

4K UHD DVD

JOHN HALL – MHE SIG

MAY 2017



WHAT IS 4K TV ??

- **4K IS 4096 X 2160 PIXELS**
- **UHD IS 3840 X 2160 PIXELS WITH 8 BIT COLOUR DEPTH**
- **UHD PREMIUM IS 3840 X 2160 WITH 10 BIT COLOUR DEPTH AND PIXEL BRIGHTNESS FROM 0.05 TO 1,000 'NITS' FOR LEDS AND 0.0005 TO 540 'NITS' FOR OLED (LOOK FOR LOGO)**
- **SUHD – MARKETING TERM FOR SAMSUNG HIGH END TV'S**

WHO MAKES 4K TV ???

Brand	UHD	Super UHD	SUHD	4K Ultra HD TV	4K Ultra HD with HDR	Ultra HD HDR
Samsung	Yes		Yes			
LG		Yes		Yes		
Sony				Yes	Yes	
Vizio				Yes		Yes

4K UHD DVD PLAYERS

- **SAMSUNG UBD-K8500**
- **SAMSUNG UBD-M9500**
- **LG UP970**
- **PANASONIC UB900GNK**
- **PANASONIC DMP-UB300**
- **PANASONIC DMP UB400**
- **OPPO UDP-203**
- **XBOX SCORPIO**

4K UHD DVD BURNERS

- **PIONEER BDR-S11J-BK**
- **PIONEER BDR-S11J-X**
- **PIONEER BDR-211UBK**

NEEDS INTEL KABY LAKE SUPPORT

7TH GEN INTEL® CORE™ PROCESSORS ENABLES NEXT-GENERATION CONTENT ON YOUR NEW PC



H/W Acceleration	6th Gen Intel Core Processors	7th Gen Intel Core Processors
1080p HEVC decode/encode	Yes	Yes
4K HEVC10-bit decode/encode	No	Yes
VP9 decode	No	Yes

7TH GEN INTEL® CORE™ PROCESSORS SUPPORT A RICH VISUAL EXPERIENCE

Intel Confidential. UNDER EMBARGO until August 30, 2016 at 6:00AM PDT.
All products, dates, and figures specified are preliminary based on current expectations, and are subject to change without notice.

NEEDS HDMI 2.0, HDCP 2.2, INTEL SGX MOTHERBOARD

- **ULTRA HD BLU-RAY COMPATIBLE MOTHERBOARDS SO FAR**
ALL REQUIREMENTS MET - HDMI 2.0, HDCP 2.2 & INTEL SGX ARE HERE. PLEASE NOTE THAT THE BOARDS WITHOUT THE WORD "CONFIRMED" WERE NOT TESTED YET.
- **ASROCK FATAL1TY Z270 GAMING ITX/AC (UHD BD COMPATIBILITY CONFIRMED BY CYBERLINK; DOWNLOAD HDCP KEY FROM ASROCK SUPPORT PAGE)**
ASROCK FATAL1TY Z170 GAMING ITX/AC (UHD BD COMPATIBILITY CONFIRMED BY NILSMAN; KABY LAKE SUPPORT SINCE BIOS P7.10)
BIOSTAR Z270GT9 (UPDATE BIOS TO VERSION Z27AF222 OR LATER)
BIOSTAR Z270GT8 (NEW BIOS INCL. SGX SUPPORT WILL BE AVAILABLE BY THE END OF APRIL)
GIGABYTE AORUS Z270X GAMING 9 (UHD BD COMPATIBILITY CONFIRMED BY PIONEER - THEY USED IT FOR TESTING THE DRIVES)
GIGABYTE AORUS Z270X GAMING 8 (UHD BD COMPATIBILITY CONFIRMED BY ME; UPDATE BIOS TO VERSION F4 OR LATER)
SUPERMICRO C7Z270-PG (DOWNLOAD SGX UTILITY FROM SUPERMICRO SUPPORT PAGE)
SUPERMICRO C7Z270-CG (DOWNLOAD SGX UTILITY FROM SUPERMICRO SUPPORT PAGE)

Amd Rizen not supported

WHAT ABOUT MY OLD 4K TV ?



Make sure it has HDCP 2.2 and is HDR compliant

WHAT ABOUT MY A/V RECEIVER?

- **AV RECEIVERS WITH HDMI 2.0A CAN PASS ALL 4K AND HDR CONTENT. OLDER EQUIPMENT WAS MOST LIKELY HDMI 1.4, WHICH CAN DO CERTAIN TYPES OF 4K, BUT NOT HDR. SO WHILE YOUR CABLES ARE PROBABLY OK, YOU MIGHT NEED TO UPGRADE YOUR RECEIVER**
- **(ALSO APPLIES TO SOUND BARS) !!!**

Make sure it has HDCP 2.2 and is HDR compliant

WHAT 4K CONTENT IS AVAILABLE ?

- **NETFLIX**
- **YOUTUBE**
- **4K DISCS**
- **YOUR CAMERA**