Specifications

| GENERAL SPECIFICATIONS<br>GENERAL SPECIFICATIONS<br>GENERAL SPECIFICATIONS<br>GENERAL SPECIFICATIONS<br>GENERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA<br>CAMERA   | DC12V (AC adapter), DC7.2V (battery)<br>Approx. 24W (Default setting)<br>188mm x 227mm x 437mm (with lens hood)<br>3.6kg (with lens hood and battery, without<br>Operating: 0°C to 40°C, Storage: -20°C to 5<br>Operating: 30% to 80%, Storage: Under 85<br>1* (effective) CMOS, effective number of p<br>Internal synchronization<br>Optical image stabilizer<br>F11 at 2000lx 89.9% reflectance<br>F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6<br>82mm<br>1/6 (48Hz), 1/7.5 (60Hz) to 1/10000<br>-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3<br>OFF, 1/4, 1/16, 1/64<br>0.4* LCOS approx 3.68M pixels Quad VGA<br>3.97* LCD approx. 1.15M pixels WVGA (800<br>SDHC/SDXC memory card x 2<br>SSD (Solid State Drive) Type M.2 SATA<br>ProRes 422, MPEG-4 AVC/H.264, MPEG-2 | wireless LAN antenna unit)<br>50°C<br>56%<br>56%<br>56%<br>56%<br>56%<br>56%<br>56%<br>56%   |
|--|--|--|
| GENERAL SPECIFICATIONS Dimensions (W × H × D) Weight Temperature Humidity Image sensor Synchronizing Stabilizer Sensitivity Lens Filter diameter Shutter speed Gain ND filter Viewfinder LCD monitor UCD monitor VIDEO/AUDIO RECORDING Video codec File format Audio recording Protocol Resolution and bit rate  | 18mm x 227mm x 437mm (with lens hood)         3.6kg (with lens hood and battery, without         Operating: 0°C to 40°C, Storage: -20°C to 5         Operating: 30% to 80%, Storage: Under 85         1* (effective) CMOS, effective number of p         Internal synchronization         Optical image stabilizer         F11 at 2000lx 89.9% reflectance         F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6         82mm         1/6 (48Hz), 1/7.5 (60Hz) to 1/10000         -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3)         OFF, 1/4, 1/16, 1/64         0.4* LCOS approx 3.68M pixels Quad VGA         3.97* LCD approx. 1.15M pixels WVGA (800         SDHC/SDXC memory card x 2         SSD (Solid State Drive) Type M.2 SATA                                  | wireless LAN antenna unit)<br>50°C<br>56%<br>57%<br>57%<br>57%<br>57%<br>57%<br>57%<br>57%<br>57   |
| GENERAL SPECIFICATIONS Weight Temperature Humidity Image sensor Synchronizing Stabilizer Sensitivity Lens CAMERA Filter diameter Shutter speed Gain ND filter Viewfinder LCD monitor UDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO STREAMING LUE VIDEO STREAMING  | <ul> <li>3.6kg (with lens hood and battery, without<br/>Operating: 0°C to 40°C, Storage: -20°C to 5</li> <li>Operating: 30% to 80%, Storage: Under 85</li> <li>1° (effective) CMOS, effective number of p</li> <li>Internal synchronization</li> <li>Optical image stabilizer</li> <li>F11 at 2000k 89.9% reflectance</li> <li>F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6</li> <li>82mm</li> <li>1/6 (48Hz), 1/7.5 (60Hz) to 1/10000</li> <li>-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3</li> <li>OFF, 1/4, 1/16, 1/64</li> <li>0.4* LCOS approx 3.68M pixels Quad VGA</li> <li>3.97* LCD approx. 1.15M pixels WVGA (800</li> <li>SDHC/SDXC memory card x 2</li> <li>SSD (Solid State Drive) Type M.2 SATA</li> </ul>  | wireless LAN antenna unit)<br>50°C<br>56%<br>57%<br>57%<br>57%<br>57%<br>57%<br>57%<br>57%<br>57   |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO STREAMING<br>VIDEO STREAMING<br>VIDEO STREAMING<br>VIDEO AUDIO RECORDING<br>VIDEO STREAMING<br>VIDEO STREAMING<br>Weight<br>Temperature<br>Weight<br>Image sensor<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizing<br>Synchronizi | Operating: 0°C to 40°C, Storage: -20°C to 5<br>Operating: 30% to 80%, Storage: Under 85<br>1* (effective) CMOS, effective number of p<br>Internal synchronization<br>Optical image stabilizer<br>F11 at 2000k 89.9% reflectance<br>F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6<br>82mm<br>1/6 (48Hz), 1/7.5 (60Hz) to 1/10000<br>-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3<br>OFF, 1/4, 1/16, 1/64<br>0.4* LCOS approx 3.68M pixels Quad VGA<br>3.97* LCD approx. 1.15M pixels WVGA (800<br>SDHC/SDXC memory card x 2<br>SSD (Solid State Drive) Type M.2 SATA   | 50°C<br>5%<br>5%<br>bixels: approx 9.35 million<br>6mm (f=28mm to 560mm (35mm equivalent))<br>36) dB, AGC<br>10280 x 960), 1280 x 720 at 16:9<br>10 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps): Class 5, 50: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4 |
| VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO/AUDIO RECORDING VIDEO STREAMING  | Operating: 30% to 80%, Storage: Under 85           1" (effective) CMOS, effective number of p           Internal synchronization           Optical image stabilizer           F11 at 2000k 89.9% reflectance           F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6           82mm           1/6 (48Hz), 1/7.5 (60Hz) to 1/10000           -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3)           OFF, 1/4, 1/16, 1/64           0.4" LCOS approx 3.68M pixels Quad VGA           3.97" LCD approx. 1.15M pixels WVGA (800           SDHC/SDXC memory card x 2           SSD (Solid State Drive) Type M.2 SATA  | 5%<br>bixels: approx 9.35 million<br>6mm (f=28mm to 560mm (35mm equivalent))<br>36) dB, AGC<br>4(1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps): Class 5, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4                            |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO STREAMING<br>VIDEO STREAMING   | 1* (effective) CMOS, effective number of p           Internal synchronization           Optical image stabilizer           F11 at 2000lx 89.9% reflectance           F2 8 (wide) to F4.5 (tele), f=9.43mm to 188.6           82mm           1/6 (48Hz), 1/7.5 (60Hz) to 1/10000           -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3)           OFF, 1/4, 1/16, 1/64           0.4* LCO3 approx 3.68M pixels Quad VGA           3.97* LCD approx. 1.15M pixels WVGA (800           SDHC/SDXC memory card x 2           SSD (Solid State Drive) Type M.2 SATA  | sixels: approx 9.35 million<br>6mm (f=28mm to 560mm (35mm equivalent))<br>36) dB, AGC<br>(1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps): Class 5.0: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4                        |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO/SUDIO RECORDING<br>VIDEO/SUDIO RECORDING<br>VIDEO/SUDIO RECORDING<br>VIDEO/STREAMING<br>VIDEO STREAMING<br>VIDEO STREAMING<br>VIDEO STREAMING<br>VIDEO STREAMING   | Internal synchronization           Optical image stabilizer           F11 at 2000lx 89.9% reflectance           F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6           82mm           1/6 (48Hz), 1/7.5 (60Hz) to 1/10000           -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3           OFF, 1/4, 1/16, 1/64           0.4* LCOS approx 3.68M pixels Quad VGA           3.97* LCD approx. 1.15M pixels WVGA (800           SDHC/SDXC memory card x 2           SSD (Solid State Drive) Type M.2 SATA  | 6mm (f=28mm to 560mm (35mm equivalent))<br>36) dB, AGC<br>(1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps): Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4   |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO/SUDIO RECORDING<br>VIDEO STREAMING<br>LIVE VIDEO STREAMING   | Optical image stabilizer           F11 at 2000lx 89.9% reflectance           F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6           82mm           1/6 (48Hz), 1/7.5 (60Hz) to 1/10000           -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3           OFF, 1/4, 1/16, 1/64           0.4* LCOS approx 3.68M pixels Quad VGA           3.97* LCD approx. 1.15M pixels WVGA (800           SDHC/SDXC memory card x 2           SSD (Solid State Drive) Type M.2 SATA   | 36) dB, AGC<br>(1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps): Class 5, Ds: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO/SUDIO RECORDING<br>VIDEO STREAMING<br>LIVE VIDEO STREAMING   | F11 at 2000lx 89.9% reflectance           F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6           82mm           1/6 (48Hz), 1/7.5 (60Hz) to 1/10000           -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3)           OFF, 1/4, 1/16, 1/64           0.4* LCOS approx 3.68M pixels Quad VGA           3.97* LCD approx. 1.15M pixels WVGA (800           SDHC/SDXC memory card x 2           SSD (Solid State Drive) Type M.2 SATA   | 36) dB, AGC<br>(1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps): Class 5, Ds: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| CAMERA<br>CAMERA<br>Filter diameter<br>Shutter speed<br>Gain<br>ND filter<br>Viewfinder<br>LCD monitor<br>CCD monitor<br>Recording media<br>VIDEO/AUDIO RECORDING<br>Video codec<br>File format<br>Audio recording<br>Protocol<br>Resolution and bit rate  | F2.8 (wide) to F4.5 (tele), f=9.43mm to 188.6           82mm           1/6 (48Hz), 1/7.5 (60Hz) to 1/10000           -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3)           OFF, 1/4, 1/16, 1/64           0.4" LCOS approx 3.68M pixels Quad VGA           3.97" LCD approx. 