

# Averatec AV3250HX PC Notebook Reviews (epinions.com)

Tomado de: [http://www99.epinions.com/pr-Averatec\\_AV3250HX80\\_PC\\_Notebook/display~reviews](http://www99.epinions.com/pr-Averatec_AV3250HX80_PC_Notebook/display~reviews)

## The Affordable Notebook For Those With A Little Time To Tweak

Written: Jan 30 '05 (Updated Mar 13 '05)

Tomado de: [http://www99.epinions.com/content\\_171471179396](http://www99.epinions.com/content_171471179396)

Product Rating:



Ease of Use:



Quality of Tech Support:



**Pros:** silver case, 80 gb hard drive, dvd writer, affordable price

**Cons:** Quality control issues, viewing angle on screen, some heat issues, battery life, needs additional tweaking

**The Bottom Line:** A very affordable notebook with a large hard drive and excellent wireless support. It needs some tweaks to really perform as intended.

digitaldoc's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook

### Introduction

I needed a notebook computer for the basic tasks of email and word processing. The old adage for a notebook was half the computer for twice the price; now it's more like half the computer for about the same price as prices have dropped in the last year as notebooks have become increasingly more popular. This is especially true when you figure in the cost of an LCD monitor which is included with the notebook. In general, I am a proponent of building your own computer. For those limited in space, I am also a fan of the small form factor (SFF) PC's, which I have reviewed on this site.

[http://www.epinions.com/content\\_138039561860](http://www.epinions.com/content_138039561860)

As I can't build a notebook (I did look into it), I searched for something to fulfill my requirements at an affordable price point.

Unfortunately, for those of us that think a portable computer should actually be mobile the choices are more limited.

There seems to be no shortage of widescreen notebooks weighing over 10 lbs which are ok for apartment dwellers that will not move their system after setup, but not for commuters. This notebook is on the lower end of the mainstream notebook weight of 4 to 6 pounds. Dimension wise it borders on a sub notebook which is technically under 4 pounds, but usually are not too powerful. In my view, this notebook successfully straddles the mainstream and sub notebook categories as very few notebooks do (the iBook with the 12" screen is the other that comes to mind). I like very much that I can fit the computer with battery and power cord in a regular backpack with room to spare avoiding the need for a separate notebook bag which announces I have a notebook in here, come rip me off!

### **Buying Experience**

The Averatec 3200 series is sold at Staples, Best Buy, Circuit City and Costco. The model I purchased was the 3250HX which features the 80 GB hard drive, and the DVD+/-RW drive which is sold exclusively at Circuit City. Purchased elsewhere, it features the 60 GB hard drive and a DVD/CDRW combo drive (does not write to DVD's) and retails for \$100 less. The notebook was purchased for \$1099 with \$200 back in rebates.

I rarely buy things in Circuit City, and I was reminded why with this purchase. The sales staff attack you at every stage in the store. At least they have most of the models displayed. Unfortunately, they're bolted down so it's hard to pick them up and get a sense of their heft, or even see the back, or what they look like with their lid closed. On top of that, they have a 15% restocking fee on a notebook purchase. You have 14 days to exchange the notebook for a replacement if it is defective; this seems too short to me on an expensive purchase like this.

I went to the store and went through the models and decided on this one. As I wanted something around this size and weight, this was really the only choice. I waited for it to have rebates. It was \$1099, with a \$100 manufacturer's rebate, and a \$100 rebate from Circuit City, exclusively for online customers. The web site ordering process was efficient, and they emailed me my invoice. I printed out the invoice and brought it to the local Circuit City. I had to wait on line in the store for over 30 minutes as it's the same line for returns/exchanges- not exactly a great process for an expensive purchase as I'm waiting for folks to return DVD's ahead of me. If the store wants to encourage its online presence, there should be a separate pickup line to streamline the process.

Unfortunately, after 13 days the computer would not boot, even after I used the Windows recovery discs. On day 14 of the exchange period, I had to return the notebook and exchange it for another. It was quite obvious they were not happy it was back, and to make matters worse after 10 minutes of searching I was informed that they had no replacement model to give me. I had to go to another store on another day to pick up the

new one. Interestingly, the replacement featured a different optical drive which I will detail later.

## **Features**

Athlon XP-M 2200+ processor (Barton 1.6 Ghz/ 0.13 micron technology/512 kb L2 cache) with PowerNow! technology  
10.9" x 9.6" x 1"; 4.5 lbs with battery  
80 GB 4200 rpm hard drive  
DVD +/-RW (QSI 082 or LiteOn 852s)  
Windows XP Home (with 3 recovery cd's; not on hard drive)  
512 MB DDR (one stick, no empty slot)  
12.1" LCD 1024 x 768 resolution  
Wireless 802.11 b/g (not 'a')  
Built in 56k modem V90 protocol  
VGA monitor port (dual display capable), 10/100 ethernet port, usb 2.0 x 3  
Shared video ram (8 to 64 mb) S3 Unichrome video controller  
Built in audio, headphone jack, mic in jack, volume wheel  
Touch pad with vertical and horizontal scrolling  
Kensington lock slot  
Lithium ion battery  
Standard size keyboard, 19 mm pitch  
Stereo speakers, AC '97 audio, volume control knob  
PCMIA slot (type II)x 1  
Includes Microsoft works, and Cyberlink burning software  
1 year limited warranty, 6 months on battery  
*no firewire, parallel, or serial ports*

## **In Use**

In this section I will detail each of the notebooks major subsystems and my experience with their performance.

### *Appearance*

The notebook is encompassed in a relatively lightweight and small case. With only 1" of height, a lot had to be packed into the small silver case. It has a modern appearance which appears like brushed aluminum. It is stated that magnesium goes into the case to reduce weight, but it feels very much like a high quality plastic. The lid is held onto the body at 3 points which contributes to a solid feel. Some feel that the whole design was heavily borrowed from Apple notebooks; however that is probably a good thing. While less flashy than some of the current designs from HP or Toshiba, this notebook has a kind of industrial refined tech look to it that imparts power more than gimmickry.

### *Keyboard and Touchpad*

This notebook features an almost full size keyboard. The key travel is slightly shallow at

19 mm, but still adequate.

