



## 4K Memory Card Camera Recorder

# AG-UX180

4K/UHD/FHD Camcorder with 24mm industry-best wide-angle\*, 20x optical zoom and super-slow motion recording

### Key Features

20x optical zoom and 24mm industry-best wide-angle\* LEICA DICOMAR lens

1.0-type 4K MOS Sensor with 4K 24p and UHD 60p/50p recording capabilities

Intelligent Auto-Focus supports smooth and fast focusing when shooting in 4K

High-Resolution Intelligent Zoom increases zooming capability by 30x whilst maintaining high resolution

Super-Slow Motion recording at 120fps in FHD





## AG-UX180

<https://eu.connect.panasonic.com/dk/en/products/broadcast-proav/ag-ux180>

### General

<b>Power</b>	DC 7.28 V (when the battery is used)
	DC 12 V (when the AC adaptor is used)
<b>Power Consumption</b>	19.7 W (when the LCD monitor is used)
<b>Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Operating Humidity</b>	10 % to 80 % (no condensation)
<b>Weight</b>	Body: Approx. 2.0 kg (4.41 lb)
	(body only, excluding lens hood, battery, and accessories)
	Shooting: Approx. 2.4 kg (5.29 lb)
<b>Dimensions</b>	(including lens hood, battery, and eye cup)
	173 mm (W) x 195 mm (H) x 346 mm (D)
	(6-13/16 inches x 7-11/16 inches x 13-5/8 inches)
	(excluding protrusion and eye cup)
	173 mm (W) x 195 mm (H) x 392 mm (D)
(6-13/16 inches x 7-11/16 inches x 15-7/16 inches)	
(including eye cup, excluding protrusion)	
<b>Camera Unit</b>	
<b>Pickup Devices</b>	1.0-type (effective size) MOS solid state image sensor
<b>Effective Pixels</b>	8.79 megapixel: UHD/FHD 59.94p/29.97p/23.98p
	9.46 megapixel: 4K 24p
<b>Lens</b>	Optical image stabilizer lens, optical 20x motorized zoom
	F2.8 to F4.5 (f=8.8 mm to 176 mm)
	35 mm equivalent:
	f=25.4 mm to 508.0 mm: UHD/FHD 59.94p/29.97p/23.98p
	f=24.0 mm to 480.0 mm: 4K24.00p
	Filter Diameter: 67 mm
	ND Filter: 4 Positions (OFF, 1/4, 1/16, 1/64)
	IR Filter: Incorporates the ON/OFF control function
Shortest Shooting Distance (M.O.D.):	
Approx. 1.0 m from the front lens	
<b>Gain Setting</b>	L/M/H selector switch
	Standard mode: 0 dB to 24 dB (Adjustable in 1 dB steps)
	(Automatic setting can be assigned to L/M/H)
	Extended ON: -3 dB to 24 dB (Adjustable in 1 dB steps)
	(Automatic setting can be assigned to L/M/H)
	30 dB and 36 dB switched
(when assigning [S. GAIN] to the USER button)	
<b>Color Temperature Setting</b>	ATW, ATW LOCK, Ach, Bch,
	preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)

