

Panasonic Life Solutions India Pvt. Ltd



4K Professional Camcorder AG-CX18

SENSOR SECTION

|                  |                              |
|------------------|------------------------------|
| Image Sensor     | 1/2.5-type (inch) MOS Sensor |
| Effective Pixels | 8.29 megapixels              |

LENS SECTION

|                              |                 |
|------------------------------|-----------------|
| F Value                      | F1.8 — 4.0      |
| Optical Zoom                 | 24x             |
| Focal Length                 | 4.12 — 98.9 mm  |
| 35 mm Film Camera Equivalent | 25.0 — 600.0 mm |
| Filter Diameter              | 62 mm           |
| Lens Brand                   | Panasonic Lens  |

CAMERA SECTION

|                      |                                                                              |                    |
|----------------------|------------------------------------------------------------------------------|--------------------|
| Minimum Illumination | 1.5 lx (F1.8, Super Gain +, Shutter Speed 1/30 sec)                          |                    |
| Focus                | Auto / Manual                                                                |                    |
| Zoom                 | i.Zoom OFF                                                                   | 24x                |
|                      | i.Zoom ON                                                                    | Max. 48x (UHD 32x) |
|                      | Digital Zoom                                                                 | 2x / 5x / 10x      |
| ND Filter            | Clear, 1/4, 1/16, 1/64                                                       |                    |
| IR Filter            | Incorporates the ON/OFF control function                                     |                    |
| White Balance        | Auto / ATW LOCK / 3200K / 5600K / VAR (2000K—15000K) / Ach Fixed / Bch Fixed |                    |

|                                        |                                             |                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shutter Speed</b>                   | <b>59.94 Hz mode</b>                        | 60i/60p: 1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec<br>30p: 1/30, 1/50, 1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec<br>24p: 1/24, 1/48, 1/50, 1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec |
|                                        | <b>50.00 Hz mode</b>                        | 50i/50p: 1/50, 1/60, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec<br>25p: 1/25, 1/50, 1/60, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec                                                                                                                               |
| <b>Slow Shutter Speed</b>              | <b>59.94 Hz mode</b>                        | 59.94i/59.94p: 1/8, 1/15, 1/30 sec<br>29.97p: 1/8, 1/15 sec<br>23.98p: 1/6, 1/12 sec                                                                                                                                                                                                                                                                                                 |
|                                        | <b>50.00 Hz mode</b>                        | 50i/50p: 1/6, 1/12, 1/25 sec<br>25p: 1/6, 1/12 sec                                                                                                                                                                                                                                                                                                                                   |
| <b>Super Slow Recording Frame Rate</b> | <b>59.94 Hz mode</b>                        | FHD 120 fps (1/2 speed at 60p, 1/4 speed at 30p, 1/5 speed at 24p)                                                                                                                                                                                                                                                                                                                   |
|                                        | <b>50.00 Hz mode</b>                        | FHD 100 fps (1/2 speed at 50p, 1/4 speed at 25p)                                                                                                                                                                                                                                                                                                                                     |
| <b>Iris</b>                            | Auto / Manual                               |                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Image Stabilizer</b>                | Ball O.I.S., 5-Axis HYBRID O.I.S. (UHD/FHD) |                                                                                                                                                                                                                                                                                                                                                                                      |