The row of numbers, and the F keys at the top row are both half size to save space. There is no separate numerical keyboard, but there is a numbers lock and a numerical keyboard superimposed on the letters for spreadsheet work. For those of us that mostly do advanced "hunt and peck" it is more than adequate. What also impressed me is that as I went up the row at Circuit City, I pressed in the middle of all the notebook keyboards. Amazingly this one sagged the least of the entire row which made the whole computer feel more solid. This may be due to the smaller size of the notebook.

The touchpad is appropriately sized. It has a built in scroll bar section for both horizontal and vertical scrolling; it would be better if it were textured like an HP. It is not overly sensitive. There are left and right mouse buttons below it. There is no pointing stick. I find the keyboard and touchpad above average compared to other notebooks.

### *Screen*

The screen has a resolution of 1024 x 768. The advantage is that this is a very standard screen resolution to avoid display problems. The brightness of the screen can be controlled from the F6 and F7 buttons. The display dims when on battery power compared to AC power to save energy. Compared to other screens the viewing angle is less both vertically and horizontally. You can definitely tell when you are not directly perpendicular to it. It is otherwise bright with good colors and refresh rate.

### *Processor*

This computer is built around the Athlon XP-M 2200+ processor. A full review of the processor would be beyond the scope of this review. Thankfully, it is based on the Athlon XP processor which I have previously explained and features all the same technology. [http://www.epinions.com/content\\_128486379140](http://www.epinions.com/content_128486379140)

This processor has a clock speed of 1.6 GHz (max speed 1658 mHz), and has 128 kb of L1 cache, and 512kb of L2 cache. It is part of the Barton family of processors with 0.13 micron technology.

The one difference to the desktop processor is the PowerNow! technology which is what makes this a notebook chip. Be careful shopping as many notebooks out there use a desktop chip to save money which in many cases run very hot and limit battery life not to mention hard drive life. The PowerNow! system works to vary the clock speed of the chip to the task at hand. When running a processor intensive application the chip runs at the full clock speed, when running on battery at a less intensive application the processor throttles back to a minimal speed, for this chip 400 mHz. This serves to maximize battery life, as well as keep the notebook from running so hot. The counterpart technology from Intel is known as Speedstep and works in the same fashion.

How does this all work on this notebook? Less than ideally unfortunately out of the box. The chip runs at clock speeds of 1.2 GHz to 1.6 GHz, but does not seem to throttle back like it should despite the PowerNow! technology. I have also updated the PowerNow! driver from the AMD website, but it does not seem to make any difference. This unfortunately will limit the battery life. To get the PowerNow! technology to work properly requires a program called SpeedswitchXP. Using

version 1.4 which is the latest, I was able to get the chip to vary its speed from 400 mHz to 1.6 GHz. As is often the case, it takes some nice guy to write a freeware program to get the hardware to perform as it should. Additional battery life and processor control can be obtained using 2 other programs known as "the power trio" of which Speedswitch is one component. Look in the Averatec forum below to find the links to the download as well as detailed instructions for those interested in max battery life. The computer even runs cooler on AC power as an added benefit. The benchmark numbers below were the same with SpeedswitchXP installed.

In the benchmark department, the numbers look better. I ran the benchmark using CPU Bench with the computer set to max AC power and plugged in. The CPU Bench came up with a number between 475 and 499 on 25 runs of the program. Also, it would run Unreal Tournament at an acceptable 55 frames per second. This is about what I would expect from this chip and consistent with my testing of the Athlon XP 2800+ processor.

The crucial question in most folk's minds is how does this compare to a Centrino processor? Well, in terms of battery life the Centrino is a clear winner as it runs at a lower voltage. In terms of performance the answer is not so clear. Very few head to head tests have been done of the less common XP-M processor against the Centrino. The 2200+ designation refers to an equivalent Pentium 4 2.2 Ghz processor which this is probably roughly equivalent to (the Pentium 4 2.4 GHz only scored a 377 on my original testing with CPUBench). The one good battery of tests was done by Tom&'s hardware on 2 notebooks by Fujitsu and the Athlon XP-M ran almost as fast as a Centrino at the same clock speed on many tests. Therefore, I would consider this chip roughly equivalent to a Centrino 1.5 to 1.6 part. As the Athlon is a substantially cheaper part, it's probably fine for most users who don't need the most power in there notebook possible.

#### *Hard Drive*

The hard drive is a 4200 rpm model with an 80 GB capacity that formats to 75 GB. This is one of the larger notebook hard drives, especially for an inexpensive notebook of this size. I ran HD Tach 2.70 to benchmark it and the numbers were very good, especially when compared to a desktop drive in this review.

[http://www.epinions.com/content\\_131774320260](http://www.epinions.com/content_131774320260)

Read speed: minimum 12.1 MB/sec, maximum 30.6 MB/sec, average 23.1 MB/sec

Random Access time: 26.9 milliseconds

Read burst speed: 79.8 MB/sec

CPU Utilization: 20.3%

For a notebook drive, I was very impressed that they were only a little off the mark of my desktop hard drive. I believe that the quick hard drive contributes to the overall responsive feeling of the notebook.

#### *Optical Drive*

This notebook is notable for its DVD+/-RW drive. This means the drive can read and write to both CDR's and CDRW's, as well as both types of DVD's- both the + and - variety. While it cannot read or write DVD-RAM (few desktop drives do), it can even

write to dual layer media, the latest standard for optical drives. It is rated to read and write CDR's at 24x, DVD's are read at 8x, and written at 4x. While one of the better specs for a notebook drive, this is still several steps behind what current desktop drives can do.

There are at least 2 different drives used in this model of notebook. The first one purchased featured the QSI-082 drive. Unfortunately, QSI does not officially acknowledge the drive on its website. As such there is no official firmware upgrade available (look on the Averatec forum for some unofficial options). That said, the drive did read without any problem, and wrote to the one CDR I tried before it was returned.

I was very pleased when the new notebook utilized the LiteOn 852 drive. From my previous reviews, you can see I am a big fan of LiteOn drives in general.  
[http://www.epinions.com/content\\_123092242052](http://www.epinions.com/content_123092242052)

However, interestingly there is no official support or firmware on the LiteOn website either. There is at least an active community of LiteOn users, and people think of them as "open firmware" so there is at least hope that some unofficial firmware will develop for the drive. I've provided a link below.

Both drives featured 2 mbs of cache, and buffer underrun protection technology. To back up an audio cd took 10:46 of read time and 9:09 of write time for a 581 mb disc. The QSI drive was similar. I must say the discs were good, but the whole process seemed a little slow compared to my 52x drives.

