

HCD-X1V

SERVICE MANUAL



Ver. 1.0 2006.07

US Model
Canadian Model
AEP Model
UK Model



- HCD-X1V is the amplifier, super audio CD/DVD system, tuner and video section in DAV-X1V.

This system incorporates with Dolby® Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS® Digital Surround System.

This system perfectly decodes 5.1 channel signal, but you cannot add other commercially available surround speakers.

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- Manufactured under license from Digital Theater Systems, Inc. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

AUDIO POWER SPECIFICATIONS for the US model POWER OUTPUT ALSO TOTAL HARMONIC DISTORTION (THD) Output Power:

Front: 50 W/0.4 class at
100 Hz, 10 % THD
0.7 % THD
Front increased: 50 W/0.4
class at 100-20,000 Hz,
0.7 % THD
Rear/rear: 50 W/0.4
class at 100 - 20,000 Hz,
0.7 % THD

Amplifier section

Power output (rated): 10 W + 10 W (4 class,
1 kHz, 1 % THD)

RMS output power (reference): 20 W + 20 W (4 class,
1 kHz, 10 % THD)

Power increased* Power output (rated): 10 W + 10 W (4 class,
1 kHz, 1 % THD)

RMS output power (reference): 20 W + 20 W (4 class,
1 kHz, 10 % THD)

Subwoofer Power output (rated): 10 W + 10 W (4 class,
100 Hz, 1 % THD)

RMS output power (reference): 20 W + 20 W (4 class,
100 Hz, 10 % THD)

* Depending on the sound field settings used the stereo, there may be no output signal.

Model Name Using Similar Mechanism	NEW
DVD Mechanism Type	CDM69EH
Optical Pick-up Block Name	KHM-310CAB or KHM-313CAB

SPECIFICATIONS

Input (Audio)

VIDEO 1, VIDEO 2, TV, AUDIO IN

Search/stop: 4.0 W (A.T.T. OFF), 2.0 W (A.T.T. ON)
Eject/stop: 50 W (class)

Inputs (Digital/Optical)

VIDEO 1, VIDEO 2

Optical: 75 W (class)

Super Audio CD/DVD system

Laser

Search/stop/stop (Super Audio CD/DVD):
3 - 625 W (class)
(CD-R, DVD-R)
Eject/stop/stop:
50 W (class)

Digital tuner system

For North American models:

FM/AM

For European models: DAB/DAB+

Tuner section

System

FLL-quadrature-locked digital
synthesizer system

FM tuner section

Tuning range

For North American models:

87.5 - 108.0 MHz
(100 kHz steps)
87.5 - 108.0 MHz
(50 kHz steps)

For European models:

87.5 - 108.0 MHz
(50 kHz steps)

Antenna (external)

Antenna (external) terminals

FM: 100 W (class) (external)
TV: 100 W (class) (external)
100 W (class)

Subcarrier frequency

— Continued on next page —

SUPER AUDIO CD/DVD RECEIVER

SONY®

Sony Hcd X1v Service Manual

Clemens Wendtner



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Table of Contents Sony Hcd X1v Service Manual

1. Understanding the eBook Sony Hcd X1v Service Manual
 - The Rise of Digital Reading Sony Hcd X1v Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Sony Hcd X1v Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sony Hcd X1v Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sony Hcd X1v Service Manual
 - Personalized Recommendations
 - Sony Hcd X1v Service Manual User Reviews and Ratings
 - Sony Hcd X1v Service Manual and Bestseller Lists
5. Accessing Sony Hcd X1v Service Manual Free and Paid eBooks
 - Sony Hcd X1v Service Manual Public Domain eBooks
 - Sony Hcd X1v Service Manual eBook Subscription Services
 - Sony Hcd X1v Service Manual Budget-Friendly Options

6. Navigating Sony Hcd X1v Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Sony Hcd X1v Service Manual Compatibility with Devices
 - Sony Hcd X1v Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sony Hcd X1v Service Manual
 - Highlighting and Note-Taking Sony Hcd X1v Service Manual
 - Interactive Elements Sony Hcd X1v Service Manual
8. Staying Engaged with Sony Hcd X1v Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sony Hcd X1v Service Manual
9. Balancing eBooks and Physical Books Sony Hcd X1v Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sony Hcd X1v Service Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sony Hcd X1v Service Manual
 - Setting Reading Goals Sony Hcd X1v Service Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sony Hcd X1v Service Manual
 - Fact-Checking eBook Content of Sony Hcd X1v Service Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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web the standard form of a quadratic equation is $ax^2 + bx + c = 0$ where a , b and c are real numbers and $a \neq 0$ the term $b^2 - 4ac$ is known as the discriminant of a quadratic equation it tells the nature of the roots if the discriminant is greater than 0 the roots are real and different if the discriminant is equal to 0 the roots are real and equal if the

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web the quadratic formula in terms of the discriminant is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ example find the discriminant of the quadratic equation $2x^2 - 3x - 8 = 0$ comparing the equation with $ax^2 + bx + c = 0$ we get $a = 2$, $b = -3$ and $c = -8$ so the discriminant is Δ or $b^2 - 4ac = (-3)^2 - 4(2)(-8) = 9 + 64 = 73$ discriminant of cubic equation

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web find the value of the discriminant of each quadratic equation $1. 6p^2 - 2p - 3 = 0$ $2. 7x^2 - 2x + 1 = 0$ $3. 4m^2 - 4m - 5 = 0$ $4. 5b^2 - 2b - 4 = 0$ $5. r^2 - 5r + 2 = 0$ $6. 2p^2 - 5p + 4 = 0$ $7. 57$ find the discriminant of each quadratic equation then state the number of real and imaginary solutions

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web mar 1 2022 the quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ if the discriminant is positive this means

we are taking the square root of a positive number we will have a positive and negative real solution this equation will have two real solutions or x x x intercepts