1.15M pixels WVGA (800           SDHC/SDXC memory card x 2           SSD (Solid State Drive) Type M.2 SATA   | 36) dB, AGC<br>(1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps): Class 5, Ds: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| CAMERA<br>Filter diameter<br>Shutter speed<br>Gain<br>ND filter<br>Viewfinder<br>LCD monitor<br>LCD monitor<br>Recording media<br>Video codec<br>File format<br>Audio recording<br>Protocol<br>Resolution and bit rate   | 82mm<br>1/6 (48Hz), 1/7.5 (60Hz) to 1/10000<br>-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3<br>OFF, 1/4, 1/16, 1/64<br>0.4* LCO approx. 1.15M pixels Quad VGA<br>3.97* LCD approx. 1.15M pixels WVGA (800<br>SDHC/SDXC memory card x 2<br>SSD (Solid State Drive) Type M.2 SATA   | 36) dB, AGC<br>(1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps): Class 5, Ds: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO STREAMING<br>VIDEO STREAMING  | 1/6 (48H2), 1/7.5 (60H2) to 1/10000           -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3)           OFF, 1/4, 1/16, 1/64           0.4* LCOS approx 3.68M pixels Quad VGA           3.97* LCD approx. 1.15M pixels WVGA (800)           SDHC/SDXC memory card x 2           SSD (Solid State Drive) Type M.2 SATA   | . (1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>Video codec<br>File format<br>Audio recording<br>Protocol<br>Resolution and bit rate  | -6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24 Lolux (30, 3<br>OFF, 1/4, 1/16, 1/64<br>0.4* LCOS approx 3.68M pixels Quad VGA<br>3.97* LCD approx. 1.15M pixels WVGA (800<br>SDHC/SDXC memory card x 2<br>SSD (Solid State Drive) Type M.2 SATA  | . (1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>Video codec<br>File format<br>Audio recording<br>Protocol<br>Resolution and bit rate  | OFF, 1/4, 1/16, 1/64<br>0.4* LCOS approx 3.68M pixels Quad VGA<br>3.97* LCD approx. 1.15M pixels WVGA (800<br>SDHC/SDXC memory card x 2<br>SSD (Solid State Drive) Type M.2 SATA   | . (1280 x 960), 1280 x 720 at 16:9<br>0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| Viewfinder<br>LCD monitor<br>VIDEO/AUDIO RECORDING<br>Video codec<br>File format<br>Audio recording<br>Protocol<br>Resolution and bit rate   | 0.4* LCOS approx 3.68M pixels Quad VGA<br>3.97* LCD approx. 1.15M pixels WVGA (800<br>SDHC/SDXC memory card x 2<br>SSD (Solid State Drive) Type M.2 SATA   | 0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>Video codec<br>File format<br>Audio recording<br>Protocol<br>Resolution and bit rate   | 3.97* LCD approx. 1.15M pixels WVGA (800<br>SDHC/SDXC memory card x 2<br>SSD (Solid State Drive) Type M.2 SATA   | 0 x 480), 800 x 450 at 16:9<br>4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| VIDEO/AUDIO RECORDING<br>VIDEO/AUDIO RECORDING<br>Video codec<br>File format<br>Audio recording<br>Protocol<br>LIVE VIDEO STREAMING  | SDHC/SDXC memory card x 2<br>SSD (Solid State Drive) Type M.2 SATA   | 4K (150Mbps): UHS-1 U3, 4K (70Mbps)/HD (70Mbps/50Mbps): Class 10,<br>HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4   |
| VIDEO/AUDIO RECORDING<br>Video codec<br>File format<br>Audio recording<br>Protocol<br>LIVE VIDEO STREAMING   | SSD (Solid State Drive) Type M.2 SATA  | HD (35Mbps):Class 6, SD: Class 4, Web: Class 4, High-Speed: UHS-1 U3,<br>Exchange (U model)/MP4 (Emodel): Class 4  |
| Video codec<br>File format<br>Audio recording<br>Protocol<br>Resolution and bit rate   |  | With KA MC100G (optional)  |
| Video codec<br>File format<br>Audio recording<br>Protocol<br>Resolution and bit rate   | ProRes 422, MPEG-4 AVC/H.264, MPEG-2 [   | With KA-We lood (optional)   |
| Audio recording<br>Protocol<br>LIVE VIDEO STREAMING Resolution and bit rate  |  | [GY-HC550]   |
| Protocol Protocol Resolution and bit rate  | QuickTime, MP4, MXF [GY-HC550]   |  |
| LIVE VIDEO STREAMING   | LPCM 2ch, 48kHz/24-bit/16-bit , µ-Law 2ch  | (Web), AAC 2ch (Exchange/MP4), Detail information is shown in Recording Formats chart below.   |
| LIVE VIDEO STREAMING   | MPEG2-TS/UDP, MPEG2-TS/TCP, MPEG2-T  | FS/RTP, RTSP, Zixi, SRT, RTMP, RTMPS, Facebook Live (RTMPS), YouTube Live (RTMP)   |
| LIVE VIDEO STREAMING   | >> Refer to "Streaming Format Availability   | r" chart on page 3 for details.  |
| Return over IP   | RTSP/RTP, Zixi [GY-HC550], Icecast (Audio)   |  |
| Audio  | AAC 2ch 128Kbps (1.5Mbps over), 64Kbps   | s (0.8Mbps under)  |
| Video/Audio output   | 3G-SDI output (BNC x 1) (up to 1920 x 1080   | 0 60p 4:2:2 10-bit), HDMI output x 1 (up to 3840 x 2160 60p 4:2:2 10-bit)  |
| Audio input  | XLR x 2 (MIC, +48V/LINE), ø3.5mm mini jac  | :k x 1   |
| Headphone  | ø3.5mm mini jack x 1   |  |
| Remote   | ø2.5mm mini jack x 1   |  |
| INTERFACES Time code input/output  | RCA x 1  |  |
| USB  | HOST x 1 (network connection, USB 2.0)   |  |
| Ethernet   | RJ-45 x 1  |  |
| Extended slot  | KA-EN200, KA-MC100G, and for future ex   | pansion purposes   |
| Wireless LAN IGY-HC55  | 0] Built-in (2.4GHz/5GHz) MIMO with dual ex  |  |
| PROVIDED ACCESSORIES Battery (BN-VC296) x 1,   |  |  |