#### *Wireless Performance*

The notebook has a built in wireless card that adheres to the b and faster g standards. Very few notebooks are setup to use the much less common a standard. It easily connects to available network hotspots. The stability of the connection is enhanced by installing the latest drivers directly from the [www.ralink.com](http://www.ralink.com) website which manufactured the wireless component.

When PC Mag tested this notebook they found it to have one of the longest ranges of any wireless card. I can confirm that in my experience. Compared to my Buffalo USB b/g adaptor (one of the best of the category), the connection is much stronger, and can connect to networks further away. In summary, the wireless performance is one of the highlights of this notebook, and is probably better than the Centrino package in terms of range.

#### *Battery Life*

The notebook includes a lithium-ion battery. It is important to calibrate the battery in the bios setup routine initially, and then once every 3 months or so. I have not exhaustively tested battery life, however, 2.5 to 2.75 hours is what I would extrapolate from the battery testing I have done.

#### **Conclusion**

No computer can be all things to all users. For those looking for a second computer, who value portability over having every last feature, this model warrants serious consideration. I would envision this being ideal for the budget conscious college student or commuter who already owns a desktop for their main computer needs. This computer needs to be plugged in for the majority of its use as its battery life is acceptable, but not fantastic. Ultimately, it packs a lot of power in a very portable package at a very aggressive price point which contributes greatly to its success.

Update: After 2 months of ownership, no problems.

### **Additional Resources**

[www.averatec.com](http://www.averatec.com)

This is the manufacturer's website. It has specs, downloadable drivers, as well as the owner's manual can be downloaded as a PDF file which is nice to read before purchase.

[www.averatecforums.com](http://www.averatecforums.com)

This is an unofficial forum which is very active. In the 3250 sub forum is the information on this particular model of notebook. Folks also post info on upcoming models, and particularly good deals on this brand of notebook.

[www.cdfreaks.com](http://www.cdfreaks.com)

This a website devoted to optical drives. In the LiteOn sub forum of the recording forum has a particularly detailed thread on the SOSW-852s drive and its firmware.

[populartechnology.blogspot.com](http://populartechnology.blogspot.com)

My new website devoted to all aspects of technology.

### **Recommended:**

Yes

**Amount Paid (US\$):** 899

**Operating System:** Windows

**Processor:** AMD Athlon (K7)

**Processor speed:** over 1000

**Screen Size:** 12 inches

**RAM:** More than 256

**Internal Storage:** DVD

**Hard Drive (GB):** Over 50

# This Top-of-the-line Machine Won't Hurt Your Bottom Line

Written: Mar 25 '05

Tomado de: [http://www99.epinions.com/content\\_177858186884](http://www99.epinions.com/content_177858186884)

Product Rating: ★★★★★☆ **Pros:** Weight, Design, Price, Performance, Wireless  
Ease of Use: ██████████ Connection, Keyboard, Ports and Burner

**Cons:** Battery Life, Runs hot, less options

**The Bottom Line:** This machine is excellent for your average joe, who wants something portable, and cheap, but doesn't want to sacrifice quality. Excellent for college students.

sunnylea's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook As a college student, I was seeking something lightweight, affordable, but with good performance.

I approached buying an Averatec with skepticism. After all, I had never heard of them and everyone around me seemed to be pushing for a Dell for price, or better machines out of my price range.

Thank goodness I did my own research and didn't listen to them!

This laptop is amazing for the money. It has excellent speed, far better than some of my friends' pricier laptops, and wonderful portability. I barely notice whether I have it in my backpack or not.

The design is also very attractive, and I have had more strangers wander up to me while using it, compliment me on having such a well-looking machine, and ask to know more about it.

I chose this laptop in particular because I was not looking for a desktop replacement, and so many laptops seemed geared toward this these days. I didn't want something that weighed 10 pounds, I didn't want a widescreen monitor, pretty though they are. I wanted something I could... well... use in my lap.

I did, however, want a full size keyboard. I didn't want to have to relearn typing for some cramped keyboard, where I would constantly be typing \\\\ when I meant to hit Backspace.

This machine has provided me with all three of those things. I have no problems typing

on the machine, and yet I have maximum portability, as it weighs under 5 pounds.

Another big plus is the number of ports the machine comes with. I can plug in just about anything my heart desires.

Did I mention the burner? I've definitely enjoyed the burner.

The wireless access has been excellent and easy to use. I enjoy using this machine so much that, even though I own a desktop PC, I purchased a wireless router so that I could slouch on my sofa and type away. I find that I pick up signals and maintain them easier than some of my friends manage with their machines.

The whole machine is quite sturdy overall, and has put up with much more abuse than I should have given it.

Some of the negatives: There is, of course, the ever-popular battery life. Calibration is a MUST and even then, you will never get the promised 3 hours out of it. This hasn't been a major issue for me, as I am usually close to an outlet. I get about 2.5 hours on average without being plugged in.

The machine will also get quite warm. I hear that AMD Athalon processors can run a little warm. I solved this problem with a \$20 heat sink.

The speakers are tinny, but than again, laptops are not known for the most fabulous sound systems in the world. I just purchased a good pair of headphones.

Overall, however, I don't regret my decision in the slightest and am a solid Averatec customer from now on. My overall experience as the owner of this machine for over 6 months has been fantastic.

**Recommended:**

Yes

**Amount Paid (US\$):** 899

**Operating System:** Windows

**Processor:** AMD Athlon (K7)

**Processor speed:** over 1000

**Screen Size:** 12 inches

**RAM:** More than 256

**Internal Storage:** CD-RW and DVD

**Hard Drive (GB):** Over 50

# A really great product for the price!

Written: May 22 '05

Tomado de: [http://www99.epinions.com/content\\_184029449860](http://www99.epinions.com/content_184029449860)

Product Rating: ★★★★★ **Pros:** Features, size, price.

Ease of Use: ██████████

**Cons:** No update information that I can find on the manufacturer's website.

**The Bottom Line:** One of the best values in a notebook computer I've ever seen.

woorob's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook I bought this laptop (notebook) about six weeks ago after shopping around a bit. I decided to buy this one largely because it had been highly rated by PC Magazine (an "Editors' Choice"). I also like the fact that it features a large hard drive, built-in wireless connectivity and a small form factor. I have owned several PCs with AMD processors and have almost always found them to outperform their Intel counterparts, so for me the AMD Athlon processor was a plus too.