<b>Shutter Speed</b>	<p>When [SYSTEM MODE] = 59.94 Hz</p> <p>60i/60p mode: 1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.</p> <p>30p mode: 1/30 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.</p> <p>24p mode: 1/24 sec., 1/48 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.</p> <p>When [SYSTEM MODE] = 50.00 Hz</p> <p>50i/50p mode: 1/50 sec., 1/60 sec., 1/100 sec., 1/125 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.</p> <p>25p mode: 1/25 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/125 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.</p>
<b>Shutter Speed (Slow Shutter)</b>	<p>When [SYSTEM MODE] = 59.94 Hz</p> <p>60i/60p mode: 1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec., 1/30 sec., 30p mode: 1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec.</p> <p>24p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.</p> <p>When [SYSTEM MODE] = 50.00 Hz</p> <p>50i/50p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec., 1/25 sec.</p> <p>25p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.</p>
<b>Shutter Speed (Synchro Scan)</b>	<p>When [SYSTEM MODE] = 59.94 Hz</p> <p>59.94i/59.94p mode: 1/60.0 sec. to 1/249.7 sec.</p> <p>29.97p mode: 1/30.0 sec. to 1/249.7 sec.</p> <p>23.98p mode: 1/24.0 sec. to 1/249.6 sec.</p> <p>24.00p mode: 1/24.0 sec. to 1/249.9 sec.</p> <p>When [SYSTEM MODE] = 50.00 Hz</p> <p>50i/50p mode: 1/50.0 sec. to 1/250.0 sec.</p> <p>25p mode: 1/25.0 sec. to 1/250.0 sec.</p>
<b>VFR Recording Frame Rate</b>	<p>When [SYSTEM MODE] = 59.94 Hz</p> <p>30p mode: 2, 15, 26, 28, 30, 32, 34, 45, 60 (fps)</p> <p>24p mode: 2, 12, 20, 22, 24, 26, 28, 36, 48, 60 (fps)</p> <p>SYSTEM MODE = 50.00, Hz</p> <p>25p mode: 2, 12, 21, 23, 25, 27, 30, 37, 50 (fps)</p>
<b>Super-Slow Motion Recording</b>	<p>When [SYSTEM MODE] = 59.94 Hz</p> <p>Shooting frame rate FHD 120 fps, Slow motion effect 1/4 speed (when 30p mode), 1/5 speed (when 24p mode)</p> <p>When [SYSTEM MODE] = 50.00 Hz</p> <p>Shooting frame rate FHD 100fps, Slow motion effect 1/5 speed (when 25p mode)</p>
<b>Sensitivity</b>	<p>When [HIGH SENS.] mode</p> <p>F11 (2000 lx, 3200 K, 89.9 % reflect, 1080/59.94i)</p> <p>F12 (2000 lx, 3200 K, 89.9 % reflect, 1080/50i)</p>
<b>Minimum Subject Illumination</b>	<p>0.2 lx (F2.8, gain 18 dB, Manual slow shutter 1/25,</p> <p>When [HIGH SENS.] mode)</p>
<b>Digital Zoom</b>	2x/5x/10x, i.Zoom (max. 30x)
<b>Lens Hood</b>	Hood with lens cover
<b>Memory Card Recorder</b>	
<b>Recording Media*1</b>	SDHC memory card (4 GB to 32 GB), SDXC memory card (48 GB to 128 GB), UHS-I supported
<b>Recording Slot</b>	Slot x 2
<b>System Format</b>	59.94 Hz/50 Hz
<b>Motion Picture Recording</b>	Recording Format: MOV, MP4, AVCHD
<b>Recording Mode</b>	Please see page 07 for the Recording Format table.
<b>Recording Time</b>	Please see back cover for the Recording Time table.
<b>2 Slot Functions</b>	Relay, Simultaneous, Background*2, Dual codec
<b>Still Picture Recording Mode</b>	JPEG (DCF/Exif2.2)
<b>Still Picture Recording</b>	<p>Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9)</p>

