.
- All shipping, mailing, or transportation costs, including insurance, are the responsibility of the owner unless otherwise stated.
- **Teleprompter glass is not covered** under warranty.
- Accessories, including **headphones, cables, batteries, metal parts, housings, protective cases, cable reels, and consumable items**, are **not covered** under warranty.
- Warranty is valid only in the country or region of purchase.
- All other claims **not explicitly stated** are not covered.
- Your statutory rights remain unaffected.

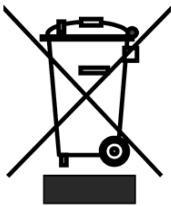
Five Year Warranty

- Starting January 1, 2026, all Datavideo products that are successfully registered on the Datavideo official website are eligible for a **free four-year extended warranty**, in addition to the standard one-year warranty, for a total of **five years of coverage**.



- **Only registrations completed through the Datavideo official website qualify** for the five-year warranty. Registrations completed through local Datavideo offices, resellers, or authorized distributors **are not eligible**.
- Certain parts with limited service life — including **LCD panels, DVD drives, hard drives, solid-state drives, SD cards, USB thumb drives, lighting equipment, non-PCIe cards, and third-party PC components** — are covered by a **one-year warranty only** and are **not eligible** for the extended warranty.
- **Camera modules** are covered by a **three-year warranty from the date of purchase**.

Disposal



For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



CE Marking is the symbol as shown on the left of this page. The letters "CE" are the abbreviation of French phrase "Conformité Européenne" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

Product Overview

The Datavideo NVD-40 is a wired IP video decoder with HDMI, Composite and analogue audio outputs.

The NVD-40 decodes all common protocols including SRT, RTSP, RTMP, UDP, TCP, HTTP, HLS and MPEG-TS and can output SD/HD video at resolutions up to 1080p60.

Decodes directly from YouTube Live, UStream and most major CDNs without any 3rd party advertising.

The NVD-40 is the perfect partner to the Datavideo NVS-33/34/35/40 IP encoders allowing full HD point to point video links over Ethernet, WiFi or the Internet.

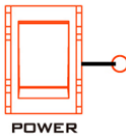
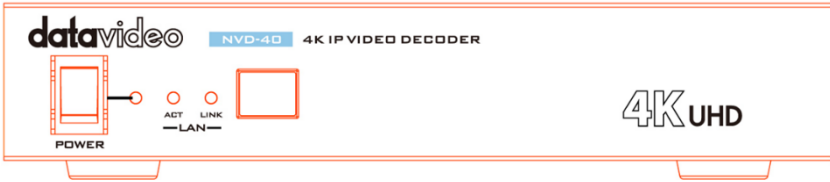
When connected to dv Cloud (<https://www.dvcloud.tv/>) the NVD-40 is controllable from anywhere in the world and can be easily connected to any encoder via the cloud.

When connected to a Datavideo DVS-200 server or dv Cloud, the NVD-40 can function as an IPTV set top box downloading a channel list of both live and pre-recorded streams automatically.

Features

- Operates on standard 10/100Mb Ethernet networks
- Excellent image quality with very low delay
- Unicast and multicast support
- Supports RTSP (Unicast/Multicast), RTMP, UDP (Unicast/Multicast), TCP, HTTP, HLS and MPEG-TS
- Supports SRT listener mode
- Built in RTMP server for point to multipoint distribution
- Direct decoding from most major CDNs without any 3rd party advertising
- Remote control via dv Cloud
- Channel list download from DVS-200 Cloud Streaming Server
- Feature-rich WebUI for configuration and control
- Built in video scaler
- Supports Full HD video and audio
- Supports simultaneous digital embedded and analogue audio output
- Supports remote control by socket commands
- Small form factor, rack mountable using RMK-1
- Supports HDMI and Composite video output
- Supports CEC control

Front Panel



Power On/Off Switch

Switches the power On / Off

Power LED: The red power LED indicates that the NVD-40 has an active power supply.

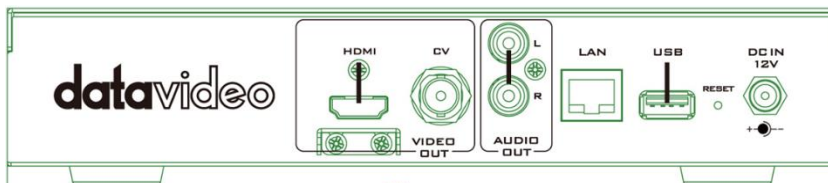


LAN Status LED

ACT LED: The flashing yellow ACT LED indicates LAN activity (data upload and download).

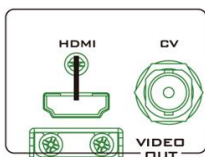
LINK LED: The green LINK LED indicates active LAN link.

Rear Panel



AUDIO OUT (RCA)

RCA stereo for a line level analogue audio.