While I would have bought this notebook based on its features, the price was amazing, much less than other comparable notebooks I looked at.

The computer worked perfectly straight out of the box. I love the small size. I also have an IBM T30, and my daughter has a [very nice] Toshiba Satellite M35X, but I prefer this Averatec over both.

The integrated wireless feature is absolutely terrific, and works reliably. The notebook comes with a huge hard drive, tons of RAM in DDR form (the good stuff) and a fast AMD mobile processor. The burner program is easier than most to use, and allows you to burn high quality CDs **and** DVDs. Amazingly, you can burn DVDs in almost any DVD format, so you don't have to worry about whether or not you purchased the correct type of recordable DVD.

I have loaded some free software onto my notebook -- Konfabulator (neat small applets that do a variety of different things), Browster (enhances Google searches), Copernic (highly rated indexing program), TopDesk (hides desktop icons), Atomtime (matches the computer's clock to the Navy's atomic clock for perfectly accurate timing) and, of course, the Google search toolbar. You can easily find any of these top-rated (and free) additions by doing a Google keyword search. I believe they have enhanced the notebook quite a bit.

I also added a Microsoft wireless notebook mouse, available from the Sam's Club website

for about \$30. This is a slick product that really makes the notebook easier to use.

**Lastly, but perhaps most importantly, be sure to read the review in this section by djfry ("Averatec amazes me again...").** He addresses the battery life "issue" some have raised, and suggests download of SpeedswitchXP - a CPU frequency control program for notebooks running Windows XP. It downloads and installs quickly and easily. Confirm that it is set to "Dynamic Switching," and enjoy greatly extended battery life. This is not a gimmick, read the technical notes on the Speedswitch website for an explanation as to why notebooks running Windows XP benefit from this program.

I really like this notebook and for a price of around \$800, feel it is an absolutely terrific value.

**Recommended:**

Yes

**Amount Paid (US\$):** 800

**Operating System:** Windows

**Processor:** AMD Athlon (K7)

**Processor speed:** Don't Know

**Screen Size:** 12 inches

**RAM:** More than 256

**Internal Storage:** CD-RW and DVD

**Hard Drive (GB):** Over 50

# A Very Excellent Raring And Tough Exemplary Computer

Written: Dec 26 '05

Tomado de: [http://www.99.epinions.com/content\\_215350152836](http://www.99.epinions.com/content_215350152836)

Product Rating:  **Pros:** Size, components, speed, weight, ports.

Ease of Use: 

Quality of Tech Support:  **Cons:** Inexchangable hard drive.

**The Bottom Line:** The AV3250 is worth every penny because of the weight, size, ease-of-use, and comfort

timmm\_t's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook I searched for about 4 months to find a lightweight computer that met the following specs: Internal Wireless, 60+ GB HD, DVD Burner, small screen, under 5 lbs, at least 512MB RAM and under \$1400.00. I had several that I looked at which were the D\*ll 700m, Fujitsu s2110, IBM X series, CyberPower U200, Averatec 3250, Averatec 3715, Dell X1, Acer Travelmate 3002, Fujitsu 7120, and more.

Each one of these machines had their benefits, but also their drawbacks. Instead of dissecting why each one was good/bad to me, I will tell you about my choice on the Averatec AV3250. First off, this machine has every single feature that I was looking for. I was unsure of the Averatec name, and had read some derogatory statements about their customer service (I have had no reason to call them as of yet, so I can't qualify those statements). What finally pushed me to the Averatec AV3250 (my second choice was the Fujitsu s2110), was the price.

The AV3250 came with Windows XP Home, which I could not use. So I installed Windows XP Pro, which installed without a hitch. I partitioned the drive with Partition Magic, which enabled me to leave my files untouched in case the operating system craps out. After the XP Pro install, I plugged in my RJ-45 cable, went to the Averatec website, and downloaded all the necessary drivers. The patches and drivers were installed with no problems at all. Since then, I have made a couple more system tweaks with no complaints from the machine.

I have had the laptop on my lap the entire time that I have written this review (and 15 minutes prior to that), and the bottom has not become HOT!, as some people say. There is some warmth radiating where my wrists lay over the speakers, but having an HP laptop and IBM laptop previously, it is nothing out of the normal range.

The HD is quite spacious, but it not exchangable with a larger drive as far as I can see.

The only upgrade that I would be able to perform is a memory upgrade. However, this can be compensated for by saving my files to the great DVD burner on this machine or a USB Flash Disk.

I have just purchased Halo - Combat Evolved but have not installed it yet. So, I can't give you an idea on how 3rd party games work. I can tell you though that Spider Solitaire works fine ;-).

The sound from this little machine is not top notch but I am not an audiophile so it sounds okay. I listen to a vast range of music and would have to say that the violins of classical music, when the really high notes are hit, can be piercing AND that the double bass drums of Slayer sound bad on some songs.

The screen is crystal clear and everything is very appealing in terms of color and clarity. The size is absolutely fine with me. At home I have a 17" LCD, here is 12". So it's a matter of scaling down. I know that the laptop is meant for work on the road, not examining molecular physics minutae, so I don't put it to that test.

The battery life is about 2.5 hours which is enough for my needs. I have a converter for airports/aircraft and cars if necessary.

I am using the AV3250 for school, word processing, spreadsheet formulae, and web-surfing. I wanted the weight not to be too cumbersome so as to feel like a cinderblock but be powerful enough to deal with day to day tasks. I also do some C++ and SQL programming on this. No problems.

The keyboard works well. The keys take some getting used to but it's not that difficult to master. The problem with the keyboard would only be for someone who has hands about the size of a Cadillac.

I love this machine very much and am very happy with it. It could use a couple more ounces shaved off the weight (it's about a 350 page hard cover text book), and allow for the harddrive to be exchanged if the HD ever goes bad. Other than that, the machine is great. Don't be afraid to look at this machine as a good competitor to the machines I listed above.

Oh and by the way, the laptop has still STAYED on my lap this whole time and it's still not hot. Just over warm.

