



Formuler Media Box Advantges and Features

Formuler media devices come equipped with a user-friendly interface, high-quality streaming capabilities, and advanced features such as electronic programming guides (EPG) and 4K streaming support at 60 fps. (your TV must support 4k viewing)

The MYTV Oline 3 player: allows users to manage how they view the electronic programming guide (EPG) / (Channel Guide). For a more enjoyable experience, you can move and arrange channels within the favorites guide in the order that works best for you. You can Add and Delete Channels in Favorites, Pin Watchlist Groups and Hide watchlist Groups, making it easier to find your watchlist content.

Specification and Connection Ports.



*USB Port 3.0:1 locate on the side of the device

Output Resolution: 4K (3840 x 2160)

CPU: RealTek RTD1319C

GPU: Mali-G57 MC1

RAM: 4GB DDR @2400MHz

Storage: 32GB eMMC

Operating System: Android 11

Networking

Wireless: AX 2x2

BT: 5.0

Ethernet: 1000M (Gigabit)



CAUTION: To avoid electrical shock or power surge, disconnect power source when connecting and disconnecting cables.

Getting to know your GTV-IR1 Remote.

Locate your remote and get familiar with the keypad layout and locations using the remote guide below. Some keys are multi-function allowing you to go to different pages and functions. You can setup hot keys to quickly go to an app, page, Mouse Function, and Vol Mute

For your convenience, the device has been setup to turn on and off both the TV and device by using the standby key. You may have to setup your TV to let the device control the On and Off feature in your TV settings. Be sure to adjust the volume on your TV to your liking. When done exit out of your TV and use the device remote to control the volume while watching TV.

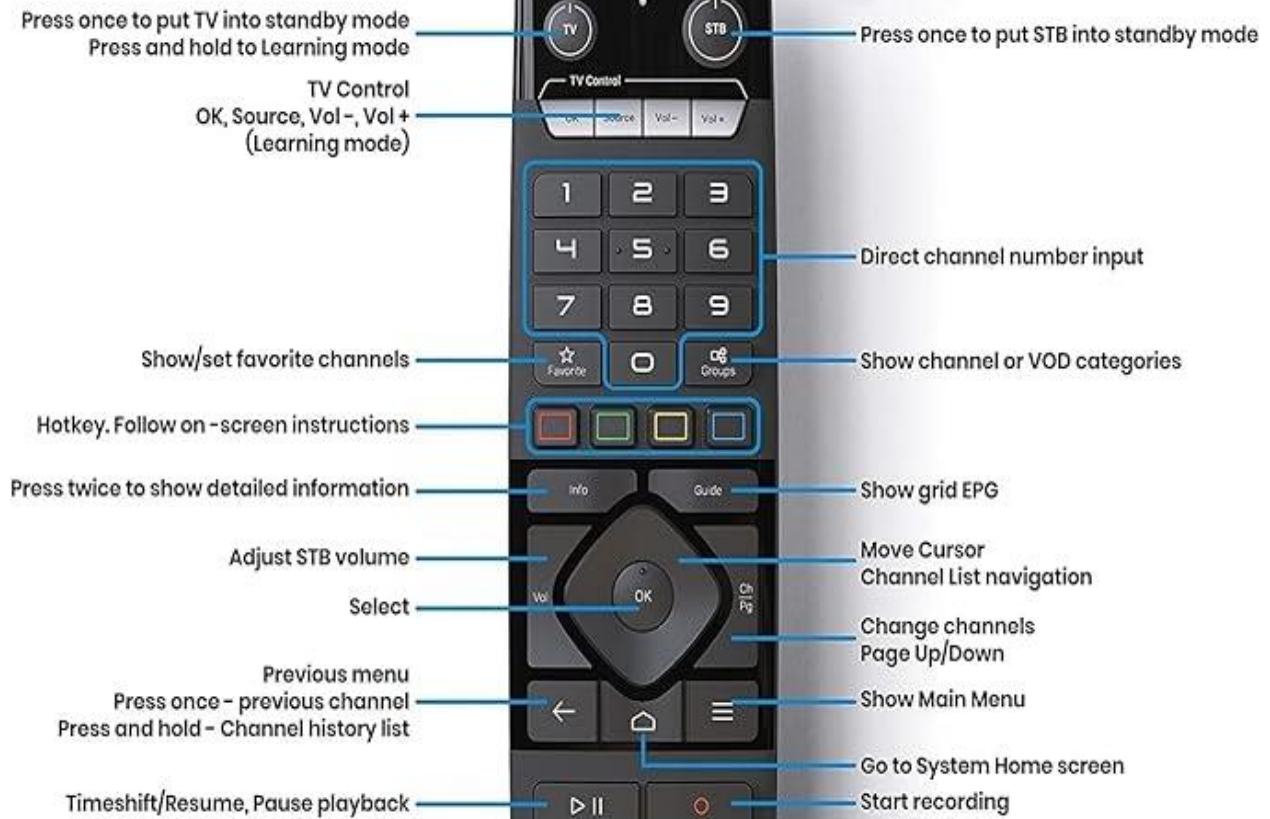


Powered by
androidtv

FORMULER

IR1

**Premium Learning
IR Remote
With TV Control**



Remote Keypad Description.

