Introduction

Sony Technology – Providing High-Quality Medical Images

As video technology moves from analog to digital, it provides the opportunity to enhance the performance, flexibility, and reliability of video equipment used in medical environments. Sony audio-visual technology – including high-performance digital video cameras, color monitors, printers, and video recorders – has been used for many years in these environments, assisting quicker, more accurate diagnosis and treatment in hospitals and clinics around the world.

This catalog illustrates the latest models from the wide range of Sony professional imaging products, all of which are designed to capture, record, monitor, and print images of the highest quality.

With our innovative technologies, Sony continues to develop and support the many ways in which video imaging is applied to the advancement of medicine. Furthermore, our extensive choice of products enables users to choose the optimum solution for a variety of usage needs.

History of Sony Medical Printers
— Proof of High Reliability

Medical Equipment Total Solution
For On Cart System, For Network System

Product Line-up
For Image Capture
PMW-10MD, DXC-990/990P, DXC-390/390P, DXC-C33/C33P

For Image Recording
PDW-75MD, DVO-1000MD

For Image Monitoring
LMD-3250MD, LMD-2450MD/LMD-2451MD, LMD-2140MD, LMD-1950MD, LMD-1530MD

For Image Printing

Specifications
For Image Capture
For Image Recording
For Image Monitoring
For Image Printing

Optional Accessories
For Image Capture
For Image Recording
For Image Monitoring
For Image Printing

General-purpose Optional Accessories
(Non medical products)

Print Media at a Glance

The products in this catalog are categorized under the standards/regulations that they have been approved for. Please refer with your local Sony representative on any local laws or classification regarding medical devices.
History of Sony Medical Printers
— Proof of High Reliability

The printed image remains an essential part of modern diagnosis and treatment. Sony has been producing high-quality printing products for more than twenty years, giving medical practitioners access to the finest record of photographs. Sony’s accumulated technology for medical printers brings you high reliability and stability. With reliability built in to assure years of trouble-free use in a wide range of medical environments, Sony printers provide you with a visual record that’s as precise as it is permanent.

1984
Sony launches the world’s first color video printer "UP-1100" • Printing speed of 180 seconds and lamination in 60 seconds. • Glass edge thermal head. • Condenser paper ribbon. • Pulp-based printing paper.

1986
Introducing the first thermal video printer for ultrasound, "UP-811" • Printing speed of 12 seconds. • "Plastic-based printing paper" provides improved picture quality.

1988
"UP-5000", video printer for ultrasound and endoscopy • Thin film thermal head. • PET-based ink ribbon. • Plastic-based printing paper.

1989
Introducing "UP-930", the first A4 black and white multi-scan printer and A6 black and white video printer "UP-850" • A4 B/W

1990
Introducing "UP-3000", the first A6 color video printer adopted by medical modality, and A4 black and white video printer "UP-910" • A6 Color

1991
Introducing "UP-5100" Introducing "UP-860" • A5 Color • A6 B/W

1993
Introducing "UP-1000" • A6 Color

1994
Introducing "UP-880" • Resolution: 325dpi, a significant improvement compared to the UP-860.

1995
Introducing "UP-5500" adopted by ophthalmology modality • Resolution: 300dpi, 4-split picture. • Printing speed of 30 seconds, half that of the UP-5100.

1997
Introducing "UP-980", the first video printer, which can print on a blue transparent film and "UP-960" video printer only for print on paper.

Introducing "UP-895" • A6 B/W
• Printing speed of 3.9 seconds.

Introducing the first digital film imager, the "UP-D70XR" • A4 Color

Introducing "UP-50" • A5 Color
• Printing speed of 20 seconds.
• Dimensions: 370 x 125 x 475 mm

Introducing "UP-20", a dedicated printer for the medical market • A6 Color
• Compact size.
• Printing speed of 20 seconds.

Introducing the first digital A6 black and white video printer "UP-D895" • A6 B/W
• Printing speed of 3.9 seconds.

Introducing "UP-D71XR", the first digital film imager to be adopted by X-ray modality.

Introducing the first digital A6 color printer "UP-D21MD" • A6 Color

Introducing Film Station "UP-DF500", with diagnostic print quality • 14 x 17 B/W
• The world's smallest foot print 686 mm x 250 mm in vertical setting.
• Equipped with DICOM interface.
• The first digital film imager for diagnostics.

Introducing "UP-D72XR", equipped with FilmLink connection capability • 8 x10 B/W
• Hi-speed USB (USB 2.0)

Introducing "UP-55MD" • A5 Color
• Superb print quality of approx. 379 dpi.

Introducing "UP-D897/897MD", the smallest and fastest printers in their class • A6 B/W
• Printing speed of approx. 2 seconds.

Introducing the first DICOM color printer "UP-D77MD" with fine color tuning function • A4 Color
• Accepting both analog and digital signal input.

