



HANDY INFORMATION FOR YOUR STAY AT THE MARATHON COACH SERVICE DEPARTMENT

# High-Definition Flat Screen TVs

There Really is a Difference



*Marathon Coach is continually searching for the latest and best technology for our new coaches. This expertise is also available for upgrades to existing coaches. High-definition LCD flat screens offer a crystal clear picture with more colors and more depth. Give us a call today to discuss replacing your glass TVs with the finest in high-definition LCD TVs.*

**High Definition Explained Inside**

**What You Need to Get HD Quality from Your System**

**SERVICE DEPARTMENT**



*Excellence by Design*

## IMPORTANT PHONE NUMBERS



Service Department: **800-365-0156**

Corporate: 800-234-9991

## HOURS

7am - 4pm

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## Glass CRT TV to Sharp AQUOS® High-Definition LCD Flat-Screen TV Remodel

Change out your bulky glass tube TV for a new high-definition Sharp AQUOS LCD flat screen TV. The 42" AQUOS sets a new standard for large-screen, flat panel TVs. With Full HD 1080p resolution and an elegant new design, it produces a breathtaking picture quality that is second to none. The AQUOS LCD uses Sharp's proprietary Advanced Super View/Black TFT Panel with Spectral Contrast Engine UD, providing high Dynamic Contrast Ratio, 4ms response time and wide viewing angles. The AQUOS includes a Fine Motion Enhanced technology for the ultimate in fast-motion image processing, giving you a clear picture even during fast action sequences.

Some coaches may require additional wiring and other options to take full advantage of the LCD TVs HD resolution.

**Prices vary per project.**

We are happy to provide you with a quote

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480i (CRT glass tube TV)



720p (HD)



1080i (HD)



1080p (full HD)

## (HD) High-Definition Video

There are three common digital formats in HD technologies, 720p, 1080i, and 1080p (or full HD) sources and compatible displays. The numbers represent the number of horizontal lines. The “p” refers to progressive scanning and the “i” refers to interlaced scanning. A visual analogy of pixel representation would be a sheet of graph paper with about one million pixels (or squares) on it that would represent a 720p image. A 1080p image would have roughly two million pixels (actually six

million total due to the individual red, green, and blue pixels) in the same space. Each square can turn on or off in any combination of three colors to create the various color images.

The CRT (Cathode Ray Tube) television that most people grew up with has a display resolution of 480i, meaning it is capable of displaying 480 interlaced lines of horizontal resolution, whereas progressive scanning displays an entire frame at once of interlaced signals

that are split in two and scanned line by line. Think about a printed photo. It is a progressive image. If you were to run it through a shredder and take out every other strip it becomes interlaced when you show each half (even and odd) separately. The process happens so fast that most people don’t notice the difference.

Currently, the only source of a 1080p signal is through a high-definition (HD) video disc player, such as a Blue-ray or a next-generation game system.

A majority of HD broadcasts are in 1080i with the rest in 720p.

A progressive signal displayed on a compatible TV presents fast moving images better than an interlaced signal does.



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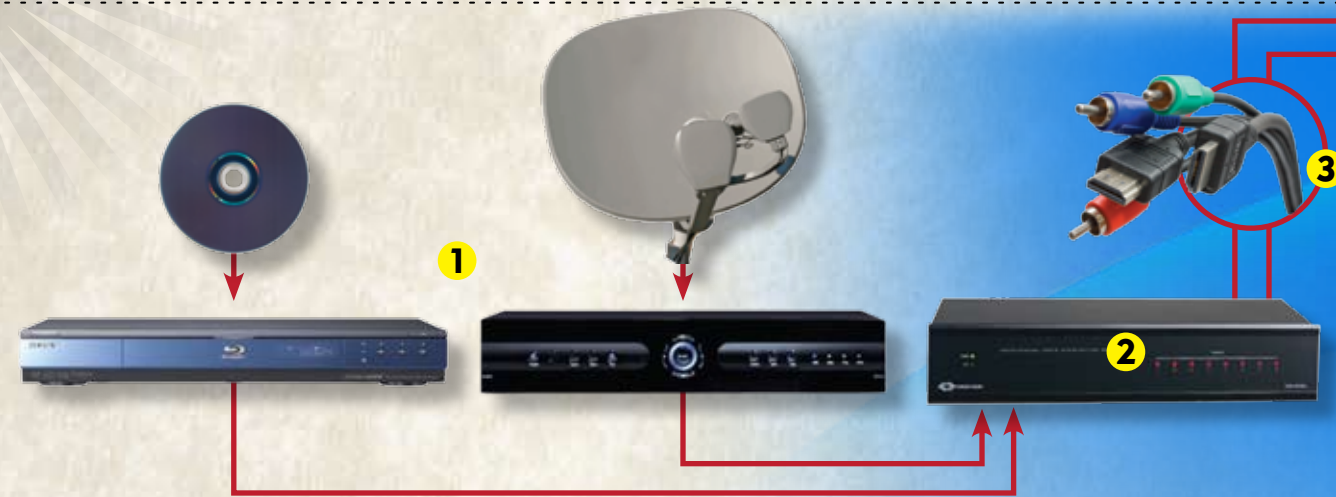
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## What You Need to Get HD Quality

So, what does it take to see HD quality on your TV screen? It's more than one component, and what you need to make it happen will depend on how old your current system is. You may only need to change out your disc player, or you may need everything updated right down to your video system's wiring.

Above is a chart of the major components of an HD system. Your Marathon Coach tech can help you determine which of these components you will need to make the transition to HD. But first, let's take a look at the basic components.

**1. An HD source.** A Blue-ray Disc

player provides the highest resolution at 1080p (opposed to a regular DVD that has a resolution of 480i). A stationary satellite works with DirecTV and Dish Network to bring in video at 720p HD and 1080i HD (not as high as the Blue-ray Disc, but still good HD). Other HD sources such as an iPod or hard drive device like a TiVo are also available.

**2. A Switching device.** The signal goes through a switching device, such as a Crestron unit. Your coach may have another type of switching system, or none at all. A Marathon Coach technician can determine whether your switching unit can take an HD signal, or if it will have to be

bypassed and wired straight to your TV.

**3. Wiring.** It is possible to have a Blue-ray Disc player and an HD TV and still not get an HD picture because of older generation wiring. Let our technicians know what your coach number is, and they can tell you if your coach will need updated wiring.

**4. An HD TV.** If your coach currently has CRT TVs (glass tube TVs) they will need to be replaced with new high-definition LCD flat screen TVs. Most guys won't mind this! The older CRT monitors can only produce a resolution of 480i no matter how high a resolution you throw at it. The new Sharp AQUOS high-definition

LCD TVs, however, can produce the ultimate in HD resolution at 1080i. More resolution, more colors, more contrast; more is better.

**5. HD sound?** You bet! Again, more information is available in HD, so take advantage of it by making sure you are wired for 5:1 Surround Sound or better!

Still not sure what you need to get the most out of the newest HD movies and programing? No problem, give us a call and we'll help you through it.



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## The Marathon Coach Service Department Also Installs:



**Blu-ray Disc Players**

**Stationary Satellite Receivers**

**Video Gaming Systems**

**iPod Dock for Audio**

**Surround Sound Upgrades**

**Digital Over-the-Air Tuners**

**Kenwood GPS Systems**

**Optional Bay Remotes**

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