SPECIFICATIONS

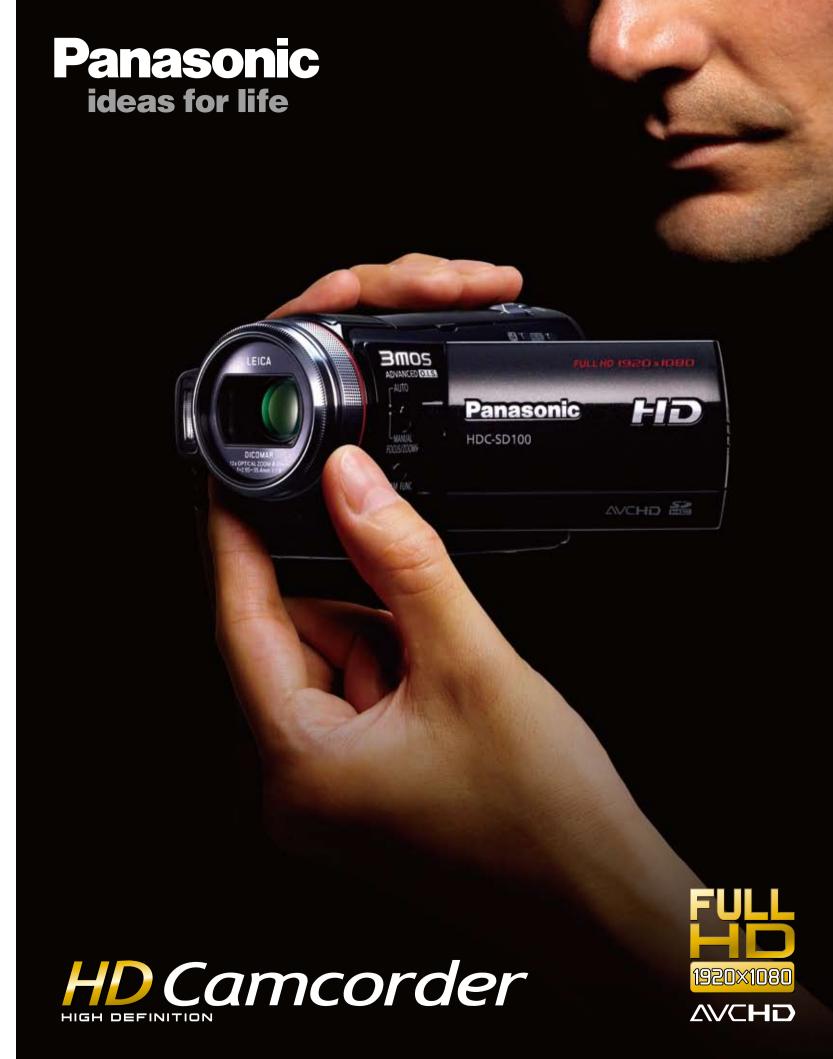
	HDC-SD100	HDC-HS100	HDC-SD9	HDC-HS9
GENERAL	DC7.2 V/9.3 V	DC7.2 V/9.3 V	DC7.2 V/9.3 V	DC7.2 V/9.3 V
Power Supply	5.7 W	6.7 W	5.8 W	6.8 W
Power Consumption	0.705 lb	0.7 W	0.606 lb	0.86 lb
Weight (w/o Battery) Dimensions (W x H x D)	2.56 x 2.835 x 5.433 inches	2.913 x 2.992 x 5.433 inches	2.56 x 2.638 x 4.96 inches	2.953 x 2.913 x 4.96 inches
Media	SD/SDHC Memory Card	HDD, SD/SDHC Memory Card	SD/SDHC Memory Card	HDD, SD/SDHC Memory Card
On-Screen Display Language	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish
MAGE SENSOR	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish
	1/6"MOS x 3	1/6"M0S x 3	1/6"CCD x 3	1/6"CCD x 3
Image Sensor Total pixels	610 k x 3	610 k x 3	560 k x 3	560 k x 3
Effective pixels	520 k x 3 [16:9] (Motion Image / Still Image)	520 k x 3 [16:9] (Motion Image / Still Image)	520 k x 3 [16:9] (Motion Image / Still Image)	520 k x 3 [16:9] (Motion Image / Still Image)
LENS SECTION	320 K X 3 (10.7) (Motion image / Stitt image)	320 K x 3 [10.7] (Motton image / Stitt image)	320 K x 3 [10.7] (Motion image)	320 k x 3 [10.7] (Motion image / Stite image)
Lens Brand	Leica Dicomar	Leica Dicomar	Leica Dicomar	Leica Dicomar
F Value	F1.8 (WIDE)/2.8 (TELE)	F1.8 (WIDE)/2.8 (TELE)	F1.8 (WIDE)/2.8 (TELE)	F1.8 (WIDE)/2.8 (TELE)
Optical Zoom	12x Variable Speed Zoom (Digital : 30x - 700x)	12x Variable Speed Zoom (Digital : 30x - 700x)	10x Variable Speed Zoom (Digital : 25x - 700x)	10x Variable Speed Zoom (Digital : 25x - 700x)
Focal Length	2.95—35.4 mm	2.95—35.4 mm	3.0—30.0 mm	3.0—30.0 mm
Filter Diameter	37 mm	37 mm	37 mm	37 mm
	1	1		1
35mm Film Camera Equivalent CAMERA SECTION	42.1—505 mm [16:9] (Motion Image / Still Picture)	42.1—505 mm [16:9] (Motion Image / Still Picture	e) 42.9—429 mm [16:9] (Motion Image / Still Picture	e) 42.9—429 mm [16:9] (Motion Image / Still Picture
Minimum Illumination	2 lx (1/30 Low Light Mode), 1 lx (Magic Pix® Mode)	2 lx (1/30 Low Light Mode), 1 lx (Magic Pix® Mode)	5 lx (1/30 Low Light Mode), 1 lx (Magic Pix® Mode)	5 lx (1/30 Low Light Mode), 1 lx (Magic Pix® Mode)
Image Stabilizer	Advanced 0.I.S.	Advanced 0.I.S.	Advanced 0.I.S.	Advanced 0.I.S.
Focus	AF/Manual	AF/Manual	AF/Manual	AF/Manual
White Balance	Auto/Indoor1/Indoor2/Sunny/Cloudy/White Set	Auto/Indoor1/Indoor2/Sunny/Cloudy/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set
Shutter Speed	Motion Image/ 60i : Auto Slow Shutter ON : 1/30—1/8000, OFF : 1 24p : Auto Slow Shutter ON : 1/24—1/8000, OFF : Still Picture/	1/48—1/8000	Motion Image/ 60i : Auto Slow Shutter ON :1/30—1/8000, OFF : 1 24p : Auto Slow Shutter ON : 1/24—1/8000, OFF : Still Picture/	1/48—1/8000
	60: Auto Slow Shutter ON : 1/30—1/8000, OFF : 24p : Auto Slow Shutter ON : 1/24—1/8000, OFF :	1/60—1/8000 (Progressive : 1/30—1/500) 1/48—1/8000 (Progressive : 1/24—1/500)	60i : Auto Slow Shutter ON : 1/30—1/8000, OFF : 24p : Auto Slow Shutter ON : 1/24—1/8000, OFF :	1/60—1/8000 (Progressive : 1/30—) 1/48—1/8000 (Progressive : 1/24—)
Iris	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
Backlight Compensation	Yes	Yes	Yes	Yes
Flash	1 m—2.5 m (approx.)	1 m—2.5 m (approx.)	1 m—2.5 m (approx.)	1 m—2.5 m (approx.)
MONITOR				
EVF	Yes	Yes	_	_
LCD	2.7" Wide LCD (approx. 300 k dots)	2.7" Wide LCD (approx. 300 k dots)	2.7" Wide LCD (approx. 300 k dots)	2.7" Wide LCD (approx. 300 k dots)
STILL PICTURE				
Card Slot	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC
Still Picture	JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixels	JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixel	s JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixel	JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixels
DPOF	Max.999 stills	Max.999 stills	Max.999 stills	Max.999 stills
PictBridge	Yes	Yes	Yes	Yes
RECORDING SECTION				
Format			AVCHD (Motion Image)	AVCHD (Motion Image)
i vi iidt	AVCHD (Motion Image)	AVCHD (Motion Image)	AVCHD (Motion image)	-
Recording Mode	AVCHD (Motion Image) HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	AVCHD (Motion Image) HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)
Recording Mode	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR),	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR),	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR),	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR),
Recording Mode	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR), HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR),	HA (17 Mbps / VBR), H6 (13 Mbps / VBR), H2 (9 Mbps / VBR), H6 (6 Mbps / VBR), H6 (13 Mbps / VBR), H6 (13 Mbps / VBR), H7 (19 Mbps / VBR),	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HZ (9 Mbps / VBR), HE (6 Mbps / VBR), HA (17 Mbps / VBR), HG (13 Mbps / VBR), HZ (9 Mbps / VBR), HZ (9 Mbps / VBR),	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR), HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR),
	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HK (9 Mbps / VBR), HE (6 Mbps / VBR), HE (6 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HK (9 Mbps / VBR), HE (6 Mbps / VBR)	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR), HA (17 Mbps / VBR), HG (13 Mbps / VBR), HK (9 Mbps / VBR), HE (6 Mbps / VBR),	HA (17 Mbps / VBR), H6 (13 Mbps / VBR), H7 (13 Mbps / VBR), H8 (14 Mbps / VBR), H8 (16 Mbps / VBR), H6 (13 Mbps / VBR), H6 (13 Mbps / VBR), HX (9 Mbps / VBR), HX (9 Mbps / VBR),	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR), HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HX (9 Mbps / VBR),
Recording Mode Playback Mode Audio Recording System	HA 117 Msps / VBR, H6 13 Msps / VBR, H8 19 Msps / VBR, H2 19 Msps / VBR, H4 117 Msps / VBR, H6 13 Msps / VBR, H7 19 Msps / VBR, H8 19 Msps / VBR, H8 10 Msps / VBR, Dotby Digital (Dotby AC3) / 5.1-channel	HA 117 Mbps / VBRI, H6 13 Mbps / VBRI, H8 19 Mbps / VBRI, H8 19 Mbps / VBRI, H6 14 Mbps / VBRI, H6 117 Mbps / VBRI, H7 H6 13 Mbps / VBRI, H8 19 Mbps / VBRI, Dolby Digital [Dolby AC3] / 5.1-channel	HA (17 Mbps / VBR) HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR), HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HE (6 Mbps / VBR), Dolby Digital (Dolby AC3) / 5.1-channel	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HX (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (18 Mbps / VBR) HG (18 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel
Recording Mode Playback Mode Audio Recording System Microphone	HA 117 Mpps / VBR, HG 13 Mbps / VBR, HG 13 Mbps / VBR, HE (9 Mbps / VBR) HE (8 Mbps / VBR) HA 117 Mpps / VBR, HG 13 Mbps / VBR, HG 14 Mbps / VBR, HG 14 Mbps / VBR, HG 15 Mbps / VBR, HG 16 Mbps / VBR, HG 16 Mbps / VBR, Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone	HA 117 Mbps / VBR, H6 13 Mbps / VBR, H8 (19 Mbps / VBR), H8 (19 Mbps / VBR), H6 (14 Mbps / VBR) HA (17 Mbps / VBR), H8 (13 Mbps / VBR), H8 (19 Mbps / VBR), H8 (19 Mbps / VBR), Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone	HA (17 Mbps / VBR). HG (18 Mbps / VBR). HG (18 Mbps / VBR). HE (6 Mbps / VBR). HE (6 Mbps / VBR). HA (17 Mbps / VBR). HG (18 Mbps / VBR). HG (18 Mbps / VBR). HE (6 Mbps / VBR). Dolby Digital (Dolby AC3) / 5.1-channel. Dolby Digital / 5.1ch, Zoom Microphone	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (18 Mbps / VBR) HG (18 Mbps / VBR) HG (18 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES	HA 117 Mpps / VBR, HG 13 Mbps / VBR, HG 13 Mbps / VBR, HE (9 Mbps / VBR) HE (8 Mbps / VBR) HA 117 Mpps / VBR, HG 13 Mbps / VBR, HG 14 Mbps / VBR, HG 14 Mbps / VBR, HG 15 Mbps / VBR, HG 16 Mbps / VBR, HG 16 Mbps / VBR, Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone	HA 117 Mbps / VBR, H6 13 Mbps / VBR, H8 (19 Mbps / VBR), H8 (19 Mbps / VBR), H6 (14 Mbps / VBR) HA (17 Mbps / VBR), H8 (13 Mbps / VBR), H8 (19 Mbps / VBR), H8 (19 Mbps / VBR), Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone	HA (17 Mbps / VBR). HG (18 Mbps / VBR). HG (18 Mbps / VBR). HE (6 Mbps / VBR). HE (6 Mbps / VBR). HA (17 Mbps / VBR). HG (18 Mbps / VBR). HG (18 Mbps / VBR). HE (6 Mbps / VBR). Dolby Digital (Dolby AC3) / 5.1-channel. Dolby Digital / 5.1ch, Zoom Microphone	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (18 Mbps / VBR) HG (18 Mbps / VBR) HG (18 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication	HA (17 Msps / VBR), HG (13 Mbps / VBR), HH (9 Mbps / VBR), HE (8 Mbps / VBR), HE (8 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HE (6 Mbps / VBR), HE (6 Mbps / VBR), Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone Yes	HA 117 Mbps / VBR H6 113 Mbps / VBR H7 18 Mbps / VBR H8 16 Mbps / VBR H8 16 Mbps / VBR H8 16 Mbps / VBR H9 113 Mbps / VBR H9 113 Mbps / VBR H9 113 Mbps / VBR H1 18 Mbps / VBR Dolty Digital (Dolty AC3) / 5.1-channel Dolty Digital / 5.1ch, Zoom Microphone Yes	HA (17 Mbps / VBR), HG (18 Mbps / VBR), HG (18 Mbps / VBR), HE (18 Mbps / VBR), HE (18 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HG (16 Mbps / VBR), HE (16 Mbps / VBR), Dolby Digital (10 Mbps / VSR), VBR) Dolby Digital (10 Mbps / VSR), Yes	HA (17 Mbps / VBR) HG (13 Mbps / VBR), HG (18 Mbps / VBR), HG (16 Mbps / VBR), HG (16 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (16 Mbps / VBR), HG (16 Mbps / VBR) Dolby Digital (10 Dolby AC3) / 5.1-channel Dolby Digital (10 Dolby AC3) / 5.1-channel
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI	HA (17 Mbps / VBR), HO (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR), HE (6 Mbps / VBR), HO (13 Mbps / VBR), HO (13 Mbps / VBR), HE (16 Mbps / VBR), HE (6 Mbps / VBR), HE (6 Mbps / VBR) Dotby Digital (Dotby AC3) / 5.1-channel Dotby Digital (7.5.1ch, Zoom Microphone Yes Out	HA (17 Mbps / VBR), HB (13 Mbps / VBR), HB (13 Mbps / VBR), HE (6 Mbps / VBR), HB (17 Mbps / VBR), HB (13 Mbps / VBR), HB (13 Mbps / VBR), HB (13 Mbps / VBR), HE (6 Mbps / VBR), Dolty Digital (Dolby AC3) / 5.1-channel Dolty Digital / 5.1ch, Zoom Microphone Yes	HA (17 Mbps / VBR), H6 (13 Mbps / VBR), H7 Mbps / VBR), H8 (6 Mbps / VBR), H8 (6 Mbps / VBR), H9 (13 Mbps / VBR), H9 (13 Mbps / VBR), H9 (14 Mbps / VBR), H1 (6 Mbps / VBR), H1 (6 Mbps / VBR), H2 (6 Mbps / VBR), H2 (6 Mbps / VBR), H3 (7 Mbps / VBR), H4 (6 Mbps / VBR), H5 (6 Mbps / VBR), H6 (6 Mbps / VBR), H7 (7 Mbps / VBR), H8 (14 Mbps / VBR), H9 (15 Mbps / VBR), H9 (15 Mbps / VBR), H9 (17 Mbps / VBR), H9 (18 Mbps / VBR), H	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HE (8 Mbps / VBR), HE (8 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HE (8 Mbps / VBR), HE (8 Mbps / VBR) Doltby Digital (Doltby AC3 / 5.1-channel Doltby Digital / 5.1-ch, Zoom Microphone Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFAGES AV HDMI S-Video	HA 117 Msps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, H3 (9 Mbps / VBRI, H4 (9 Mbps / VBRI) H4 (17 Msps / VBRI) H6 (13 Mbps / VBRI) H6 (13 Mbps / VBRI) H6 (13 Mbps / VBRI) H7 (19 Mbps / VBRI) H8 (19 Mbps / VBRI) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone Yes Out Yes (mini) —	HA 117 Mbps / VBR, H6 13 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, H6 18 Mbps / VBR, H6 13 Mbps / VBR, H7 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone Yes Out Yes (mini) —	HA (17 Mbps / VBR), H6 (13 Mbps / VBR), H7 Mbps / VBR), H8 (6 Mbps / VBR), H8 (6 Mbps / VBR), H9 (13 Mbps / VBR), H9 (13 Mbps / VBR), H9 (14 Mbps / VBR), H1 (6 Mbps / VBR), H1 (6 Mbps / VBR), H2 (6 Mbps / VBR), H2 (6 Mbps / VBR), H3 (7 Mbps / VBR), H4 (6 Mbps / VBR), H5 (6 Mbps / VBR), H6 (6 Mbps / VBR), H7 (7 Mbps / VBR), H8 (14 Mbps / VBR), H9 (15 Mbps / VBR), H9 (15 Mbps / VBR), H9 (17 Mbps / VBR), H9 (18 Mbps / VBR), H	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HE (8 Mbps / VBR), HE (8 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HE (8 Mbps / VBR), HE (8 Mbps / VBR) Doltby Digital (Doltby AC3 / 5.1-channel Doltby Digital / 5.1-ch, Zoom Microphone Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini)	HA 117 Mpps / VBR HG 13 Mbps / VBR HG 13 Mbps / VBR HB (15 Mbps / VBR Doby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1-ch, Zoom Microphone Yes Out Yes (mini) — Yes	HA 117 Mbps / VBR, H6 13 Mbps / VBR, H8 (19 Mbps / VBR), H8 (19 Mbps / VBR), H8 (18 Mbps / VBR), H9 (13 Mbps / VBR), H9 (13 Mbps / VBR), H9 (13 Mbps / VBR), H1 (17 Mbps / VBR), H1 (18 Mbps / VBR), H2 (18 Mbps / VBR), H3 (18 Mbps / VBR), H4 (19 Mbps / VBR), H5 (18 Mbps / VBR), H5 (18 Mbps / VBR), H6 (18 Mbps / VBR), H7 (18 Mb	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (18 Mbps / VBR) HX (9 Mbps / VBR) H4 (17 Mbps / VBR) H4 (17 Mbps / VBR) H5 (19 Mbps / VBR) H6 (18 Mbps / VBR) H6 (18 Mbps / VBR) H7 (19 Mbps / VBR) H8 (19 Mbps / VBR) Dotby Digital (Dotby AC3) / 5.1-channel Dotby Digital (Dotby AC3) / 5.1-channel Dotby Digital / 5.1ch, Zoom Microphone Yes Out Yes (mini)	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HE (8 Mbps / VBR), HE (8 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HE (8 Mbps / VBR), HE (8 Mbps / VBR) Doltby Digital (Doltby AC3 / 5.1-channel Doltby Digital / 5.1-ch, Zoom Microphone Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini)	HA 117 Msps / VBR, HG 13 Mbps / VBR, HG 13 Mbps / VBR, HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HE (18 Mbps / VBR) HE (6 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (5.1-ch, Zoom Microphone Yes Out Yes (mini) — Yes Yes	HA 117 Mbps / VBR H6 13 Mbps / VBR H6 13 Mbps / VBR H8 14 Mbps / VBR H8 14 Mps / VBR H8 14 Mps / VBR H9 14 Mps / VBR H9 15 Mbps / VBR H9 15 Mbps / VBR H9 16 Mbps / VBR H16 16 Mbps / VBR H17 Mbps / VBR H18 16 Mbps / VBR H18 16 Mbps / VBR Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Ves Out Yes Yes Yes	HA (17 Mbps / VBR) HB (18 Mbps / VBR) HB (19 Mbps / VBR) HB (19 Mbps / VBR) HB (16 Mbps / VBR) HB (13 Mbps / VBR) HB (13 Mbps / VBR) HB (13 Mbps / VBR) HB (16 Mbps / VBR) HB (16 Mbps / VBR) HB (16 Mbps / VBR) HB (17 Mbps / VBR) HB (18 Mbps / VBR) Out Ves (mini)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) HB (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HG (6 Mbps / VBR) HG (6 Mbps / VBR) HG (7 Mbps / VBR) HG (8 Mbps / VBR) Out Ves (mini)
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB	HA 117 Mpps / VBR HG 13 Mbps / VBR HG 13 Mbps / VBR HB (15 Mbps / VBR Doby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1-ch, Zoom Microphone Yes Out Yes (mini) — Yes	HA 117 Mbps / VBR, H6 13 Mbps / VBR, H8 (19 Mbps / VBR), H8 (19 Mbps / VBR), H8 (18 Mbps / VBR), H9 (13 Mbps / VBR), H9 (13 Mbps / VBR), H9 (13 Mbps / VBR), H1 (17 Mbps / VBR), H1 (18 Mbps / VBR), H2 (18 Mbps / VBR), H3 (18 Mbps / VBR), H4 (19 Mbps / VBR), H5 (18 Mbps / VBR), H5 (18 Mbps / VBR), H6 (18 Mbps / VBR), H7 (18 Mb	HA (17 Mbps / VBR) HG (12 Mbps / VBR) HG (18 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) HO (13 Mbps / VBR) HO (13 Mbps / VBR) HO (13 Mbps / VBR) HO (14 Mbps / VBR) HO (15 Mbps / VBR) Out Ves (mini) Hi-Speed USB (USB 2.0](mini AB)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HH (14 Mbps / VBR) HB (15 Mbps / VBR) HB (17 Mbps / VBR) HB (17 Mbps / VBR) HB (18 Mbps / VBR) Out Ves Iminil Hi-Speed USB (USB 2.0)[mini AB)