Introducing "UP-DF550" with diagnostic print quality • 14 x 17, 11 x 14, 10 x 12, 8 x10 B/W
• Support four film sizes.
• Small footprint in vertical setting.

Introducing "UP-D74XRD" • 8 x10 B/W
• Support both of paper media and film.

Introducing "UP-DF750" with diagnostic print quality • 14 x 17, 11 x 14, 10 x 12, 8 x10 B/W
• Mamnography printing quality (high resolution 604 dpi, maximum density of 3.8+ with the UPT-M710BL and UPT-M712BL))
• Small footprint in vertical setting.

Introducing A4 size digital color printer "UP-DR80MD". • A4 Color
Introducing digital and analog A6 color printers "UP-D25MD" and "UP-25MD". • A6 Color
## Medical Equipment Total Solution

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For Network System

PACS

PET/CT/MRI

CR/DR

DICOM Network
Digital Imaging and Communications in Medicine

Printer

For Diagnostics
Digital Film Imager
UP-DF750

For Diagnostics
Digital Film Imager
UP-DF500

For Reference
Digital Film Imager
UP-DF500

For Reference
DICOM Color Printer
UP-D77MD

Mammography

DICOM Network
Digital Imaging and Communications in Medicine
Product Lineup

For Image Capture

Color Video Cameras

1/2-inch type 3-Exmor™ CMOS Color Video Camera

PMW-10MD
- Equipped with three 1/2-inch type Exmor Full HD CMOS sensors
- Excellent sensitivity of F10
- Remarkable signal-to-noise of 54 dB
- High horizontal resolution of 1,000 TV lines
- Wide dynamic range of 450%
- C-mount type of lens mount
- Compact and lightweight camera head unit
- Camera head unit can be installed remotely up to 20 m from the camera control unit
- Various Shooting Modes, Specialized for Medical Use
  - Image reverse mode convenient for microsurgery
  - Freeze function synchronized with flash light of retinal camera
  - Spot photometry mode provided for the AE (Auto Exposure) on slit lamp
- Six Picture Profile™ settings for camera parameters, which can be customized and directly controlled from the switch on the front panel.

1/2-type 3-CCD Color Video Camera

DXC-990/990P
- Two SxS Memory Card Slots
  - Record moving images and still images
  - No overwriting of valuable existing footage
  - Using the Media Adaptor MEAD-MS01 or MEAD-SD01, certain Memory Stick™ or SDHC memory card can be used for recording.*1
  - Long recording time of up to 140 minutes in a single card. Two recording modes are available:
    - HQ Mode: (1920 x 1080, 35 Mb/s, VBR) 100 minutes*1
    - SP Mode: (1440 x 1080, 25 Mb/s, CBR) 140 minutes
  - Come with XDCAM EX™ Clip Browsing Software
  - Allows users to easily browse and copy video clips to other devices such as hard disk drives.
  - Serves as a bridge tool between different formats - converting the clips to other file formats such as the DV format for export to existing DV-based nonlinear editing systems
  - Available for both Windows®-based PCs and Macintosh® computers
  - A Wide Variety of Interfaces
    - Two HD-SDI outputs, a DVI-D output that supports 1080/60P and 1080/50P, an analog component output, analog composite output, and S-Video output. It also has a microphone input for audio recording.
    - A 9-pin RS-232C connector for remote control and a mini-stereo jack for a footswitch are provided
    - 59.94i/50i switchable operation
    - Worldwide AC power supply: AC100 V to 240 V
    - Please refer to the specification page for details about standards and regulations.
  - Many advanced AE (Automatic Exposure) functions
    - DynaLatitude™, Partial Enhance and Color Shading compensation functions
    - Full function control from the rear panel or the optional RM-C950 Remote Control Unit
    - On-screen programmable menu functions
    - RGB, Y/C, composite and component outputs
    - Full function control from the front panel.

1/3-type 3-CCD Color Video Camera

DXC-390/390P
- ExwaveHAD™ technology provides excellent sensitivity and low smear levels
- 1/2-type bayonet mount
- Compact and lightweight design
- High horizontal resolution of 850 TV lines
- RGB, Y/C, composite and component outputs
- On-screen programmable menu functions
- Full function control from the front panel or the optional RM-C950 Remote Control Unit
- DynaLatitude™, Partial Enhance and Color Shading compensation functions
- Many advanced AE (Automatic Exposure) functions
- Optional CMA-D2MD/D2MDCE or CMA-D3/D3CE can be used for AC power supply
- Please refer to the specification page for details about camera adaptors.