Remote Key Description.

TV Key: Used for remote learning and TV standby.

STB Key: Puts Device in standby (off mode) standby will turn TV and device off and on

TV Controls: Used to control TV functions (if programmed).

Number Key: Channel number input.

Favorite Key: Takes you to your favorites.

Group Key: Shows playlist groups.

Hotkeys: Go to the home screen. In the app section scroll to the Formuler Remote app and click to open. Choose GTV-IR1 and click on setup hotkey to program hot key.

Info Key: Press to Show detailed channel info, press again for more info.

Show Grid Key: Shows EPG channel grid. (TV Guide)

Adjust STB Key: Adjust sound volume up and down.

Center Dimond Keypad: Navigate up and down and to left and right.


OK Key: (Is multifunction)

Remote Key Description.


CH Page Key: Change channels on the selected group you are watching. i.e. (favorites)

Arrow Key:  (Multi-functional)

- Back / Escape to exit out of pages and apps.
- When viewing a show, press once to switch to previous channel watched.
- Press and hold to bring up Channel History.

Home / House Key:  Takes you to the Formuler home screen.

Three-line Key: Takes you to settings and option screen.

Pause and Forward:  II pause live and VOD programs. (Micro-SD card required)

Red Circle Key: Start Recording channel.

User Program Keys: Hotkeys that you programmed. **Not Shown on diagram**, 2 dot / 3 dot and 4 dot keys.

Locking Channels: It is possible to lock channels on the device. If you are locked out of a channel, a popup screen will appear asking for the code.

The default pass code is 0000 to unlock channel. Follow the steps below to stop locking feature in the future.

To unlock channel, click on the **Info Key on the channel that was locked**. Channel info will appear on the bottom of the screen. Then use the down key on the remote to show icons. In between the Search and Star icons is a padlock. To unlock channels, click on the padlock to either lock or unlock the channel and verify your selection.

About the Apps you will be using.



Should I use a VPN if I'm streaming?

Although you can stream not using a VPN, **it's highly recommended to use a VPN when you're streaming.**

Internet service providers (ISPs) log and track your browsing history through your device's unique IP address. The ISPs could also block you from using inappropriate websites or throttle your internet connection when the internet is overloaded.

This information could potentially be sold to third-party advertisers, given to the government, or left vulnerable in the face of security compromise. By routing to a remote VPN server instead of your ISP's servers, a VPN masks your IP address, prevents ISP tracking, and keeps your personal data private.

Subscription is included and installed on all devices.



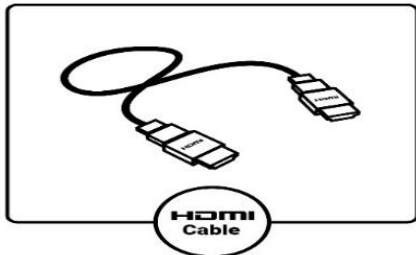
MYTVOnline3 is the best media viewing client in the market providing users with a professional and trendy user experience and interface. Powerful functions for viewing contents and seamless integration with Android system allows users to enjoy a variety of media from various sources at top speed.



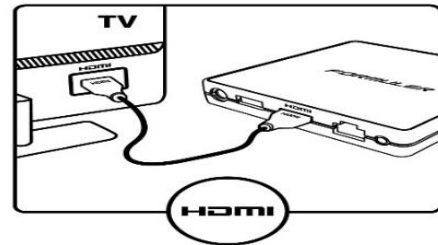
Is your internet as fast as you expected? An online speed test can help you determine if you're receiving the speeds you've paid for.

In today's hyper-connected world, a fast and reliable internet connection is no longer a luxury but a necessity. A sluggish internet connection can be very frustrating.

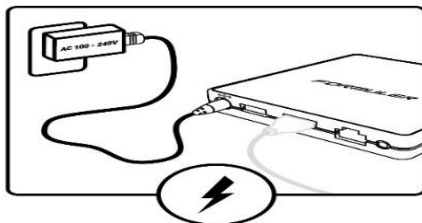
Connecting your Device and TV for the First Time.



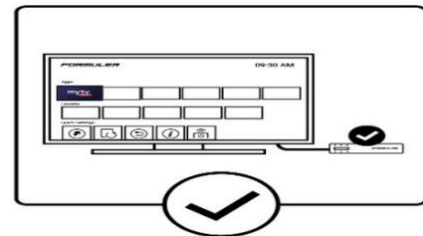
1. Remove the HDMI cable, power cord and remote from the box. Use the 4K HDMI cable that came in the box.