HDMI OUT

HDMI digital signal output connector

CVBS OUT (BNC)

Composite video output



Ethernet Port (RJ-45)

10/100M base Ethernet Network interface



DC In Socket

Connect the supplied 12V PSU to this socket. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.

RESET



Reset Button

Press and hold for at least 5 seconds to reset the device to its factory default settings (including the password).

USB



USB

Functions currently under development.

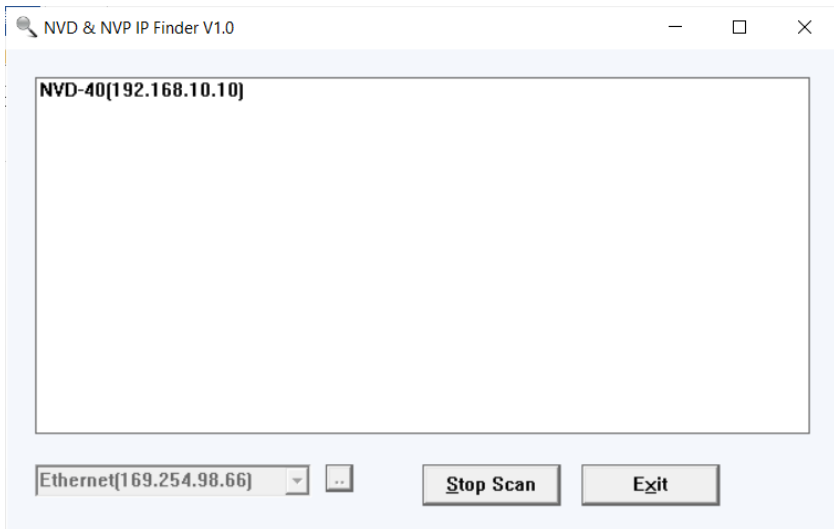
How to find the NVD-40 on an IP network

By default, once the physical connections have been established, the **NVD-40 will try to obtain an IP Address from a DHCP network server**. As we will see this can be changed later to a Static IP address if required.

How to use the NVD-40 IP Finder Utility Software

Datavideo supplies a free, *Windows based* utility, called **NVD & NVP IP Finder**. The utility is also available for download on the product page of the official website.

The first time this software is used on the computer you may need to allow it permission through your computer's firewall / anti-virus software in order for it to be able to scan or search the local network.



When the utility scans the LAN that the computer is connected to, it displays the current IP address for any NVD-40 units found on this local IP network. Double clicking on the device listed will automatically open your computer's default web browser and navigate to the login page of the NVD-40.

If you are using an Apple computer then you can use an alternative utility app such as Fing or Network Analyzer Lite.

NVD-40 Login using a Web Browser

Type the numbers of the IP address for the NVD-40 into the search bar of the browser. Remember to include the dots in between the numbers. When entered you will then be asked to login to the NVD-40.

Alternatively you can simply double click the IP address listed in the NVD-40 IP finder.



The image shows a web browser login interface for the NVD-40. It features a blue header bar with the text "Enter Your Login Credentials". Below this, there is a section titled "Login User" with a text input field labeled "Username". Underneath that is a section titled "User Password" with a text input field labeled "Password". At the bottom of the form is a blue button labeled "Login".

Default Login Details

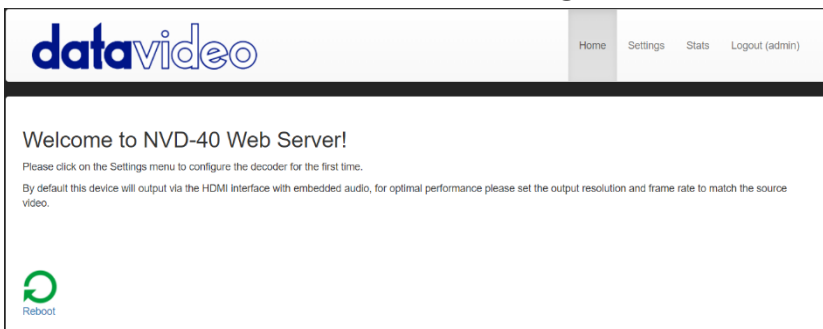
All NVD-40 units are delivered from the factory with the same default user name and password. This can be changed at a later stage to suit your needs.

User = admin

Password = 000000 [Zero six times]

Please Note: We recommend Google Chrome or Mozilla Firefox web browsers.

NVD-40 Web Browser Home Page



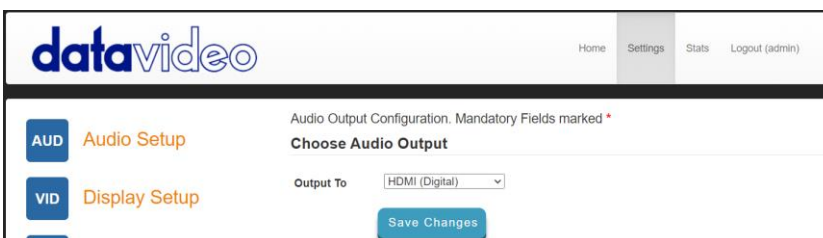
Once we have logged into the NVD-40 we are presented with the **Home** page.