DXC-C33/C33P
- Incorporates one of the smallest and lightest camera head units
- High horizontal resolution of 850 TV lines
For Image Recording

Recorders

**XDCAM HD Recorder**
- XDCAM™ HD optical disc recorder offering 1440 x 1080 high-definition (HD) image recording
- Uses Professional Disc™ media as the recording medium
  - 50-GB and 23-GB, high-capacity optical disc
  - Utilizes the same blue-violet laser technology as consumer Blu-ray Disc™ products
  - Designed specifically for professional recording applications to achieve higher transfer rates and a greater level of reliability
- Already adopted by a large number of professional users worldwide, including broadcasters and video production companies
- Rewriteable media (approx. 1,000 times)
- Ideal for long-term storage of footage

**PDW-75MD**
- XDCAM™ HD optical disc recorder offering 1440 x 1080 high-definition (HD) image recording
- Uses Professional Disc™ media as the recording medium
  - 50-GB and 23-GB, high-capacity optical disc
  - Utilizes the same blue-violet laser technology as consumer Blu-ray Disc™ products
  - Designed specifically for professional recording applications to achieve higher transfer rates and a greater level of reliability
- Already adopted by a large number of professional users worldwide, including broadcasters and video production companies
- Rewriteable media (approx. 1,000 times)
- Ideal for long-term storage of footage

**DVD Recorder**
- DVD recorder offering high-quality digital video recording using the MPEG-2 compression format
- Uses the DVD+RW disc as a recording medium, which provides rewrite capability and playback compatibility with many DVD players
- DVD+RW media allows operators to quickly eject the disc after recording without “finalize” process that can usually take a considerable amount of time
- DVD media also enables long-term archiving of images due to its long life
- Long recording time of up to 4.5 hours
- Three recording modes are available:
  - HQ Mode: 35 Mb/s VBR, 150 minutes*1
  - SP Mode: 25 Mb/s CBR, 200 minutes*1
  - LP Mode: 18 Mb/s VBR, 266 minutes*1
- Thumbnail-based instant random access to footage
- No overwriting of valuable existing footage
- VTR-like picture search operation using the Jog/Shuttle dial with ±20 times normal-speed playback
- Easy cuts-only editing (Scene Selection Function)
- Proxy Data recording – a low-resolution version of the AV data is recorded simultaneously with the high-resolution data, which can be used for fast and easy editing and playback
- Metadata recording for efficient data management
- DVCAM™ recording (requires optional PDBK-104 board)
- 3.5-inch*2 color LCD display
- Network capability (requires the optional PDBK-101 board)
- Clip Continuous REC mode
- 59.94i/50i switchable operation
- Worldwide AC power supply: AC100 V to 240 V
- Please refer to the specification page for details about standards and regulations.

**DVO-1000MD**
- DVD recorder offering high-quality digital video recording using the MPEG-2 compression format
- Uses the DVD+RW disc as a recording medium, which provides rewrite capability and playback compatibility with many DVD players
- DVD+RW media allows operators to quickly eject the disc after recording without “finalize” process that can usually take a considerable amount of time
- DVD media also enables long-term archiving of images due to its long life
- Long recording time of up to 4.5 hours
- Three recording modes are available:
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- Clip Continuous REC mode
- 59.94i/50i switchable operation
- Worldwide AC power supply: AC100 V to 240 V
- Please refer to the specification page for details about standards and regulations.

* In HQ Mode, CBR (Constant Bit Rate) encoding is used.
For Image Monitoring

Multi format HD Monitors
* Screen size is a viewable area measured diagonally

** LCD Monitor

** LMD-3250MD
- 32-inch* monitor designed for surgical endoscopy applications
- Full HD resolution of 1920 x 1080 pixels
- Excellent brightness and contrast
- Natural gradation and accurate color reproduction (10-bit DSP)
- Sophisticated I/P (Interlace to Progressive) conversion
- ChromaTRU color processing
- Multi-format signal support (Video/SD, HD, PC (DVI-D/HDMI input))
- Flexible input configuration with optional input adaptors
- Picture & picture mode: Picture-out-picture and Side-by-side
- Variety of scan mode for wide range of applications
- Full screen size mirror (reverse) image display
- VESA mounting with 200 x 200 mm pitch (4 holes)
- One parallel and two types of serial remote control ports
- Please refer to the specification page for details about standards and regulations.

** LMD-2450MD/LMD-2451MD
- 24-inch* monitor designed for surgical endoscopy applications
- High-resolution of 1920 x 1200 pixels (WUXGA)
- Excellent brightness and contrast
- Natural gradation and accurate color reproduction (10-bit DSP)
- Sophisticated I/P (Interlace to Progressive) conversion
- ChromaTRU color processing
- Multi-format signal support (Video/SD, HD, PC (DVI-D/HDMI input))
- 3G-SDI input for 1080i signals by installing an optional BKM-250TG
- DVI-D input capability is expandable with the optional BKM-256DD input adaptor
- Two input slots provide flexible input configuration from optional input adaptors
- Variety of scan mode for wide range of applications
- Full screen size mirror (reverse) image display
- VESA mounting with 100-mm pitch
- One parallel and two types of serial remote control ports
- Please refer to the specification page for details about standards and regulations.

