

Advanced MPEG2 High Bit Rate Encoding

1080p Dynamic Digital Signal Processor (DDSP)

At the heart of the GY-HM700U is the new Dynamic Digital Signal Processor. Processing is performed on the full progressive 1920 x 1080 signal, regardless of the camcorder's settings, ensuring the highest picture quality in any shooting mode. All major HD resolutions are supported, including 1920 x 1080, 1440 x 1080 and 1280 x 720.



35 Mbps MPEG2 Encoding

The highly efficient MPEG2 codec used by the Dynamic Digital Signal Processor compresses video signals at up to 35 Mbps—high enough to support full 1920 x 1080 resolution—for simply stunning image quality. The MPEG2 long GOP (Group of Pictures) codec is a widely used, broadcast-standard compression system and is supported by all popular editing systems and broadcast servers.

35 Mbps

35 Mbps		25 Mbps	19 Mbps
1920 x 1080/60i	1280 x 720/60p	1440 x 1080/60i	1280 x 720/60p
1920 x 1080/50i	1280 x 720/50p	1440 x 1080/50i	1280 x 720/50p
1920 x 1080/30p	1280 x 720/30p		1280 x 720/30p
1920 x 1080/25p	1280 x 720/25p		1280 x 720/25p
1920 x 1080/24p	1280 x 720/24p		1280 x 720/24p
1440 x 1080/60i (MOV only)			
1440 x 1080/50i (MOV only)			

Uncompressed Audio Recording with Full Manual Control

The GY-HM700U captures audio with the same uncompromising quality as video. Two-channel 16-bit/48 kHz uncompressed linear PCM can be recorded via the detachable shotgun microphone, or via a pair of balanced XLR connectors. Versatile input switching and independent channel assignment allow both mic and line-level sources (such as wireless receivers) to be connected, and phantom power is available on each XLR connector independently. Audio recording levels can be controlled automatically or manually, with an audio meter in the viewfinder and LCD monitor for easy monitoring.

linear PCM Recording



Best-in-Class High Resolution HD Recording

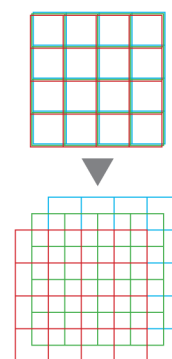
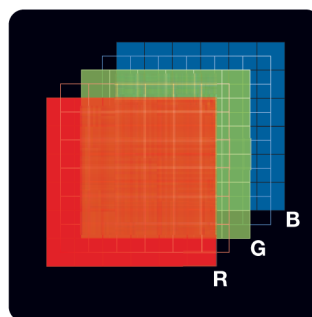
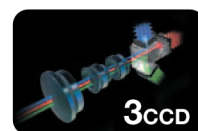
Newly Developed Canon 14x HD Lens

The JVC GY-HM700U comes equipped with a newly developed 14x interchangeable HD lens from Canon. With a focal length down to 4.4 mm (equivalent to 31.7 mm on a 35 mm camera), the new lens is 20% wider than previous models, and at the telephoto end (up to 447 mm at 35 mm equivalent) it is less susceptible to color flaring. Throughout the zoom range the lens produces less chromatic aberration for more accurate focusing, and the same image brightness without reducing the F-stop.



Three 1/3-inch Progressive CCD Design with Triplex Offset

The three progressive CCD design provides rich, accurate colors, while JVC original Triplex Offset technology in conjunction with pixel correlation adaptively increases the effective resolution both horizontally and vertically by shifting the red and blue pixels independently relative to the green for a sharper picture without any corresponding loss in sensitivity. As a result, horizontal, vertical and diagonal resolutions are dramatically increased.



Triplex Offset