**Recommended:**

Yes

**Amount Paid (US\$):** 699.00

**Operating System:** Windows

**Processor:** AMD Athlon (K7)

**Processor speed:** over 1000

**Screen Size:** 12 inches

**RAM:** More than 256

**Internal Storage:** DVD

**Hard Drive (GB):** Over 50

# Averatec amazes me again...

Written: Feb 12 '05

Tomado de: [http://www99.epinions.com/content\\_173118033540](http://www99.epinions.com/content_173118033540)

Product Rating: ★★★★★ **Pros:** EVERYTHING !

Ease of Use: ██████████

Quality of Tech Support: ██████████ **Cons:** batter life is not an issue...just read the review. Not for 3D gamers.

**The Bottom Line:** Absolute hands down BEST BUY for laptops that were actually meant to be carried around. Purchase it...you won't regret it.

djfry's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook After numerous laptops including Dell, HP, Compaq and more, Averatec tops them all "pound for pound". I will try to keep this review shorter than my last review of the Averatec 5100 series laptop. I am the CEO of a web development company (one of the only web development companies to have a contract with Los Angeles County) and a Health Information Administrator for one of the world's largest HMO's. I hope this builds some credibility to the opinions I am about to share.(P)

I needed to purchase a ultra portable laptop for day to day activity. To be honest, my Averatec 5100 was starting to way me down at 6lbs. How spoiled we get when you think back to the days of the 9-10 lb Dells. I wanted to stay under \$1500 and acquire a machine that would handle all of my daily activities including, but not limited to:

*Web design (using Frontpage and Dreamweaver)*

*Surfing the internet*

*Music production (using Fruity Loops, Cake Walk, etc.)*

*Light video and picture editing (using Adobe PS 6 and Premier)*

*Basic office suite functions (Word, Excel, etc.)*

*Burn DVDs and CDs on the fly*

*Watch movies on the road*

*GPS via Delorme USB and Street Atlas*

and what ever else I could throw at it.

I wasn't interested in playing any extreme 3D games, but I do play Age of Empires and Empire Earth a lot....I guess this review is getting out of control so let me wrap it up.

After 3 months of shopping around and spending a few days with most laptops available in this price range, I went with the Averatec 3250HS. I know the review category I am in

is for the 3250HX, but the only difference is mine is exclusive to Sams Club and has a 60 gig hard drive. Other wise it is exactly the same as the 3250HX. Here are the specs of the 3250HS (Sams Club version):

*AMD XP-M 2200 processor  
60 gig 4200 rpm hard drive  
512 MB DDR 333 memory  
64 megs shared video memory  
DVD- RW / DVD- R / CD-R / CD-RW / DVD & CD drive (this thing does it all folks)  
12.1 inch XGA screen  
built in Wireless G/B mini PCI card (inside laptop/not visible)  
3 USB 2.0 ports  
1 PCMCIA Type I/II card slot  
1 VGA connection  
1 mic and 1 headphone port with external volume wheel  
2 stereo speakers  
mouse touch pad with ability to scroll down/up & sideways*

There are many PROs to this laptop. The size is 1" thin and weighs 4.3 lbs. This thing is as comfortable to carry as a small notebook. It feels extremely durable and built to with stand most anything life can throw it's way (short of a 4 ft high drop I'm sure). The screen is very bright and seems to be a huge improvement over the Averatec 5100 I have. The colors are rich and clear. I think the resolution is just right. The 12.1 inch screen size is more than adequate. I actually prefer this screen size over my 15" inch screen for travel time. A 15" or 14" screen can be a little to much while in Starbucks or on a plane. There isn't much to say about the performance except OUTSTANDING! You'll hear many people say "you can't work on your home videos or digital pictures with specs like that" or "this thing is only good enough for basic office chores". I say they don't know what their talking about. I render professional quality video edits and photos on this all of the time for presentations or marketing jobs. I also produce music anywhere I suddenly feel inspired to with out any resistance from this little work horse. This definitely is the little engine that could. Interestingly enough (and conveniently) the 3 usb ports stay powered even when the laptop is off. This works great for me to charge my Pocket PC with out turning on my laptop. The DVD burner is top notch and performs like a champ with the supplied software. By the way, this laptop comes with just about every piece of software you will probably need including the Windows XP home edition operating system. The stereo speakers sound wonderful for a laptop this size. They are definitely loud enough with enough clarity to enjoy movies and MP3s. The built in wireless card is incredible. I don't lose a signal until I get approximately 175 feet from my access point. This thing goes through walls and floors with out flinching a bit. It handled well in both wireless B and wireless G modes. There is a built in LAN port and a 56K modem port if you prefer to plug in with a hard line.

Now comes the few negatives (along with solutions) that you might have heard about. The batter life out of the box is kind of crappy. You would be lucky to get over 2 hrs with screen brightness set to high, moderate to high use and the wireless card turned on. Many owners and reviewers of the Averatec 3200 line of laptops complain about this. Well all you have to do is install a FREE program called SPEEDSWITCH and batter life will easily surpass 3 hrs. The problem is that the XP-M processor's "PowerNow Technology" sucks. A Intel Centrino processor will step down 1/3 to at least 1/2 of max processor speed when needed. The XP-M will barely drop 1/4 of max processor speed at any time. This is important because you only need 500 to 600 mhz of processor speed when working on documents, surfing the internet or any other light duties. Speedswitch drops my processor speed down to 500 mhz most of the time because it knows that is all I really need at that moment. It will bump it up to the full 1.67 ghz processor speed immediately if it sees that I need it. Great software to say the least. Make sure you set the "on batter power" in Speedswitch to "Switch Dynamically" or "Optimize Batter". I don't know if this is the exact option names, but you will figure it out. Also make sure you download the updates Averatec has listed on their site for this. I haven't had any other negative experiences other than that short headache. I have been using this laptop for about 4 months now and have only had great experiences. I am definitely a Averatec supporter to the fullest. By the way, if anyone complains about the fan running to much (common in all ultra portables), just install a bus deactivation program. There are numerous ones for free on the internet and they keep my machine running so efficiently that the fan doesn't need to come on. Email me if you want the names of a few.

Thanks for reading my "short" review that became a novel. That's what happens when you drink to much coffee in the afternoon. Happy computing!

Alex H.