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component	HA 117 Msps / VBR1, HG 13 Mbps / VBR1, HG 13 Mbps / VBR1, HE 19 Mbps / VBR1, HE 16 Mbps / VBR1, HE 16 Mbps / VBR1, HE 113 Mbps / VBR1, HE 10 Mbps / VBR1, HE 16 Mbps / VBR1, HE 16 Mbps / VBR1, HE 16 Mbps / VBR1, Outby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Joston Microphone Yes Out Yes (mini) — Yes Yes Hi-Speed USB (USB 2.0](mini AB)	HA 117 Mbps / VBR H6 13 Mbps / VBR H7 Mbps / VBR H8 M Mbps / VBR H8 M Mbps / VBR H8 M Mps / VBR H8 M Mps / VBR H9 M Mps / VBR H9 M Mps / VBR H9 M Mps / VBR H1 M Mps / VBR Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital	HA (17 Mbps / VBR) HB (18 Mbps / VBR) HB (19 Mbps / VBR) HB (19 Mbps / VBR) HB (16 Mbps / VBR) HB (13 Mbps / VBR) HB (13 Mbps / VBR) HB (13 Mbps / VBR) HB (16 Mbps / VBR) HB (16 Mbps / VBR) HB (16 Mbps / VBR) HB (17 Mbps / VBR) HB (18 Mbps / VBR) Out Ves (mini)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) HB (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HG (6 Mbps / VBR) HG (6 Mbps / VBR) HG (7 Mbps / VBR) HG (8 Mbps / VBR) Out Ves (mini)
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER	HA 117 Msps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HX 19 Mbps / VBRI, HE 16 Mbps / VBRI HA 117 Msps / VBRI, HG 13 Mbps / VBRI, HE 6 Mbps / VBRI Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Outy Yes Out Yes Wes Hi-Speed USB [USB 2.0][mini AB] Yes	HA 117 Mbps / VBR, H6 13 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, H8 117 Mbps / VBR, H6 113 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, H9	HA (17 Mbps / VBR) HG (12 Mbps / VBR) HG (18 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) HO (13 Mbps / VBR) HO (13 Mbps / VBR) HO (13 Mbps / VBR) HO (14 Mbps / VBR) HO (15 Mbps / VBR) Out Ves (mini) Hi-Speed USB (USB 2.0](mini AB)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HH (14 Mbps / VBR) HB (15 Mbps / VBR) HB (17 Mbps / VBR) HB (17 Mbps / VBR) HB (18 Mbps / VBR) Out Ves Iminil Hi-Speed USB (USB 2.0)[mini AB)
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone [stereo mini] Headphones [stereo mini] USB Video Component OTHER Accessory Shoe	HA 117 Msps / VBR1, HG 13 Mbps / VBR1, HG 13 Mbps / VBR1, HE 19 Mbps / VBR1, HE 16 Mbps / VBR1, HE 16 Mbps / VBR1, HE 113 Mbps / VBR1, HE 10 Mbps / VBR1, HE 16 Mbps / VBR1, HE 16 Mbps / VBR1, HE 16 Mbps / VBR1, Outby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Joston Microphone Yes Out Yes (mini) — Yes Yes Hi-Speed USB (USB 2.0](mini AB)	HA 117 Mbps / VBR H6 13 Mbps / VBR H7 Mbps / VBR H8 M Mbps / VBR H8 M Mbps / VBR H8 M Mps / VBR H8 M Mps / VBR H9 M Mps / VBR H9 M Mps / VBR H9 M Mps / VBR H1 M Mps / VBR Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (18 Mbps / VBR) HX (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (18 Mbps / VBR) Dotby Digital (Dotby AC3) / 5.1-channel Dotby Digital (Dotby AC3) / 5.1-channel Out Yes Out Yes (mini) — Hi-Speed USB (USB 2.0)[mini AB) Yes	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (18 Mbps / VBR) HC (18 Mbps / VBR) HB (17 Mbps / VBR) HB (17 Mbps / VBR) HB (18 Mbps / VBR) Out Ves Iminil Hi-Speed USB (USB 2.0](mini AB)
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES	HA 117 Mpps / VBR1, HG 13 Mbps / VBR1, HG 13 Mbps / VBR1, HE (6 Mbps / VBR1) HA 117 Mbps / VBR1, HG 13 Mbps / VBR1, DG 15 Mps / VBR1, DG 16 Mps / VBR1, DG 16 Mps / VBR1, DG 17 Mps / VBR1, DG 18 Mps / VBR1, D	HA 117 Mbps / VBR H6 13 Mbps / VBR H8 (19 Mbps / VBR H8 (19 Mbps / VBR H8 (18 Mbps / VBR H9 (13 Mbps / VBR H9 (13 Mbps / VBR H9 (13 Mbps / VBR H1 (17 Mbps / VBR H1 (17 Mbps / VBR H1 (17 Mbps / VBR H1 (18 Mbps / VBR H1 (18 Mbps / VBR H1 (18 Mbps / VBR Dolty Digital (Dolty AC3) / 5.1-channel Dolty Digital (Dolty AC3) / 5.1-channel Out Yes Out Yes (mini) — Yes Hi-Speed USB (USB 2.0)[mini AB] Yes Yes (Cold)	HA (17 Mbps / VBR)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (18 Mbps / VBR) HK (9 Mbps / VBR) HE (6 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HG (15 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes Out Yes Hi-Speed USB (USB 2.0)[mini AB] Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI 5-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor	HA 117 Msps / VBR HG 13 Mbps / VBR HG 13 Mbps / VBR HK 19 Mbps / VBR HE (a Mbps / VBR HE (a Mbps / VBR HA 117 Msps / VBR HG 13 Mbps / VBR HG 13 Mbps / VBR Dolty Digital (Dolby AC3) / 5.1-channel Dolty Digital (Dolby AC3) / 5.1-channel Dolty Digital / 5.1-ch, Zoom Microphone Yes Out Yes (mini) Yes Yes Hi-Speed USB (USB 2.0)(mini AB) Yes Yes (Cold)	HA 17 Mbps / VBR, H6 13 Mbps / VBR, H8 19 Mbps / VBR, H8 11 Mbps / VBR, H8 11 Mbps / VBR, H8 19 Mbps / VBR, H9 Mbps / VBR,	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (18 Mbps / VBR) HX (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (18 Mbps / VBR) HG (18 Mbps / VBR) HG (18 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes Out Yes (mini) — — Hi-Speed USB (USB 2.0)(mini AB) Yes	HA (17 Mbps / VBR) H6 (13 Mbps / VBR) H6 (13 Mbps / VBR) HX (9 Mbps / VBR) H4 (17 Mbps / VBR) H4 (17 Mbps / VBR) H5 (13 Mbps / VBR) H6 (13 Mbps / VBR) H6 (13 Mbps / VBR) H6 (14 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes Out Yes [mini] Hi-Speed USB [USB 2.0][mini AB] Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor AC Cable	HA 117 Msps / VBR1 HG 13 Mbps / VBR1 HG 13 Mbps / VBR1 HK 19 Mbps / VBR1 HE 16 Mbps / VBR1 HE 16 Mbps / VBR1 HA 117 Msps / VBR1 HG 13 Mbps / VBR1 HG 13 Mbps / VBR1 HG 13 Mbps / VBR1 Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone Yes Out Yes (mini) Yes Hi-Speed USB (USB 2.0](mini AB) Yes Yes (Cold)	HA 17 Mbps / VBR, H6 13 Mbps / VBR, H8 19 Mbps / VBR, H8 11 Mbps / VBR, H8 19 Mbps / VBR, H9 Mbps / VBR, H8 19 Mbps / VBR, H9 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, H8 19 Mbps / VBR, Dolty Digital / 5.1ch, Zoom Microphone Yes Out Yes (mini) — Yes Hi-Speed USB (USB 2.0)(mini AB) Yes Yes (Cold)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (18 Mbps / VBR) HX (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (18 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes Out Yes (mini) — Hi-Speed USB (USB 2.0)[mini AB) Yes Yes Yes	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HX (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HC (6 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes Out Yes (mini) — Hi-Speed USB (USB 2.0](mini AB) Yes Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication InterFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor AC Cable DC Cable	HA 117 Mbps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HX 19 Mbps / VBRI, HE 16 Mbps / VBRI HA 117 Mbps / VBRI, HG 13 Mbps / VBRI, HE 16 Mbps / VBRI, HE 16 Mbps / VBRI Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone Yes Out Yes (mini) —— Yes Yes Hi-Speed USB (USB 2.0)(mini AB) Yes Yes (Cold) Yes (Yes Yes	HA 117 Mbps / VBR, H6 13 Mbps / VBR, H8 19 Mbps / VBR, H8 117 Mbps / VBR, H6 13 Mbps / VBR, H8 19 Mbps / VBR, H9 Mbps / VBR, H8 19 Mbps / VBR, H9 Mbps / VBR	HA (17 Mbps / VBR)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HK (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HG (14 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Ves (mini) Hi-Speed USB (USB 2.0)[mini AB] Yes Yes Yes Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor AC Cable DC Cable Rechargeable Battery Pack	HA 117 Mpps / VBR1 HG 13 Mbps / VBR1 HG 13 Mbps / VBR1 HK 19 Mbps / VBR1 HE 16 Mbps / VBR1 HA 117 Mpps / VBR1 HA 117 Mpps / VBR1 HG 13 Mbps / VBR1 HG 13 Mbps / VBR1 Outby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1-ch, Zoom Microphone Yes Out Yes Imini — Yes Yes Hi-Speed USB (USB 2.0](mini AB) Yes Yes Yes Cold	HA 117 Mbps / VBR, HA 117 Mbps / VBR, HA 13 Mbps / VBR, HA 19 Mbps / VBR, HE 16 Mbps / VBR, HA 117 Mbps / VBR, HA 117 Mbps / VBR, HA 117 Mbps / VBR, HA 19 Mbps / VBR, HE 16 Mbps / VBR, Ves Out Yes Winitian	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (18 Mbps / VBR) HX (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (18 Mbps / VBR) HG (18 Mbps / VBR) HG (19 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes Out Yes (mini) — — Hi-Speed USB (USB 2.0)(mini AB) Yes Yes Yes Yes Yes Yes Lithium-lon	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HK (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HK (9 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) Outy Digital (Dolby AC3) / 5.1-channel Dolby Digital (5.1ch, Zoom Microphone Yes Out Yes [mini] Hi-Speed USB (USB 2.0][mini AB] Yes Yes Yes Yes Lithium-Ion
