

## **Home Theater Trainer**

### **Introduction**

#### **Background:**

There have been many innovations in home theater in recent years, but along with the innovation and increased capabilities, comes a fairly high level of complexity. Home theater components can be set up in a number of different ways, some of which will yield better results than others.

Written documentation that accompanies the components is sometimes limited and does not necessarily teach the consumer about all of the options available to him/her, nor does it give sufficient information on selecting the best way to connect components out of the many options available. The many terms and specifications involved are also confusing to most people.

#### **Opportunity Statement:**

A WBT solution, particularly a W/EPSS should help home theater consumers get the most out of their home theater purchases. By training consumers on the terminology and best connection practices, consumers should find it easier to achieve the best setup available.

The WBT will focus on the following:

- Learning terms and specifications
- Making the best component connection decisions

#### **Audience:**

The target audience for the Home Theater Training WBT is home theater consumers of varied experience levels. The WBT is designed to be used in the home usually just before or during the setup of a home theater system. The intended audience has familiarity with accessing web content and performing routine tasks on computers. Most people surveyed are also willing to participate in a simple WBT to help them learn more about home theater connection.

#### **Goals and Objectives:**

The goals of the WBT are as follows:

- When given a term and several possible definitions, states the correct one by selecting it

- When given images of several connection types and names for them, identifies the correct name by dragging it to the image.
- When given several different connection options, demonstrates the best quality one by selecting it.

## **WBT Outline**

### **Terms and Specifications Module**

#### **Goals:**

- When given a term and several possible definitions, states the correct one by selecting it.
- When given images of several connection types and names for them, identifies the correct name by dragging it to the image.

#### **Objectives:**

- The learner will be able to identify types of connections by looking at them.
- The learner will be able to define home theater terms and specifications.

#### **Legth:**

Individual pace will vary, most likely 15-30 minutes.

#### **Content:**

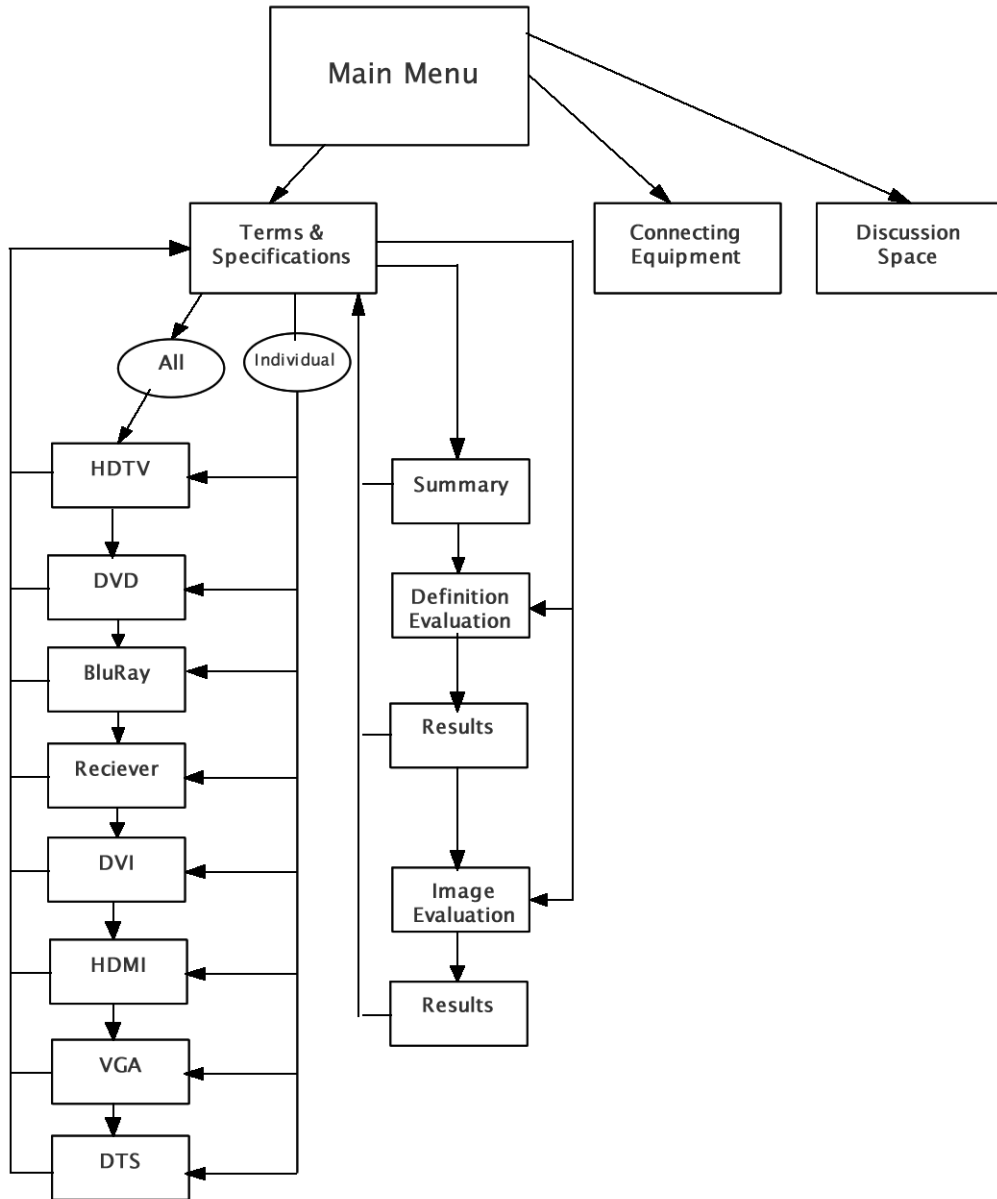
- A home screen for Terms and Specifications allowing learners to access all terms in sequence, review individual terms, or go directly to evaluations to assess their skill level.
- The main part of the lesson will be individual screens for each of the terms. Photos of the connection type and the definition of the connection type will accompany the term. Terms will include: HDTV, DVD, BluRay, Home Theater Reciever, DVI, HDMI, VGA, Component Video, Composite Video, Optical Audio, Coax Audio, DTS, Dolby Digital.
- A summary page with brief definitions and small photos.