Settings option

When clicked, the Settings option tab will open a new page. There are five sections of settings which can be looked at. These are: **Audio Setup**, **Display Setup**, **Network Setup**, **Live Stream Set Up**, **Cloud** and **Account Setup**, **STB Mode**, **CEC Control** and **Plugins**.

Settings > Audio Setup

By default, the NVD-40 will output audio over the digital HDMI connection. Alternatively, you can choose to output via the analogue audio via the RCA connections.



Settings > Display Setup

By default the NVD-40 will output video over the digital HDMI port at a resolution of 2160P 50 fps and RGB colour space.

Please note: The set resolution is only applied when the stream is decoding, the device will output your monitor's preferred resolution as it boots.

The screenshot shows the 'datavideo' web interface for the NVD-40. The top navigation bar includes 'Home', 'Settings' (active), 'Stats', and 'Logout (admin)'. The left sidebar lists various setup categories: 'AUD Audio Setup', 'VID Display Setup' (highlighted), 'NET Network Setup', 'LIVE Live Stream Setup', 'CLD Cloud', 'A/C Account Setup', and 'STB STB Mode'. The main 'Display Configuration' section contains a warning about resolution compatibility. Under 'Choose Output', 'Output To' is a dropdown menu currently showing 'HDMI (Digital)', and 'Rotate / Flip' is a dropdown menu showing 'Off'. The 'HDMI' section has 'Screen Resolution' set to '2160p 50 (64:27)' and 'HDMI Colorspace' set to 'RGB'. A 'Save Changes' button is located at the bottom of the configuration area.

Output To

Here you can select to output video digitally over HDMI or over the SD analogue composite connection.

HDMI (Digital)

When digital is selected you can select a screen resolution from SD PAL/NTSC right up to DCI 4K60. The NVD-40 will scale your source video to match the output resolution however the aspect ratio (4:3 or 16:9) should be matched to avoid black space on the output, for optimal performance match the output resolution to the source video. The colour space can be switched between YUV (YCbCr) and RGB, most video equipment will use the YUV colour space however if the colors appear wrong on your display please try RGB.

Composite (Analogue)

When analogue is selected the UI will change and you can only select between PAL and NTSC resolution with a 4:3 or 16:9 aspect ratio.

datavideo

Home

Settings

Stats

Logout (admin)

AUD

Audio Setup

VID

Display Setup

NET

Network Setup

LIVE

Live Stream Setup

CLD

Cloud

A/C

Account Setup

Display Configuration

Warning , not all resolutions will work on your display

Choose Output

Output ToComposite (Analog)

Rotate / FlipOff

Composite

Composite ModePAL

Aspect Ratio4:3

Save Changes

Rotate / Flip

Provides the option to rotate or flip (mirror) the video output, default is off.

Settings > Network Setup

datavideo

Home

Settings

Stats

Logout (admin)

AUD

Audio Setup

VID

Display Setup

NET

Network Setup

LIVE

Live Stream Setup

CLD

Cloud

A/C

Account Setup

STB

STB Mode

CEC

CEC Control

PLU

Plugins

Network Configuration. Mandatory Fields marked *

IPv4 Configuration

Network Type

Automatic Configuration(DHCP)

Static Configuration

Proxy

HTTP(S) Proxyhttp://your.ip.port/

Time

NTP

Leave blank for defaults

Servers(comma separated)

Security

Enable Telnet Commands

Save Changes

15

By default the NVD-40 will obtain its IP address automatically from a DHCP server.

If you intend to connect the NVD-40 directly to a PC or network without a DHCP server then you should assign a manually set IP address by selecting 'Static Configuration'.

We recommend that only advanced users who are aware of IP addressing set the manual 'Static Configuration' IP address. Your local network administrator or I.T. support may be able to help you with this.

Proxy

Here you can set the NVD-40 to connect to the internet via a proxy server. Proxy server is also a way to bypass a firewall if there is one. Simply enter the proxy IP and the port number as depicted below.

Proxy

HTTP(S) Proxy

Time

By default, the NVD-40 will synchronize its internal clock with public NTP servers, if your network does not allow connections to external servers you can specify your internal NTP servers here. It is important the internal clock is correct for secure HTTPS:// stream sources to work.

Time

NTP

**Servers(comma
separated)**

Security

Here you can enable the internal telnet server, this is used so that the NVD-40 can be controlled by third party applications using socket commands. Please see the socket commands section of this manual for more information.

Settings > Live Stream Setup

From this page you can configure the source stream for the decoder. The NVD-40 supports the following stream types:

- RTSP over UDP (Unicast / Multicast)
- RTSP over TCP
- RTSP over HTTP
- SRT (Secure Reliable Transport) caller
- MPEG-TS over UDP
- RTMP Pull
- RTMP Push (Internal Server)
- UDP raw (Unicast/Multicast)
- HLS over HTTP
- MPEG-TS over TCP Pull

Decoder Mode

Default mode should be used for decoding standard streams from encoders such as SRT, RTSP, RTMP, HTTP etc.