** LCD Monitor

** LMD-2140MD
- 21-inch* LCD monitor optimized for medical use
- High resolution of 1024 x 768 pixels (XGA)
- Excellent brightness and contrast
- Smooth image reproduction with Sony’s original X-Algorithm technology
- Multi-format signal support (Video/SD, HD, PC (DVI-D/HDMI input))
- Two input slots provide flexible input configuration from optional input adaptors
- A wide variety of picture scan modes, Normal, Overscan, Overscan, Zoom, and Native
- 20 patterns of monitor set-up data can be memorized in the user preset
- VESA mounting with 100 x 100 mm pitch
- Parallel and serial remote control ports
- Please refer to the specification page for details about standards and regulations.

** LMD-1950MD
- 19.1-inch* LCD monitor optimized for medical use
- High resolution of 1280 x 1024 pixels (SXGA)
- Excellent brightness and contrast
- Smooth image reproduction with Sony’s original X-Algorithm technology
- Natural gradation and accurate color reproduction (10-bit DSP)
- High-horizontal resolution of 700 TV lines
- Multi-format signal support (Video/SD, HD, PC (DVI-D/HDMI input))
- Selectable scan mode: 20% Over Scan, Normal Scan (7% over scan), -3% Under Scan, Full Scan, Native Scan, and Zoom
- Two input slots provide flexible input configuration from optional input adaptors
- 20 patterns of monitor set-up data can be memorized in the user preset
- VESA mounting with 100-mm pitch
- Parallel and serial remote control ports
- Please refer to the specification page for details about standards and regulations.

** LCD Monitor

** LMD-1530MD
- 15-inch* LCD monitor optimized for medical use
- High-resolution of 1280 x 768 pixels (WXGA)
- Wide viewing angle
- High performance LCD panel provides high-brightness, and high-contrast images with natural color reproduction
- 10-bit signal process reproduces lifelike images
- Accepts a full range of SD inputs including analog composite, Y/C (S-Video), 525i/625i component, and RGB
- HDMI input
- Variety of scan mode for wide range of applications
- VESA mounting with 100-mm pitch
- Parallel remote control port
- Please refer to the specification page for details about standards and regulations.
For Image Printing

Analog Printers

Color Video Printer

UP-25MD

• Dye sublimation printer for superb quality prints
• High resolution of 423 dpi
• High-speed printing of approx. 19 seconds* in A6 size
• Compact, space-saving design: 212 x 98 x 398 mm (8 3/8 x 3 7/8 x 15 5/8 inches)
• Self-lamination media with a protective layer resistant to light, heat etc.
• Easy-to-use with two types of color balance adjustment: the normal RGB, and HSV adjustment on a 9-split image print
• Front-loading operation allows for easy maintenance and flexible set up
• Selectable 2 or 4-split image print mode
• HD TV (high-definition television) signal support accepting both 1080i and 720p signal types
• Accepts analog RGB, S-Video (Y/C), or composite video input/output signals
• Image spool function (eight frame memories)
• RS-232C port for remote control operation
• Convenient remote control with the optional FS-24, RM-91, or RM-5500 Remote Commander
• Please refer to the specification page for details about standards and regulations.

* Measured in high-speed mode with the UPC-21S (excluding data transfer time)

UP-55MD

• Dye sublimation printer for superb quality prints
• High resolution of 379 dpi
• High-speed printing of approx. 20 seconds* in A5 size
• Compact, space-saving design: 280 x 125 x 398 mm (11 1/8 x 5 x 15 3/4 inches)
• Equipped with printer window display which allows menu operation on front panel
• Convenient image copy function (equipped with a USB host port)
• Easy-to-use color adjustment function
• Selectable 2, 4 or 8 split image print mode
• Image spool function (eight frame memories)
• Accepts analog RGB, S-Video (Y/C), or composite video input/output signals
• Please refer to the specification page for details about standards and regulations.

* Measured in high-speed mode with the UPC-55 Color Printing Pack

Video Graphic Printer

UP-897MD

• Direct thermal printer with a high resolution of 325 dpi
• High-speed printing of approx. 2 seconds* in A6-size
• Compact, space-saving design: 154 x 88 x 240 mm (6 1/6 x 3 1/2 x 9 1/2 inches)
• Superior operability with the front LCD display panel and Jog dial
• Supports standard and side print modes
• Detailed sharpness setting with 15 steps
• Multiple copy function (up to 20 copies of the last printed image)
• Zoom function (from 0.5 to 2 times in 0.1 increments)
• Image-capture function (up to 10 transferred images)
• Selectable 4:3 or 1:1 aspect ratio
• Automatic selection of EIA or CCIR video signal
• Worldwide AC power supply: AC 100 V to 240 V
• Please refer to the specification page for details about standards and regulations.