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor AC Cable DC Cable Rechargeable Battery Pack Video Component Cable	HA 117 Mbps / VBR HG 13 Mbps / VBR HG 13 Mbps / VBR HI 17 Mbps / VBR HI 17 Mbps / VBR HI 18 Mbps / VBR HI 18 Mbps / VBR HI 19 Mbps / VBR Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1-ch, Zoom Microphone Yes Out	HA 117 Mbps / VBR HA 117 Mbps / VBR HA 13 Mbps / VBR HK 19 Mbps / VBR HK 19 Mbps / VBR HA 117 Mbps / VBR HA 117 Mbps / VBR HA 117 Mbps / VBR HB 16 Mbps / VBR HB 16 Mbps / VBR HB 16 Mbps / VBR Outby Digital (Dolby AC3) / 5.1-channel Dolby Digital / 5.1ch, Zoom Microphone Yes Out Yes Wes Hi-Speed USB (USB 2.0) mini AB Yes Yes Yes Cold Yes Yes Yes Lithium-Ion Yes	HA (17 Mbps / VBR)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HG (14 Mbps / VBR) HG (15 Mbps / VBR) HG (16 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (5.1ch, Zoom Microphone Yes Out Yes (mini) Hi-Speed USB (USB 2.0](mini AB) Yes Yes Yes Yes Lithium-Ion Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI 5-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER ACCESSORY Shoe STANDARD ACCESSORIES AC Adaptor AC Cable DC Cable Rechargeable Battery Pack Video Component Cable AV Cable AV Cable COMPONENT CABLE AV Cable COMPONENT CABLE AV Cable COMPONENT CABLE AV Cable AV Cable	HA 117 Msps / VBR HA 118 Msps / VBR HA 118 Msps / VBR HA 19 Msps / VBR HE (a Msps / VBR HA 117 Msps / VBR HA 117 Msps / VBR HA 117 Msps / VBR HA 118 Msps / VBR Dolty Digital (Dolty AC3) / 5.1-channel Dolty Digital (Dolty AC3) / 5.1-channel Dolty Digital / 5.1ch, Zoom Microphone Yes Out Yes (mini) Yes Yes Hi-Speed USB (USB 2.0](mini AB) Yes Yes Yes Lithium-Ion Yes Yes Yes Lithium-Ion Yes	HA 17 Mbps / VBR, H6 13 Mbps / VBR, H6 13 Mbps / VBR, H8 (9 Mbps / VBR), H8 (9 Mbps / VBR), H8 (17 Mbps / VBR), H9 (17 Mbps / VBR), H9 (17 Mbps / VBR), H9 (18 Mbps / VBR), H9 (19 Mbps / VBR) Out Ves (mini)	HA (17 Mbps / VBR)	HA (17 Mbps / VBR) H6 (13 Mbps / VBR) H6 (13 Mbps / VBR) H5 (19 Mbps / VBR) H6 (14 Mbps / VBR) H6 (14 Mbps / VBR) H6 (14 Mbps / VBR) H6 (13 Mbps / VBR) H7 (15 Mbps / VBR) H8 (14 Mbps / VBR) H8 (16 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes (mini) Hi-Speed USB (USB 2.0)(mini AB) Yes Yes Yes Yes Lithium-Ion Yes Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor AC Cable DC Cable Rechargeable Battery Pack Video Component Cable AV Cable IR Remote	HA 117 Msps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HK 19 Mbps / VBRI, HE 16 Mbps / VBRI, HE 16 Mbps / VBRI, HE 16 Mbps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HE 16 Mbps /	HA 17 Mbps / VBR, HA 117 Mbps / VBR, HA 18 Mbps / VBR, HX 19 Mbps / VBR, HX 19 Mbps / VBR, HX 19 Mbps / VBR, HA 17 Mbps / VBR, HA 117 Mbps / VBR, HX 19 Mbps	HA (17 Mbps / VBR)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HX (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HC (6 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes (mini) Hi-Speed USB (USB 2.0)[mini AB] Yes Yes Yes Yes Yes Yes Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor AC Cable DC Cable Rechargeable Battery Pack Video Component Cable AV Cable IR Remote USB Cable	HA 117 Mbps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HK 19 Mbps / VBRI, HE 16 Mbps / VBRI HE 16 Mbps / VBRI HE 16 Mbps / VBRI HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HE 16 Mbps / VBRI Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Ves Out Yes (mini) Yes Yes Hi-Speed USB (USB 2.0)(mini AB) Yes Yes (Cold) Yes (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	HA 17 Mbps / VBR, H6 13 Mbps / VBR, H6 13 Mbps / VBR, H8 (9 Mbps / VBR), H8 (9 Mbps / VBR), H8 (17 Mbps / VBR), H9 (17 Mbps / VBR), H9 (17 Mbps / VBR), H9 (18 Mbps / VBR), H9 (19 Mbps / VBR) Out Ves (mini)	HA (17 Mbps / VBR)	HA (17 Mbps / VBR) H6 (13 Mbps / VBR) H6 (13 Mbps / VBR) H5 (19 Mbps / VBR) H6 (14 Mbps / VBR) H6 (14 Mbps / VBR) H6 (17 Mbps / VBR) H7 (17 Mbps / VBR) H8 (17 Mbps / VBR) H8 (18 Mbps / VBR) H9 (18 Mbps / VBR) Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes (mini) H1-Speed USB (USB 2.0)(mini AB) Yes Yes Yes Yes Lithium-Ion Yes Yes
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor AC Cable DC Cable Rechargeable Battery Pack Video Component Cable AV Cable IR Remote USB Cable SD Memory Card	HA 117 Mbps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HK 19 Mbps / VBRI, HE 16 Mbps / VBRI HA 117 Mbps / VBRI, HG 13 Mbps / VBRI, HE 16 Mbps / VBRI, HE 16 Mbps / VBRI Dotby Digital (Dotby AC3) / 5.1-channel Dotby Digital / 5.1ch, Zoom Microphone Yes Out Yes Iminil — Yes Yes Hi-Speed USB (USB 2.0](mini AB) Yes Yes (Cold) Yes Yes Lithium-Ion Yes Yes Yes Yes Lithium-Ion Yes	HA 117 Mbps / VBR, HA 117 Mbps / VBR, HA 13 Mbps / VBR, HX 19 Mbps / VBR, HX 19 Mbps / VBR, HA 117 Mbps / VBR, HA 117 Mbps / VBR, HA 117 Mbps / VBR, HX 19 M	HA (17 Mbps / VBR)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HK (9 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HG (13 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) Outy Digital (Dolby AC3) / 5.1-channel Dolby Digital (7 5.1ch, Zoom Microphone Yes Out Yes [mini] — — Hi-Speed USB [USB 2.0][mini AB] Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Recording Mode Playback Mode Audio Recording System Microphone Media Remaining Indication INTERFACES AV HDMI S-Video Microphone (stereo mini) Headphones (stereo mini) USB Video Component OTHER Accessory Shoe STANDARD ACCESSORIES AC Adaptor AC Cable DC Cable Rechargeable Battery Pack Video Component Cable AV Cable IR Remote USB Cable SD Memory Card CD-ROM	HA 117 Mbps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HK 19 Mbps / VBRI, HE 16 Mbps / VBRI HE 16 Mbps / VBRI HE 16 Mbps / VBRI HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HG 13 Mbps / VBRI, HE 16 Mbps / VBRI Dolby Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Ves Out Yes (mini) Yes Yes Hi-Speed USB (USB 2.0)(mini AB) Yes Yes (Cold) Yes (Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	HA 117 Mbps / VBR, HA 117 Mbps / VBR, HA 13 Mbps / VBR, HA 19 Mbps / VBR, HA 19 Mbps / VBR, HA 117 Mbps / VBR, HA 117 Mbps / VBR, HA 117 Mbps / VBR, HA 19 Mbps / VBR, HB 16 Mbps / VBR, HB 17 Mbps / VBR, HB 18 Mbps / VBR, Out Ves Minil — Ves Yes Hi-Speed USB (USB 2.0)(mini AB) Yes Yes Yes Yes Ves Ves Yes Yes	HA (17 Mbps / VBR)	HA (17 Mbps / VBR) HG (13 Mbps / VBR) HG (13 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HA (17 Mbps / VBR) HE (6 Mbps / VBR) HE (6 Mbps / VBR) Outy Digital (Dolby AC3) / 5.1-channel Dolby Digital (Dolby AC3) / 5.1-channel Out Yes (mini) — — Hi-Speed USB (USB 2.0)(mini AB) Yes Yes Yes Yes Yes Yes Yes Yes