**Recommended:**

Yes

**Amount Paid (US\$):** 899

**Operating System:** Windows

**Processor:** AMD Athlon (K7)

**Processor speed:** over 1000

**Screen Size:** 12 inches

**RAM:** More than 256




**Internal Storage:** SuperDisk

**Hard Drive (GB):** Over 50

# pretty good laptop, very good for the price

Written: Feb 25 '05

Tomado de: [http://www.99.epinions.com/content\\_174712393348](http://www.99.epinions.com/content_174712393348)

Product Rating:  **Pros:** -Pretty case -Very good price -Functions well -Great hard drive space & good memory  
Ease of Use:   
Quality of Tech Support:  **Cons:** -Poor battery life -AC adapter problems -Speaker placement

**The Bottom Line:** It's a fine computer; it's average for computers of its general range. There are a few problems and annoyances, but it works fine & is great for the price.

ryuri's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook I bought my Averatec 3250HX in September, and at first, I was ecstatic about everything. At first glance, this looks like a beautiful computer. The case is sleek, silver, and fits together nicely, and the touchpad is oddly attractive. I have to say, at the very least, the design is almost perfect.

However, if you look a little closer, you notice that the keys are somewhat cramped together, with no spacers, and that the place of the Function and Control keys are reversed, which is odd both because of the minor inconvenience it causes to keep hitting the Function key as you just begin to get used to your computer, but more so, for me, that once I'd gotten used to the placement of the Control key, whenever I used a "normal" keyboard, such as on our desktop computer, I would keep hitting the wrong key. Also, sometimes the touchpad "spazzes" and sends your cursor flying, but most of the time, it works great. The last thing is that I find that the speaker placement showed extremely poor judgment on Averatec's part, because it's almost impossible not to put your hands over them as you type. I would have preferred to see them somewhere near the top of the keyboard instead.

I find the screen to be of good quality, and it doesn't derive any complaints for me. Some users whose reviews I've read have complained of a stuck pixel somewhere on their screen, but I don't have that problem, so I would just assume that those users were unlucky. Also, I've heard complaints of a poor viewing angle, but I don't seem to be much affected by that. The display is clean if not perfect, and it works wonderfully at the default 1024x768 resolution.

The Averatec is not the fastest of computers, and I do wish that they had showed better judgment (again) and used a better chip than the Athlon XP-M Mobile, but it's "fast enough" when working normally, although sometimes it slows down when running multiple programs, and then pages take quite a long time to load. The 80g hard drive is more than enough space for me, and the 512MB RAM works just fine, too. I suppose more hardcore users and gamers would require more, but if you're a gamer, you definitely wouldn't have been looking for this kind of computer in the first place.

The Averatec gets warm when used, but not hot enough to make you uncomfortable. With heavy usage, it feels somewhat hot if you leave your hand on the bottom for some time, but again, the heat for me is not really a problem.

The only real complaint I would have with this computer is the battery life. The battery doesn't even last 2 hours when it advertises 3 (although someone said that it does really last 3 hours if you put it on the lowest resolution and screen brightness and just let it sit there doing nothing) with low to moderate usage, and deteriorates quickly with more heavy usage. Also, it uses a surprising amount of power when in standby mode. I would have really liked to see an extended battery--scratch that, I would have really, really, *really* liked to see an extended battery, but I don't believe that Averatec offers that yet, which is really too bad.

Also, I noticed that my AC cord has been having problems recently. I have to hold it in an odd position, play with it a while, and position it carefully in order to get it to work. However, I'm not sure if it's the cord or the plug itself that's causing this, or if it's something that I unknowingly did--but whatever it is, I do wish that Averatec could have built it with a bit more endurance, since this computer is only a few months old and I am expected to have it for at least another year or so.

Also, the positioning of the USB ports is a tad inconvenient--perhaps they could have switched them with the optical drive--and I feel that they're spaced a bit close together, too, but you can squeeze 3 USB cords in there.

I also wish it could have come with Bluetooth, but for the price, I didn't expect it to, nor did I expect miracles. I almost had a hard time coming up with definite pros and cons for this computer, because, frankly, it's just sort of good-average. If you want a really high-end computer, then look somewhere else--perhaps to a Sony Vaio--but if you're just a regular person looking for a regular laptop for a good price, then Averatec is probably for you.

**Recommended:**

Yes

**Amount Paid (US\$):** 999.00

**Operating System:** Windows

**Processor:** Other

**Processor speed:** over 1000

**Screen Size:** 12 inches

**RAM:** More than 256




**Internal Storage:** CD-RW and DVD

**Hard Drive (GB):** Over 50

# Love IT!!

Written: Nov 28 '04

Tomado de: [http://www99.epinions.com/content\\_163297201796](http://www99.epinions.com/content_163297201796)

Product Rating:  **Pros:** Price, weight, hard drive, dvd burner, built in wireless.  
Ease of Use:   
Quality of Tech Support:  **Cons:** Wireless button, keyboard layout.

**The Bottom Line:** Excellent value. No other name brands come close...

boromir99's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook OK, after a lot of internal debating, I plunged. I could not resist the \$200 rebate offered at Circuit City. So total price before taxes was \$899. I love the light weight. I find that a lighter, smaller laptop is more versatile. I can understand why some people may want to get a bit of a bigger screen, but unless you have really bad vision, go with the smaller!! Also, I have read other reviewers saying they dont get the 3+ hours out of the battery. That's probably because to fully optimize the system, you need to go into the bios and set up the power management. WARNING..optimizing battery and fan through the BIOS takes a long time...(several hours..) Also, one weird thing... when I tried to attach to my home wireless network it wouldnt do it. I'm sure somewhere in the online manual it tells you how to do this,but it is not intuitive. Bottom line, there is a button you need to press to activate the wireless card. It is next to the power button.DOH!! Also, keyboard layout is a bit off. All in all though, you will not find all this stuff at anywhere close to this price....