* Measured in high-speed mode with the UPP-110HG or UPP-110S (excluding data transfer time)
Analog, Digital Hybrid Printers

Hybrid Graphic Printer

UP-990AD

• Direct thermal printer with a high resolution of 325 dpi
• Accepts both analog and digital signal input
• Supports printing on blue transparent film and printing paper
• Superior operability with the front LCD panel and jog dial
• High-speed printing of approx. 8 seconds* in A4 size
• Compact, space-saving design: 316 x 132.5 x 305 mm (12 1/2 x 5 1/4 x 12 1/8 inches)
• Selectable 2, 4 or 6 split image print mode
• Automatic media-cutting function
• Worldwide AC power supply: AC 100 to 240 V
• Please refer to the specification page for details about standards and regulations.

* Measured in standard mode.

Hybrid Graphic Printer

UP-970AD

• Direct thermal printer with a high resolution of 325 dpi
• Accepts both analog and digital signal input
• Supports printing on printing paper
• Superior operability with the front LCD panel and jog dial
• High-speed printing of approx. 8 seconds* in A4 size
• Compact, space-saving design: 316 x 132.5 x 305 mm (12 1/2 x 5 1/4 x 12 1/8 inches)
• Selectable 2, 4 or 6 split image print mode
• Worldwide AC power supply: AC 100 to 240 V
• Please refer to the specification page for details about standards and regulations.

* Measured in standard mode.

Digital Graphic Printer

UP-D897

• Direct thermal printer with a high resolution of 325 dpi
• High-speed printing of approx. 2 seconds* in A6-size
• Compact, space-saving design: 154 x 88 x 240 mm (6 1/6 x 3 1/2 x 9 1/2 inches)
• Superior operability with the front LCD display panel and Jog dial
• Supports standard and side print modes
• Detailed sharpness setting with 15 steps
• Multiple copy function (up to 20 copies of the last printed image)
• Resize image data to fit a pre-set printing area
• Panoramic-size print is available especially for dental applications
• Equipped with a Hi-Speed USB interface (USB 2.0) as standard
• Please refer to the specification page for details about standards and regulations.

* Measured in high speed mode with the UPP-110HG or UPP-110S (excluding data transfer time)
## Digital Printers

### Digital Color Printer

- **UP-D55**
  - A5
  - Color
  - Dye sublimation printer for superb quality prints
  - Compact, space-saving design: 212 x 98 x 398 mm (8 3/8 x 3 7/8 x 15 3/4 inches)
  - Self-lamination media with a protective layer resistant to light, heat etc.
  - Easy-to-use with two types of color balance adjustment: the normal RGB, and HSV adjustment on a 9-split image print
  - Front-loading operation allows easy maintenance and flexible set up
  - Selectable 2- or 4-split image print mode
  - Image spool function (two frame memories)
  - Color balance adjustment capability
  - Image spool function (two frame memories)
  - Resize-to-fit function
  - Paper tray with paper stopper
  - Equipped with a Hi-Speed USB (USB 2.0) as standard
  - Includes a PC utility driver software kit
  - Please refer to the specification page for details about standards and regulations

### Digital Color Printer

- **UP-D25MD**
  - A6
  - Color
  - Dye sublimation printer for superb quality prints
  - Compact, space-saving design: 280 x 125 x 398 mm (11 1/8 x 5 x 15 3/4 inches)
  - Front-loading operation allows easy maintenance and flexible set up
  - Selectable 2, 4 and 8 split image print mode
  - Image spool function (two frame memories)
  - Color balance adjustment capability
  - Preview window on the printer driver GUI to check the color adjustment result
  - Easy-to-use with two types of color balance adjustment: the normal RGB, and HSV adjustment on a 9-split image print
  - Front-loading operation allows easy maintenance and flexible set up
  - Selectable 2- or 4-split image print mode
  - Image spool function (two frame memories)
  - Color balance adjustment capability
  - Image spool function (two frame memories)
  - Resize-to-fit function
  - Paper tray with paper stopper
  - Equipped with a Hi-Speed USB (USB 2.0) as standard
  - Includes a PC utility driver software kit
  - Please refer to the specification page for details about standards and regulations

### DICOM Color Printer

- **UP-DR80MD**
  - A4/A4 LT
  - Color
  - Dye sublimation printer for superb quality prints
  - Compact, space-saving design: approx. 494 x 176 x 469 mm
  - Stylish and compact design: approx. 317 x 207 x 425 mm
  - Front-loading operation for easy operation and maintenance
  - Easy color adjustment
  - Two types of color look up table to reproduce suitable colors for different modalities.
  - Gray balance adjustment for the most suitable tonal range for your application.
  - Highly durable prints with self-laminating print media
  - Worldwide AC power supply: AC 100 V to 240 V
  - Please refer to the specification page for details about standards and regulations

### DICOM Color Printer

- **UP-D77MD**
  - A4/A4 LT
  - Color
  - Dye sublimation printer for superb quality prints
  - Compact, space-saving design: approx. 494 x 176 x 469 mm
  - Stylish and compact design: approx. 317 x 207 x 425 mm
  - Front-loading operation for easy operation and maintenance
  - Easy color setting from 25 color patch pictures
  - Precise color tuning capability
  - Fine Gamma curve setting capability
  - Highly durable prints with self-laminating print media
  - Worldwide AC power supply: AC 100 V to 240 V
  - Please refer to the specification page for details about standards and regulations
Digital Film Imagers