<b>Digital Video</b>	
<b>Video Signal for External Output</b>	8bit 4:2:2*3
<b>Recording Video Signal</b>	8bit 4:2:0
<b>Video Compression Format</b>	MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD)
<b>Digital Audio</b>	
<b>Recording Audio Signal</b>	48 kHz/16 bit 2CH
<b>Audio Signal Format</b>	LPCM (MOV/MP4), Dolby Digital (AVCHD)
<b>Headroom</b>	12 dB
<b>Dual Codec</b>	
<b>Recording Method</b>	MOV, MP4
<b>Video Compression Format (Dual Codec)</b>	MPEG-4 AVC/H.264 High Profile
<b>Audio Signal Format (Dual Codec)</b>	LPCM
<b>Recording Format</b>	Please see page 08 for the Dual Codec Recording table.
<b>Recording Time (Dual Codec)</b>	32 GB: Approx. 1 hour 20 min.(FHD 50Mbps) Approx. 8 hours 30 min.(FHD 8Mbps) 64 GB: Approx. 2 hour 40 min.(FHD 50Mbps) Approx. 17 hours 10 min.(FHD 8Mbps) 128 GB: Approx. 5 hours 20 min.(FHD 50Mbps) Approx. 35 hours(FHD 8Mbps)
<b>Video Input/Output</b>	
<b>SDI Out</b>	BNC x 1, 0.8 V [p-p], 75 Ω, 3 G/1.5 G, HD SDI, SD SDI supported Output format: 1080/59.94p LEVEL-A/50.00p LEVEL-A, 1080/29.97PsF/25.00PsF/24.00PsF/23.98PsF, 1080/59.94i/50.00i, 720/59.94p/50.00p, 480/59.94i, 576/50.00i
<b>Video Output</b>	AV connector x 1
<b>HDMI</b>	Type A connector x 1, VIERA Link not supported Output format: 2160/59.94p/50.00p/29.97p/25.00p/24.00p/23.98p, 1080/59.94p/50.00p/29.97p/25.00p/24.00p/23.98p/59.94i/50.00i, 720/59.94p/50.00p, 480/59.94p, 576/50.00p
<b>Audio Input</b>	
<b>Built-in Microphone</b>	Stereo microphone
<b>XLR Input</b>	XLR (3-pin) x 2 (INPUT1, INPUT2) Input high impedance, LINE/MIC/MIC+48V (switchable SW) LINE: +4 dBu/0 dBu (switchable menu) MIC: -40 dBu/-50 dBu/-60 dBu (switchable menu)
<b>Audio Output</b>	
<b>SDI</b>	2 ch (LPCM) switchable gain: 0 dB/-6 dB/-12 dB
<b>HDMI (Audio Output)</b>	2 ch (LPCM)
<b>Audio Out</b>	AV connector x 1, Output level: 600 Ω, 316 mV
<b>Headphone</b>	3.5 mm diameter stereo mini jack x 1
<b>Speaker</b>	20 mm diameter, round x 1
<b>Other Input/Output</b>	
<b>Camera Remote</b>	2.5 mm diameter super mini jack x1 (ZOOM, S/S) 3.5 mm diameter mini jack x1 (FOCUS, IRIS)
<b>TC Preset In/Out</b>	BNC x 1, Used as the input and output terminals Input: 1.0 V to 4.0 V [p-p] 10 KΩ Output: 2.0 V ± 0.5 V [p-p] low impedance
<b>USB 3.0 (Host)</b>	Standard-A connector, 9-pin, external media device connection*4, bus power supported
<b>USB 3.0 (Device)</b>	Micro-B connector, 10-pin, Mass storage function (read only)
<b>DC In 12V</b>	DC 12V (11.4V to 12.6V) EIAJ Type4
<b>Monitor/Viewfinder</b>	
<b>LCD Monitor</b>	3.5 type LCD color monitor; Approx. 1,150,000 dots
<b>View Finder</b>	0.39 type OLED (organic EL display) Approx. 2,360,000 dots, video display area: approx. 1,770,000 dots
<b>Included Accessories</b>	Battery (AG-VBR59), Battery charger (AG-BRD50), AC adaptor, Microphone holder kit, AC cable, Eye cup, Lens hood, INPUT terminal cap, Operating instructions
<b>Note</b>	*1: An SD memory card with a capacity of UHS Speed Class 3 (U3) is required to shoot videos with a bit rate of 100 Mbps or higher. An SDXC memory card with a capacity of 64 GB or more and UHS Speed Class 3 (U3) is required to shoot UHD 2160/59.94p/50.00p videos with a bit rate of 150 Mbps or higher. *2: It supports in record mode less than 50 Mbps. *3: Output of UHD/59.94p/50.00p becomes 8 bit 4:2:0. *4: External media devices with a capacity of below 32 GB or a capacity above 2 TB cannot be used.