



**Panasonic**  
BUSINESS



# THE NEXT GENERATION OF HIGH QUALITY IMAGES

## THE 4K RECORDING SYSTEM

The memory card portable recorder AG-MDR25EJ  
The compact camera head AG-MDC20GJ

- » High-Definition 4K Image Acquisition
- » IP Streaming / IP Control (LAN Terminal)
- » Hybrid 5-axis image stabilizer
- » Recording on SDXC cards (double SD slots)
- » Touch-Panel LCD Monitor
- » Compliance with Medical Safety Standards (IEC60601)



AVCHD™  
Progressive

HDMI

SDXC™

DOLBY AUDIO™



# SURGICAL VIDEO RECORDING SYSTEM

## SYSTEM FEATURES AG-MDR25EJ AND AG-MDC20GJ



### Compact & Lightweight

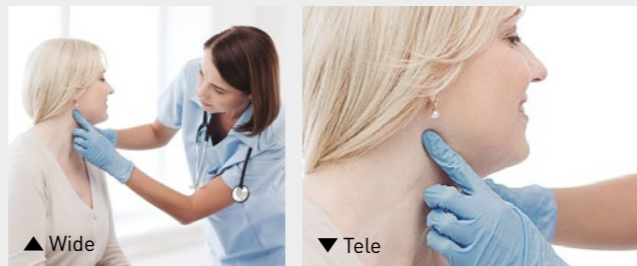
- » Compact camera head for flexible installation
- » Lightweight battery-drive recorder
- » Touch-Panel LCD monitor



Touch Panel LCD (User Button Setting Example)

### High-Resolution Images for Surgical Recording

- » High-resolution 4K (UHD) /FHD & Progressive Image Recording
- » Adjustable Image Quality under surgical light
- » 29.5mm wide-angle optical 20x zoom



Example: Angle of view for 20x optical zoom

- » Stable Images with a Five-Axis Hybrid Image Stabilizer



Five-Axis Hybrid Image Stabilizer Diagram

### Double SD Memory Card Slots and Relay Recording

- » Double SD Memory Card Slots (SDXC memory Card)
- » Versatile Recording / Playback Functions

### Reliability for Medical Applications

- » Compliance with Medical Standards (IEC60601)
- » Control Section Membrane Sheet (easy disinfection)
- » Lens Protector



Lens Protector (Standard Equipment)

### Recording Format

Rec. Mode	Image Size	Bit Rate	Frame Rate		Audio	Recording Time (approx.)
			59.94 Hz	50.00 Hz		
MP4*	4K (UHD) 3840x2160	50 Mbps (VBR)	29.97p 23.98p	25p	LPCM 1.5Mbps	5 hour 20 minutes
PS		25 Mbps (VBR)	59.94p	50p	Doiby Audio 384kbps	11 hours
PH	1920x1080	21 Mbps (VBR)	59.94i 23.98p	50i		12 hour 30 minutes
HA		17 Mbps (VBR)	59.94i	50i		17 hours
HE	1440x1080	5 Mbps (VBR)	59.94i	50i	Doiby Audio 256kbps	56 hours
PH		21 Mbps (VBR)	59.94p	50p	Doiby Audio 384kbps	12 hour 30 minutes
PM	1280x720	8 Mbps (VBR)	59.94p	50p	Doiby Audio 256kbps	35 hours

\*When using the AG-MDC20GJ. Size of the memory card:128GB SDXC memory card

### Versatile Interface: IP Streaming and IP Control

- » LAN Terminal for IP Streaming and IP Control

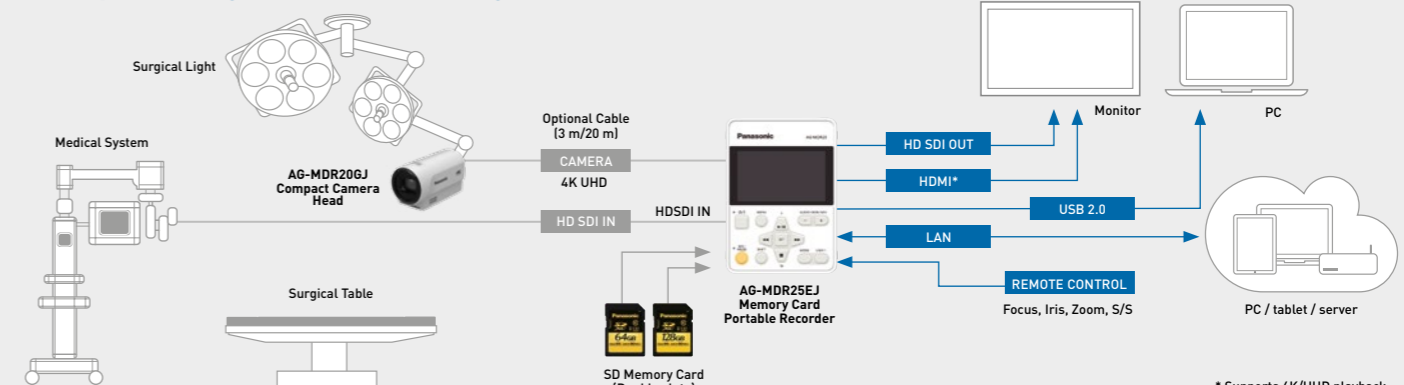


IP Control (Tablet Screen Example)