Digital Film Imager

**UP-DF750**

- Digital film imager with a high resolution of 604 dpi, suitable for mammography imaging
- Supports dedicated Sony’s High Density Blue Thermal Film and Blue Thermal Film (four sizes)
- High density blue thermal film for mammography (UPT-M710BL and UPT-M712BL) has a high maximum density of 3.8+.
- Two film supply trays to support four different film sizes (14 x 17, 11 x 14, 10 X 12, 8 x 10 inches)
- Vertical installation capability to save space
- Compact, space-saving design: 600 x 316 x 686 mm (23 5/8 x 12 1/2 x 27 1/8 inches)
- Auto calibration function
- Large 3.8-inch graphic LCD which provides menu direction change
- Four languages supported to display on the LCD.
- IP address, Net mask, Default Gateway and AE title can be set from front panel
- Large effective print area and edge-to-edge printing capability
- One default fixed gamma curve and 19 changeable gamma curves setting capability for both regular blue thermal film and high-density blue thermal film
- DICOM-compliant network capability
- Quick warm-up time of only two minutes
- Worldwide AC power supply: 100-120/200-240V
- Incorporates environmentally friendly Sony thermal dry-processing technology
- Top and rear covers for easy maintenance to fix film jams
- Please refer to the specification page for details about standards and regulations.

**UP-DF550**

- Digital film imager with a high resolution of 320 dpi
- Supports dedicated Sony Blue Thermal Film (four sizes)
- Two film supply trays to support four different film sizes (14 x 17, 11 x 14, 10 X 12, 8 x 10 inches)
- Vertical installation capability to save space
- Compact, space-saving design: 600 x 316 x 686 mm (23 5/8 x 12 1/2 x 27 1/8 inches)
- Auto calibration function
- IP address, Net mask, Default Gateway and AE title can be set from front panel
- Large effective print area and edge-to-edge printing capability
- Top and rear covers for easy maintenance to fix film jams
- One default fixed gamma curve and 19 changeable gamma curves setting capability
- DICOM-compliant network capability
- Quick warm-up time of only two minutes
- Worldwide AC power supply: 100 V to 240 V
- Incorporates environmentally friendly Sony thermal dry-processing technology
- Please refer to the specification page for details about standards and regulations.

**UP-DF500**

- Digital film imager with a high resolution of 320 dpi
- Supports dedicated Sony Blue Thermal Film (14 x 17 inch)
- Vertical installation capability to save space
- Compact, space-saving design: 600 x 250 x 686 mm (23 5/8 x 9 7/8 x 27 1/8 inches)
- Auto calibration function
- One default fixed gamma curve and 19 changeable gamma curves setting capability
- IP address, Net mask, Default Gateway and AE title can be set from front panel
- DICOM-compliant network capability
- Quick warm-up time of only a few minutes
- Edge-to-edge printing capability
- Worldwide AC power supply: 100 V to 240 V
- Incorporates environmentally friendly Sony thermal dry-processing technology
- Please refer to the specification page for details about standards and regulations.
Digital Film Imagers

**DICOM Digital Imager**

- Digital film imager with a high resolution of 300 dpi
- Newly designed mechanical paper/film path and blue thermal film provide higher picture quality
- Supports both of the UPT-736BL Blue Thermal Transparent Film and the UPP-725 Thermal Printing Paper
- DICOM-compliant network capability and Hi-Speed USB (USB 2.0) as standard
- Available network parameter settings and switching of paper and film easily via the front panel
- By incorporating micro-step motor, operation noise is reduced
- High-speed printing of approx. 40 seconds in 8 x 10 inch size
- Precise gamma-curve setting capability
- Compact, space-saving design: 412 x 210 x 431mm (16 1/4 x 8 3/8 x 17 inches)
- Front-loading operation allows easy operation and maintenance
- Secure paper-tray lock system
- Equipped with a small window on the paper tray to check media availability
- Detachable dust filter
- Worldwide AC power supply: 100 V to 240 V
- Incorporates environmentally friendly Sony thermal dry-processing technology
- Please refer to the specification page for details about standards and regulations.

**UP-D74XRD**

- 8" x 10" B/W
- Digital Film Imager
- 8" x 10" Blue Film
- DICOM
- USB

- Digital film imager with a high resolution of 300 dpi
- Newly designed mechanical paper/film path and blue thermal film provide higher picture quality
- Supports both of the UPT-73BL Blue Thermal Transparent Film and the UPP-725 Thermal Printing Paper
- DICOM-compliant network capability and Hi-Speed USB (USB 2.0) as standard
- Available network parameter settings and switching of paper and film easily via the front panel
- By incorporating micro-step motor, operation noise is reduced
- High-speed printing of approx. 40 seconds in 8 x 10 inch size
- Precise gamma-curve setting capability
- Compact, space-saving design: 412 x 210 x 431mm (16 1/4 x 8 3/8 x 17 inches)
- Front-loading operation allows easy operation and maintenance
- Secure paper-tray lock system
- Equipped with a small window on the paper tray to check media availability
- Detachable dust filter
- Worldwide AC power supply: 100 V to 240 V
- Incorporates environmentally friendly Sony thermal dry-processing technology
- Please refer to the specification page for details about standards and regulations.