### Various Codecs and Recording Formats

| System         | Video format                       | Resolution                |                      | Frame rate                      |               | Bit rate                  | Audio                      | Rec time (min.)      |                |
|----------------|------------------------------------|---------------------------|----------------------|---------------------------------|---------------|---------------------------|----------------------------|----------------------|----------------|
|                | ProRes 422 HQ                      |                           |                      |                                 |               | 1768/1475/884/737/707Mbps |                            | 67/80/134/161/167    |                |
| ĺ              | ProRes 422                         | 3840 x 2160               | 59.94p/              | 50p/29.97p/25p/23.98p           | 4:2:2 10-bit  | 1178/983/589/492/471Mbps  | LPCM 2ch 48kHz/24bit       | 101/121/201/240/251  | 1TB SSI        |
|                | ProRes 422 LT                      | 1                         |                      |                                 |               | 821/684/410/342/328Mbps   |                            | 144/173/288/345/359  | 1              |
| 4K UHD         |                                    |                           |                      |                                 | 4:2:2 10-bit  | 150Mbps                   | LPCM 2ch 48kHz/24bit       | 50                   |                |
|                | QuickTime<br>(MPEG-4.AVC/H.264)    | 3840 x 2160               | 29                   | 9.97p/25p/23.98p                | 4:2:0 8-bit   | 150Mbps                   | LPCM 2ch 48kHz/16bit       | 50                   | 64GB<br>SD Car |
|                | (1111 EG-4.2007) 11.204)           |                           |                      |                                 | 4:2:0 0-DIt   | 70Mbps                    | LPCIVI ZCH 40KHZ/ IODIE    | 106                  |                |
|                | ProRes 422 HQ                      | 1920 x 1080               | E0.04 m/l            | 50p/29.97p/25p/23.98p           | 4:2:2 10-bit  | 440/367/220/184/176Mbps   | LPCM 2ch 48kHz/24bit       | 240/290/480/570/600  | - 1TB SS       |
| ĺ              | ProRes 422                         | 1720 X 1000               |                      | JUD/27.7/D/2JD/23.70D           | 4.2.2 10-DIL  | 293/245/147/122/117Mbps   | LF CIVI ZCIT 40KHZ/Z4DIL   | 360/430/710/850/890  | 7116 331       |
| [              |                                    | 1920 x 1080               |                      | 59.94p/50p                      |               | 70Mbps (422 XHQ)          |                            | 105                  |                |
|                |                                    | 1720 X 1000               | 59.94p/59.94i        | /50p/50i/29.97p/25p/23.98p      | 4:2:2 10-bit  | 50Mb                      | LPCM 2ch 48kHz/24bit       | 145                  | 7              |
|                | QuickTime                          | 1280 x 720                |                      | 59.94p/50p                      |               | 50Mbps (422 XHQ)          |                            | 145                  |                |
|                | (MPEG-4.AVC/H.264)                 | 10201020                  | 59.94p/59.94i        | /50p/50i/29.97p/25p/23.98p      |               | 50Mbps (XHQ)              |                            | 147                  | 7              |
| HD             |                                    | 1920 x 1080               | 59.94i/              | 50i/29.97p/25p/23.98p           | 4:2:0 8-bit   | 25Mb (11110)              | LPCM 2ch 48kHz/16bit       | 207                  | 7              |
| HD             |                                    | 1280 x 720                |                      | 59.94p/50p                      | ]             | 35Mbps (UHQ)              |                            | 207                  |                |
|                |                                    | 1920 x 1080               | 59.9                 | 94i/50i/29.97p/25p              |               |                           |                            |                      | 7              |
|                | QuickTime/MXF<br>(MPEG-2 Long GOP) | 1440 x 1080               |                      | 59.94i/50i                      | 4:2:0 8-bit   | 35Mbps (HQ)               | LPCM 2ch 48kHz/16bit       | 206                  |                |
|                | (WIPEG-2 Long GOP)<br>[GY-HC550]   | 1280 x 720                |                      | 59.94p/50p                      | 4:2:0 0-DIt   |                           | LPCIVI ZCH 40KHZ/ IODIT    |                      |                |
|                |                                    | 1440 x 1080               |                      | 59.94i/50i                      | ] [           | 25Mbps (SP)               |                            | 283                  | 7              |
| ĺ              | Exchange (U model)                 | 1920 x 1080               | E004p /ll mode       | l only) / 50p (E/EC model only) | 4:2:0 8-bit   | 12Mbps (LP)               | AAC 2ch 48kHz/16bit        | 580                  | 7              |
|                | MP4 (E/EC model)                   | 1280 x 720                | 37.74p (0 mode       | i oniy) / Jop (E/EC model oniy) | 4.2.0 0-01    | 8Mbps (LP)                | AAC 2011 40KH2/ 10DIL      | 794                  | 7              |
| SD             | QuickTime                          | 720 x 480<br>(U model)    |                      | 59.94i                          | - 4:2:0 8-bit | 8Mbps (HQ)                | LPCM 2ch 48kHz/16bit       | 785                  | ]              |
| 30             | (MPEG-4.AVC/H.264)                 | 720 x 576<br>(E/EC model) |                      | 50i                             | 4.2.0 0-01    | amphs (HQ)                | EF CIVI 2CH 40KH2/ IODIL   | 765                  | 64GE<br>SD car |
|                |                                    | 1280 x 720                |                      | 60p/50p                         |               | 6Mbps (LP)                |                            | 1040                 |                |
|                | 0.117                              | 720 x 480                 |                      | 59.94i                          |               | 8Mbps (HQ)                |                            | 760                  | 7              |
| WEB<br>(Proxy) | QuickTime<br>(MPEG-4.AVC/H.264)    | 720 x 576                 |                      | 50i                             | 4:2:0 8-bit   | aivibps (FIQ)             | µ-law 2ch 16kHz            | 700                  |                |
| (1.10,1,1,1)   | (                                  | 960 x 540                 | 29                   | 9.97p/25p/23.98p                | ] [           | 3Mbps (HQ)                |                            | 2160                 |                |
|                |                                    | 480 x 270                 | 29                   | 9.97p/25p/23.98p                |               | 1.2Mbps (LP)              |                            | 4720                 |                |
|                |                                    |                           | 120fps               | 59.94p                          |               | 70Mbps (XHQ422)           |                            |                      |                |
|                |                                    |                           | 100fps               | 50p                             | 4:2:2 10-bit  | 70MDP3 (XI 102422)        | LPCM 2ch 48kHz/24bit       |                      |                |
|                |                                    |                           | 120fps               | 59.94p/29.97p/23.98p            | 4.2.2 10-Dit  | 50Mbps (XHQ422)           | EI GIVI ZCIT 40KT 12/24DIL |                      |                |
| High-          | QuickTime                          | 1920 x 1080               | 100fps               | 50p/25p                         |               | 30MDP3 (XI 102422)        |                            | (Deffers by setting) |                |
| Speed          | (MPEG-4.AVC/H.264)                 | 1720 × 1080               | 120fps               | 59.94p/29.97p/23.98p            |               | 50Mbps (XHQ)              |                            | (Deners by serung)   |                |
|                |                                    |                           | 100fps 50p/25p       |                                 | 4:2:0 8-bit   |                           | LPCM 2ch 48kHz/16bit       |                      |                |
|                |                                    |                           | 120fps 29.97p/23.98p | 29.97p/23.98p                   | 4.2.00-01     | 35Mbps (UHQ)              | Er Givi Zen 40kniz/1001t   |                      |                |
|                |                                    |                           | 100fps               |                                 |               | (UPU) aquivice            |                            |                      |                |

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JVC Professional Video website



Europe eu.jvc.com/pro

# 





pro.jvc.com

4K Memory Card Camera Recorder

# GY-HC550 GY-HC500



• Encodes HDR video with HLG or J-LOG Gamma LUTs. • Supports UDP, Zixi and SRT streaming protocols.