[•]The remaining battery capacity is displayed in minutes when using the applicable Panasonic battery. •When using batteries made by other companies the remaining battery capacity will not be shown. •We cannot accept any liability whatsoever for damages to the unit or accidents caused by non-genuine Panasonic batteries (including those that have been certified by Panasonic).



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LEICA

AAA Performance. HD Camcorder.

Expressive, true-to-life images that convey deep emotion. Panasonic carefully crafted the SD100 and HS100 so you wouldn't have to accept any compromise in the images you shoot. These remarkable HD camcorders let you capture artistically beautiful images with superb detail and deep, vivid colors. They give you the advanced creative control you need to capture images just the way you see them in your mind's eye. And they are super-easy to use, with instant automatic settings for capturing perfect shots in almost any situation. Artistic Beauty. Advanced Creativity. Automatic Control. With the new SD100 and HS100 HD camcorders, Panasonic gives you a tool for making videos that you'll enjoy creating today and viewing for years to come.





HS100 Full-HD Camcorder



Welcome to the Full-High-Definition Age

When It Comes to Beauty, There's Simply No Match for Full-HD

HD images contain 6 times as much information as standard images, and HDTV has 1,080 horizontal scan lines to standard TV's 480. That means much higher resolution and much greater detail – which is why the world is steadily shifting to HD. Panasonic HD camcorders record 1920 x 1080 full-HD images* - the highest level of HD quality there is. Viewed on an HDTV, the pictures are so sharp and clear that you can even distinguish textures. That's the kind of image quality you want when capturing special moments





Each strand of hair and individual eyelash is captured in clear, distinct detail.

- the kind of moments that will only come once, but that you'll want to enjoy forever. When it comes to capturing beautiful images, an HD camcorder is the best choice. And when it comes to HD camcorders, there's no better choice than Panasonic.

*In HG (high image quality) mode. 1920 x 1080 full-HD recording with a Panasonic home-use camcorder refers to recording with 1,920 pixels in the horizontal direction and 1,080 pixels in the vertical direction.