2. Plug one end of the HDMI cable to a HDIM port on the TV and other end to the HDMI port on the box

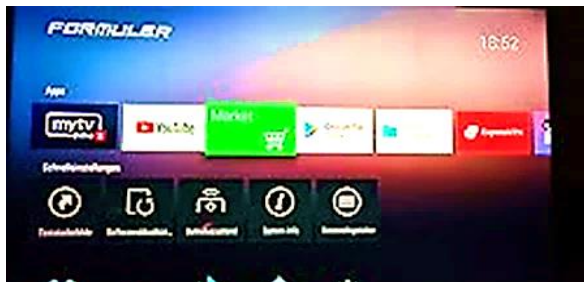


3. Locate the power adapter. Plug one end into the device first and then to the power outlet. Turn on your TV.



4. Select the HDMI connection that you connected to on your TV. The home screen will display.

Formuler Home Screen.



You will notice looking at the device itself, a white light bar indicating the device is On. Using the STB button, **quick press once**, a red-light bar will appear indicating it's Off.

After powering on the device, you should now see the Formuler home screen on your TV. The home screen is divided into three sections. Top row icons are the apps to view different content. The middle row icons are system quick settings and information. The bottom row icons are advance settings. We will cover more on the home screen later in

Connecting Your Network Wi-Fi and VPN Connection.

Formuler Home Screen.



With your TV, and Formuler device on, the Formuler home screen will display on the TV screen. This is where we will setup your internet connection for Wi-Fi or if you chose to use an ethernet cable.

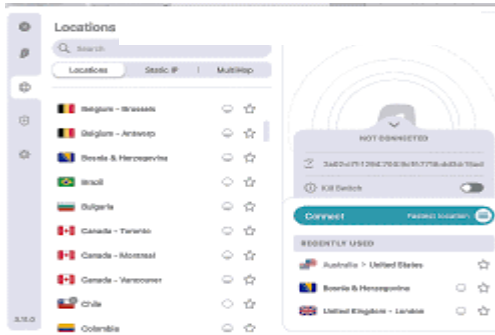
Step 1. How to connect to your Wi-Fi network.

To connect your Wi-Fi, You Must disconnect the Ethernet Cable (if installed) when connecting to a Wi-Fi network. If You will be Using an Ethernet Cable, go to Step #2

How To Connect Your Wi-Fi.

1. On the home page. **Go to Settings > Click OK > Network & Internet > click OK** look for your internet connection and **Click OK**.
2. Check that the Wi-Fi toggle button is turned on. (Toggle Button will be Blue when ON) If you are using an ethernet cable for your internet connection, (turn the toggle OFF Not Blue, and go to Step Two)
3. Find and select your Wi-Fi network from the list. **Click OK** on your network.
4. Use the screen keypad to enter your Wi-Fi password. **To show password, use the arrow key ← to collapse the keypad.** Use the down key and highlight show password, **Click OK**. A check mark will appear in the show password box. Continue to enter password, when finished scroll down to the **Check Mark** on the keypad and **Click OK**. On the next page scroll down and over to the next and **Click OK**. It will start connecting and when connected you should see Wi-Fi connected.

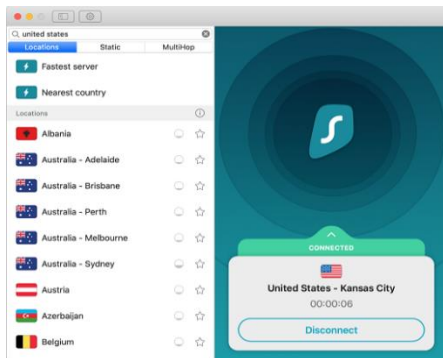
Step 2. Connect your VPN for Security and Privacy While Streaming.



On the SurfShark home page, **Click OK** on the SurfShark® app. Look for **Quick Connect** on the right side of page, **Click on it**. You should now see a **green box** that will say **Connected** with the location you are connected to.

We will cover more on SurfShark® VPN later in the guide on how to navigate and get different connections.

Step 3. VPN Connection for Startup.



Green Box will display connected and the location you are connected to. Box will turn RED when disconnect. Exit out when finished.

Use the arrow key ← to exit out of SurfShark®.

← Green Connection Box.

Note: You will not need to connect your SurfShark® VPN every time you want to view live TV. Once you have connected a VPN location it will remember the location when you power on the device. You would only need to return to SurfShark® if you are experiencing buffering, and need to change the location that will work best for you, or to disconnect / reconnect for some reason. We will cover more on SurfShark® later in the Guide.

