

High Definition Television (HDTV)



Welcome to the world of OneSource Communications' HDTV.

The following are some important requirements that will enable you to enjoy this exciting technology:

High Definition Television Sets

In order to view High Definition programming, you must have an "HD-capable" or "HD-ready" TV set.

HD television sets receive and display digital images and have advanced features, including:

- Extremely high resolution providing a high quality picture
- Wider screens that allow movies to be viewed in their original format
- High quality digital sound

Your local electronics retailer can provide you with information about HD television sets to help you determine which one to purchase. You can also use an Internet search engine to find additional information on this technology.

HDTV Set Top Boxes

Once you have an HD television set, you will need an HD Set Top Box from OneSource in order to view HD programming.

You may also be able to view HD programming using a CableCARD from OneSource if you have a compatible TV with a built-in HD tuner. There is no requirement for a separate antenna to watch local broadcast HD channels.

OneSource offers 2 types of HD Set Top Boxes:

Standard HD Set Top Box: Allows you to view HD programming.

Digital Video Recorder HD Set Top Box:

Allows you to view HD programming and also gives you the ability to record any program of your choice. The programs are digitally recorded in the Set Top Box and

are available for later viewing.

HD Channels

With OneSource High Definition programming, you will receive a variety of channels in HD format.

NOTE: Programming providers make the decisions regarding the programs delivered in HD format. Some channels will show both HD and non-HD programs. HD programs may also be in HD format without enhanced audio. OneSource has no control over these decisions.

HD Connection Options

The Motorola HD Set Top Box supports multiple options for connection to video equipment:

- You can use 75-ohm coaxial cables equipped with F-type connectors or standard RCA video connections; however, this will not provide the highest quality picture.
- If your equipment supports it, S-video connections may be used in place of the standard RCA video connections. In most cases, S-video offers a higher level of standard definition video quality than RCA video.
- The Set Top Box also has Component (Y,Pb,Pr), Firewire (IEEE 1394) and DVI video outputs. These outputs provide the highest level of video quality. If your HD or home theater receiver supports any of these connections, use any one of these instead of the RCA type or S-Video connections.

- Some HD Set Top Boxes support a newer type of connection called HDMI. This connection provides the highest quality video connection and does not require a separate audio cable.

Other Connection Information

- If your equipment supports it, the optical (OPTICAL SPDIF) or coaxial digital (SPDIF) audio outputs may be used in place of the stereo audio outputs (AUDIO R and L). In most cases, these outputs offer a higher level of audio quality, including support for 5.1 Surround Sound.
- Disconnect power from the Set Top Box before connecting or changing cable connections.

For information on hooking up your HD Set Top Box, go to www.1scom.com.





High Definition Television (HDTV)



If your HDTV has a 4:3 aspect ratio:

- For viewing HD programming, “1080i” provides the highest quality picture, however, black bars may appear on the top and bottom of your screen. Some HDTVs may allow you to stretch the image to fill the entire screen.
- For viewing Non-HD programming, use the “480i” setting.

If your HDTV has a 16:9 aspect ratio:

- For viewing HD programming “1080i” provides the highest quality picture and the image should fill the entire screen.
- For viewing Non-HD programming some HDTVs will require you to use “480i” and use the stretch features to fill the entire screen.

Viewing HDTV

You will need to become familiar with the capabilities and features of your HDTV. Certain features, settings and connection types may provide you with a better picture than others. It is to your advantage to become as informed as possible.

Depending on the type of HDTV and/or the channel that you are viewing, the image may not fill the entire screen. This may also occur when a channel switches between HD and non-HD programming. When this happens, black borders may be present on the top and bottom or the sides of the screen. A feature on most HDTVs will allow you to stretch the image to fill the entire screen when needed.

Your HD Set Top Box also has settings that can be changed and some settings can provide you with a better image size. These options can be used in combination with the TV settings.

Please note: It is recommended that you adjust the Set Top Box and TV options to completely fill your screen, leaving no black bars on the sides or top of the picture being displayed.

To access the Set Top Box settings, do the following:

1. Turn off the Set Top Box (leave your HDTV on).
2. Push “Menu” on the Set Top Box or remote control to display the “User Settings” screen.
3. Use the up and down arrow keys on the remote control or Set Top Box to move between setting options.
4. To change the settings, use the left or right arrow keys on the remote control or Set Top Box.

TV Type should be set based on the type of HDTV:

- If your HDTV has a 4:3 aspect ratio, set the TV Type to “4:3 PAN/SCAN”.
- If your HDTV has a 16:9 aspect ratio, set the TV Type to “16:9”.

NOTE: The “4:3 Letterbox” TV Type is not recommended.

YPbPr Output should be set based on the type of HDTV and the content being viewed.

PLEASE NOTE:
To avoid burn-in on your High Definition TV, you should avoid watching your television broadcast with black bar borders by using various settings on the Motorola Set Top Box and your TV. Please use these guidelines along with your HDTV instructions to ensure the best viewing experience and to avoid damage to your TV screen.