

HDMI Version	1.0	1.1	1.2	1.3	1.4	2.0
DVD Audio	●	●	●	●	●	●
SACD		●	●	●	●	●
Deep Color			●	●	●	●
Color gamut expansion				●	●	●
Dolby True HD				●	●	●
DTS-HD Master Audio				●	●	●
Auto lip-sync				●	●	●
Mini connector				●	●	●
3D on HDMI				●	●	●
4K on HDMI					●	●
Micro connector					●	●
Vehicles connector					●	●
HDMI Ethernet channel					●	●
Audio Return Channel					●	●
4K@50/60						●
CEC extension						●
Dual screen display						●
Multi-stream audio						●
Aspect ratio 21:9						●
Dynamic auto lip-synch						●

# Hdmi 2 0 Specification And 4k Uhd 2160p Resolutions

**David Stump, ASC**



## **Hdmi 2 0 Specification And 4k Uhd 2160p Resolutions:**

**Fundamentals of Multimedia** Ze-Nian Li, Mark S. Drew, Jiangchuan Liu, 2021-02-16 PREVIOUS EDITION This textbook introduces the Fundamentals of Multimedia addressing real issues commonly faced in the workplace The essential concepts are explained in a practical way to enable students to apply their existing skills to address problems in multimedia Fully revised and updated this new edition now includes coverage of such topics as 3D TV social networks high efficiency video compression and conferencing wireless and mobile networks and their attendant technologies Features presents an overview of the key concepts in multimedia including color science reviews lossless and lossy compression methods for image video and audio data examines the demands placed by multimedia communications on wired and wireless networks discusses the impact of social media and cloud computing on information sharing and on multimedia content search and retrieval includes study exercises at the end of each chapter provides supplementary resources for both students and instructors at an associated website

**Digital Cinematography** David Stump, ASC, 2021-11-18 Today s successful cinematographer must be equal parts artist technician and business person The cinematographer needs to master the arts of lighting composition framing and other aesthetic considerations as well as the technology of digital cameras recorders and workflows and must know how to choose the right tools within their budget to get the job done David Stump s Digital Cinematography focuses on the tools and technology of the trade looking at how digital cameras work the ramifications of choosing one camera versus another and how those choices help creative cinematographers to tell a story This book empowers the reader to correctly choose the appropriate camera and workflow for their project from today s incredibly varied options as well as understand the ins and outs of implementing those options Veteran ASC cinematographer David Stump has updated this edition with the latest technology for cameras lenses and recorders as well as included a new section on future cinematographic trends Ideal for advanced cinematography students as well as working professionals looking for a resource to stay on top of the latest trends this book is a must read

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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  $\Delta$  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  $1. 6p^2 - 2p - 3 = 0$ ,  $2. 7x^2 - 2x + 1 = 0$ ,  $3. 4m^2 - 4m - 5 = 0$ ,  $4. 9b^2 - 4b - 4 = 0$ ,  $5. r^2 - 5r + 2 = 0$ ,  $6. 2p^2 - 5p + 4 = 0$ ,  $7. 2p^2 - 5p + 4 = 0$  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  $x$  intercepts