## RECORDING SECTION

|                                  |                                                                                                                                             |                                                                                                                                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recording Media</b>           | SDHC/SDXC Memory Card (Up to 512GB), UHS-I compatible                                                                                       |                                                                                                                                                                                                                                           |
| <b>Recording Format</b>          | MOV, MP4, AVCHD                                                                                                                             |                                                                                                                                                                                                                                           |
| <b>Video Compression Method</b>  | MOV/MP4: H.264/MPEG-4 AVC High Profile, H.265/MPEG-4 HEVC Main10 Profile<br>AVCHD: H.264/MPEG-4 AVC High Profile                            |                                                                                                                                                                                                                                           |
| <b>Audio Compression Method</b>  | MOV: LPCM, 48kHz/24bit, 2ch<br>MP4: AAC, 48kHz/16bit, 2ch<br>AVCHD: Dolby Audio, 48kHz/16bit, 2ch                                           |                                                                                                                                                                                                                                           |
| <b>2-slot Function</b>           | Relay recording, simultaneous recording, background recording (MOV/MP4 FHD only), dual codec recording*<br>*To be added by firmware update. |                                                                                                                                                                                                                                           |
| <b>System Frequency</b>          | 59.94Hz / 50.00Hz                                                                                                                           |                                                                                                                                                                                                                                           |
| <b>Recording / Playback Mode</b> | <b>MOV (HEVC)</b>                                                                                                                           | [4:2:0 10bit] UHD 3840x2160 59.94p/50.00p HEVC LongGOP 200M: Average 200Mbps (VBR)<br>UHD 3840x2160 59.94p/50.00p HEVC LongGOP 100M: Average 100Mbps (VBR)<br>UHD 3840x2160 29.97p/25.00p/23.98p HEVC LongGOP 150M: Average 150Mbps (VBR) |
|                                  | <b>MOV</b>                                                                                                                                  | [4:2:0 8bit] UHD 3840x2160 59.94p/50.00p 420 LongGOP 150M: Average 150Mbps (VBR)<br>UHD 3840x2160 29.97p/25.00p/23.98p 420 LongGOP 100M: Average 100Mbps (VBR)<br>[4:2:2 10bit] UHD 3840x2160 29.97p/25.00p/23.98p 422 LongGOP 150M:      |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <p>Average 150Mbps (VBR)</p> <p>FHD 1920x1080 59.94p/50.00p ALL-I 200M: Average 200Mbps (VBR)</p> <p>FHD 1920x1080 59.94i/50.00i ALL-I 100M: Average 100Mbps (VBR)</p> <p>FHD 1920x1080 29.97p/25.00p/23.98p ALL-I 100M: Average 100Mbps (VBR)</p> <p>FHD 1920x1080 59.94p/50.00p 422 LongGOP100M: Average 100Mbps (VBR)</p> <p>FHD 1920x1080 59.94i/50.00i/29.97p/25.00p/23.98p 422 LongGOP 50M: Average 50Mbps (VBR)</p>                        |
| <b>MP4 (HEVC)</b> | <p>[4:2:0 10bit] UHD 3840x2160 59.94p/50.00p HEVC LongGOP 100M: Average 100Mbps (VBR)</p> <p>UHD 3840x2160 29.97p/25.00p/23.98p HEVC LongGOP 72M: Average 72Mbps (VBR)</p>                                                                                                                                                                                                                                                                        |
| <b>MP4</b>        | <p>[4:2:0 8bit] UHD 3840x2160 29.97p/25.00p/23.98p 420 LongGOP 72M: Average 72Mbps (VBR)</p> <p>FHD 1920x1080 59.94p/50.00p/23.98p/59.94i*/50.00i* 420 LongGOP 50M: Average 50Mbps (VBR)</p> <p>FHD 1920x1080 59.94p*/50.00p* LongGOP 28M: Average 28Mbps (VBR)</p> <p>FHD 1920x1080 23.98p* LongGOP 24M: Average 24Mbps (VBR)</p> <p>FHD 1920x1080 29.97p*/25.00p* LongGOP 20M: Average 20Mbps (VBR)</p> <p>*To be added by firmware update.</p> |
| <b>AVCHD</b>      | <p>[4:2:0 8bit] PS 1920x1080 59.94p/50.00p: Average 25Mbps (VBR)</p> <p>PH 1920x1080 59.94i/50.00i/23.98p: Average 21Mbps (VBR)</p> <p>HA 1920x1080 59.94i/50.00i: Average 17Mbps (VBR)</p> <p>PM 1280x720 59.94p/50.00p: Average 8Mbps (VBR)</p>                                                                                                                                                                                                 |
| <b>P2</b>         | —                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P2 Proxy</b>   | —                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## DUAL CODEC SECTION \*To be added by firmware update.