**UP-D72XR**

- 8" x 10" B/W
- Digital Film Imager
- 8" x 10" Blue Film
- IEEE 1284

- Digital film imager with a high resolution of 300 dpi
- Supports both of the UPT-735BL Blue Thermal Transparent Film and the UPP-725 Thermal Printing Paper
- High-speed printing of approx. 40 seconds in 8 x 10 inch size
- Precise gamma-curve setting capability
- Compact, space-saving design: 412 x 210 x 431mm (16 1/4 x 8 3/8 x 17 inches)
- Front-loading operation allows easy operation and maintenance
- Secure paper-tray lock system
- Equipped with a small window on the paper tray to check media availability
- Detachable dust filter
- USB connector and PARALLEL interface* (IEEE1284)
- Incorporates environmentally friendly Sony thermal dry-processing technology
- Please refer to the specification page for details about standards and regulations.

* Supported in ECP (Extended Capabilities Port), Compatible-Nibble and Compatible modes.
### Specifications

#### For Image Capture

<table>
<thead>
<tr>
<th>1/2-type 3-CCD Color Video Camera</th>
<th>1/3-type 3-CCD Color Video Camera</th>
<th>1/3-type 3-CCD Color Video Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DXC-990/990P</strong></td>
<td><strong>DXC-390/390P</strong></td>
<td><strong>DXC-C33/C33P</strong></td>
</tr>
</tbody>
</table>

#### Image device
- Three 1/2-type IT (Interline Transfer) Exwave HAD
- Three 1/3-type IT (Interline Transfer) Exwave HAD

#### Effective picture elements
- 768 (H) x 494 (V) (DXC-990/990P/C33)
- 752 (H) x 582 (V) (DXC-990P/390P/C33P)

#### Sensing area
- 6.4 (H) x 4.8 (V) mm
- 4.8 (H) x 3.6 (V) mm

#### Scanning system
- 2:1 interlaced, 525 lines (DXC-990/990P/C33)
- 2:1 interlaced, 625 lines (DXC-990P/390P/C33P)

#### Horizontal frequency
- 15.754 kHz (DXC-990/990P/C33)
- 15.625 kHz (DXC-990P/390P/C33P)

#### Vertical frequency
- 59.94 Hz (DXC-990/990P/C33)
- 50 Hz (DXC-990P/390P/C33P)

#### Sync system
- Internal or external with VBS, HD/VD

#### Phase control
- H/SC phase control

#### Sensitivity
- F11 at 2000 lx
- F8.0 at 2000 lx

#### Minimum illumination
- 1 lx (F1.4, GAIN: HYPER)
- 4 lx (F2, GAIN: HYPER)

#### S/N ratio
- 63 dB (DXC-990), 62 dB (DXC-990P)
- 62 dB (DXC-390/C33), 61 dB (DXC-390P/C33P)

#### Gain
- STEP: 0 to 24 dB by 1 dB step
- AGC: 0 to 24 dB (Limit value: 6 dB, 12 dB, 18 dB, 24 dB selectable)
- HYPER: 30 dB

