

Chapter 1

The Zen of Home Theater

In This Chapter

- ▶ Going Hollywood with home theater
 - ▶ Finding room for a home theater
 - ▶ Getting a stylish home theater on a budget
 - ▶ Getting your money's worth
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When you hear the term *home theater*, you probably think of big screens, cool sound, DVDs, CDs, and lots of remote controls sitting around your living room. We're sure that football games, beer, and other fun images sneak into that image as well.

Home theater is truly for everyone — regardless of the size of your house or apartment, your economic wealth, or your taste in movies. And home theater is bound to mean something different to everyone. It's not just about boxes, cables, and remotes, or about discs, records, and cassettes: A home theater can be a real adventure.

Appreciating the Art of the Home Theater

Before you start on your home theater adventure, it's critical to understand what the makers of the equipment, movies, standards, audio CDs, and so on, mean when they say that they are supporting home theater.

To the companies that produce the equipment and media, home theater is all about trying to re-create the experience of watching a film in a movie theater, hearing the cheers of the crowd in a football stadium, or feeling the reverberations of music in an open air concert, in your home. Many of the people who devote themselves to creating atmosphere and mood using this medium consider what they do to be an art form. These are usually the people who are listed in the credits at the end of a movie.

10 Part I: Welcome to the World of Home Theater

When you take all the sensations of a movie theater and insert them in your living room, nothing changes. All the improvements in sound compression, surround sound, digital screen imaging, and so on, have been done not to sell more equipment at Circuit City or Wal-Mart, but to try to perfect the ability to suck you into another world where you can experience a piece of work.

So a lot of this book is about explaining to you the technologies and ideas behind that home theater that you are going to put together, because it's not just about seven speakers hooked into your stereo or a big honking TV screen. It's about how to make sure everything is put in its proper place to maximize your home theater out-of-body experience — the way the media creators intended.

Fitting Home Theater's Many Faces into All Kinds of Spaces

You've probably watched enough TV shows and movies about Hollywood and the rich and famous to know that, for some people, home theaters are as common as a kitchen or a bedroom. Indeed, home theaters were spawned out of the necessity of those working on the films to preview footage, screen tests, and full movies. They gradually grew to be a status symbol among actors, too, and spread out from there.

In those early days, a home theater was pretty much literally that, with Peerless Magnarc carbon-arc lamphouses and theater seating. They were often extensive and elaborate affairs — to match the surrounding house.

Today, you too can get into the act, and you're lucky enough to have available a broad range of projectors, screens, displays, seating, and equipment — heck, even popcorn machines — to create your own home theater.

Probably the first big decision you have to make is where you want to put your home theater. It was one thing to figure out where to put your 19-inch TV set; it's another thing to think about where to put a big-screen TV with six speakers and associated A/V gear. Few people are prepared for how overpowering a full home theater setup can be in a small home, so it's especially important to plan ahead if you have limited space.



Defining your home theater space is a necessary first step. If the only place to put a TV is on the mantle above the fireplace, then you're looking at a plasma screen TV and not much else. If you have to fit the whole system into the corner of the living room, then that narrows the search as well. Remember, you don't want to try to buy a home theater that just won't fit into your home and your lifestyle. A home theater is all about creating a surround atmosphere; so pick your spaces, and work from there.

You can most certainly put a home theater in your present living room, in your bedroom, or in a room devoted just to using your theater. In the end, what matters is not so much the size, but the way you establish its ability to coax you into its sound field and video experience.

Budgeting for Home Theater

We believe in setting expectations. We don't want to get you salivating over a 42-inch plasma and a nice Harmon Kardon system, and then smack you over the head with an unrealistic price. Unfortunately, a quick stroll through any consumer electronics store could lead you to believe that you can get an entry-level whole home theater in a box (without the video display, of course) for just \$299. However, that \$299 system will be right for some people and not for others.

Exploring equipment and prices

So what does it cost to get into a home theater system? Table 1-1 gives you an idea of what you can spend. We've broken this table down by the roles that each group of Audio/Video (A/V) components plays in your home theater. Audio sources are devices that provide music-only playback in your system, whereas video sources provide movies or TV content. The A/V system provides the control for your home theater (meaning it lets you select what you want to watch or listen to), and does all the heavy lifting in terms of sending surround sound signals to your speaker system. The video display, of course, is what you watch (think TV). We've also included some optional components — gaming systems and home theater PCs (which let you use a PC as a high-quality audio and/or video source device).

12 Part I: Welcome to the World of Home Theater

Role	Device	Price Expectations
Audio sources	Tape cassette player*	\$100 to \$800
	CD player/recorder*	\$60 to \$600+
	Turntable*	\$100 to \$5,000+ (really!)
	AM/FM tuner*	\$200 to \$1,000
Video sources	DVD player	\$50 to \$1,200+
	VCR*	\$50 to \$1,000
	Personal video recorder*	\$200 to \$1,000
	Satellite system*	\$100 to \$800
Computer/gaming	Gaming console*	\$150 to \$200
	Home Theater PC*	\$1,800+
A/V system**	All-in-one systems	\$200 to \$3,000+
	A/V receiver	\$100 to \$4,000
	Controller/decoder	\$800 to \$5,000+
	Power amplifier	\$500+
Speakers	Center, left, right, and surround speakers	\$150+
	Rear surround sound speakers*	\$100+
	Subwoofer speakers	\$150+
Video display***	27- to 38-inch direct-view tube TV	\$200 to \$3,000
	Up to 65-inch rear-projection TV	\$1,200 to \$5,000
	Up to 120-inch front-projection TV	\$3,500+
	32- to 60-inch plasma screen TV	\$3,000 to \$15,000+

* *Optional*

** *You don't need all of these parts, just an all-in-one system, an A/V receiver, or a controller/decoder and power amplifier combo*

*** *You only need one of these displays*

Chapter 1: The Zen of Home Theater **13**

Certainly, you don't need all the gear in Table 1-1. You can buy a nice all-in-one Home Theater system and a relatively big-screen, direct-view (picture tube) TV for not much more than \$500. Of course, you can spend a lot more money, too. One thing is for sure: Pricing is competitive and changing all the time. Two years ago, a lot of the gear listed in Table 1-1 cost twice as much as it does currently. As we go to print, the first plasma screen TVs for under \$3,000 are hitting the market.



