Specifications

Recording Media

Internal	HDD (Data capacity 1 TB)
External	USB drive (Flash Memory or HDD)*¹

Input Signal

Video	Digital (High Resolution Video)		
	SDI	1080p, 1080i, 720p, 480i, 576i	
	DVI-D	640 x 480 - 1920 x 1200 (1920 x 1200 will be reduced to 1728 x 1080)	
	Analog (NTSC/PAL)		
	Composite	1.0 Vp-p 75 ohm	
	S-Video	1.0 Vp-p 75 ohm luminance signal	
		NTSC	0.286 Vp-p 75 ohm chrominance signal
		PAL	0.3 Vp-p 75 ohm chrominance signal
Audio*²	Digital	Embedded (SDI input)	
	Analog	Audio	−9.4 dBv 10 kohm or more, unbalance
			φ3.5 stereo mini-jack
		MIC	φ3.5 stereo mini-jack

Output Signal

Video	Digital (High Resolution Video)		
	SDI	1080p, 1080i, 720p, 480i, 576i	
	DVI-D	640 x 480 - 1920 x 1200	
	Analog (NTSC/PAL)		
	Composite	1.0 Vp-p 75 ohm	
	S-Video	1.0 Vp-p 75 ohm luminance signal	
		NTSC	0.286 Vp-p 75 ohm chrominance signal
		PAL	0.3 Vp-p 75 ohm chrominance signal
Audio*²	Digital	Embedded (SDI input)	
	Analog	Audio	−6 dBv 1 kohm unbalance
			φ3.5 stereo mini-jack

★1 Operation of attached third-party USB HDDs and USB drives is not guaranteed.
★2 Input/output of analog audio is not available when audio is embedded in the SDI signal.

Interface

LAN	RJ45 (10Base-T/100Base-TX/1000Base-T)*³
USB-A	For recording x 2 (Front USB2.0)
	For inputting patient information x 1 (Rear USB2.0)
USB-B	For PC connection x 1 (Rear USB2.0)
REMOTE	φ2.5 mini-jack
External Switch	φ3.5 mini-jack for video x 1, photo x 1

External Recording Media

USB Drive	Flash Memory or HDD
Format	FAT32

Video Data Process

Still Image	JPEG
Video Compression	H.264
File Format	mov
Recording Time	180 hours (EQ: Economy Quality)

Audio Data Process

Compression	LPCM
Sampling Freq	48 KHz
Quantifying Bit Number	16 bit

Safety Regulation/EMC

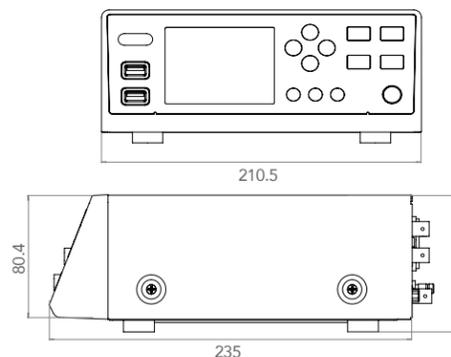|	
Safety Regulation	CB (IEC60601-1), CE (EN60601-1), NRTL/C (UL/CSA60601-1)
EMC	IEC60601-1-2, CSA60601-1-2, EN60601-1-2, FCC class B
Certified	FDA/Medical Class1

General

Display	3.5-inch, Full Color LCD		
Power	AC 100V - 240V ±10% 50/60 Hz 0.62A - 0.35A		
Operating Environment	Temperature	5 °C - 40 °C (+41 °F to +104 °F)	
	Humidity	5 % - 80 % RH (non-condensing)	
Dimension	W210.5 x H88.5 x D235 mm (W8.3 x H3.5 x D9.6 inches) (incl.rubber foot)		
Weight	Approx. 2.6 kg (5.7 lbs)		
Standard Accessory	Power cord x 1, Instruction Manual x 1		

★3 Data transmission speeds are limited to maximum of 100 Mbps in order to prioritize recording reliability.

Rear Panel

Dimensions (Unit:mm)

210.5

80.4

88.5

235

Optional Unit

USB Barcode Reader

Remote Controller

Foot Switch

[Precautions]

●Safety Precautions
Please read the instruction manual carefully before use to ensure safe operation.

●Copyright Notice
When recording video or audio, copying data to external media, or distributing content over a network using this product, please ensure full compliance with copyright laws and obtain permission from the copyright holder. We assume no responsibility for any copyright infringement by the user.

●Disclaimer on Recorded Content
We do not guarantee the integrity of recorded content. In the event that recording is not possible due to a product or external storage device malfunction, or if recorded content is lost or damaged for any reason, we will not provide compensation for restoration or repair, regardless of the warranty status.

●Product Specifications
To improve product quality, firmware updates may be made without prior notice.

Design and specifications are subject to change without notice.

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Ikegami

Medical Grade Digital Video Recorder
MDR-600HD-A

◆ High Quality - Full HD

◆ User Friendly - Simple Operation

◆ High Reliability - Triple Recording

◆ Network Transfer

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MEDICAL
THE OR PEOPLE

Trusted Performance and Ease of Use
Capturing High-Quality Videos & Images for Healthcare

The MDR-600HD-A captures signals at various resolutions (640 x 480 to 1920 x 1080) from medical cameras with effortless operation and records to internal HDD and external USB storage media. Designed for reliability, it supports simultaneous video and still image recording and playback.

High Quality Full HD

User Friendly Simple Operation

High Reliability Triple Recording

Network Transfer

Key Features

High Quality Video and Still Image

High quality SD/HD video and still image (640 x 480 to 1920 x 1080) can be recorded and playbacked.

