**COMMON CONNECTORS (SIGNS) VS IMAGE DEFINITION**

<table>
<thead>
<tr>
<th>CABLES &amp; CONNECTORS</th>
<th>THEIR FUNCTION</th>
<th>AVAILABLE SIGNALS</th>
<th>PIX-O-METER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>75 OHM COAX</strong></td>
<td>Carries off-air digital broadcast signals (channels) from an antenna to the DTV. For the ultimate resolution of local High-Definition off-air broadcasts.</td>
<td>480i, 480p, 720p, or 1080i digital signals (depends on the broadcast signal). <em>(Sanyo HDTVs convert 480i, 480p, 720p, and 1080i signals to their native format [720p or 1080i] for display.)</em></td>
<td>ULTIMATE</td>
</tr>
<tr>
<td><strong>HDMI</strong></td>
<td>Uses just one cable to transfer full-bandwidth digital video and 5.1 channels of audio, when available, for the ultimate in picture resolution and sound quality. These signals may be output by a Satellite Receiver, Digital Cable Box, DVD Player, or other compatible digital equipment to the HDTV.</td>
<td>480i, 480p, 720p, or 1080i digital signals (depends on the output device and/or your subscription service). <em>(Sanyo HDTVs convert 480i, 480p, 720p, and 1080i signals to their native format [720p or 1080i] for display.)</em></td>
<td>DIGITAL</td>
</tr>
<tr>
<td><strong>DVI</strong></td>
<td>Transfers full-bandwidth digital video for the ultimate resolution from a Satellite Receiver, Digital Cable Box, DVD Player, or other compatible digital equipment to the HDTV. (Connect it to the HDTV's HDMI jack using an adapter [not supplied]. Separate analog audio connections are required.)</td>
<td>480i, 480p, 720p, or 1080i digital video signals (depends on the output device and/or your subscription service). <em>(Sanyo HDTVs convert 480i, 480p, 720p, and 1080i signals to their native format [720p or 1080i] for display.)</em></td>
<td>EXCEPTIONAL</td>
</tr>
<tr>
<td><strong>FIBER OPTICS</strong></td>
<td>Used to transfer digital audio signals (in the form of light pulses). This signal is available for output from the HDTV to a multi-channel receiver only when received as part of the digital antenna signal or when received through the HDMI jack from an HDM source.</td>
<td>Multi-channel audio, such as, 5.1 channels of surround sound, when received as part of the original signal.</td>
<td>DIGITAL</td>
</tr>
<tr>
<td><strong>COMPONENT</strong></td>
<td>Transfers individual Green, Blue, and Red analog signals for exceptional resolution. These signals may be output by a Satellite Receiver, Digital Cable Box, DVD Player, or other compatible equipment to the HDTV. (Separate analog audio connections are required.)</td>
<td>480i, 480p, 720p, or 1080i analog signals (depends on the output device and/or your subscription service). <em>(Sanyo HDTVs convert 480i, 480p, 720p, and 1080i signals to their native format [720p or 1080i] for display.)</em></td>
<td>DIGITAL</td>
</tr>
<tr>
<td><strong>S-VIDEO</strong></td>
<td>Transfers separated analog luminance and chroma signals from a VCR or similar device to the TV for better picture resolution. Due to severe HD resolution limitations, Sanyo recommends strongly that you not use this option to connect HD equipment to your Sanyo HDTV. (Separate analog audio connections are required.)</td>
<td>480i (standard analog) <em>(Sanyo HDTVs convert 480i signals to their native format [720p or 1080i] for display.)</em></td>
<td>BETTER</td>
</tr>
<tr>
<td><strong>COMPOSITE</strong></td>
<td>Transfers a composite analog luminance and chroma signal (yellow connector) from a VCR, or similar device, to the TV (left and right audio signals are carried by the white and red connectors respectively). Due to severe resolution limitations, Sanyo recommends strongly that you not use this option to connect HD equipment to your Sanyo HDTV. (Separate analog audio connections are required.)</td>
<td>480i (standard analog) <em>(Sanyo HDTVs convert 480i signals to their native format [720p or 1080i] for display.)</em></td>
<td>ANALOG</td>
</tr>
</tbody>
</table>

*Conversion of 480i, 480p, 720p, and 1080i signals to native display formats does not increase nor decrease the resolution. The maximum resolution the HDTV can display depends on the input signal.
## Equipment-to-DTV Connector Cross-Reference Chart

### Your Sanyo High-Definition DTV Has These Connectors

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Digital RF Terminal</th>
<th>HDMI (Component x2, S-Video or Composite)</th>
<th>Component (HD equipment can be connected using an adapter)</th>
<th>S-video</th>
<th>Composite (HD equipment can be connected using an adapter)</th>
<th>Digital Audio Out</th>
<th>Stereo Audio Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Analog</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### Use the Best Connection Available

- **Digital RF Terminal**: Use when received as part of the digital antenna signal.
- **HDMI** (Component x2, S-Video or Composite): With HDMI connection (excluding DVI) and when received as part of the digital signal.
- **Component**: Mono only with analog RF input.
- **S-video**: Requires separate analog audio connections.
- **Composite**: Requires separate analog audio connections.
- **Digital Audio Out**: When using an AV Receiver, connect the Digital Audio Out from your external equipment, when available, to the Digital Audio In on your AV Receiver. NOTE: When the HDMI output of your external device is connected to the DTV HDMI jack, connect the DTV Digital Audio Output to the AV Receiver instead.