To get a quick grasp on pricing, go to a few Web sites, such as www.circuitcity.com and www.plasmatvbuyingguide.com to just get a sense of the going rate for different items. Compare that with Table 1-1, and get a sense of how much pricing has dropped just in the time that it took for this book to hit the shelves.

Buying on a budget

Given that you are probably working within a budget, here are some ideas about what you can expect to buy and install for different total budget ranges:

- ✔ **\$0 to \$500:** Definitely the entry-level package for home theater, a system in the \$0–\$500 range basically uses your existing TV (or includes an inexpensive TV in the 27-inch range) and an entry level all-in-one home theater system package (which comes with speakers and a receiver/DVD player combo). You can probably throw in a \$50 VCR if you don't already have one, but even the lowest level all-in-one home theater sets have DVD players included. (Gotta have DVD!)
- ✔ **\$500 to \$2,000:** By spending a little more, you can go up a range in a number of the components. You can get up to 36-inch model TVs for about \$400 more than the average price 27-inch versions. You could even get into a rear-projection TV, as they start around \$1,200 for a 40- to 52-inch TV. There are a range of options for better surround sound systems in this price range, with packaged options available for your five surround sound speakers plus your subwoofer. And you can buy a fairly good A/V receiver to drive the system.
- ✔ **\$2,000 to \$5,000:** At this level, you start to create serious options for a very decent home theater system. The lowest-cost plasma screens are under \$3,000, and accompanying midrange all-in-one systems can be in the \$2,000 area. High-definition-ready, rear-projection TVs can be had for a bit more than \$1,500. At this price level, you can also start to get serious with separate components, getting a very good A/V

14 Part I: Welcome to the World of Home Theater

receiver, DVD/CD player/recorder, personal video recorder, gaming system, surround sound speakers, and potentially even more. At this price range, the average person can get a mighty fine system.

- ✔ **\$5,000 to \$10,000:** When you top \$5,000 as your budget, you now can start expanding in some wonderful ways, by adding more throughout the house through multizone capabilities, whole-home audio, and universal remote control capability, or you can continue to go up the ladder in terms of higher-quality separates. We swear by audio servers that store all your CDs in one box. Front projection becomes a viable option here, as good projectors start around \$4,000. High-definition TV (HDTV) units would fall in this budget range, too. Or, you can start to get fancy with furniture and chairs. Good home theater seats start around \$350 each. A high-quality, universal remote control costs about \$500.
- ✔ **\$10,000+:** Above \$10,000, the sky is truly the limit. For \$10,000 to \$20,000, you get to enjoy a lot of the next generation of home theater. Your TV and VCR should be HDTV-capable. Your DVD player should be top of the line. You probably want some extra amplifier equipment in the system, and you may also want to boost your controls, perhaps with a nice Crestron wireless touch screen control. If you get above \$20,000, you are into high-end, audiophile type stuff, all the way. Whole-home audio and video, integration with home automation systems, consultants — the works. Believe it or not, it is not unusual for people to spend \$1 million or more on a home theater. At that point, we think a lot of money is being paid for custom interior design, top-of-the-line projectors, and so on. Nothing is held back. To us, given more modest expectations, a \$25,000 system is stunning in almost all senses of the word.

Getting Your Money's Worth

In deciding how much to spend overall, we can only give you this advice: Your home entertainment system is probably one of the most used parts of your home. It helps define your family, social life, business relationships, and so on. It's important, but spend within your means. You also want to save something to do for the future. Building and growing a home theater is fun, too.

One of the great things about home theater is that it is very modular, so you don't have to buy the whole thing all at once. If you really want a great TV display, get it, and go cheaper on the other components. And when you are ready to trade up, figure out what

Chapter 1: The Zen of Home Theater **15**

you want next. The better stereo stores have a trade up policy that gives you credit toward getting something better. And then there's always eBay (www.ebay.com) or similar auction sites, where you can get all sorts of gear in great condition — everyone is always trading in stuff to move to higher levels, so don't feel total pressure to do it all at once.



Realize that, even if you are installing home theater wiring and speakers into the walls and such, you're not likely to 'get that money back' when you sell the house. People are leery of other people's home-grown solutions — even the professional ones — and equipment becomes outdated quickly in this industry. So if you are going to do some remodeling and spend some money, recognize you are doing it for yourself first, everyone else second, and by all means not for the money.

Indeed, a lot of this book is about getting your money's worth out of whatever you buy. If you get an all-in-one home theater system for \$299 from Radio Shack, or a high-end system with, say, a \$60,000 Madrigal projector, \$18,000 worth of MartinLogan Prodigy speakers, a \$4,000 B&K Receiver, and other similarly priced (but well worth it) components, you're still going to need to figure out how to get the most out of the system. So stay tuned to find out how to get more per kHz, or disc, or channel, or whatever you track your home theater fun by.

16 Part I: Welcome to the World of Home Theater