MYTV OLINE 3



MYTV Oline 3 app is the player you will use to watch live TV and videos-on-demand, that have been downloaded on the player. The player takes this content and arranges them into what is called the Watchlist. The content in the watchlist is then broken down into Groups and labeled into categories.


Example: Favorites, News, Entertainment, Movies etc... We will learn more on this in the guide. before we begin on how to access channels in the TV guide / (EPG electronic program guide. Let's take another look at the remote. Let's start with how to turn On and Off the device and TV.

Locate the STB key at the very top of the remote. The STB key (stand-by key) will turn the TV and Device on and off. The **TV Key** to the far top left will have no function with the STB controlling both the TV and device. Using the **STB Key** puts the device in stand-by (Off / Red Light Bar) and (On / White Light Bar) on the device. Stand-By, allows the device to update the channel guide and will also allow the device to turn on when a recording has been scheduled. When the recording has finished the device will go back into Stand-by. You can turn Off the TV and Device, using the STB Key anytime while watching a show when finished watching TV.

Let's Start Streaming Live TV.

With your internet network and SurfShark® connected, **Click on the MYTV 3 Oline app.** Your local channels have already been added to your favorite section at the time of purchase and should now be viewing a TV show. To adjust your volume, adjust the Device volume about halfway or less. Then adjust your TV volume to a comfortable level. After you have adjusted the volume level use the device volume keys to control the volume. If needed readjust the TV volume to achieve the volume to your liking.

Accessing TV Channel Guide Using the OK Key.

While viewing a TV show in full view mode, **Quick Press OK** button on the remote, A popup screen will appear showing two panels on the screen. View the screen carefully and look at the very top left of the screen. The heading will show the group and description of the group you are viewing with the number of channels. Let's say for instance, the group shows favorites, you will notice a star next to each channel description. The star means it's saved in your favorites. You can scroll up and down the channel list. Select the channel you want to watch **Press OK the channel will appear, press ok again** on the remote to watch the program OR use the arrow key  Quick Press to exit.


To view different Watchlist Groups, Stay On the screen to continue.

To change groups and view other channels to watch or save, click on the **Left Key** on the navigation keypad. The screen will change from two panels to three panels, The panel on the far left is called the watchlist. This is where all the channels and video-on-demand are stored, you will notice that they are broken down into categories. Highlight on the group you want to view **Click OK**, scroll down the channel list, and select the channel you want **Click OK when the channel appears in the small screen, Click OK** to watch the channel.


Shortcut to Different Groups Using the Group Key.

While viewing a show, press on the **Guide KEY**. A pop-up screen will display with the program you are watching playing in the background. You will see the channel list and the watchlist with different category groups to access channels to watch. Select a group, Scroll down the list to highlight the group you want; **Click OK** the channel list will display the channels in that group. Scroll to the > right and select a channel you want to watch and when highlighted **Click OK**.

Changing Channels Using Channel page. UP and Down Keys.


Use the navigation Keypad up and down **Page keys** on the remote to change channels within the group you are currently in. To change groups, use the **Up Key** on the keypad, a popup screen will appear, use the Left key to choose a different group and **Click OK** the channel list will appear for that group. Scroll to the > right and select the channel you want by clicking **OK**. If no changes were made, quick press the arrow key  to exit.

How do I switch from Current to Previous Channel.



To switch from current to the previous watched channel, Quick Press the arrow  key to switch to the previous channel and click again to go back to current channel.

How to Manage Channels in favorites.

Saving Channels in Favorites.


When viewing a TV show in full view mode, **Click OK** button on the remote, A popup screen will appear showing two panels on the screen. To change groups and view other channels to save, Click on the **Left Key** on the navigation keypad. The screen will change from two panels to three panels, The panel on the far left is called the watchlist. You will notice that they are broken down into categories. **Select** the group you want to view, and the channel list appears for that group. Scroll over to the right to the channel list and select the channel you want to save. Once you have selected a channel, **Do Not Press the OK Button**. To save the channels in your favorites, locate the **Red-Green-Yellow and Blue hotkeys above the navigation keypad on the remote**. To save your channel selection **Click on the Blue Squire Hotkey on the remote**. Your channel will now have a star indicating it's saved in your favorites. **Clicking the Blue Squire Hotkey** again will remove the channel from your favorites. When finished quick press the arrow key  to exit.

How To search For Channels.

On the TV remote, locate the **squire color keys** on the remote. **Click on the Green Squire Key**, the keypad will appear. Use the remote to navigate on the keypad, select the letters by highlighting them and **Click OK** on each letter to type in the channel name. As you are typing, names will start to populate. When you see what you are looking for, scroll up and select the channel and **Click OK**. To clear the search bar, use the delete  key on the screen keypad to delete the entry. When finished **Click** the Arrow Key,  click a few times to exit


How To Arrange and Delete Channels in Favorites.