\* Approved SSD media should be used. Refer to the JVC website for detailed information.

transfer of huge amounts of recorded footage is also available.

#### 4K UHD/HD 60p/50p ProRes 422 10-bit Recording ProRes

By using the SSD media, ProRes 422 recording becomes possible for attention-grabbing 4K/HD 60p/50p image creation. ProRes 422 offers virtually lossless intra-frame compression, which speeds up post-production. Footage is recorded in native file formats that are understood by most major editing applications without transcoding. This is helpful for efficient workflow of editing and post process. The 4:2:2 format also provides richer color information and 10-bit recording delivers rich gradations—a definite advantage for grading work after recording.

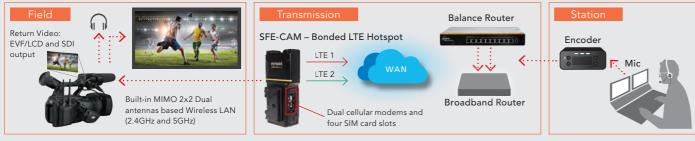
# Backup Recording to SSD

Backup recording to record ordinary Rec Start/Stop-controlled footage in the SD Card of slot A while recording all data on the SSD even when slot A is paused.

# ■ IFB and Return Video over IP (RTSP/RTP, Zixi [GY-HC550], Icecast (Audio))

The GY-HC550/HC500 features built-in IFB and Return Video decoders capable of receiving the H.264 stream over the Internet via RTSP "Pull" protocol (Return Video) and Icecast streams for the IFB. The camera can receive either IFB or Return Video, not both simultaneously. Return Video is displayed in the viewfinder and LCD and output via SDI when the pre-assigned button "Return Video" is pressed once. The second

press would return the LCD/EVF/SDI to the live video output. The HDMI output does not switch to Return Video and outputs live video all the time.

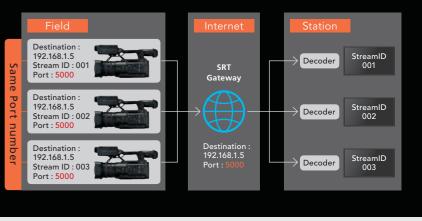


SFE-CAM is a bonded cellular hotspot that connects interactively to multiple GY-HC550/HC500 camcorders and features Peplink's patented SpeedFusion<sup>TM</sup> technology. SFE-CAM bonds multiple cellular and wireless LAN connections enabling the user to send digital video at greater speeds than you could with a single modem. Provided with dual cellular modems with redundant SIM slots and dual band Wireless LAN, you can use up to four different providers for bandwidth bonding

# SRT Stream ID for Added Security

guality of video streaming.

Stream ID protects a video channel from unauthorized access. The SRT decoder only accepts streams with embedded, encoder-specified Stream IDs and all other streams are ignored. To receive multiple streams differentiated by unique Stream IDs, only a single port is necessary so that the additional security is assured when delivering video over public networks.



### GY-HC550 ■ Broadcast Info Overlay on HD Video and Streaming "LIVE" mark Watermark (Pre-installed (Imported . movable or imported) TEXT 1 Logo (Imported) Program

TEXT 2: News title, Reporter name, etc. Time Temperature, etc.

Real-time broadcast information overlays are available for HD recorded video or streamed video without an external CG or production switcher.

• This feature is not available in 4K or SD mode

name, etc.

 Overlay designs can be created in various language characters using JVC's SDP Generator (free software).

Versatile Network-related Functi

SRT (Secure Reliable Transport) is a video transport protocol that optimizes video streaming performance even under unstable networks. With ARQ and FEC support, SRT brings together encryption, packet loss recovery, and jitter prevention to preserve the integrity and

# IP Remote Control with Viewina

Various camera operations can be controlled via wireless/wired LAN from a smartphone, tablet and PC.

Auto/Progressive FTP

During shooting, recorded video clips are automatically uploaded to the server.



## ■ NTP (Network Time Protocol)

The combination of GY-HC550/HC500 and KM-IP6000/IP4100 provides an affordable multi-camera live production solution with Network Time Protocol. Suitable for compact live production and streaming studios to deliver live events such as concerts, sports, ceremonies, and conferences.

■ VITC (Vertical Interval Time Code) Can use the industry-standard TC, compatible with Haivision, VITEC, and other decoders

Built-in GPS GY-HC550 Enables location information

to be recorded or streamed as metadata



3







# Go Live Streaming on the Social Network!

The GY-HC550/HC500 offers the "Easy Setup" funciton for YouTube Live and Facebook Live via simple step-by-step menu operations. e compa

# Easy Setup for YouTube Live

You can select scheduled or immediate streaming (Schedule On/ Off setting) for YouTube Live.

# Easy Setup for Facebook Live

Just follow the camcorder's menu settings and you can easily get ready to stream over the Facebook Live.

RTMPS Support (Real Time Message Protocol over Secure Sockets Layer)

Facebook Live requires all encoders to use the RTMPS protocol. Count on the GY-HC550/HC500 that supports

more resolution and bitrate formats of the RTMPS protocol

JVC is a member of "Facebook Live Solution Partners" https://www.facebook.com/formedia/solutions/facebo

# Vertical and Square Streaming for the Social Network

Vertical or square angle of view can be selected for streaming to the applicable social network services.