IP Control (Web Browser Screen Example)

- » SDI Input and SDI/HDMI Outputs
- » Diverse Interfaces (remote terminal, audio input, USB 2.0)

### Example of Surgical Video Recording System



\* Supports 4K/UHD playback

# SPECIFICATION

## AG-MDR25EJ

General	
<b>Power</b>	DC 7.28 V (with battery), DC 12 V (with AC adaptor)
<b>Power consumption</b>	In standalone condition: 1.1 A (with battery), 0.7 A (with AC adaptor) With the optional AG-MDC20GJ Camera Head: 2.2 A (with battery), 1.4 A (with AC adaptor)
<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>	Approx. 590 g (1.3 lbs)
<b>Dimensions (W x H x D)</b>	100 mm x 53.5 mm x 104 mm (excl. protrusion)
Memory Card Recorder	
<b>Recording media</b>	SDHC memory card (4 GB to 32 GB) , SDXC memory card (48 GB to 128 GB)
<b>Recording slot</b>	2 Slots
<b>System format</b>	59.94 Hz / 50.00 Hz
<b>Motion recording</b>	MP4, AVCHD
<b>Still picture recording</b>	JPEG (DCF/Exif2.2)
<b>Video Input/ Output</b>	SDI IN, SDI OUT, HDMI OUT
<b>Audio Input/ Output</b>	MIC/ LINE IN, SDI OUT, HDMI OUT, Headphone, Speaker
Monitor	
<b>LCD monitor</b>	3.5-type LCD monitor, approx. 1,150,000 dots
AC Adapter	
<b>Rated input voltage</b>	AC 100 V – 240 V, 50 Hz/60 Hz, 1.2 A
<b>Rated output</b>	DC 12V, 3.0A
<b>Weight</b>	Approx. 225 g (0.496 lbs)
<b>Dimensions</b>	115 mm (W) x 37 mm (H) x 57 mm (D) (excl. DC card)

## AG-MDC20GJ

General	
<b>Power</b>	DC 9 V (supplied from the AG-UMR20)
<b>Power consumption</b>	0.6 A
<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. 325 g (0.717 lbs) Shooting: approx. 333 g (0.734 lbs) (incl. protector)
<b>Dimensions (W x H x D)</b>	Body: 64 mm x 72 mm x 131 mm (excl. protrusion)
Camera	
<b>Pickup device</b>	1/2.3-type MOS solid state image sensor (Total pixels: approx. 12.76 megapixels)
<b>Lens</b>	Zoom: optical 20x motorized zoom Fvalue: F1.8 to F3.6, Focal length: f= 4.08 mm to 81.6 mm
<b>Zoom</b>	i. Zoom: x30 (HD), x22 (4K) Digital zoom: x1.4, x2, x4, x6, x8
<b>Image stabilizer</b>	Optical image stabilizer (HD/4K) 5-Axis hybrid image stabilizer (HD)
<b>Minimum illumination</b>	0.2 lx (slow shutter: 1/2 sec., gain: +36 dB)
<b>Horizontal resolution (Typ, Center)</b>	1,300 TV (HDMI output 2160/29.97p, when 25.00p playback) 1,000 TV (HDMI output 1080/59.94p, when 50.00p playback)
Input/Output	
<b>AUDIO IN</b>	Built-in microphone (2 CH stereo)
<b>Connector</b>	20 pin dedicated interface (to the AG-MDR25EJ)

\* 4K acquisition is possible only when connected to the AG-MDC20 Compact Camera Head. 4K refers to 3840 x 2160 resolution. The maximum resolution in 4K shooting mode via HDMI/SDI output is FHD (1920 x 1080) 59.94i/50i. AVCHD Progressive and the AVCHD Progressive logo are registered trademarks of Sony Corporation and Panasonic Corporation. HDMI and the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC. SDXC Logo is a trademark of SD-3C, LLC. Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories. Specifications are subject to change without notice.

## System Components



### AG-MDR25EJ

- » High-Definition 4K Image Acquisition
- » IP Streaming / IP Control (LAN Terminal)
- » LCD Touch Panel
- » Recording on SDXC cards (double SD slots)



### AG-MDC20GJ

- » High-Definition 4K Image Acquisition
- » IP Remote Control 16 Axis color correction
- » Hybrid 5-axis image stabilizer

## Options



- » **AG-C20003G** 3 m (9.84 ft)
- » **AG-C20020G** 20 m (65.62 ft)
- » Camera Head Option Cable



# Panasonic BUSINESS

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