To arrange the channels in favorites in the order they are viewed. Using the remote, **Click** on key with the **Three Lines**. The settings screen will appear on the left side of the screen. Scroll down to **Content Manager**, scroll down to **Manage Favorites** and **Click OK**. Click on Favorites and scroll to the > right to your channels. **Long Press** on a channel, a trash can will appear. You will also see up and down arrows next to the channel description.

1. To move **Long Press OK** move the channel with the up and down keys and once positioned **Press OK**. Continue with the other channels until you have them in the order to your liking.
2. Right clicking on the channel will send it to the trash can and delete it. When finished use the arrow key  to exit, press a few times.

How to pin Watchlist groups.


Pinning Groups is helpful for the user that have many watchlist groups they use and are not hidden. Pinning Groups allows the customer to pin certain watchlist groups and puts them at the top of the list for easy access without having to search down the watchlist.

1. On your device remote, **click** on the button with **Three Lines** located next to the Home / House Key.
2. Using the down key on the remote, go to **Content Manager > PRESS OK**.
3. Using the down key on the remote, go to **Manage Groups > PRESS OK**.
4. **PRESS OK on TV Groups**. You will see All Groups.
5. Scroll down to **Pin Groups and Press OK**. Scroll to the right to select the group to be pinned and **PRESS OK to pin**.
6. You will see a note pin next to the category you chose to pin. You have now pinned a watchlist group to the top of your watchlist. To **Unpin Press OK Again**. When finished, use the arrow key  to exit, **press a few times**.

How to Show & hide Watchlist Groups.



The watchlist has many groups listed in categories i.e. favorites, news, entertainment etc. that you get your TV channels from. You can hide / shorten the group list, so you only have the groups you want. I would recommend that you view each group and save the channels you want into your favorites before hiding. You can at any time unhide them when you want, they will not go away or be deleted.

To start, click the key on the remote with the **Three Lines**. Settings screen will appear. Use the down key and scroll down to **Content Manager, Click OK. > GO to Manage Groups Click OK > Click OK on TV Groups**.

You now have entered all groups. Use the right key to scroll over to the watchlist groups. You will see the watchlist groups with a check mark and the channels in that group to the right. To Hide the group, Select the group you want to hide and **click OK** the check mark will disappear hiding that group. To unhide **Click OK again** the check mark will be added to show that group. When finished, use the arrow key  to exit, **press a few times**.

How to Record While Watching a Show.

To record channels, you will need a **Micro SD Flash Card** to store recordings. In most cases we recommend **NTFS format for use with Formuler Boxes**. If you would like to record, we offer **Micro SD cards already formatted for an additional cost or you can purchase your own and format it**.

1. Insert a correctly formatted USB into your Formuler.
2. Click on the **Guide Key** to bring up the TV guide on the current watchlist.
3. Scroll to a channel you want to record. With the channel highlighted **Click on the OK key**. You will go to that Channel.
4. When the channel appears, a progress bar will appear at the bottom show.
5. Use the down key on the keypad, to access settings. Scroll over to the circle with the dot in the center and click OK. A tab will appear click OK. A red dot will appear at the top right of the screen indicating it's recording. You can also stop recording while this page at the top left of the page. **When finished, use the arrow key  to exit.**
6. If you decide to stop the recording, **Click on the Info Key**. When the progress bar appears use the down key and scroll back to the circle with the dot in the middle click on it. When the screen appears at the top right you will see Stop Recording. Scroll over and Click OK on stop recording. When finished, use the arrow Key  to exit.

Note: simultaneously watching a show while recording another may interrupt the recording, due to high resolution content at 60 fps for each show being download from the internet.

How to Schedule Recordings.

7. Insert a correctly formatted USB into your Formuler.
8. In Live TV, click on the **Guide Key** to bring up the TV guide.
9. Scroll to a channel you want to record. Scroll to the > Right in the guide to the show and time slot you want, when highlighted Click **on the OK key**. A pop-up screen will appear. **Click OK on Set Recording**. Pop-up screen will appear.
10. View the information for the channel you want to record, scroll down to either save or cancel the recording **Click OK**. The screen will return to the TV guide.
11. If you saved the recording, you would see a **red recording progressing bar** in the time slot row letting you know you have a recording scheduled for that time slot.
When finished, press arrow key ← to exit.
12. If you want to check and see your recording is scheduled, **Click on the Key with the Three Lines**. The settings screen will appear on the left. Scroll down to schedule and **Click OK**. You will see your scheduled recording if scheduled.
When finished, press arrow key ← to exit.
13. If when watching TV, a pop-up screen will appear just before your recording

How to play and Delete Recordings

1. To play or delete recordings, click on the remote key with the **Three Lines**.
2. Scroll down to Recordings and **Click OK**. Scroll > over on to a recording you want to watch. With the recording **Highlight Quick Press Click OK** to watch. To exit out of the recording, Press the arrow Key ← to exit and chose the screen options.
3. To delete a recording, Highlight the recording you want to delete and **Long Press the OK Key**. A check box will appear. **Quick Press OK** to check the box.
4. On the remote find the **Green Squire Hot Key** and Quick Press, a popup screen will appear asking if you want to delete, Click OK. Use the arrow key ← press a few times to exit.

