|  |  | AV-HS450 | AV-HS410 | AW-HS50 | AG-HMX100 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Specifications |  |  |  |  |  |
| Powe |  |  | ${ }^{\text {AC }} 100 \mathrm{~V}$ to $240 \mathrm{~V}, 50 \mathrm{~Hz} / 6 \mathrm{~Hz} 288 \mathrm{~W}$ | ${ }^{\text {OC }} 12 \mathrm{~V} \pm 10 \%$ (AC adapter provided), 2.0 A | AC 100 V to 200V, 5 O Hz/60 Hz, 60 W |
| $\begin{array}{\|l\|} \hline \text { Operating Temperature } \\ \hline \text { Operating Humidity } \\ \hline \end{array}$ |  | $0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left(32^{2} \mathrm{~F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$ | $0^{\circ} \mathrm{Cto4040} 0^{\circ}\left(32^{\circ} \mathrm{Fto} 00^{\circ} \mathrm{F}\right)$ | ${ }^{10 \%}$ to $000 \%$ \% (ro condensanation) | $5^{\circ} \mathrm{C}$ ( $400^{\circ}\left(141^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right)$ |
|  |  | $10 \%$ to 90\% (no condensation) | 10 \% 10909 \% (no condensation) |  | 10 \% $2080 \%$ (noc condensation) |
| Dimensions ( $\mathrm{W} \times \mathrm{H} \times \mathrm{O}$ ) |  |  | $440 \mathrm{~mm} \times 158 \mathrm{~mm} \times 361 \mathrm{~mm}$ <br> (17-5/16 inches $\times$ 6-7/32 inches $\times 14-7 / 32$ inches) (excluding protrusions) | $210 \mathrm{~mm} \times 67 \mathrm{~mm} \times 177 \mathrm{~mm}$ <br> (8-1/4 inches $x 2-5 / 8$ inches $x$ 6-15/16 inches) (excluding protrusions) | ${ }_{\text {a }}^{\text {a }}$ |
| Weight |  |  | Approx. $6.2 \mathrm{~kg}(13.669 \mathrm{lb})$ (without options/excluding accessories) Approx. 6.6 kg ( 14.550 lb ) e (with full options/excluding accessories) | Approx $1.4 \mathrm{~kg} \mathrm{(3.11)} \mathrm{( }$ (without options) | Approx. 7.9 kg (17.41bs) (without options) |
| Video Format |  |  |  | HD: $1080 / 59.94 \mathrm{i}, 1080 / 50 \mathrm{i}, 1080 / 24 \mathrm{PsF}, 1080 / 23.98$ PsF, $720 / 59.94 \mathrm{p}, 720 / 50 \mathrm{p}$ <br> SD: $480 / 59.94 \mathrm{i}, 576 / 50 \mathrm{i}$ |  |
| Wdeo Procesing |  |  |  |  |  |
|  |  | 1 ME | 1 INE | 1ME |  |
| Video Inputs |  |  |  |  |  |
| Video Output ${ }^{\text {a }}$ |  |  |  |  | 4 lines, BNC x 4 (PGM/PVW/AUX/MULTIVIEW $x$ each) <br> HD (SMPTE292M/296M/299M) /SD (SMPTE259M-C/272M-A, ITU-R. BT.656-4) standard TMDS single link (not compatible with HDCP) |
| Reference InputOutput |  | Mainfram <br> GENLOCK mode: Black burst or Tri-level Sync input signals (with loop-through) Same sield freque. Black burst output signals x 2 <br> of the system formats supported <br> With the 1080/23.98PsF, 1080/24PsF format, only GENLOCK mode supported (SMPTE318M stand <br> (SMPTE318M standard met) or TRI signals supported | GENLOCK mode: Black burst or Tri-level Sync input signals (with loop-through) Black burst output signals $\times 2$ Same field frequencies as those of the system formats supported With the 1080/24PsF format, only GENLOCK mode supported. (SMPTE318M standard met) or TRI signals supported. | - | External reference ( $(G / L)$ input: Advanced reference (ADV-REF) output: <br> BNC $\times 2$ (with loop-through), $1.0 \mathrm{~V}[\mathrm{p}-\mathrm{p}]$ ( $75 \Omega$ ), Analog composite (NTSC/PAL) BNC $\times 1,75 \Omega$, Analog composite Sync: $0.286 \mathrm{~V}[p-p]$ (NTSC) $/ 0.3 \mathrm{~V}[p-p]$ (PAL) Burst: $0.286 \mathrm{~V}[p-p](\mathrm{p}$ $3 V[p-p](P A L)$ |
| Audio InutOUutput |  | - | - | - |  |
| Inteface | PANELMANAFRAME | R445 $\times 1,100 \mathrm{Mbps}$ (to comect between the mainfame end the contol pane) | ${ }_{\text {Do.sub } 9 \text { Pin } \times 1, \text { PS } 422}$ | - |  |
|  | EDTOR |  |  |  |  |
|  | com |  | D-sub 9 pin $\times 1$, SS 422 | - <br> D-sub 15 pin $\times 1$, GPI INPUT $\times 5$ channels (photocoupler sensing) |  |
|  | Talul/g | Mainframe: D-sub 50 pin $\times 1$ (8 IN, 31 OUT and 1 ALARN OUT may be set) <br> Control Panel: D-sub 25 pin $\times 1$ (8 IN and 8 OUT may be set) | D-Su15 Sin $\times 2$ (IN8, OUT 19, ALARM OUT 1 ) | D-sub 15 pin $\times 1$, GPI INPUT $\times 5$ channels (photocoupler sensing), GPI OUTPUT $x 7$ channels (open collector output) |  |
|  | LAN |  | R44, 10 BASET/ITOBASETX | RA45, 10 ASEET/100 BASETX |  |