Selecting the **RTMP Server (Internal)** mode automatically generates an RTMP URL and a stream key which should be entered into the corresponding fields on Datavideo NVS devices or any other video streaming encoders.

The RTMP playback URL can be used to distribute the stream to multiple other decoders, the number of concurrent RTMP clients is limited only by the 100Mbps ethernet port.

Video Sharing & HLS mode should be used for decoding from supported video sharing websites, such as:

- Dailymotion
- Livestream
- Twitch
- UStream
- YouTube Live

Note: To decode YouTube Live streams, the **YouTube plugin must first be downloaded from the product page on the Datavideo official website and uploaded via the Plugins Page → Upload Plugins. Do not unzip the downloaded plugin.** Upload the file exactly as provided.

Please check the product page on the datavideo.info website for a full list of supported video sharing websites.

This mode also supports HLS streams, unlike **Default** mode you can select the resolution of the stream you wish to decode if the HLS stream contains multiple variants.

Input Stream

Enter the URL for the source stream here

Example for **Default** mode:

rtsp://192.168.1.50/stream1

rtmp://192.168.1.50/live/stream1

srt://192.168.1.50:9000

Example for **Video Sharing & HLS** mode:

<https://www.youtube.com/watch?v=y60wDzZt8yg>

Example for RTMP server mode:

rtmp://192.168.2.16:1935/stream/stream

Buffer Size

This determines how much video is buffered before playback starts, the default 0.3 seconds should be suitable for streaming over Ethernet but a larger buffer may be required in environments with poor network stability to achieve smooth video when streaming over the internet or WiFi. If you notice the video stuttering or the audio breaking up you should increase the buffer size.

Note: You might experience long delay if the buffer size is too big.

RTSP protocol

Only displayed if an RTSP stream is being used, the transport protocol can be manually specified.

SRT Latency

Only displayed if an SRT stream is being used. Secure Reliable Transport (SRT) achieves high-quality, low latency streaming across unreliable Internet connections via UDP packets. If packets are lost in transit to the NVD-40, a request to retransmit the lost packets is sent back to encoder. You can adjust the latency to improve the Quality of Service (QoS) of the stream and reduce the number of dropped packets. You can add from 20 ms to 8000 ms of latency to the SRT stream. Increasing latency gives more time to buffer packets and resend any that got lost in transit to the destination. If the latency value set for the stream is too low and there is packet loss over the network, retransmission of lost packets will not be possible, and the stream quality will suffer.

SRT Passphrase

If the SRT stream is encrypted, you must enter the passphrase here to decode the stream.

Decoding video from the NVS-33/34/35/40 encoders

To decode video from the NVS the NVD-40 must be on the same local network (Ethernet/WiFi) or be able to access the NVS stream over the internet.

When the NVS is in RTSP TCP/UDP mode

Simply copy the RTSP URL from the 'Live' tab of the NVS and enter it into the 'Input Stream' field on the NVD-40. When streaming over LAN it is recommended to set the NVS in RTSP (TCP/UDP) mode.

When the NVS is in RTMP mode Local server mode

Simply copy the RTMP URL from the 'Live' tab of the NVS and enter it into the 'Input Stream' field on the NVD-40

When the NVS-33/34/35/40 are in HLS mode

Simply copy the HLS URL from the 'Live' tab of the NVS and enter it into the 'Input Stream' field on the NVD-40

Please Note: When in HLS mode, the buffer size should be set to 1.0 seconds or higher, if you notice audio artifacts you should increase the buffer size.

Decoding a RTMP push stream

To decode a RTMP push stream, first set the decoder mode to RTMP Server (Internal) which should automatically generate an RTMP URL and a stream key. Simply enter the RTMP URL and stream key into the corresponding fields on Datavideo NVS devices or any other video streaming encoders.

[Home](#)
[Settings](#)
[Stats](#)
[Logout \(admin\)](#)

AUD

Audio Setup

VID

Display Setup

NET

Network Setup

LIVE

Live Stream Setup

CLD

Cloud

A/C

Account Setup

Stream Configuration.

You can stream directly to this decoder using the RTMP URL and stream key below

RTMP URL:

Key:

Playback URL:

Choose Input Stream

Decoder Mode:

Input Stream:

Buffer Size:

RTMP Key:

Decoding other stream types

To decode other stream types such as UDP multicast or TCP, simply enter the stream URL into the 'Input Stream' field of the NVD-40.

Listening for a Pushed UDP Stream

To listen for a pushed UDP stream, enter the following URL into the 'Input Stream' field of the NVD-40.

udp://@:9710

Replace 9710 with the port number of the pushed stream.

Decoding from a video sharing website

First you must set the decoder mode to 'Video Sharing', then simply copy the URL from your web browser into the 'Stream URL' field on the NVD-40.