## **Recommended:**

Yes

**Amount Paid (US\$):** 899

**Operating System:** Windows

**Processor:** AMD Athlon (K7)

**Processor speed:** over 1000

**Screen Size:** 12 inches

**RAM:** More than 256




**Internal Storage:** CD-RW and DVD

**Hard Drive (GB):** Over 50

# A good computer for non-gamers

Written: Apr 23 '05

Tomado de: [http://www99.epinions.com/content\\_180925402756](http://www99.epinions.com/content_180925402756)

Product Rating:  **Pros:** Light, sleek, thin, Wireless internet ready  
Ease of Use:   
Quality of Tech Support:  **Cons:** Faulty AC Port that has to be fixed; Low battery life

**The Bottom Line:** This is a great system, the tech support was helpful, but I'd rather not have problems in the first place. Go with another system.

mamawolf's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook I received this laptop from my husband for my birthday. It is a slim, attractive computer, which I mainly use for internet and word processing. I have not played many games on this, but I wouldn't really play many games on it, because I just don't think that playing games with a touchpad would be very fun. I find the letter keys to be about the right spacing for my slender fingers, but could certainly see someone with thicker fingers having trouble. I do have trouble with the number keys though because when typing I inadvertently hit the function keys instead. I have not had much problem with the touchpad or screen. Both are working very well for me, and I can view the screen fine with no problems. I do have to agree that the battery-life is not very long. Mine lasts less than an hour, even though I have configured it and done everything by the manual. I also had a problem with the AC port. After looking at several messageboards, I discovered that it was a default in the manufacturing of these machines. It also caused the laptop to run so hot that it melted the tip of my ac adaptor. I contacted Averatec who gave me a RMA and fixed the problem promptly for me. Since I've gotten the laptop back, I've not had any problems at all of it running hot, nor have I had any AC problems. I have three young children, and I have to see this is pretty durable. It's been stepped on, dropped, and inadvertently thrown across the couch much to my extreme dismay!

## Recommended:

No

**Amount Paid (US\$):** 1199

**Operating System:** Windows

**Processor:** Other

**Processor speed:** over 1000

**Screen Size:** 12 inches

**RAM:** More than 256


**Internal Storage:** DVD  
**Hard Drive (GB):** Over 50

# Good, but mostly bad

Written: Dec 17 '05

Tomado de: [http://www99.epinions.com/content\\_214407810692](http://www99.epinions.com/content_214407810692)

Product Rating: ★★☆☆☆ **Pros:** Small, good for university/college students

Ease of Use: 

**Cons:** battery life, heat, slow processor

**The Bottom Line:** If you're willing to take a risk, buy it and see what happens (maybe it was the demo).

comp crazy's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook The Averatec 3250HX is a great bu. University students, college students, even some business agents would probably welcome this laptop. Unfortunately, it seems that for some, this laptop did not work out well, at all.

I'm reviewing this product right now, because I signed up for an account recently, so the day we bought the laptop was on June 1, 2005. We bought it at Best Buy for \$1299.99 CAD which was affordable for a post-secondary student. The product was a demo, because it was the only one left, so that might have been the problem.

The laptop was great when we got it, it powered-up fast, has wireless, a cd/dvd burner, good hard drive space and sufficient ram. The size was also one of the reasons we bought this laptop. It also comes with Norton Anti-Virus 2005 (30-day trial), MS Works 8.0, and the other stuff you would expect on a Windows XP (SP2) laptop/computer. There was nothing wrong with it, until the next day.

The next day (after we had setup the D-Link DI-524) there was problems. Firstly, battery life sucked with a capital S. Most of the time, it was always on AC power, because it stayed on w/o the adapter for about 30 minutes, and then said that the battery was running low. Also, although it had 64 MB on-board video, the processor was very laggy (not a word I think). It was pretty much worse than a 2-year old Celeron. We calibrated the battery for about 6 hours, but alas that did not work. I did put SpeedSwitch on it, but that didn't make much of a difference. This laptop is like a fire hazard! It heats up in minutes and after that, well too bad for you (literally). This laptop probably weighs itself down with more cons than pros.

Overall, if you are thinking of getting a laptop within the \$1299 below range, do not get it! Think of buying a name brand like Sony or Gateway. But after all, it is an Averatec right?

**Recommended:**

No

**Amount Paid (US\$):** 1299

**Operating System:** Windows

**Processor:** AMD Athlon (K7)

**Processor speed:** over 1000

**Screen Size:** 12 inches

**RAM:** More than 256

**Internal Storage:** CD-RW and DVD

**Hard Drive (GB):** Over 50


# averatook it back to the store 3 times!

Written: Mar 12 '05 (Updated Mar 12 '05)

Tomado de: [http://www.99.epinions.com/content\\_176377269892](http://www.99.epinions.com/content_176377269892)

Product Rating:  **Pros:** when its working...everything...

Ease of Use: 

Quality of Tech Support:  **Cons:** poor, nasty, horrible nappy quality control, did I say nasty

**The Bottom Line:** your taking a risk, i have never seen such a mass produced product have so many problems right out of the box since the chevy cavalier!

djhives's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook I bought this cute lil laptop becasue of the price and features, lets face it on paper it cant be matched. In the real world, well that might be a different story...shall we begin...

Laptop one developed an annoying bright green burnt pixel a whole 3 days after its purchase! after loosing much sleep over this fault in my \$1000 investment i took it back to the store to exchange it

hmmmm experience told me to check my new one before i took it home..well i did..i went ahead and opened the new one up right there in the store...oh snap!!! the new one had ,count em 2 busted pixels (this time red)...joy!...so im on my 3rd laptop in less than 2 weeks! (a new record)

here's the deal averatec has POOR quality control, there is absolutley NO excuse for a laptop to have 2 burnt pixels as soon as you take it out of the box!

Averatec needs to get its act together and get real.... this day and age people will go into ape-mode for spending a grand on a laptop thats less than perfect!

Now let me be honest...my 3rd laptop is working perfectly ie no burnt pixels) and i LOVE IT!...im only saying they need to improve their QC methods....there is NO excuse for **JUNK** getting to the shelves for consumers to purchase!

on paper: laptop is AWESOME!!

when performing properly: lap to is AWESOME!

when you get yours: you have a 75% chance of getting a defective one!!! (based on my actual experience!..contact me if you need an Excel spread sheet)

I know most prefer dramatic reviews, but plain and simple these are the facts about my experience with this laptop.

laptop 1:burnt pixels after 3 days!

laptop 2:opened in store, 2 burnt pixels right out of the box! (should have seen the 'duuur' look on the circuit city managers face....

laptop 3:perfect so far (6 days)

conclusion: 75% chance of getting a defective laptop, Avaretec needs to get it together...