HDC-HS100





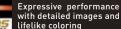














Precise hand-shake







High-speed processing and wide tonal expression



Perfect settings every time -automatically











HDD and shooting in HE mode. *5 When using the separately purchased VW-VGB6 battery pack and VW-VH04 battery pack holder kit and when using the EVF. *6 HS100: In card recording mode only



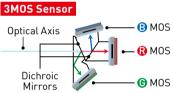
Expressive performance with detailed images and lifelike coloring.

3MOS Sensor

Both the SD100 and HS100 feature Panasonic's new 3MOS sensor. With about 2* times the light-receiving area of a CCD sensor, this high-sensitivity, highprecision imaging element captures vibrant, faithful

color and provides an outstanding performance in low lighting. The 3MOS system uses separate MOS sensors to capture the red, green and

blue light components, so no 3MOS Sensor light is wasted. You capture rich, expressive video with vivid colors and super-fine details that make your images come alive. *Compared with previous Panasonic CCD sensors





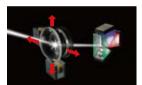
A correction area 3x larger than before – crisp, sharp images. Advanced O.I.S. (Optical Image Stabilizer)



Panasonic's advanced O.I.S. suppresses the effects of hand-shake as you shoot. This extraordinary system uses gyrosensors to detect even tiny amounts of handshake, then shifts a lens and adjusts the optical axis to

compensate - all at an astounding 4,000 times per second. Because

the system is optical, there's no loss of image quality. You get all the beauty and none of the blurring. The SD100 and HS100 take Panasonic's advanced O.I.S. a step further, with a correction area that's about 3 times as large as in previous models. With this enhanced correction O.I.S. Lens capability, even zoomed images are $\frac{\text{The lens moves up/down or left/}}{\text{capability}}$ incredibly clear, sharp and beautiful.



right and bends the incoming light





Both the dancing girl and the background are crisp and razor-sharp. Even on a big screen,

A powerful new lens for even finer image rendering.

New Leica Dicomar Lens



The SD100 and HS100 also introduce a new high-performance Leica lens in which both resolution and contrast have been improved by refinements to our low-dispersion lens and

aspherical lens. The lens is highly refractive too, making it possible to pack a powerful 12x zoom into a compact body. A multi-coating process applied to all lens surfaces helps suppress ghosts and flaring, so you get sharp, crisp images even in strong outdoor lighting. The superb rendering ability of this advanced camcorder lens makes it ideal for capturing expressive full-HD images. *Leica is a registered trademark of Leica Microsystem IR GmbH, and Dicomar is a registered trademark of Leica Camera AG.



Image washed-out due to bright lighting.



With multi-coated lenses, images are clear and

Advanced Creativity Manual controls – the freedom to go beyond the ordinary.

Craft images with intuitive ease.

Manual Ring



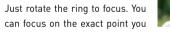
The manual ring gives you easy, fingertip control over the focus,

zoom and exposure settings. You'll find using the ring a much more intuitive, comfortable,

user-friendly process than accessing a menu screen. With the manual ring and manual operation, the SD100 and HS100 are a pleasure to use and give you the freedom to craft unusually expressive images.

Just rotate the ring to zoom in and out. You have full control of the zooming speed and can zoom in or out to the precise degree you want.

Focus



want, even if it's not in the center of the frame. You can also change the focus as you shoot, to get the kind of creative shots you sometimes see in movies.

White Balance

Select from Auto, Indoor, Outdoor and White Set according to the

location, weather or type of lighting. You'll always get the best possible coloring even if the light source changes.

Shutter Speed

The shutter speed can be adjusted from 1/24 to 1/8,000 of





a second. Use a high shutter speed when shooting sports events or fastmoving subjects, and you can get clear, sharp, incredible action shots. Shooting at a high shutter speed also makes it possible to later produce crisp, sharp still photos from the moving images you've captured.

Use the ring to adjust the aperture to regulate the amount of light let in. In dim lighting use a lower aperture setting (which corresponds to a larger aperture opening), and in bright lighting use a higher setting.

A precise way to check the lighting.

On-Screen Assist

Zebra Pattern

A "zebra pattern" is displayed in areas of the frame where the lighting is excessive and the image is over-exposed.



Brightness Level

The light level is metered at the center of the frame and displayed as a percentage (%) This serves as a guide when you're shooting a subject that's backlit, or when you want to keep the light level the same even though the lighting conditions change.



Histogram

The histogram displays in graph form the exposure and contrast conditions over the entire frame. This lets you determine fine gradation details that are difficult to tell by just looking at the screen.



Accessorize your camcorder system.

Mic Input and Headphone Jack

There's a mic input terminal on the front of the camcorder and a headphone jack* on the side. Plug in an external mic or headphones (both optional) if desired. *The headphone jack also serves as an AV output terminal. To use it as





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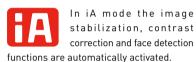
Mic Input

Headphone Jack



Perfect settings every time - automatically.

iA (Intelligent Auto)





Detects the situation and switches the scene mode automatically.

Intelligent Scene Selector



The Scene Selector function analyzes the shooting situation and automatically switches the camcorder to the Scene mode that will give you optimal results.

Face

This mode captures faces beautifully. It automatically detects when there's a



face in the frame and adjusts the exposure to capture it correctly. The focus also emphasizes the face. *See the Face Detection description for details

Scenery

This mode is ideal for shooting wide landscapes



such as at the ocean or in the mountains. It balances the exposure over the entire frame to prevent brighter parts of the image, such as the sky, from being washed out or having blown highlights.

Spotlight

Use this mode for scenes with particularly strong contrast, such as when





you're shooting a spotlit area on a darkened stage. It captures the well-lit subject perfectly and prevents washed-out areas.

Low Light

Use in dim lighting. It automatically switches to a slower shutter speed



so that images across the entire frame are bright and easy to see.

Capture faces beautifully - even in dim or backlit scenes.

Face Detection



Face Detection automatically senses the ambient lighting and adjusts the exposure accordingly, so faces are bright and easy to see. The focus also prioritizes the faces, and skin tones

are smoothed. Faces in the center of the frame serve as the reference for adjustments, but the function can detect up to 15 faces in all.



Natural contrast with no wash-out

Intelligent Contrast Control



Intelligent Contrast Control detects the ambient light level and adjusts the exposure accordingly, preventing blown highlights and blocked shadows. You capture naturallooking, highly nuanced images with proper contrast.



Prevents blurry images caused by unsteady hands as you shoot. Advanced O.I.S. (Optical Image Stabilizer)



Panasonic's advanced O.I.S. suppresses the effects of handshake as you shoot. You get all the beauty and none of the blurring, even at high zoom levels.

Catch Every Moment in Clear, Beautiful Detail

Advanced Functions that Expand Video Possibilities

No more missed shooting opportunities!

1.9-sec Quick Power-On — Saves Energy



Switch the power on and the SD100 and HS100 are in standby mode in just 1.9 seconds*, ready to shoot when you are. This fast startup also helps reduce battery consumption.



0.6-sec Quick Start

Use Quick Start mode* when you want to start shooting even more quickly. Just flip open the LCD and you're ready to shoot in just 0.6 second. Also, power consumption is 30% to 40% less in Quick Start mode than in recording mode, so you save battery time.

*This mode can be selected from the menu

Capture those spur-of-the-moment scenes.

24 Frames/Second High-Speed **Burst Shooting**

The HD camcorders feature high-speed burst shooting at a fast 24 frames per second. In three seconds, you can shoot up to 72 still shots. Highspeed burst shooting is especially useful for shooting fast-moving objects or capturing spontaneous moments, such as in sports events and car races. Or use it to analyze your golf swing or tennis stroke.





The detail is so fine, you can even chec

Images are recorded even before you begin shooting.

Pre-Rec Function

PRE- REC.

This clever function records three seconds of images even before you actually begin shooting.

The images are held temporarily in the camcorder's internal memory, before recording onto the SDHC/SD Memory Card or hard disk begins. This helps ensure that you won't miss the start of a moment you want to record, such as when an event begins all of a sudden.







High-speed processing and wide tonal expression.

HD Advanced Pure Color Engine

The camera must be aimed at the subject in advance.



We took the advanced imaging circuitry used in Panasonic professional equipment and adapted

it for home use. The result is the HD Advanced Pure Color Engine, a high-speed processing unit that handles huge volumes of data and virtually doubles the dynamic range. This advanced imaging engine helps prevent blown highlights and blocked shadows, so the images you capture on video look just the way they do in real life.



Capturing voices over a wide area for a more lifelike sound.

5.1-Channel Surround Sound System & Zoom Mic

5 Microphones and 5.1-Channel Surround Sound



Wide Mode

Panasonic HD camcorders are equipped with five electret condenser microphones. The center mic helps DIGITAL
5.1 CREATOR electret condenser microphones. The center many formation of the condenser microphones. The center many formation of the condenser microphones. The center many formation of the condenser microphones.

you get a more 3-dimensional effect than you get with conventional systems, which capture all sounds from the front. You get a realistic sound space that's a perfect match with the true-to-life HD images, *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are registered trademarks of Dolby Laboratories.