For example:

<https://www.youtube.com/watch?v=y60wDzZt8yq>

Optionally you can select the preferred stream resolution.

Preferred

HD (1080p or lower) ▼

Stream

Settings > Account Setup

The NVD-40 has one admin user account and password. This account is used to keep the NVD-40 secure and gives access to the streaming settings.

Default user name = **admin** Default password = **000000** [Zero six times]

This section describes how to change the default username and password shown above to something new which is more secure.

1. Log in with the NVD-40 server as normal using the computer web browser.
2. Click **Setting**
3. Click **Account Setup**
4. Click admin and then enter the new **user name and password**.
5. Click 'Change Pass'

Please Note: Please be careful and memorize the new login details as the old or default login is deleted during this process.

Settings > STB Mode

The STB mode can only be used along with a Datavideo DVS-200 stream server or dv Cloud please visit <https://www.datavideo.com/> for more information on the DVS-200 and <https://www.dvcloud.tv/> for more information on dv Cloud.

When enabled, the NVD-40 will connect to the DVS-200 or dv Cloud server and download a list of available live and VOD channels, these channels will be displayed on the HDMI output. Channels can be selected using the supplied IR remote control.

When used with DVS-200 only HLS streams will be decoded so low latency is

not possible in this mode, when used with dv Cloud SRT streams will also be available if low latency is required.

STB Mode

When enabled, the 'Live stream setup' options will be disabled, the NVD-40 will display a channel list on the HDMI output and control is only using the [supplied IR remote](#).

Please Note: STB Mode is intended for use with HDMI output only.

Hostname: Enter the DVS-200 machines IP

Username: Enter the DVS-200 user accounts you wish to download channels from, you will only see channels this user account has access to.

Password: Enter the DVS-200 user accounts password

Upload background image

Here you can upload a custom background image, this image is displayed behind the on screen channel list.

Remove background image

Removes the uploaded background image and restores the default.

Once connected you will see the on screen channel list on the HDMI output.



RMC-12 IR Remote



The NVD-40 is supplied with the RMC-12 IR control. Its key definitions are as follows:

Vol + - Increases volume (only active when playing back)

Vol - - Decreases volume (only active when playing back)

CH List – Stops playback and loads the channel list

Play/Pause – Pause and resumes playback (only active when playing back)

Note: In STB mode, you can only pause for as long as the HLS playlist length on DVS-200.

OK – Plays the selected channel

Up – Used for channel list navigation

Down – Used for channel list navigation

Left – Used for channel list navigation and seeking during playback

Right - Used for channel list navigation and seeking during playback

Return – Used to close the channel list and resume playback of the last seen channel

Power – Turn NVD-40 into standby mode

Settings > CEC Control

This menu option allows remote users to turn the attached HDMI display on or off where the attached monitor supports this feature.

The screenshot shows the datavideo web interface. At the top, there's a navigation bar with the logo and links for Home, Settings (active), Stats, and Logout (admin). Below the navigation bar, there's a sidebar with menu items: AUD Audio Setup, VID Display Setup, NET Network Setup, LIVE Live Stream Setup, CLD Cloud, A/C Account Setup, STB STB Mode, and CEC CEC Control (highlighted). The main content area shows the CEC Mode set to 'Normal' and a 'Save Settings' button. Below this, there are two power buttons (one with a power symbol, one with a power symbol and a checkmark). A status bar at the bottom indicates 'CEC 'standby' command was sent to display'.



CEC 'on' command was sent to display



CEC 'standby' command was sent to display

Note: The CEC feature needs to be enabled in the attached monitor settings as well as on the NVD-40.

Settings > Plugins

This page allows you to upload a .zip file containing the latest plugins for **Video Sharing & HLS** mode, this function should only be used if you are instructed to do so by a Datavideo support representative.

Settings > Cloud

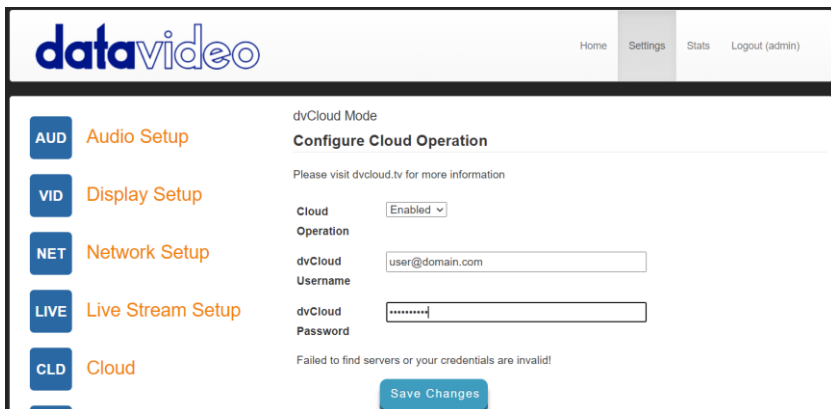
Cloud mode allows the NVD-40 to be connected to dv Cloud (<https://www.dvcloud.tv>) and offers the following features:

- Control the NVD-40 settings from anywhere over the internet
- Monitor the NVD-40 from anywhere over the internet
- Easily link the NVD-40 to encoders via the cloud
- Use SRT (secure reliable transport) for reliable low latency point to point links over the internet

Connect the NVD-40 to dv Cloud

You must have a dv Cloud subscription to use this feature, please visit <https://www.dvcloud.tv> to sign up.