How to Pause and Advance Forward and Back on Live TV


To pause and advance forward and back watching live TV, Requires a micro-SD card formatted in an NFTS to capture the screen while playing. Capturing the screen, allows you to pause or advance forward / back. Advance forward and back are set for 10 seconds and is adjustable to your preference.

1. To pause, click on the **Quick Press Pause Key >||** on the remote. To un-pause **Quick Press Pause Key >||** twice.
2. To advance forward or back, press on the **Left Key** on the Navigation Keypad. The progression bar will appear. Use the **Left Key to Advance Back** and the **Right Key to Advance Forward**. When finished, you'll return to viewing the show.

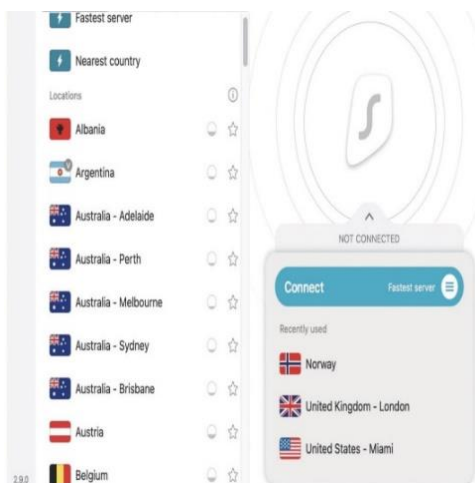
Navigate and Changing VPN Locations in SurfShark®

Important Reminder: Although you can stream not using a VPN, **it's highly recommended to use a VPN when you're streaming.** Internet service providers (ISPs) log and track your browsing history through your device's unique IP address. The ISPs could also block you from using inappropriate websites or throttle your internet connection when the internet is overloaded. If your ISP throttles your internet speed, streaming will become very difficult, especially during major sports events when the internet use is high. By routing to a remote VPN server instead of your ISP's servers, the VPN masks your IP address, and prevents your ISP from blocking and tracking you while keeping your personal data private.




Use the home key  on the remote. Go to SurfShark® VPN on the Formuler Home screen (if not already) On the home screen, click on the SurfShark® app, the status and navigation page will open.

Connect and Disconnect SurfShark® VPN.



On the left side of this page at the very top is the search bar. Here you can type in a country you want to search (example; USA). The country will display different cities you can connect to. You will also notice to the right of the country or city a circle partly shaded, indicating the internet traffic on that connection, the more shaded area the more traffic. This does not mean you can't use that connection it's only an indicator. Next to the circle is a star, clicking on the star next to your selection will become shaded saving it in your favorite locations, The star must be shaded to save to favorites, click on the star again to unshaded will take it out of your favorites.

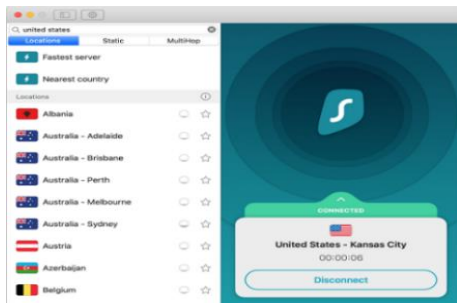
In the diagram above, notice the blue box displaying connect or quick connect. Pressing on the connect button will automatically connect you to the fastest and nearest connection. Confirm connection, exit out of SurfShark® use the arrow key  click once to exit. Go to MYTV Oline3 and click to open. A TV show should be playing, check to see if it's playing ok, then try different channels to verify that the VPN connection is working for you. If the connection is not working for you, Go Back to SurfShark® and try connecting to one of your favorites or choose a different VPN location. Cont.




On the right side of the page is your connection status, you will see a green tab saying connected and location you are connected to. If the tab is Red, your VPN is not connected. On the left side of the page, you will see, Fastest Location, Nearest Country, and Favorites and at the very top Search. This section of the page is where you will choose different VPN connections to connect to. Some locations have already been added to your favorites that work for most customers.

Depending on your internet connection and where you are connecting to, some VPN locations work better than others. You will need to explore different locations to find what works best for you when you encounter issues, i.e. Buffering while streaming. We do not recommend you make any changes in the settings or features tab unless instructed to do so.

Disconnecting your VPN Connection



With your VPN is connected, you will see on the right side of the page your connection status. The Green Box will say Connected, and showing where you are connected to. At the bottom, you will see the disconnect tab. Click on disconnect and the green connection tab will turn from Green to Red displaying Not Connected.