Zoom Mode

In Zoom mode the microphones are linked to the lens action. When you zoom in on a subject, the microphones focus on the sound in that same direction.

In this mode the microphones focus on sounds coming from right in front of you, even when the lens is not zooming.



07



The 60GB hard disk holds a full 23 hours*4 of memories When it comes to beauty, the 3CCD camera system makes a world of difference



AVCHD



FEATURE COMPARISON

	HDC-SD100	HDC-HS100	HDC-SD9	HDC-HS9
High-Quality Pictures				
Media	SDHC/SD Memory Card	60-GB HDD SDHC/SD Memory Card	SDHC/SD Memory Card	60-GB HDD SDHC/SD Memory Card
Recording Format	AVCHD	AVCHD	AVCHD	AVCHD
3MOS Sensor	Yes	Yes	No	No
3CCD Camera System	No	No	Yes	Yes
Advanced O.I.S.	Yes(Wide)	Yes(Wide)	Yes	Yes
Leica Dicomar Lens	Yes	Yes	Yes	Yes
HD Advanced Pure Color Engine	Yes	Yes	Yes	Yes
Optical Zoom	12x	12x	10x	10x
5.1-ch Surround Sound System and Zoom Mic	Yes	Yes	Yes	Yes
Still Picture Recording	2.1 MEGA	2.1 MEGA	2.1 MEGA	2.1 MEGA
Simultaneous Motion-Image and Still Picture Recording	2.1 MEGA	2.1 MEGA	2.1 MEGA	2.1 MEGA
Networking				
One Touch DVD Copying (USB Host)	Yes*	Yes*	Yes*	Yes*
USB 2.0	High-Speed	High-Speed	High-Speed	High-Speed
PictBridge Compatible	Yes	Yes	Yes	Yes
Analog Out	Yes	Yes	Yes	Yes

^{*} When using a DVD burner (VW-BN1), data from an SDHC/SD Memory Card and HDD (HS100, HS9) can be copied to a 12-cm DVD disc.

	HDC-SD100	HDC-HS100	HDC-SD9	HDC-HS9
Ease and Versatility				
Manual Ring	Yes	Yes	No	No
On-Screen Asist	Yes	Yes	No	No
iA (Intelligent Auto)	Yes	Yes	No	No
Face Detection	Yes	Yes	Yes	Yes
Intelligent Contrast Control	Yes	Yes	Yes	Yes
Pre-Rec Function	Yes	Yes	Yes	Yes
Quick Power-On	1.9 sec	1.9 sec	No	No
Quick Start	0.6 sec	0.6 sec	0.6 sec	0.6 sec
Burst Shooting	2.1Mega (24 fps)	2.1Mega (24 fps)	2.1Mega (24 fps)	2.1Mega (24 fps
One-Touch Navigation	Yes	Yes	Yes	Yes
LCD	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide
Power LCD	Yes	Yes	Yes	Yes
Wide Viewing Angle LCD	Yes	Yes	Yes	Yes
Intelligent Shooting Guide/ Selection Playback	Yes	Yes	Yes	Yes
World Timer	Yes	Yes	Yes	Yes
Built-in Flash	Yes	Yes	Yes	Yes
Magic Pix®	Yes	Yes	Yes	Yes
Soft Skin Mode	Yes	Yes	Yes	Yes
Tele Macro	40cm	40cm	50cm	50cm
AGS (Auto Ground- Directional Standby)	Yes	Yes	Yes	Yes
EVF	Yes	Yes	No	No
Lens Cover	Auto	Auto	Auto	Auto
Accessory Shoe	Yes(Cold)	Yes(Cold)	No	No
Mic Input	Yes	Yes	No	No
Headphone Jack	Yes	Yes	No	No

Motion-Image Recording Times (Approx.) (SD100/HS100/SD9/HS9)

	HDD*1	SDHC Memory Card					
Mode (rec. pixels) / Bit rate	60GB*2	32GB*2	16GB*2	12GB*2	8GB*2	6GB*2	4GB*2
HA (1920 x 1080) / 17 Mbps	7 h 40 min	4 h	2 h	1 h 30 min	1 h	45 min	30 min
HG (1920 x 1080) / 13 Mbps	10 h 10 min	5 h 20 min	2 h 40 min	2 h	1 h 20 min	1 h	40 min
HX (1920 x 1080) / 9 Mbps	15 h 20 min	8 h	4 h	3 h	2 h	1 h 30 min	1 h
HE (1440 x 1080) / 6 Mbps	23 h	12 h	6 h	4 h 30 min	3 h	2 h 15 min	1 h 30 min

Number of Recordable Still Pictures (Approx.) (SD100/HS100/SD9/HS9)

	Capacity	HDD*1	SDHC Memory Card						
Image Quality		60GB*2	32GB*2	16GB*2	12GB*2	8GB*2	6GB*2	4GB*2	
1920 x 1080 pixels	ı.	55470	27030	13470	10100	6690	5000	3290	
(16:9) 2.1 Mega	.t.	87170	42480	21170	15870	10520	7860	5160	

^{• ###} High Picture Quality ____ Normal Picture Quality (SD9,HS9 only) • These figures vary depending on the subject being photographed.

Battery Life (Approx.) (SD100/HS100)

		Continuous Recording Time				Actual Recording Time			
		HA / H	G / HX	HE		HA / H	HA / HG / HX		E
		LCD	EVF	LCD	EVF	LCD	EVF	LCD	EVF
	SD100 (SD Card)	1 h 55 min	2 h	1 h 55 min	2 h	1 h 10 min	1 h 15 min	1 h 10 min	1 h 15 min
/W-VBG130	HS100 (HDD)	1 h 45 min	1 h 50 min	1 h 45 min	1 h 50 min	1 h 5 min	1 h 10 min	1 h 5 min	1 h 10 min
	HS100 (SD Card)	1 h 50 min	2 h	1 h 50 min	2 h	1 h 10 min	1 h 15 min	1 h 10 min	1 h 15 min
	SD100 (SD Card)	3 h 30 min	3 h 45 min	3 h 30 min	3 h 45 min	2 h 10 min	2 h 20 min	2 h 10 min	2 h 20 min
VW-VBG260	HS100 (HDD)	3 h 10 min	3 h 25 min	3 h 10 min	3 h 25 min	2 h	2 h 5 min	2 h	2 h 10 min
	HS100 (SD Card)	3 h 25 min	3 h 40 min	3 h 25 min	3 h 40 min	2 h 10 min	2 h 15 min	2 h 10 min	2 h 15 min
	SD100 (SD Card)	8 h 45 min	9 h 20 min	8 h 45 min	9 h 20 min	5 h 30 min	5 h 55 min	5 h 30 min	5 h 55 mir
W-VBG6	HS100 (HDD)	7 h 55 min	8 h 25 min	7 h 55 min	8 h 25 min	5 h	5 h 20 min	5 h	5 h 20 mir
	HS100 (SD Card)	8 h 30 min	9 h 5 min	8 h 30 min	9 h 5 min	5 h 20 min	5 h 45 min	5 h 20 min	5 h 45 min
	SD100 (SD Card)	1 h 10 min	1 h 15 min	1 h 10 min	1 h 15 min	45 min	45 min	45 min	45 min
/W-VBG070	HS100 (HDD)	1 h 5 min	1 h 10 min	1 h 5 min	1 h 10 min	40 min	40 min	40 min	40 min
	HS100 (SD Card)	1 h 10 min	1 h 15 min	1 h 10 min	1 h 15 min	40 min	45 min	40 min	45 min

Battery Life (Approx.) (SD9/HS9)

		Continuous Recording Time					Actual Rec	ording Time	
		HA	HG	HX	HE	HA	HG	HX	HE
	SD9 (SD Card)	1 h 45 min	1 h 45 min	1 h 45 min	1 h 45 min	1 h 5 min	1 h 5 min	1 h 5 min	1 h 5 min
VW-VBG 130	HS9 (HDD)	1 h 35 min	1 h 35 min	1 h 35 min	1 h 35 min	1 h	1 h	1 h	1 h
	HS9 (SD Card)	1 h 45 min	1 h 45 min	1 h 45 min	1 h 45 min	1 h 5 min	1 h 5 min	1 h 5 min	1 h 5 min
	SD9 (SD Card)	3 h 20 min	3 h 20 min	3 h 20 min	3 h 20 min	2 h	2 h	2 h	2 h
VW-VBG 260	HS9 (HDD)	3 h	3 h	3 h	3 h	1 h 50 min	1 h 50 min	1 h 50 min	1 h 50 min
	HS9 (SD Card)	3 h 10 min	3 h 10 min	3 h 10 min	3 h 10 min	2 h	2 h	2 h	2 h
	SD9 (SD Card)	8 h 10 min	8 h 10 min	8 h 10 min	8 h 10 min	5 h 5 min	5 h 5 min	5 h 5 min	5 h 5 min
VW-VBG 6	HS9 (HDD)	7 h 30 min	7 h 30 min	7 h 30 min	7 h 35 min	4 h 35 min	4 h 35 min	4 h 35 min	4 h 40 min
	HS9 (SD Card)	8 h	8 h	8 h	8 h	4 h 55 min	4 h 55 min	4 h 55 min	4 h 55 min
	SD9 (SD Card)	1 h 5 min	1 h 5 min	1 h 5 min	1 h 5 min	40 min	40 min	40 min	40 min
VW-VBG070	HS9 (HDD)	1 h	1 h	1 h	1 h	35 min	35 min	35 min	35 min
	HS9 (SD Card)	1 h	1 h	1 h	1 h	40 min	40 min	40 min	40 min

[•]This is a guideline that includes time for operations such as starting and stopping the recording, turning the power on and off, and zooming. •The actual time is shorter

^{*1} HDD (60GB): HS100, HS9 only *2 Usable capacity will be less. •These figures vary depending on the pictures being recorded.