First enable cloud operation then enter your dv Cloud username (the email address you used when you signed up) and password and click 'Save Changes'



The screenshot displays the 'Settings > Cloud' interface of the NVD-40. On the left, a sidebar lists configuration categories: AUD Audio Setup, VID Display Setup, NET Network Setup, LIVE Live Stream Setup, and CLD Cloud (which is highlighted). The main content area is titled 'dvCloud Mode' and 'Configure Cloud Operation'. It includes a note to visit [dvcloud.tv](https://www.dvcloud.tv) for more information. A 'Cloud Operation' dropdown menu is set to 'Enabled'. Below this, there are input fields for 'dvCloud Username' (filled with 'user@domain.com') and 'dvCloud Password' (masked with '*****'). A status message at the bottom of the form area reads 'Failed to find servers or your credentials are invalid!'. A blue 'Save Changes' button is positioned at the bottom right of the configuration section.

Next select the dv Cloud server you wish to connect to and optionally give the decoder a name (for example “NVD-40”). If you do not set a device name, the decoder’s serial number NVD-40-1000000032022281 will be used.

dvCloud Mode

Configure Cloud Operation

Please visit dvcloud.tv for more information

Cloud

Enabled ▾

Operation

dvCloud

Username

dvCloud

.....

Password

dvCloud

Servers

Device Name

NVD-40

Save Changes

Click ‘Save Changes’, the NVD-40 should now be connected to dv cloud.

Control via dv Cloud

Select ‘Decoders’ from the ‘Hardware’ menu.

datavideo

SourcesRecordingsStatsUsersGroupsHardware ▾SettingsLogout (admin)

Add a video source

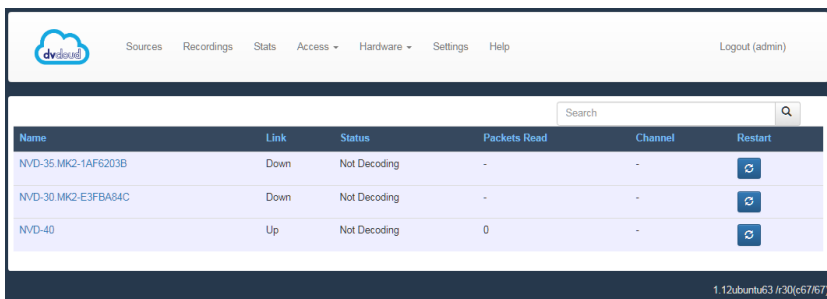
BB-1 Devices
Decoders

Q

Any ▾

Name	Preview	Actions	URL's	Monitor
------	---------	---------	-------	---------

You will see the NVD-40 listed as shown below.

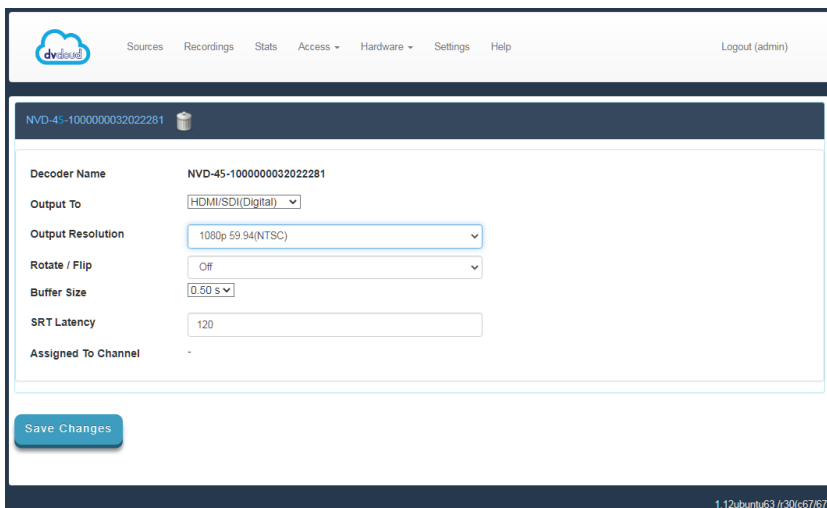


The screenshot shows the dvcloud web interface with a navigation bar at the top containing links for Sources, Recordings, Stats, Access, Hardware, Settings, and Help, along with a Logout (admin) button. Below the navigation bar is a table listing three decoders. The table has columns for Name, Link, Status, Packets Read, Channel, and Restart. The third decoder, NVD-40, is highlighted in blue and shows a status of 'Up' and 'Not Decoding'.