It's highly recommended to use a VPN when you're streaming. However, there are times when you may need to disconnect your VPN to troubleshoot your connection speed from your internet service provider. With The VPN disconnected, use the arrow key  **click once to exit.** On The Formuler home screen, **Click on Fast.** When app finishes checking, you will see your internet speed from your provider. Note: you may have to click on it a couple times to get an average it is just a snapshot of your speed. Be sure to reconnect your VPN when finished. For more accurate test, you can use SpeedTest by Ookla on your laptop / PC or download it on your phone for the convenience of checking different locations in your home. By doing this you are checking the actual speed from the router throughout your home to determine dead zones, or to compare what you are paying for on your internet package from your provider.

Internet Router Tips for Streaming.

TV streaming works based on a connection between a device and the internet service provider's servers. The streaming provider hosts content on its servers and streams it directly to your device using the internet. There are a few things you need to stream, TV or Monitor, Streaming Device, and high-speed internet connection.

Because streaming delivers data as you need it, slow or interrupted internet connections can cause problems. For example, if you have streamed only the first 30 seconds of a song, and your internet connection drops before any more of the song has loaded on your device, the song stops playing.

The most common streaming error that crops up has to do with **buffering**. The buffer is a program's temporary memory that stores the streamed content. The buffer is always filling up with the content you need next. For example, if you watch a movie, the buffer stores the next few minutes of video while you're watching the current content. If your internet connection is slow, the buffer won't fill up quickly enough, and the stream either stops or the quality of the audio or video decreases to compensate.

Streaming HD and UHD content require an active internet connection with minimum internet speeds of 35 Mbps or higher **consistently, not just once or twice** for smooth streaming of live TV and movies. **However, minimum speed works for one user at a time. If multiple users are online, then the rate needs to be higher.** Without enough speed, shows and movies take longer to load and may “buffer” (or pause as the content loads) in the middle of the content.

The perfect height at which you should place the Wi-Fi router at home.

The Wi-Fi router is an essential part of our daily life since it allows us to connect to the Internet without the need for cables. However, many of us don't know how to optimize our router's placement to get the best possible signal and speed.

Why is the height of the Wi-Fi router important?

The Wi-Fi signal propagates in all directions from the router, creating a coverage “bubble.” However, when the signal encounters obstacles such as walls or furniture, it weakens. That is why **the height of the router can be a critical factor in ensuring that the signal reaches all areas of the house.** If the router is too low, the signal will be hampered by furniture and other objects. If the router is too high, the signal will be weak going down to the devices.

What is the ideal height for the Wi-Fi router?

Most people put it on the floor, behind the TV or a piece of furniture, or in some random place that doesn't usually coincide with the **best location for Wi-Fi router.** The ideal height for the Wi-Fi router is at or slightly above eye level. If you place it in a higher position, the signal will be stronger, and the coverage will be wider.

Where should I put the Wi-Fi router?

In addition to the height, the location inside the house can also affect the quality of the signal. The router should be in a central location in your home, preferably in an elevated position. This way, **the signal will spread more evenly in all directions and the coverage will be better**. It is also important to note that the Wi-Fi router should not be placed near other electronic devices that may interfere with the signal. Microwaves, cordless phones, and other devices can affect the Wi-Fi signal, so it's important to keep your router away from them.

Your router emits radio waves that spread out and down from their source. Centralizing the router in an area of the house used most and lifting it to at least five to seven feet off the ground improves the range of your signal.

Avoid placing your router in the kitchen, this is due to appliances like microwaves that have the potential to emit interfering signals. Also, Wi-Fi routers should also be positioned well away from metal, as it can diminish signal as well. Other factors to consider, there's only so much room on your information highway, and just like the interstates we drive on, too much traffic can create congestion. The more devices you have accessing your Wi-Fi at one time, the slower your connection will be.

If all else fails, consider an ethernet cable connection if possible.

Why Choose Ethernet?

Choose Ethernet for its secure connection, consistent speeds, and low latency. It's not an attractive solution—we get it. But Ethernet is just better in specific scenarios, like gaming online and streaming live TV.

Consistent speed

The key takeaway with Ethernet is consistency and range. Wired signals don't fluctuate as Wi-Fi connections do. Data flow is solid from end to end.



For example, a CAT 6 cable supports 1,000Mbps (1Gbps) over 328 feet. Technically, you'll see a maximum of around 940 Mbps after software and hardware overhead when you connect it to Gigabit Ethernet ports, but it's still consistent from one end to the other.

Wi-Fi can never make that consistency promise because radio waves weaken over distance. Plus, your speed and range squarely depend on the router's generation, how many antennas it has, how many antennas are inside your wireless device, what generation they support, and how many devices are wirelessly connected. What a headache.

Tips and Reminders.