Vhite guidelines will appear on the CD and viewfinder

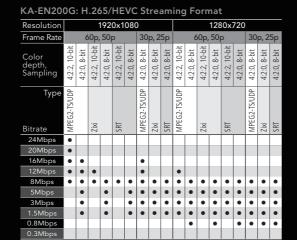


# **Streaming Format Availability**

Conditions: [1] Record Format:H.264, [2] without overlay and timestamp, [3] without KA-EN200G

| Resolution      |              |              |              |      | 1920x1080    |               |              |       |       |                       |                     |              |              |              | 6<br>1( | 06»<br>)80 | (10<br>x1 | 80,<br>080 | 0 1280x720 |              |              |              |      |      |      |    |     |       |                       |                     |      |       |                       |                              |    |   |              |              |      |      |     |      |       |                       |                     |              |              |              |           |                  |      |     |      |       |                       |                     |
|-----------------|--------------|--------------|--------------|------|--------------|---------------|--------------|-------|-------|-----------------------|---------------------|--------------|--------------|--------------|---------|------------|-----------|------------|------------|--------------|--------------|--------------|------|------|------|----|-----|-------|-----------------------|---------------------|------|-------|-----------------------|------------------------------|----|---|--------------|--------------|------|------|-----|------|-------|-----------------------|---------------------|--------------|--------------|--------------|-----------|------------------|------|-----|------|-------|-----------------------|---------------------|
| Frame Rate      |              |              | (Not a       |      | 60<br>able i |               |              | recol | rding | )                     |                     |              |              | 6            | Di, S   | 50i        |           |            |            |              |              |              |      | 30 p | o, 2 | 5p |     |       |                       |                     | (N   | ot av | ailal                 | Dp,<br>5p<br>ble in<br>rding |    |   |              |              | 6    | 0p,  | 50  | р    |       |                       |                     |              |              |              |           | 30               | p, 2 | 25p | þ    |       |                       |                     |
| Type<br>Bitrate | MPEG2-TS/UDP | MPEG2-TS/TCP | MPEG2-TS/RTP | RTSP | Zixi         | SRT (FEC Off) | SRT (FEC On) | RTMP  | RTMPS | Facebook Live (RTMPS) | YouTube Live (RTMP) | MPEG2-TS/UDP | MPEG2-TS/TCP | MPEG2-TS/RTP | RTSP    | Zixi       | CBT       | UNC DAATO  | KIMF       | MPEG2-TS/UDP | MPEG2-TS/TCP | MPEG2-TS/RTP | RTSP | Zixi | CDT  |    |     | RTMPS | Facebook Live (RTMPS) | YouTube Live (RTMP) | RTMP | RTMPS | Facebook Live (RTMPS) | YouTibe Live (RTMP)          |    |   | MPEG2-15/1CP | MPEG2-TS/RTP | RTSP | Zixi | SRT | RTMP | RTMPS | Facebook Live (RTMPS) | YouTube Live (RTMP) | MPEG2-TS/UDP | MPEG2-TS/TCP | MPFG2-TS/RTP | DTCD DTCD | TC IVI<br>TC IVI | 1X17 | SRT | RTMP | RTMPS | Facebook Live (RTMPS) | YouTube Live (RTMP) |
| 24Mbps          | ٠            |              |              |      |              |               |              |       |       |                       |                     |              |              |              |         |            |           |            |            |              |              |              |      |      |      |    |     |       |                       |                     |      |       |                       |                              |    |   |              |              |      |      |     |      |       |                       |                     |              |              |              |           |                  |      |     |      |       |                       |                     |
| 20Mbps          | •            | •            |              |      |              |               |              |       |       |                       |                     | •            |              |              |         |            |           |            |            | •            |              |              |      |      |      |    |     |       |                       |                     |      |       |                       |                              |    |   |              |              |      |      |     |      |       |                       |                     |              |              |              |           |                  |      |     |      |       |                       |                     |
| 16Mbps          | •            | ٠            | ٠            |      |              |               |              |       |       |                       |                     | •            | •            | •            |         |            |           |            |            | •            | ٠            | ٠            |      |      |      |    |     |       |                       |                     |      |       |                       |                              | •  |   | •            | •            |      |      |     |      |       |                       |                     |              | Т            | Т            | Т         |                  |      |     |      |       |                       |                     |
| 12Mbps          | •            | •            | •            | ٠    | •            | ٠             |              | ٠     | •     | •                     |                     | •            | •            | •            |         |            |           |            |            | •            | ٠            | ٠            |      |      |      |    |     |       |                       |                     |      |       |                       |                              |    |   | •            | •            |      |      |     |      |       |                       |                     |              |              |              |           |                  |      |     |      |       |                       |                     |
| 8Mbps           | ٠            | ٠            | ٠            | ٠    | ٠            | ٠             | ٠            | ٠     | •     | ٠                     | ٠                   | •            | •            | •            | •       | •          |           |            | •          | •            | ٠            | ٠            | •    | •    |      |    | • [ | •     | •                     |                     | ٠    | •     |                       | -                            | 14 | • | •            | •            | •    | ٠    | ٠   | ٠    | ٠     | •                     |                     | •            |              | •            |           | a (              | •    | •   | •    | •     | T                     |                     |
| 5Mbps           |              |              |              |      |              |               |              |       |       |                       | •                   | •            | •            | •            | •       |            |           |            | •          | •            | •            | •            | •    |      |      |    |     | •     | •                     | •                   | •    | •     |                       |                              |    |   | •            | •            | •    | •    | ٠   | ٠    | •     | •                     | •                   | •            |              |              |           |                  |      | •   | •    | •     |                       |                     |
| 3Mbps           |              |              |              |      |              |               |              |       |       |                       |                     | •            | ٠            | •            | •       | •          |           |            | •          | •            | ٠            | ٠            | •    | •    |      |    | •T  | •     | •                     | ٠                   | ٠    | •     | •                     | •                            |    | • | •            | •            | •    | ٠    | ٠   | ٠    | ٠     | ٠                     | •                   | •            | •            | •            | •         |                  | •    | •   | •    | •     | •                     | •                   |
| 1.5Mbps         |              |              |              |      |              |               |              |       |       |                       |                     |              |              |              |         |            |           |            |            |              |              |              |      |      |      |    |     |       |                       |                     |      |       |                       |                              |    |   |              |              |      |      |     |      |       |                       |                     | •            |              |              |           |                  |      | •   | •    | •     | •                     | •                   |
| 0.8Mbps         |              |              |              |      |              |               |              |       |       |                       |                     |              |              |              |         |            | Γ         |            | T          |              |              |              |      |      | Т    |    | Т   |       |                       |                     |      |       | Г                     |                              | Т  |   | Т            |              |      |      |     |      |       |                       |                     |              | T            | T            | Т         | T                | T    |     |      | T     | T                     |                     |
| 0.3Mbps         |              |              |              |      |              |               |              |       |       |                       |                     |              |              |              |         |            |           |            | 1          |              |              |              |      |      |      |    |     |       |                       |                     |      |       |                       |                              |    |   |              |              |      |      |     |      |       |                       |                     |              |              |              |           |                  |      |     |      |       |                       |                     |