Name	Link	Status	Packets Read	Channel	Restart
NVD-35.MK2-1AF6203B	Down	Not Decoding	-	-	
NVD-30.MK2-E3FBA84C	Down	Not Decoding	-	-	
NVD-40	Up	Not Decoding	0	-	

1.12ubuntu63 /r30(c67/67)

Click the decoder's name to access its settings remotely.



The screenshot shows the settings page for a specific decoder, NVD-45-1000000032022281. The page has a navigation bar at the top with links for Sources, Recordings, Stats, Access, Hardware, Settings, and Help, along with a Logout (admin) button. Below the navigation bar is a form with the following fields:

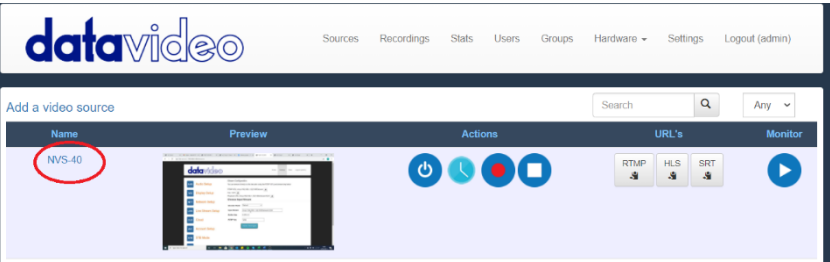
- Decoder Name: NVD-45-1000000032022281
- Output To: HDMI/SDI(Digital)
- Output Resolution: 1080p 59.94(NTSC)
- Rotate / Flip: Off
- Buffer Size: 0.50 s
- SRT Latency: 120
- Assigned To Channel: -

At the bottom of the form is a 'Save Changes' button. The footer of the page shows '1.12ubuntu63 /r30(c67/67)'.

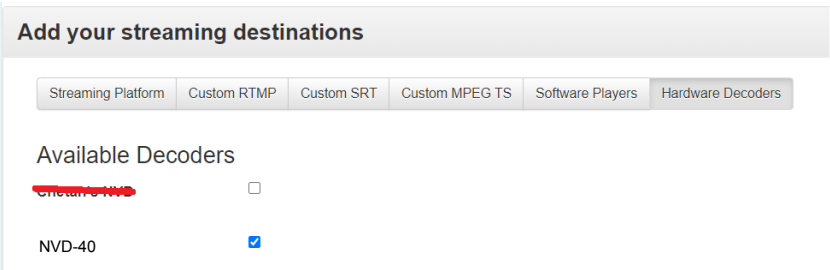
Link to a live channel on dv Cloud

For help with setting up your encoder with dv Cloud, please see the separate support material on <https://www.datavideo.info/>.

Click on the video source name.



Select the 'Hardware Decoders' tab under 'Add your streaming destinations'



Select the check box next to the decoder you wish to link and then save the settings.

You will see the NVD-40 is now linked to the channel NVS-40 on the 'Decoders' page.



You can monitor the decoder's status from the 'Stats' page.

The screenshot shows the 'datavideo' interface with a navigation bar containing 'Sources', 'Recordings', 'Stats' (highlighted with a red circle), 'Users', 'Groups', 'Hardware', 'Settings', and 'Logout (admin)'. Below the navigation bar, there are two main panels. The left panel, titled 'NVS-40', displays the following statistics: Video Codec: H264, Width: 1280, Height: 720, Audio Codec: AAC, Channels: 2, and Input Data Rate: 1704.72kbps. The right panel, titled 'Studio One', displays 'FPS: 30' with a green status indicator. A blue vertical button with two white left-pointing chevrons is positioned between the two panels.

NVS-40	
Video Codec	H264
Width	1280
Height	720
Audio Codec	AAC
Channels	2
Input Data Rate	1704.72kbps

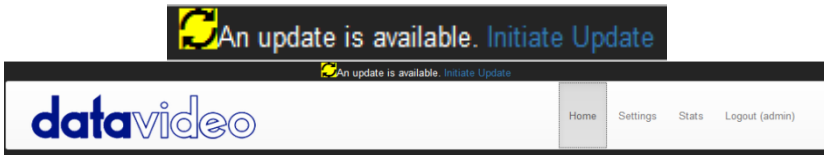
Studio One	
FPS:	30

Automatic Firmware Updates

The NVD-40 features an automatic update system to avoid the need for the user to have to manually install firmware upgrades.

The NVD-40 will automatically check for updates whenever it is connected to the internet.

You will be notified if an update is available; a message will appear at the top of the interface. Simply click the 'Initiate Update' link to start the process, you can monitor the status of the update from the 'Stats' tab.



Datavideo NVD-40 Socket Commands

Using third party applications, users can easily connect to the NVD-40 using Telnet. To establish a connection with the NVD-40 simply open a Telnet connection to the NVD units IP address on port 23.

