



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)

Progressive

Cable is optional



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)

Reliability for Medical Applications

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



Lens Protector (Standard Equipment)

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



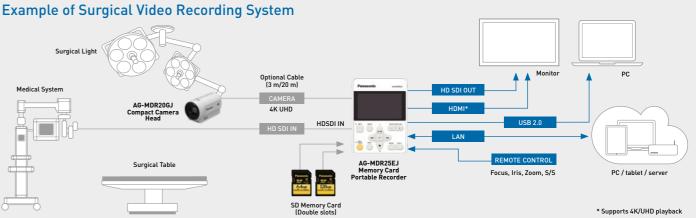
Five-Axis Hybrid Image Stabilizer Diagram

Double SD Memory Card Slots and Relay Recording

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

Recording Format								
Rec. Mode		Image Size	Bit Rate	Frame Rate		A	Recording	
				59.94 Hz	50.00 Hz	Audio	Time (approx.)	
MP4*	4K (UHD)	3840×2160	50 Mbps (VBR)	29.97p 23.98p	25p	LPCM 1.5Mbps	5 hour 20 minutes	
AVCHD	PS	1920×1080	25 Mbps (VBR)	59.94p	50p	Doiby Audio 384kbps	11 hours	
	PH		21 Mbps (VBR)	59.94i 23.98p	50i		12 hour 30 minutes	
	HA		17 Mbps (VBR)	59.94i	50i	Doiby Audio	17 hours	
	HE	1440×1080	5 Mbps (VBR)	59.94i	50i	256kbps	56 hours	
	РН	1280×720	21 Mbps (VBR)	59.94p	50p	Doiby Audio 384kbps	12 hour 30 minutes	
	РМ		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)

SPECIFICATION

AG-MDR25EJ

General					
Power	DC 7.28 V (with battery), DC 12 V (with AC adaptor)				
Power consumption	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)				
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)				
Operating humidity	10 % to 80 % (no condensation)				
Weight	Approx. 590 g (1.3 lbs)				
Dimensions (W x H x D)	100 mm x 53.5 mm x 104 mm (excl. protrusion)				
Memory Card Recorder					
Recording media	SDHC memory card (4 GB to 32 GB) , SDXC memory card (48 GB to 128 GB)				
Recording slot	2 Slots				
System format	59.94 Hz / 50.00 Hz				
Motion recording	MP4, AVCHD				
Still picture recording	JPEG (DCF/Exif2.2)				
Video Input/ Output	SDI IN, SDI OUT, HDMI OUT				
Audio Input/ Output	MIC/ LINE IN, SDI OUT, HDMI OUT, Headphone, Speaker				
Monitor					
LCD monitor	3.5-type LCD monitor, approx. 1,150,000 dots				
AC Adapter					
Rated input voltage	AC 100 V – 240 V, 50 Hz/60 Hz, 1.2 A				
Rated output	DC 12V, 3.0A				
Weight	Approx. 225 g (0.496 lbs)				
Dimensions	115 mm (W) x 37 mm (H) x 57 mm (D) (excl. DC card)				

AG-MDC20GJ

General						
Power	DC 9 V (supplied from the AG-UMR20)					
Power consumption	0.6 A					
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)					
Operating humidity	10 % to 80 % (no condensation)					
Weight	Body: approx. 325 g (0.717 lbs) Shooting: approx. 333 g (0.734 lbs) (incl. protector)					
Dimensions (W x H x D)	Body: 64 mm x 72 mm x 131 mm (excl. protrusion)					
Camera						
Pickup device	1/2.3-type MOS solid state image sensor (Total pixels: approx. 12.76 megapixels)					
Lens	Zoom: optical 20x motorized zoom Fvalue: F1.8 to F3.6, Focal length: f= 4.08 mm to 81.6 mm					
Zoom	i. Zoom: x30 (HD), x22 (4K) Digital zoom: x1.4, x2, x4, x6, x8					
Image stabilizer	Optical image stabilizer (HD/4K) 5-Axis hybrid image stabilizer (HD)					
Minimum illumination	0.2 lx (slow shutter: 1/2 sec., gain: +36 dB)					
Horizontal resolution (Typ, Center)	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						
AUDIO IN	Built-in microphone (2 CH stereo)					
Connecter	20 pin dedicated interface (to the AG-MDR25EJ)					
⁴ A 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/S0I. AVCHD Progressive and						

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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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