| Resolution | 4                | 04×<br>20> | (72)<br>(72)          | ),<br>0     | 720x480 or 720x576 |              |              |      |      |     |      |              | 6 640x360    |              |      |      |     |                 |              | 640x360      |              |      |          |     |      |       |                     |             |  |  |  |
|------------|------------------|------------|-----------------------|-------------|--------------------|--------------|--------------|------|------|-----|------|--------------|--------------|--------------|------|------|-----|-----------------|--------------|--------------|--------------|------|----------|-----|------|-------|---------------------|-------------|--|--|--|
| Frame Rate | MPEG2 recording) |            |                       |             | 60i, 50i           |              |              |      |      |     |      | ailable in   |              |              |      |      |     | 60 <sub> </sub> | p, 5         | 0p           |              |      | 30p, 25p |     |      |       |                     |             |  |  |  |
| Туре       | RTMP             | RTMPS      | (MPS)                 | RTMP)       | 5/UDP              | S/TCP        | S/RTP        | RTSP | Zixi | SRT | RTMP | S/UDP        | S/TCP        | S/RTP        | RTSP | Zixi | SRT | RTMP            | S/UDP        | S/TCP        | S/RTP        | RTSP | Zixi     | SRT | RTMP | RTMPS | (RTMPS)             | Live (RTMP) |  |  |  |
|            |                  | 8          | ive (R <sup>7</sup>   | Live (RTMP) | MPEG2-TS/UDP       | MPEG2-TS/TCP | MPEG2-TS/RTP |      |      |     |      | MPEG2-TS/UDP | MPEG2-TS/TCP | MPEG2-TS/RTP |      |      |     |                 | MPEG2-TS/UDP | MPEG2-TS/TCP | MPEG2-TS/RTP |      |          |     |      | ~     | ive (R <sup>7</sup> | Live (F     |  |  |  |
| Bitrate    |                  |            | Facebook Live (RTMPS) | YouTube     | MPE                | MP           | MP           |      |      |     |      | MPE          | MP           | MP           |      |      |     |                 | MPE          | MP           | MP           |      |          |     |      |       | Facebook Live       | YouTube     |  |  |  |
| 24Mbps     |                  |            |                       |             |                    |              |              |      |      |     |      |              |              |              |      |      |     |                 |              |              |              |      |          |     |      |       |                     |             |  |  |  |
| 20Mbps     |                  |            |                       |             |                    |              |              |      |      |     |      |              |              |              |      |      |     |                 |              |              |              |      |          |     |      |       |                     |             |  |  |  |
| 16Mbps     |                  |            |                       |             |                    |              |              |      |      |     |      |              |              |              |      |      |     |                 |              |              |              |      |          |     |      |       |                     |             |  |  |  |
| 12Mbps     |                  |            |                       |             |                    |              |              |      |      |     |      |              |              |              |      |      |     |                 |              |              |              |      |          |     |      |       |                     |             |  |  |  |
| 8Mbps      |                  |            |                       |             | ٠                  | ٠            | ٠            | ٠    |      |     |      |              |              |              |      |      |     |                 |              |              |              |      |          |     |      |       |                     |             |  |  |  |
| 5Mbps      | •                | ٠          | •                     |             | ٠                  | ٠            | •            | ٠    | ٠    | •   | ٠    |              |              |              |      |      |     |                 |              |              |              |      |          |     |      |       |                     |             |  |  |  |
| 3Mbps      | ٠                | ٠          | •                     | ٠           | ٠                  | ٠            | ٠            | ٠    | ٠    | •   | ٠    | ٠            | •            | ٠            | •    | ٠    | ٠   | ٠               | ٠            | •            | ٠            | ٠    | ٠        | •   | •    | •     | ٠                   | ٠           |  |  |  |
| 1.5Mbps    | ٠                | ٠          | ٠                     | •           | ٠                  | ٠            | ٠            | ٠    | ٠    | •   | ٠    | ٠            | •            | •            | •    | ٠    | ٠   | ٠               | ٠            | •            | •            | ٠    | ٠        | •   | •    | •     | ٠                   | ٠           |  |  |  |
| 0.8Mbps    |                  |            |                       |             | ٠                  | ٠            | ٠            | ٠    | ٠    | •   | ٠    |              |              |              |      |      |     |                 | ٠            | •            | ٠            | ٠    | ٠        | •   | •    | •     | ٠                   | ٠           |  |  |  |
| 0.3Mbps    |                  |            |                       |             | ٠                  | ٠            | •            | •    | ٠    | ٠   | ٠    |              |              |              |      |      |     |                 | ٠            | •            | •            | ٠    | ٠        | •   | ٠    | •     | •                   |             |  |  |  |



Attention: Zixi is not available with GY-HC500. For GY-HC550, Zixi and SRT protocols do not co-exist as it requires exclusive firmware to install. Choose either protocol to use when installing initiall



20×

Zoom Lens

# 1" CMOS 4K Image Sensor

The GY-HC550/HC500 features a 1-inch CMOS 4K image sensor for uncompromised image quality. This large sensor delivers a superior dynamic range, high S/N ratio and high sensitivity (F11 at 2000lx). Details are crisp and accurate throughout the entire image plane.