Please Note: Socket commands are disabled by default, to enable socket commands please check the appropriate option in the 'Network Tab'.

The NVD unit has three responses to commands:

FAILED: shows that the command could not be executed successfully.

OK: shows that the command is executed without any problem.

Invalid Command: shows that the command was not recognized.

The control commands are as follows:

Load [URL] An example of this command would be

Load "rtsp://192.168.1.1/stream1"
OK

On Sends CEC on command (NVD-40 Only)
Off Sends CEC off command (NVD-40 Only)

Reboot Restarts the unit

Status Prints the current status
(Stream URL & Display information)

Port Forwarding on your firewall / router

So that an NVS-33/34/35/40 video stream can be seen on the internet (beyond the default gateway), certain network related 'ports' should be opened on your router or firewall. Your local network administrator or I.T. support should be able to help you with this.

Enable the "port forwarding" function or open below ports within the router settings.

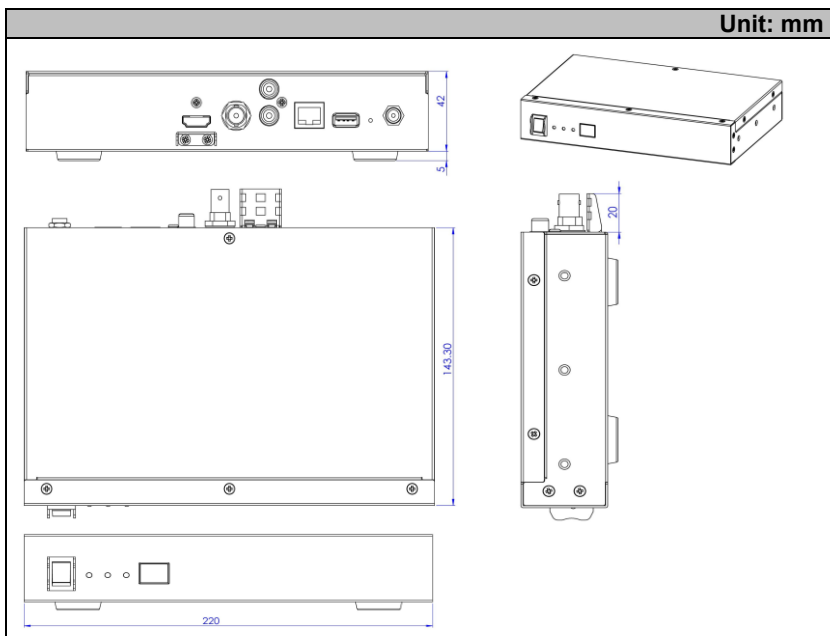
Web Server/HLS	RTSP	RTMP
80	8554 (over TCP)	1935 (RTMP)
	8000 (over HTTP)	8080 (RTMPT)
	8080 (over HTTP)	8081 (RTMPS)

Frequently-Asked Questions

This section describes problems that you may encounter while using the NVD-40. If you have any questions, please refer to related sections and follow all suggested solutions. If problem still exists, please contact your distributor or the service center.

No.	Problems	Solutions
1	How to use SSH to connect?	The NVD-40 does not support SSH. An alternative solution is Telnet which can be enabled on the web UI.

Dimensions



Specifications

Interface	
Audio/Video Input	RJ-45 Female (10/100M Ethernet) x 1 DHCP/Static IP
Video Output	HDMI 2.0 x 1 (Digital) Composite x 1 (Analogue)
Audio Output	RCA (L/R) x 2 HDMI embedded audio
Indicator	Power LED x 1, LAN LED x 2 (Active, Connection)
USB	1
IR Receiver	Yes
Reset Button	Yes
Power Supply	DC 12V
Standards	
Video Resolution	3840x2160p: 60/59.94/50/30/29.97/25/24/23.98 (H.265 Only) 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080i: 60/59.94/50, 720p: 60/59.94/50 480i 60 NTSC, 576i 50 PAL
Streaming Protocol	RTSP over UDP (Unicast / Multicast) RTSP over TCP RTSP over HTTP SRT (Secure Reliable Transport) caller MPEG-TS over UDP RTMP Pull RTMP Push (Internal Server) UDP raw (Unicast/Multicast) HLS over HTTP MPEG-TS over TCP Pull Supported video sharing websites
Audio Sample Rate	48 kHz
H.264/265 Max Bitrate	H.264: 40 Mbps H.265: 30 Mbps

General	
Control	Web browser UI for configuration and control TCP/IP Socket commands
Update	Automatic firmware upgrade
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	10% to 80% (non-condensing)
Power Consumption	12V / 7.2W
Dimensions (mm)	220 x 143.3 x 42
Weight	1.0 Kg

Notes

Notes

Notes

Service & Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo.com for answers to common questions, support requests or contact your local office below.

Please visit our website for latest manual update.
<https://www.datavideo.com/product/NVD-40>



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