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recording Format</b>         | MOV/MP4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Video Compression Method</b> | H.264/MPEG-4 AVC High Profile, 420LongGOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Audio Compression Method</b> | MOV:LPCM 48kHz/24bit 2ch, MP4:AAC 48kHz/16bit 2ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Recording format</b>         | <p><b>FHD 50Mbps</b></p> <p>[Main recording] MOV: 2160-29.97p, 25.00p, 23.98p/420LongGOP</p> <p>[Sub recording] MOV: FHD 29.97p, 25.00p, 23.98p/420LongGOP</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                 | <p><b>FHD 8Mbps</b></p> <p>[Main recording] MOV: 2160-29.97p, 25.00p, 23.98p/420LongGOP</p> <p>MOV: 1080-59.94p, 50.00p, 59.94i, 50.00i/422LongGOP</p> <p>MOV: 1080-59.94p, 50.00p, 59.94i, 50.00i, 29.97p, 25.00p, 23.98p/422ALL-I</p> <p>MP4: 2160-29.97p, 25.00p, 23.98p/420LongGOP</p> <p>MP4: 1080-59.94p, 50.00p, 59.94i, 50.00i, 23.98p/420LongGOP</p> <p>[Sub recording] MOV: FHD/59.94p, 50.00p, 59.94i, 50.00i, 29.97p, 25.00p, 23.98p/420LongGOP</p> <p>MP4: FHD-59.94p, 50.00p, 59.94i, 50.00i, 29.97p, 25.00p, 23.98p/420LongGOP</p> <p>* The file format and frame rate for sub recording is the same as for main recording.</p> |

## LIVE STREAMING

|                                 |                                                                                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Video Compression Format</b> | H.264/MPEG-4 AVC Main Profile, High Profile                                                                      |
|                                 | —                                                                                                                |
| <b>Video Resolution</b>         | 1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 320 x 180                                                         |
|                                 | —                                                                                                                |
| <b>Streaming Method</b>         | Unicast, Multicast                                                                                               |
|                                 | —                                                                                                                |
| <b>Frame Rate</b>               | System frequency = 59.94 Hz: 60 fps, 30 fps, 24fps<br>System frequency = 50.00 Hz: 50 fps, 25 fps                |
|                                 | —                                                                                                                |
| <b>Bit Rate</b>                 | 24 Mbps, 20 Mbps, 16 Mbps, 14 Mbps, 8 Mbps, 6 Mbps, 4 Mbps, 3 Mbps, 2 Mbps, 1.5 Mbps, 1 Mbps, 0.7 Mbps, 0.5 Mbps |
|                                 | —                                                                                                                |
| <b>Audio Compression Format</b> | AAC-LC: 48 kHz/16 bit 2ch                                                                                        |
|                                 | —                                                                                                                |
| <b>Network Protocol</b>         | RTSP/RTP/RTMP/RTMPS                                                                                              |

## NDI

## STILL IMAGE SECTION

|                             |                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recording Format</b>     | JPEG (DCF/Exif2.2)                                                                                                                                   |
| <b>Recording Image Size</b> | Video Playback Mode: 3840 x 2160 (16:9), 1920 x 1080 (16:9), 1280 x 720 (16:9)<br>* Only images cut from video in video playback mode are supported. |

## GENERAL SECTION

|                                                |                                                                                                                                                                                                  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power Supply</b>                            | 7.28V (Battery) / 9.0V (DC IN)                                                                                                                                                                   |
| <b>Power Consumption</b>                       | Recording: 19.8W, Charging: 15.5W                                                                                                                                                                |
| <b>Dimensions (W x H x D)</b>                  | Approx. 129 x 159 x 267 mm (5.1 x 6.3 x 10.5 inch) (including handle unit, lens hood, and eye cup, excluding microphone holder)                                                                  |
| <b>Weight</b>                                  | Body: approx. 0.85kg (1.88 lb) (body only, excluding handle unit, lens hood, battery, and eye cup)<br>Shooting: approx. 1.5kg (3.31 lb) (including handle unit, lens hood, battery, and eye cup) |
| <b>LCD Monitor (Electrostatic Touch Panel)</b> | 8.8 cm (3.5-inch) Wide LCD monitor (About 2,760,000 dots) (For Europe)<br>3.5-inch Wide LCD monitor (About 2,760,000 dots) (For North America / Asia)                                            |

|                        |                                                                                                                                                                                                                                       |                      |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Viewfinder</b>      | 1.0 cm (0.39-inch) Wide OLED EVF (About 2,360,000 dots), video display area: About 1,770,000 dots (For Europe)<br>0.39-inch Wide OLED EVF (About 2,360,000 dots), video display area: About 1,770,000 dots (For North America / Asia) |                      |
| <b>Manual Ring</b>     | Focus / Zoom or Iris                                                                                                                                                                                                                  |                      |
| <b>Accessory Shoe</b>  | Yes                                                                                                                                                                                                                                   |                      |
| <b>LED Video Light</b> | <b>Average Illumination</b>                                                                                                                                                                                                           | Approx. 70 lx (1.0m) |
|                        | <b>Irradiation Angle</b>                                                                                                                                                                                                              | Approx. 30°          |
|                        | <b>Color Temperature</b>                                                                                                                                                                                                              | Approx. 4600K        |