Triple Recording

Experience effortless operation and unmatched data reliability. With the ability to record to three channels (internal HDD and two USB media), the MDR-600HD-A provides maximum flexibility and peace of mind for your important data management.

★ Internal HDD can backup data.

Auto-Signal Detection & Auto-Resolution Following

The system automatically detects the signal type and resolution of a connected input device, allowing instant recording.

Network Function

Automatic and simultaneous recording to an FTP server/CIFS server via LAN. Copies of recorded images can also be transferred.*2

★2 Transfers are performed by folder.

Various Search Function

Easily search videos and still images by patient ID, name, or recording date for quick and efficient playback.

PATIENT INFORMATION
ID : _
NAME:
D.O.B. :
SEX :
DATE: 2025/FEB/14

Simultaneous Recording and Playback

Still image can be saved and/or replayed during video recording.

Simple Operation

Just one button 🎥 can start recording video, also just 📷 button can start recording still image.

Built-in LCD Monitor

The built-in LCD monitor allows you to preview inputs and playback images precisely. Stay informed of real-time status updates and remaining capacity, ensuring flawless and efficient operation.
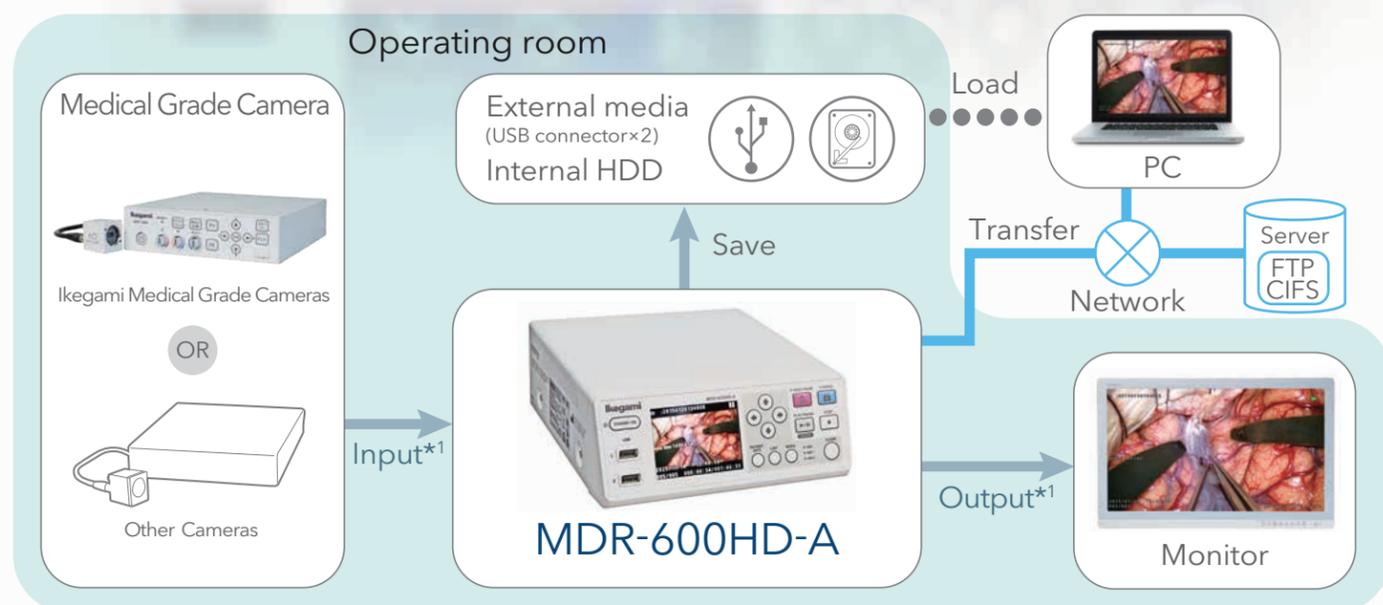
Easy Recording with External Controller

Connecting external controllers such as a foot switch to the MDR-600HD-A allows convenient video recording, pausing and still image capture, providing greater control and flexibility during operation.

Compact Design

A compact body packed with powerful features for maximum performance and efficiency.

Recording Time
★3,★4

HD (1920 x 1080)

Media	LQ (12 Mbps) without audio signal	EQ (12 Mbps)	SQ (18 Mbps)	HQ (24 Mbps)
HDD (1 TB)*5	200 hours	180 hours	120 hours	90 hours
External Media (1 TB)	200 hours	180 hours	120 hours	90 hours

SD (640 x 480)

Media	LQ (2 Mbps) without audio signal	EQ (5 Mbps)	SQ (8 Mbps)	HQ (10 Mbps)
HDD (1 TB)*5	1100 hours	360 hours	270 hours	200 hours
External Media (1 TB)	1100 hours	360 hours	270 hours	200 hours

★3 Recording time in EQ, SQ, HQ mode is the time for simultaneous recording of video and audio.
★4 Recording time in LQ mode is the time for video recording only.
★5 If free space is less than 100 GB, data will be deleted from the oldest files.

System Configuration (example)

Operating room

Medical Grade Camera

Ikegami Medical Grade Cameras

OR

Other Cameras

External media (USB connector×2)
Internal HDD

Save

Input*1

MDR-600HD-A

Output*1

Monitor

Load

PC

Transfer

Network

Server FTP CIFS

★1 Digital: SD-SDI/HD-HDI/DVI-D │ Analog: Composite/S-Video
Input signal and output signal format must be the same.