**Recommended:**

No

**Amount Paid (US\$):** 1000

**Operating System:** Windows

**Processor:** Other

**Processor speed:** Don't Know

**Screen Size:** 12 inches

**RAM:** More than 256

**Internal Storage:** CD-RW and DVD

**Hard Drive (GB):** Over 50

# Decent product, terrible service

Written: Jul 20 '05

Tomado de: [http://www99.epinions.com/content\\_190478782084](http://www99.epinions.com/content_190478782084)

Product Rating:



**Pros:** Decent product, decent price

Ease of Use:



Quality of Tech Support:



**Cons:** Really bad customer service. If your notebook needs service, expect long delays and frustration.

**The Bottom Line:** Really poor service, took weeks, unnecessary expense and frustration to resolve simple problems

globalexec's Full Review: Averatec AV3250HX (av3250hx80) PC Notebook This letter explains my service experience. Way below industry standards. It's a shame--I own 3 Averatecs--decent product, decent price--but the truly atrocious service means I won't buy another. (No response to the letter, by the way, although someone did call to find out if I had received the notebooks back).

June 23, 2005

Mr. Saeed Shahbazi  
President  
AVERATEC Inc.  
1231 E. Dyer Road. Suite#150  
Santa Ana, CA 92705

Dear Mr Shahbazi:

During the last 10 months, I have purchased 3 Averatec notebooks, and recommended them to others. (I also, for my business and personal use, have several others, including COMPAQs and Dells).

During the last month, 2 of my Averatecs have needed service. My experience with your service model has been incredibly poor, to the point where I am so angry that I will never buy another Averatec, and will make sure that others know of my experience.

You might check the following RMA:s

243xxxx

245xxxx

Your policy of giving RMA numbers over the phone, with no email or other verification, creates errors.

Your decision not to follow common industry practice of sending the customer a shipping box for service returns creates delays, frustrations and more errors.

Regarding RMA 243xxxx, which left your facility on June 13, I have still not received it on June 23. This is because, despite having a letter from me with the correct letter in the box, your people misaddressed the package to the wrong city.

Regarding RMA 245xxxx, I spent \$90 to have it overnighted to you. It then sat in your facility unattended for 2 days because the RMA on the box was off by one digit (that error-prone system again). Why bother insisting in your instructions to customer to include letters with contact information in the box, if no one is going to look at it? After spending hours with your call center, we were able to identify it. I asked that it be shipped in an expedited fashion back to me (FEDEX ground is a ridiculous way to ship a notebook that people use!). I was assured that I would get a call back offering me an expedited shipping option. Of course, no call came, it was shipped FedEx ground. I called FedEx, and discovered that this package too was misaddressed. Still waiting.

Since I am still waiting for both machines, I don't actually know that they have been repaired. Your so-called "Customer Care" web RMA status section doesn't give any information on what the problem was, has it been resolved, etc.

I suppose that your firm will become a case study of a company with a decent product that destroyed its business though chintzy customer service.

With disappointment,

**Recommended:**

No

**Amount Paid (US\$):** 1200

**Operating System:** Windows

**Processor:** Intel Pentium III

**Processor speed:** Don't Know

**Screen Size:** 12 inches

**RAM:** More than 256

**Internal Storage:** CD-RW and DVD

**Hard Drive (GB):** Over 50

## Express Reviews

Product Rating:



Ease of Use:



Quality of Tech Support:



pretty pretty shiny shiny

by [specificity](#) ,Mar 10 '07

**Pros:** sleek, attractive, very portable, nice screen resolution.

**Cons:** Runs hot all the time, shuts down frequently, lack of suitable help from customer service.

Overall, being a practical minded soul, I am utterly disappointed with this item. Sure, it's pretty, but...

Why? Well, mainly because when I had it a mere two months, It began pouring black smoke out the side and shooting sparks. I sent it for repair under warranty, which took so long, and cost a ton to ship, I was pretty aggravated.

Add to that the fact that since then, the thing runs hot all the time and shuts down constantly on me. It is pretty useless for much other than a 5 minute email check. Tech support stated that they could not help me further, as they had repaired the problem.

[Rate this review](#)

Product Rating:



Ease of Use:



Quality of Tech Support:



Great, if your not gonna use the dvd burner

by [zipedrive](#) ,Feb 24 '05

**Pros:** Fast, 2.5 hour battery life, sharp image XP SP2 included.

**Cons:** Many dvd rom/burner problems.

I am currently on my 3rd one of these. The first one did not read dvds I called their tech support line and they told me to exchange it where I bought it. The second one worked fine for the first few dvds I burned, then they started to take 4,5,even almost 10 times longer to burn then usual. I called tech support again and returned it again, my third one has the same problems and I am most likely going to return it for my money back and get a different one.

[Rate this review](#)

Product Rating:



Ease of Use:



Quality of Tech Support:



Small wonder

by [crazywild](#), Nov 28 '05

**Pros:** small, lightweight, wireless card built in

**Cons:** battery life short, heats up quickly

I absolutely love this notebook. It is small and light. It does get hot real quick, but you can solve that by buying a chill mat. I love the fact that it came with a wireless connection already built in. Battery life isn't that great, but I keep it plugged in most of the time.

[Rate this review](#)

Product Rating:



Ease of Use:



Quality of Tech Support:



ANY success w/ SPEEDSWITCH to extend BAT life?

by [waltzee](#), Mar 08 '05

**Pros:** laptop is smallest of the low priced machines - works well so far (8 days)

**Cons:** bat life seems to only be 2.5 hrs . maybe speedswitch could help

Hi - i read the helpful review from djfry. i did get speedswitch and it is apparently working (dropping cpu from

almost 1.7 ghz to 398 mhz (factor of more than 4!) -

But i do not see a longer bat life.

DOES ANYONE KNOW how to get speedswitch and windows bat mngmnt optimized so that the bat life exceeds 2.5 hours!??

W/ speedswitch the processor slows down by more than a factor of 4, yet i am not seeing any significant difference in battery life! (see more rambling about this below)

i am sure it has to do with me not correctly setting the windows 'bat mangmnt' software - and it is difficult to

charge the bat, change a setting in bat mngmnt, try it for 2 hrs, access the impact of the changes, and do this over and over again!

ONE THING that has helped is running the bat calibration routine in the averatec bios - that increased the bat life by about 25 minutes. to do this, turn on the machine, hit DEL on AVERATEC screen, select 'BAT. CALIBRATION' and

follow instructions w/ laptop plugged in.

any help appreciated- thanks - waltzee = waltzeebay@yahoo.com

[Rate this review](#)