- Streaming live TV is not perfect. Streaming issues (Buffering) are common and are mostly internet and not device related. Internet connections can be interrupted in

transferring data in many ways. First, check to see if you are connected to the internet and the speed. If ok, try changing your VPN connection.

- Reset your router / modem once every few months or so if needed. Simply unplug your router/modem for a minute, plug it in again and let your network reset. Usually this will take about 2 to 3 minutes. IF buffering continues after rebooting,
- Simultaneously watching a show while recording another may interrupt the recording, due to high resolution content at 60 fps for each show being download from the internet.
- Clear cache in apps – Go to the Formuler home screen, **Click** on the settings gear, go to apps, **Click OK**. Scroll to the app in question, once you click on the app then click on “**Force Stop**” **Click OK**. Scroll to “**Clear Cache**” (**But Do NOT Click on Clear Data**) as that will lose any favorites you have saved to that app. Use the arrow key  to exit press a few times.
- The arrow key  is multi-functional. When viewing a show, you can use the arrow key to change to previous and current channels and exit you out of pages and apps. Whenever you are on a page or somewhere you don't want to be, use the arrow key to escape / exit out.
- If you have accidentally clicked on the padlock key in the **Action Menu Section**, a password screen will appear asking for the password. **The Password is 0000**
- If you are experiencing buffering or freezing on a channel, switch to other channels to see if they are doing it also. If they are Not, then it's the channel itself. Sometimes changing channels and going back to the channel will correct itself.
- If it continues to buffer on one channel only, changing your VPN connection may not correct it. If this happens, you can call or text us and we will report the issue to have it fixed. Call or text @ 336-337-0917 We will need the complete channel information, **i.e. ABC WXYZ Channel 10, and a description of the issue you are seeing.**
- If you are having issues with navigating or using any of the apps, we can remotely connect to your device and provide hands-on training in real time. Just call or text us and we will set up a session at your convenience. 336-337-0917

RECORDING LIVE TV Using Micro SD Cards.

We recommend Micro-SD cards over USB flash drives.

What SD Card Attributes Should I Consider Before Making a Purchase?

Once you know the form factor of the SD card you need, you can focus on other specifications to find the best option for you. SD cards of any shape and size will operate in the same way, so there are some key terms and features to be aware of when shopping. Here's what you need to know about SD card specifications:

Capacity

Often referred to as the size of the SD card, the capacity has nothing to do with the physical form factor. Capacity when discussing SD cards refers to the maximum storage size of an individual card. For example, multiple Micro, Standard, or Mini SD cards could all have the same capacity of 1GB. A great way to determine what size SD card you need is by analyzing the type and amount of data you need to store. Videos require much more space than photos on SD cards, and both mediums quickly grow in file size with higher resolutions.

Speed: What Speed Class Should I Use.

How fast an SD card can read and write data is referred to as the device's speed. Specific tasks such as HD or 4K video recording may require higher read or write speeds. The speed of an SD card is measured using a class system denoted on the card by a number within a small circle. These distinctions can get quite complex and are ever-changing. For most users, knowing the cut-off speeds for HD and 4k video recording is more than enough information to find the proper card. An SD card needs a write speed of 4MB/s or higher, also known as Class 4 or higher, to record HD video. The recording of 4K video requires 60MB/s or higher write speeds, or what is called a UHS Class 3/III rating.

SDXC Micro-SD Card.








You can use any brand SDXC Micro-SD card and storage size. You need to have up to **180 MB/s minimum or higher Read Speed**, and 130 MB/s, or higher Write Speed. Full HD & 4K UHD. Look for these descriptions on the package. **Micro SDXC UHS-I, C10, U3, V30, A2, 4kHD**



Example:

Fast U3, Class 10 rated read / read speeds up to 180 / 130MB/s²⁻³ let you shoot more photos faster and transfer with ease⁴; 4K videos look sharp with UHS-I, V30 rated speed and A2 rating provides for more storage.

For example, the best SD card for 4K video is at least a class 10 class card. In addition to the traditional speed classes, some micro-SD cards also carry a UHS (Ultra High Speed) class rating. UHS-I and UHS-II are the most common UHS classes available. UHS-I cards offer higher data transfer speeds compared to the standard speed classes. Again, if you're recording 4K video or do high-output professional photography, a UHS-enabled micro-SD card is crucial. Use the chart below to determine recording times for higher Micro-SD card storage capacity. (Chart is an estimation recording time only)

			
1 	30 Hr	15 Hr	7.5 Hr
2 	80.5 Hr	40 Hr	20 Hr
3 	207,159 Photos	103,566 Photos	51,783 Photos
4 	270,108 Photos	135,036 Photos	67,518 Photos

Capacity

Available in 128GB, 256GB and 512GB to match your storage needs*

*Please see disclosures for more information