### Broadcast Signal Sources

- **Antenna**
  - Digital: Yes
  - Analog: No
- **Digital Cable**
  - HD Receiver: Yes
  - Standard Receiver: No
- **Satellite**
  - HD Receiver: Yes
  - Standard Receiver: No
- **Analog Cable**
  - With Box: No
  - Without Box: No
- **DVD Player/Recorder**
  - Yes
- **DVR**
  - Yes
- **Game Console**
  - Yes
- **VCR**
  - No
- **Multi-Channel (5.1) AV Receiver**
  - Yes

### Other Signal Sources

- **DVD Player/Recorder with Box**: Yes
- **DVR with Box**: Yes
- **VCR with Box**: No
- **Multi-Channel (5.1) AV Receiver with Box**: Yes

### Image Definition

<table>
<thead>
<tr>
<th>Definition</th>
<th>Ultimate</th>
<th>Exceptional</th>
<th>Better</th>
<th>Good</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Analog</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

### Color-Coding

The charts and connection diagrams in this guide are color-coded for easy identification. For the Ultimate picture resolution, choose a **Green** connection option for your HD equipment. When these connectors are not available, **Gold** is an **Exceptional** alternative. **Green** and **Gold** options both provide **High-Definition** reception when the signal contains High-Definition content.

*The signal makes the difference!*

---

1. *The maximum number of video connections is four (HDMI, Component x2, and S-Video or Composite), plus two RF.*
2. *Requires separate analog audio connections.*
3. *This hook-up will reproduce significantly lower resolution, and is therefore, not recommended by Sanyo for this device.*
4. *When received as part of the digital antenna signal.*
5. *With HDMI connection (excluding DVI) and when received as part of the digital signal.*
6. *Mono only with analog RF input.*
**THE ULTIMATE DEFINITION (HDMI-TO-HDMI) & OPTICAL DIGITAL AUDIO**

- **HDMI CONNECTION**
  - HDMI INPUT: Digital Audio Connection
  - HDMI OUTPUT: Digital Audio Connection

- **DIGITAL AUDIO CONNECTION**
  - DIGITAL AUDIO OUTPUT: Component Connections (Input)

- **DTV BACK (L)**
  - DTV BACK (R)
  - ANALOG AUDIO OUTPUT: Component Connections (Input)

- **VIDEO INPUT**
  - YPbPr (MONO)

- **AUDIO VIDEO S-VIDEO**
  - R (MONO)
  - L

- **COLOR-CODING**
  - The charts and connection diagrams in this guide are color-coded for easy identification. For the ultimate picture resolution, choose a Green connection option for your HD equipment. When these connectors are not available, Gold is an exceptional alternative.

- **Green** and **Gold** options both provide high-definition reception when the signal contains High-Definition content.

  *The signal makes the difference!*

---

**THE ULTIMATE DEFINITION (HDMI-TO-DVI)**

- **HDMI TO DVI ADAPTER CABLE**
  - HDMI TO DVI Adapter Cable
  - DTV BACK (L)

- **DIGITAL AUDIO CONNECTION**
  - DIGITAL AUDIO OUTPUT: Component Connections (Input)

- **VIDEO INPUT**
  - YPbPr (MONO)

- **AUDIO VIDEO S-VIDEO**
  - R (MONO)

- **ANALOG AUDIO OUTPUT**
  - L

- **DIGITAL ANTENA IN**
  - UHF
  - VHF
  - CATV

- **NOTE:** INPUT3 audio jacks are used to receive the audio. Therefore, INPUT3 video jacks cannot be used with a DVI hook-up.

- **Cables are not supplied.**

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**EXTERNAL HD CONNECTIONS**

- **Cables are not supplied.**

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**EXCEPTIONAL DEFINITION**

- **COMPONENT CONNECTIONS**
  - Component Connections (Input)
  - DTV BACK

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**NOTE:**

*When using HDMI to connect your DVI device, an adapter cable is required.*

**INPUT3** audio jacks are used to receive the audio. Therefore, **INPUT3** video jacks cannot be used with a DVI hook-up.

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**Color-Coding**

The charts and connection diagrams in this guide are color-coded for easy identification. For the Ultimate picture resolution, choose a Green connection option for your HD equipment. When these connectors are not available, Gold is an Exceptional alternative.

Green and Gold options both provide High-Definition reception when the signal contains High-Definition content.

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