## INTERFACE SECTION

|                           |                            |                                                                                                                                                                                                                                                                                                                 |
|---------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video</b>              | <b>SDI OUT</b>             | BNC x 1, 0.8V[p-p], 75Ω, 3G/1.5G HD-SDI, supports time code output and SDI remote recording control<br>Output format 4:2:2 10bit:<br>1920x1080/59.94p LEVEL-A, 50.00p LEVEL-A, 59.94i, 50.00i, 29.97p, 29.97PsF, 25.00p, 25.00PsF, 23.98p, 23.98PsF<br>1280x720/59.94p, 50.00p                                  |
|                           | <b>HDMI</b>                | Type A x 1 (VIERA Link not supported), supports time code output and remote recording control<br>Output format: 4:2:2 10bit:<br>3840x2160/59.94p, 50.00p, 29.97p, 25.00p, 23.98p<br>1920x1080/59.94p, 50.00p, 59.94i, 50.00i, 29.97p, 25.00p, 23.98p<br>1280x720/59.94p, 50.00p, 720x480/59.94p, 720x576/50.00p |
| <b>Audio Input</b>        | <b>Built-in Microphone</b> | Stereo microphone                                                                                                                                                                                                                                                                                               |
|                           | <b>Microphone Input</b>    | 3.5mm stereo mini jack x 1                                                                                                                                                                                                                                                                                      |
|                           | <b>XLR Input</b>           | XLR (3 pins) x 2<br>Input high impedance, LINE/MIC/MIC+48 V (switchable SW)<br>LINE: +4dBu/0dBu (switchable menu)<br>MIC: -40dBu/-50dBu/-60dBu (switchable menu)                                                                                                                                                |
| <b>Audio Output</b>       | <b>SDI OUT</b>             | 2 ch (LPCM)                                                                                                                                                                                                                                                                                                     |
|                           | <b>HDMI</b>                | 2 ch (LPCM)                                                                                                                                                                                                                                                                                                     |
|                           | <b>Headphone</b>           | 3.5 mm diameter stereo mini jack x 1                                                                                                                                                                                                                                                                            |
|                           | <b>Speaker</b>             | 15 mm diameter, round x 1                                                                                                                                                                                                                                                                                       |
| <b>Other Input/Output</b> | <b>Camera Remote</b>       | 2.5mm diameter super mini jack x 1                                                                                                                                                                                                                                                                              |
|                           | <b>USB</b>                 | Type-C x 1, High-speed USB (USB2.0), HOST/DEVICE combined (switchable menu)<br>HOST: Bus power supported (5V, 0.5A), USB tethering function, USB ethernet adaptor supported<br>DEVICE: Mass storage function (read only)                                                                                        |

|       |                                         |
|-------|-----------------------------------------|
| DC IN | 9V/3A, USB Type-C x 1, USB-PD supported |
|-------|-----------------------------------------|

Wi-Fi

|           |                       |
|-----------|-----------------------|
| Standard  | IEEE 802.11a/b/g/n/ac |
| Frequency | 2.4GHz/5GHz band      |

STANDARD ACCESSORY

|                           |                   |
|---------------------------|-------------------|
| AC Adaptor                | Yes (CX18ED only) |
| AC Cable                  | Yes (CX18ED only) |
| Rechargeable Battery Pack | Yes (5,900mAh)    |
| Handle Unit               | Yes (detachable)  |
| Battery Charger           | —                 |
| IR Remote                 | —                 |
| HDMI Cable                | —                 |
| USB Cable (C-C)           | Yes (CX18ED only) |
| Microphone Holder         | Yes               |
| Microphone Holder Screws  | Yes               |
| Input Terminal Cap        | —                 |
| Eye Cup                   | Yes               |
| Lens Hood                 | Yes               |
| Editing Software          | —                 |