| Remonate | so Memor C Card | Supported by the control panel,Capacity: Maximum 32 GB (SDHC Memory Card compatible) <br> Still image file: Loading/saving, setup data: backup | Capacity: Maximum 32 GB (SDHC Memory Card compatible) Still image file/movie clip file/shot memory/event memory: Loading/saving, Sel | - | - |
| Standard Accessoies |  | CD-ROM (Operating instructions / Image transmission software), AC adapter (for control panel),Power cable (for mainframe and AC adapter), CAT5E cable (STP, straight cable, 10 m (32.8 feet) long) | CD-ROM (Operating instructions/DVI input level adjustment file), Power cable (2 m ( 6.6 feet) long) | CD.Rom (Operating instuctions Image tranmisision software), AC a dapter | CD.Rom (Operating instuctios) P Power code (3 core cable) |
| Function |  | Wipe $\times 12$, Squeere 11 , Slide $\times 8,30 \times 12,2 \mathrm{Ch}$ squeeze $44,2 \mathrm{ch}$ side $4,2 \mathrm{Ch} 30 \times 4$ |  |  |  |
| BKG0 | WipeloIv Patern |  | Wipe x 16 , Squeeze x 16 , Slide x $8,3 D \times 12$ Cut, Mix, Wipe (including DVE) | Wipe 13 |  |
|  | Transition Type | Cut, Mix, , Wipe (including DVE) |  | Cut, Mix, Wipe | Wipe (BASIC1+2) $\times 37$, Wipe (+MULTI) $\times 16$, Wipe (BLIND) $\times 23$, Wipe (MATRIX) $\times 7$ Squeeze (COMP+SINGLE) x 13, 2ch Squeeze (COMP+BOTH) x 8 , Slide $\times 8$ |
|  | Image | Cut, | (ut, Mix, Wipe (inculuding DVE) |  | Cut, Mix, Wipe (including DVE) Image effect: PGM/A, PST/B BUS Effect: Mosaic, Defocus, Mono, Time effects, Decay, Paint, Nega, Mirror |
| Kever | KeyType | Linear ke, LLuminance ever, Choma key, full key |  |  |  |
|  | Transition Type |  | $\begin{array}{\|l\|} \hline \text { Cut, Mix, Wipe (including DVE) } \\ \hline \text { Wipe x 16, Squeeze x 16, Slide x 8, 3D x } 12 \\ \hline \end{array}$ |  |  |
|  | Wipelolv Patern | Wipex 12 , Squereexe 11, Slide $\times 9,30 \times 12$ |  | Mix | wipex6 |
| DSK | Numberof feers |  | ${ }^{1}$ | - |  |
|  | Kel Type |  |  |  |  |
|  | Trassition Type | Linear rey, Luminance key |  | - | ${ }_{\text {Luminance ey }}$ |
| Pin P | Number of Pinp | 2 | ${ }_{2}^{\text {Mix }}$ |  | Mix |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| ${ }_{\text {In }}^{\text {Inutrion }}$ | Freeze |  |  |  |  |
|  | Up-Converer |  |  | Sol\|N3, 4 | ${ }_{\text {Evere } A \text { Ab bus }}$ |
|  | $\frac{\text { Color Corector }}{\text { Video Procesing }}$ | insto 16 |  | Sol\|| 1 to4 |  |
| ${ }_{\substack{\text { Ouput } \\ \text { function }}}$ | Mutivewer | 2 systems, Labels, Tally indication, Split-screen (the screen may be split into 4, 9, 10 and 16 sections)*6 | IN1 to $8^{* 5}$ <br> 1 system, Labels, Tally indication, Split-screen (9 Patterns: 4, 5a/5b, 6a/6b, 9, 10a/10b and 16 sections) | 1 system**10, Labels, Tally indication, Split-screen (8 Patterns: 4, 5a/5b, 6a/6b, 9 and $10 \mathrm{a} / 10 \mathrm{~b}$ sections) | 1 system <br> Labels, Tally indication, Split-screen (the screen split into 10a only |
|  | Other function | (the screen may be split into 4, 9, 10 and 16 sections)*6 OSD (PVW and several MULTI outputs), Phase adjustment, Chroma key sample marker, Down converter (SDI output board only) | and 16 sections) <br> Phase adjustment, Chroma key sample marker, Down converter (SDI output board only) |  | OSS (several MULTT outputs), WFM, Audiol evel meter, Embedded audio(SS), HDM) |
| Frame Memory |  | 4 channels (The data for the images stored in the frame memories can be retained even inside the unit.) |  |  |  |
|  |  | - <br> 2 systems: still images and movie clips (The data for the images stored in the frame memories can be retained even when the power is turned off by saving it in the flash memories can be retained even when the power is turn memory*9 area which is incorporated inside the unit.) <br> Shot memory, Event memory, Effect dissolve function | 1 systems: stillimages and movie cips |  |  |
| Video Memory <br> Memory function |  |  |  | PinP Preset, Effect dissolve function | Event memory (100 patems), Key learning (20 paterns) |
|  |  |  |  |  |  |

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