*We recommend using SD Memory Cards and SDHC Memory cards conforming to class 2 or higher of the SD Speed Class Rating or the following SD Memory Cards made by Panasonic for motion-image recording.

*Please confirm the latest information about SD/SDHC Memory Cards that can be used for motion-image recording, on the following website. http://panasonic.co.jp/pavc/global/cs/e_cam (This website is in English only.)

Beautiful Viewing, Easy Archiving

Viewing Connect a cable – or just use the memory card. Watching full-HD images on your TV couldn't be easier.

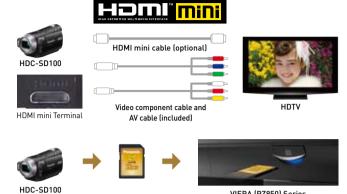
Just connect your HD camcorder to an HDTV and get ready for an incredible high-definition video show. If your TV is HDMI* compatible, a single HDMI mini cable is all you need. When using a video component cable, you need a separate audio cable. If you have a Panasonic VIERA PZ850** series TV. viewing is even easier.

Just slip the SD or SDHC memory card from your camcorder into the card slot on your TV, and you're ready to view full-HD moving images recorded in the AVCHD format.



Connect your HD camcorder to a VIERA or compatible Blu-ray Disc player via an HDMI cable, and you can control both units in synchronized operation with a single remote control. This kind

of simple, easy operation makes it even more fun to view your recordings. *With VIERA Link, a control signal sent through the HDMI cable allows linked operation of a VIERA TV. compatible DIGA recorder, and the HD camcorder. Please note that this function applies only to equipment that is compatible with VIERA Link, and that VIERA Link does not let you control every function of all connected equipment



*HDML the HDML logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. **With other SD card slot-equipped VIERA models, you can view JPEG format still images

Archiving and Viewing Using a DVD burner to create and play back a DVD.

Archiving

The SD100 and HS100 have a USB Host function that lets you connect directly to a DVD burner via a USB cable.

Then just press a button and you can copy the moving images you recorded from the SD Memory Card and HDD to a DVD disc in full-HD beauty.



Viewing

To view the disc you just burned, simply connect the HD camcorder to an HDTV via an HDMI mini cable.







VIERA (PZ850) Series

*The 12-cm DVD discs that you create with a DVD burner can be played on a Blu-ray Disc player.

Editing and Archiving Archive recordings by selecting the format with a PC and burning them onto a DVD.

The software included with the HD camcorder lets you burn full-HD recordings from an SD Memory Card and HDD onto a DVD disc, using your PC. You can make a copy either in the original high-definition AVCHD format, or in the standard-definition DVD-VIDEO format. Choose the one that matches your playback equipment.



Easy editing gives you more ways to enjoy video. HD Writer 2.6E

The HD camcorders also come with "HD Writer" software that makes it easy to edit your recordings using a PC. After editing, you can copy the results to a DVD disc in either the AVCHD or the MPEG2 format. Choose the one that best suits your playback equipment or how you intend to use your recordings. This easy-to-use software gives you more creative ways to enjoy the recordings you make.

Quick & Easy!

The software walks you through simple editing steps. You'll find it easy to edit your own videos even if you've never done it before.



System Requirements (SD100, HS100)

	HD Writer 2.6E	Card Reader Function (Mass Storage)
Interface	USB port (Hi-Speed USB (USB 2.0))	USB port
OS	Windows® 2000 SP4 Windows® XP SP2/SP3 Windows Vista® Home Basic/ Home Premium/Ultimate/Business SP1	Windows® 2000 SP4 Windows® XP SP2/SP3 Windows Vista® or SP1
CPU	Intel® Pentium® III 1.0 GHz or higher «When using playback function and MPEG2 conversion function» Intel® Core™2 Duo 2.16 GHz or higher, Intel® Pentium® D 3.2 GHz or higher recommended. AMD Athlon™ 64 X2 Dual- Core 5200+ or higher	Windows® 2000 / Windows® XP: Intel® Pentium® III 450 MH Hz or higher or Intel® Celeron® 400 MHz or higher Windows Vista® : 32-bit (x86) processor, 1 GHz or higher
Mac 05 X 10 4 -10 5	_	0

•Even if the system requirements mentioned in this brochure are fulfilled, some personal computers cannot be used. •This software is not compatible with Microsoft Windows 3.1, Windows 95, Windows 98, Windows 98 SE, Windows Me and Windows NT. •The supplied CD-ROM is available for Windows only. •Operation on an upgraded OS is not guaranteed. •When 2 or more USB devices are connected to a PC, or when devices are connected through USB hubs or by using extension cables, proper operation is not guaranteed. *Operation on an OS other than the one pre-installed is not guaranteed. *This software does not support the multi-boot environments. *This software does not support the multi-monitor environments. •Operation is not guaranteed on Microsoft Windows Vista® Enterprise, Windows XP Media Center Edition, Tablet PC Edition and not compatible with 64-bit operating systems. •Available with administrator account in Windows 2000 and Windows XP •Available with administrator account or standard account in WindowsVista® (Installation and uninstallation of the software requires an administrator account.) • Microsoft and Windows and WindowsVista® are either registered trademarks or trademarks or Microsoft Corporation in the United States and/or other countries. • IBM and PC/AT are registered trademarks of $International\ \dot{B} usiness\ Machines\ Corporation\ of\ the\ U.S. \bullet Intel@,\ CoreTM\ and\ Pentium@\ are\ registered\ trademarks$ or trademarks of Intel Corporation in the United States and the other countries. •Other names of systems and products mentioned in this brochure are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned. •AMD Athlon is a trademark of Advanced Micro Devices, Inc.

OPTIONAL ACCESSORIES



^{*1 •} The VW-VBG130-K and VW-VBG260-K come with a function to check whether the battery and unit can be safely used together. • Batteries made by other companies which have been certified by Panasonic may be used with these units, but we offer no guarantee as to the quality, performance or safety of such batteries. • Exercise care when purchasing batteries. Many fake or imitation batteries have been found among those sold at unusually low prices and those which customers cannot check for themselves before purchasing. Please confirm the latest information about hatteries on the following website. http://panasonic.co.in/pave/ global/cs/info/battery.html [This website is in English only.] *2 New ratings will be introduced sequentially based on the standard (IEC61960) issued by International Electrotechnical Cor no changes for battery performances. *3 Shoe adaptor required. *4 • An SDHC/SD Memory Card utilizes a portion of the storage space for formatting and other purposes. •Usable capacity will be less.

Main Parts and Controls







(13) (14) (15) (16)



- (1) Internal microphones
- (2) Accessory shoe
- (3) Zoom lever
- (4) Intelligent auto button
- (5) PRE-REC button
- (6) Built-in flash
- (7) Microphone terminal
- (8) Recording lamp
- (9) LEICA DICOMAR lens
 - (10) Multi manual ring
 - (12) Mode select switch
- - (14) O.I.S. button
- (15) Delete button
- - (11) Camera function button

- (19) LCD monitor
- (13) Speaker

(18) Photoshot button

- (16) Cursor button
- (17) Menu button
- (22) Card slot
- (23) Component terminal

20 Disc copy button

(21) SD card open lever

- Audio-video/Headphone output terminal
- USB terminal/ HDMI mini connector
- (26) DC input terminal
- (27) Viewfinder (34) Grip belt
- (28) Eyepiece corrector dial (29) LCD/EVF select switch
- (32) Mode dial (33) Shoulder strap fixture

(31) Recording start/stop button

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(30) Status indicator