#### **Evaluation:**

The module will contain two evaluations.

- Verbal Information - The learner will be presented with a term and multiple possible definitions, detailed feedback will be given in the event of a wrong answer. A score will be given at the end of the evaluation.
- Concrete Concepts - The learner will be presented with images of cables or connectors and asked to match them with the correct name for that connector. Feedback with correct answers will be given at the end of the evaluation along with a score.

# Home Theater Trainer Flowchart



# Home Theater Trainer

## Main Menu

Terms &  
Specifications

Connecting  
Equipment

Discussion  
Space

# Home Theater Trainer

## Terms & Specifications

Full Lesson -  
All Terms

Select Individual  
Terms

Evaluations - Test  
Your Knowledge

Summary  
of Terms

Main Menu

# Home Theater Trainer

Terms & Specifications  
Main Menu

Next >

## HDTV

HDTV (High Definition Television) is the current TV standard. In order to have the full HD experience, you must have an HD source (HD Cable Box, Blu Ray, HD DVR) connected with an HD connector to an HD television. HD has more lines of picture than SD (Standard Definition) and a wider aspect ratio. HD standards also support multichannel audio (surround sound) if your system is equipped.



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## DVD

DVD is a standard for video discs. DVD is an SD standard, so although you can connect a DVD player to a HDTV and the picture quality will be pretty good in some cases, it is not an HD source.

DVD can support multichannel audio if connected via optical or coaxial digital audio connections.

DVD players usually have component video, composite video, analog audio and digital audio connection options



# Home Theater Trainer

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## BluRay

BluRay is the newest standard for video Discs. BluRay is an HD standard. BluRay discs support HD video and several formats of digital audio including DTS HD and Dolby True HD. Most BluRay players can also connect to the internet for additional content. BluRay players will play DVD disc as well as BluRay discs, but BluRay discs will not play on DVD players.

BluRay players usually have HDMI, component video, analog audio and optical digital audio connection options



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## Receiver

The receiver works as a sort of hub. It can take audio in and switch between different sources. Some receivers can even take in video sources and output to your TV.

Receivers have amplifiers and can take in analog and digital audio and connect to multiple speakers for surround sound.



# Home Theater Trainer

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## HDMI

HDMI (High-Definition Multimedia Interface) is a type of cable for connecting HD components. HDMI cables can carry both HD video and digital multi-channel audio.

HDMI connectors are found on HDTVs, BluRay players, HD cable boxes and DVR's, as well as some home theater receivers.

HDMI is probably the best and easiest way to connect HD components.



# Home Theater Trainer

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## DVI

DVI (Digital Visual Interface) is a connector for HD digital video only. It is most commonly found on computers and monitors as well as HDTV's.

DVI is not found on most components, but HDMI to DVI cables can be useful if additional HDMI ports are not available on your HDTV. DVI will not, however, carry audio.



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## Optical Audio

Optical audio cables can carry stereo or multichannel (surround) audio.

Optical audio connections can be found on DVD players, BluRay players, HDTV's, HD cable boxes and DVR's, and home theater receivers.



Additional Content pages would be created, but are not included for this demonstration.

# Evaluation

## Identification

Done

Drag the connector to it's name, click done when you are finished.



HDMI

DVI

Optical Audio

Component Video

Analog Audio (RCA)

Composite Video

# Evaluation

Terms & Specifications  
Main Menu

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## Identification

Wrong answers are marked with an **X**. Correct names are under the pictures. Please review the training if you need additional help,



Optical Audio



DVI



HDMI

DVI **X**



Component Video

Composite Video

Optical Audio

Component Video **X**



Analog Audio

Analog Audio (RCA)



HDMI

Composite Video

# Evaluation

## Definitions

Please select the appropriate definition for:

HDMI

- A. A standard for multichannel audio
- B. A cable used for HD video and Digital Audio
- C. A cable used for HD video only
- D. A cable used for SD video

# Evaluation

## Definitions

Terms & Specifications  
Main Menu

Next >

Please select the appropriate definition for:

### HDMI

A. A standard for multichannel audio

You selected: C

B. A cable used for HD video and Digital Audio

This is **Incorrect**. The correct answer was B. HDMI cables can carry both high definition video and digital audio in the same cable.

C. A cable used for HD video only

Click Next to go to the next question.

D. A cable used for SD video