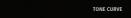
# 20x Optical/40x Dynamic Zoom Lens with Manual Functions

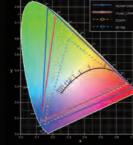
A wide angle 20x optical zoom lens for flexible magnification. When shooting in HD mode, Dynamic Zoom combines optical zoom and pixel mapping from a 4K image sensor to create seamless and lossless 40x zoom. An optical image stabilizer and chromatic aberration correction are also available.

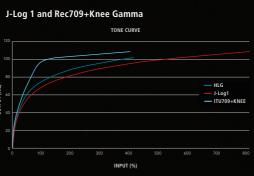




# HLG & J-Log 1 Color Gamut







# [HLG Workflow]

GY-HC550/HC500 supports HLG recording which enables simple HDR workflow without color grading. Avoiding clipped highlights or shadows, images are more realistic and vibrant. BT.2020 which offers wider color gamut is also supported.

# High-Speed Recording for **1080p Slow Motion Playback**

# Extremely Practical Auto Focus and Assist Functions

The Auto Focus and Focus Assist functions provide the highly accurate, stable focusing that is essential for 4K shooting. Moreover, its broad customizability enables it to perform in a variety of shooting situations.

Robust Body and Excellent in Weather Resistance

Auto Color Matrix Adjustment



Switchable IR Shooting

**Remote Zoom Ease** 

under LED Light

"Remote Zoom Ease" provides zoom operation sensitivity on the wired remote, similar to the zoom lever on the camcorder handle.



Original image at wide end



The GY-HC550/HC500 is equipped with an HDR compatible HLG (Hybrid Log Gamma) mode and JVC's proprietary J-Log 1 Gamma mode. These enable high dynamic range capture of a broad color spectrum with 10-bit recording for better color grading and to avoid banding. Footage recorded in HLG mode will deliver a full HDR image when viewed on HLGcompatible monitors. The J-Log 1 mode delivers wide latitude and a high dynamic range of 800%. In the field, it's possible to record while checking the image on the camera's LCD screen or viewfinder to get a grasp of the final output.

High-speed recording (1920x1080) at up to 120fps (59.94Hz)/100fps (50Hz) is available for smooth slow motion playback (up to 1/5 slow at 24p mode). It helps create artistic effects and lets you watch replays to examine sporting skills.





When the face turns away and face detection fails, focus comes into the subject in the background



When face dete focusing automatically switch to MF while maintaining the focus on the position of the face

Designed to work in harsh environments, its weather-resistant robust body enables image gathering in the field with confidence.

IR filter can be switched disabled (Infrared ON) to increase infrared sensitivity for shooting in extremely low illuminance. The IR shooting function can be assigned to the "USER" button.

Auto Color Matrix Adjustment reproduces natural images when shooting under LED lighting in Full Auto mode.



# **CONNECTED CAM STUDIO**

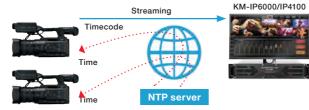
## LIVE STREAMING PRODUCTION SUITE

KM-IP6000/IP4100 Series is the centerpiece of a complete IP workflow for news, sports, worship and education. This selfcontained control room features a production switcher that offers instant-replays and slow motion with an intuitive touchscreen operation.



## KM-IP6000 (6-input) / KM-IP4100 (4-input)

- HD-SDI input, IP stream input, NDI input (x6 for KM-IP6000, x4 for KM-IP4100)
- Integrated JVC camcorder remote control
- Up to 1920x1080 30p/25p or 1280x720 60p/50p streaming @ 10Mbps max
- RTMP & MPEG-TS simultaneous output
- Internal character generator with templates
- 4 layers of DSK CG/images/animations with transparency
- Replay and Slow Motion
- Return over IP
- SRT Compatible
- Multi-Camera Synchronization
- Equipped with multi-camera synchronization, Network Time Protocol synchronized encoders.



Zero Config Capability

Provides automatic detection of JVC camcorders within the same LAN group, and simple setting up of connections with the KM-IP6000/KM-IP4100.



#### IP REMOTE CONTROL PANEL RM-LP250S (Joystick version) / RM-LP250M (Encoder version)

RM-LP250S/LP250M is an IP based remote control panel for CONNECTED CAM models (GY-HC500 Series and GY-HC900 Series). It enables versatile control of iris functions and other camera settings with ethernet connection (RJ-45).

RM-LP250S: Can control a single camera RM-LP250M: Can control up to 3 cameras

RM-LP250M

# **Basic System Configurations**



| Item | Model               | Description                     | Qty |
|------|---------------------|---------------------------------|-----|
| 1    | RM-LP250M (Encoder) | IP Remote Control Panel         | 1   |
| 2    | GY-HC500            | 4K Memory Card Camera Recorder  | 3   |
| 3    | KM-IP4100           | LIVE STREAMING PRODUCTION SUITE | 1   |
| 4    | Monitor             | (for use with KM-IP4100)        | 1   |

| ltem | Model               | Description                                | Qty |
|------|---------------------|--|-----|
| 5    | Monitor             |  | 1   |
| 6    | Microphone          |  | 1   |
| 7    | Cantral             | LAN Cable                                  | 6   |
| 8    | Control             | HUB (PoE+ for RM-LP250M)                   | 1   |
| 9    | Internet Connection | Broadband Router (to connect the Internet) |     |



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\* Select either one at initial firmware installation