#### Shutter speed
- 0.5 to 1/100,000 s

#### Electronic shutter
- OFF/STEP/VARIABLE/CCD IRIS selectable

#### Iris
- Auto/Manual

#### AE area
- Multi/Large/Medium/Spot/Slot/Manual selectable

#### AE speed
- Fast/Mid/Slow selectable

#### AE detect
- Average/Peak selectable

#### Contrast effect
- Manual/DynaLatitude/DCC+ selectable

#### Knee point
- High/Mid/Low selectable (Contrast Effect: Manual)

#### Black stretch
- Variable (Contrast Effect: Manual)

#### Gamma
- Off/On (Variable at ON)

#### Pedestal
- Master and R/B Manual adjustable

#### Black balance
- ABB

#### White balance

#### ATW area
- Normal/Manual selectable

#### ATW speed
- Fast/Mid/Slow selectable

#### ATW level
- All/Target/Off (variable at All or Target)

#### ATW frequency
- High/Mid/Low selectable

#### Linear matrix
- All/Target/Off Selected (Variable at All or Target)

#### Linear matrix read
- Standard/3.3 In. Enhance/G Enhance/S Enhance/M解答Selective

#### Partial enhancement
- Auto/Manual selectable

#### CCD integration mode
- Field/Frame selectable

#### Shading compensation
- Off/On (Manual control)

#### Baud rate
- 19200/9600/4800/2400/1200 selectable

#### Sync
- RGB/IR/FT selectable

#### Trigger
- On (Positive edge trigger)/Negative edge trigger/Off

#### Strobe
- Slave

#### User file
- A/B selectable

#### Scene file
- Standard/Microscope/Full Auto/Blue/Red/Blue A or B

#### Output signals
- VBL, RGB, SYNC, Y/C, Y/R-Y/B-Y
- VBL, RGB, SYNC, Y/C
- VBL, RGB, SYNC, Y/C, LINE (DV)

#### Serial data
- RS-232C

#### Operational temperature
- -5 to 40°C (-23 to 113°F)

#### Storage temperature
- 5 to 60°C (-4 to 140°F)

#### Power requirements
- DC 10.6 to 15.0 V
- DC 9.0 to 15.0 V
- DC 10.0 to 12.0 V

#### Power consumption
- 7.6 W
- 7.6 W
- 7.6 W

#### Dimensions
- 104 x 84 x 117.5 mm (2.7 7/8 x 2.7 7/8 x 3.7 7/8 inches)
- 73 x 72 x 123.5 mm (2.7 7/8 x 2.7 7/8 x 4.7 7/8 inches)
- 56 x 60 x 128 mm (2.2 7/16 x 2.3 15/16 x 2 7/8 inches)

#### Mass
- Approx. 610 g (1 lb 6 oz)
- Approx. 370 g (13 oz)
- Approx. 380 g (13 oz)

#### Connectors
- RGB, SYNC (Phant-Drop), DC IN/VBI (12-pin), VIDEO OUT (BNC), TRIGGER IN (BNC), REMOTE (6-pin mini DIN), GEN LOCK IN (BNC), LENS (6-pin)
- RGB, SYNC (Phant-Drop), DC IN/VBI (12-pin), VIDEO OUT (BNC), TRIGGER IN (BNC), REMOTE (6-pin mini DIN), LENS (6-pin)
- DV OUT (6-pin jack), RGB, SYNC (Phant-Drop) F/F/R Inter in (Stereo Mini Jack), REMOTE (6-pin mini DIN), AC Inlet, Camera (20-pin), EXT SYNC IN (BNC)

#### Standards/Regulations
- UL/CSA: 60601-1, Canada: C22.2 No.601.1
- European: EN55022 (B), EN55024 (B), EN61000-3-2, EN61000-3-3
- Australian: EMC: EN50036-3-2, EN61000-3-2
- CB Certification: IEC 60601-1
- UL/CSA: 60601-1, Canada: C22.2 No.601.1
- European: EN55022 (B), EN55024 (B), EN61000-3-2, EN61000-3-3
- Australian: EMC: MC/Certified Class B
- CB Certification: IEC 60601-1
### For Image Capture

<table>
<thead>
<tr>
<th><strong>PMW-10MD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
</tr>
</tbody>
</table>
| **Mass** | CHU : Approx. 100 g (3.5 oz)  
CCU : Approx. 2.7 kg (5 lb 15 oz) |
| **Dimensions** | CHU : 35 x 45 x 50 mm (1 7/16 x 1 13/16 x 2 inches) without projection  
CCU : 268 x 88 x 240 mm (10 1/4 x 3 1/2 x 9 1/2 inches) without projection |
| **Power Requirements** | AC : 100 to 240 V, 50/60 Hz  
Max. 25 W |
| **Operational Temperature** | 0°C to 40°C (32°F to 104°F) |
| **Storage Temperature** | -20°C to 60°C (-4°F to 140°F) |
| **Camera Head Unit** |
| **Image Device** | 3-chip 1/2-inch type Exmor CMOS |
| **Effective Picture Elements** | 1920 (H) x 1080 (V) |
| **Lens Mount** | C-mount |
| **Optical system** | F2.3 prism system |
| **Sensitivity** | F10 typical  
(in 1920 x 1080/59.94i mode) |
| **Minimum Illumination** | 0.14 lx  
(in 1920 x 1080/59.94i mode, F2.2, -21 dB gain, with 64-frame slow shutter) |
| **S/N Ratio** | 54 dB (typical) |
| **Horizontal Resolution** | 1000 TV lines (in 1920 x 1080/59.94i; through HD-SDI) |
| **White Balance** | PRESET/MEMORY/ATW |
| **AE** | ON/OFF |
| **AE Area** | Multi/Large/Medium/Spot/35mil Selectable |
| **Connector** |
| **Camera output** | 20-pin (x1) |
| **Camera Control Unit** |
| **Picture Profiles** | PictureProfile 1-6 |
| **Output Signals** | HD-SDI, VBS, 5-Videos(Y/C), VPL/P, DVI-D |
| **DVI-D output** | 1080/1080P |
| **Color Bars** | Multiformat/75%/100%/Off |
| **Downconvert Mode** | Squeeze/Letterbox/EdgeCrop |
| **Flash Trigger output** | CMOS/Open-Collector |
| **Serial Data** | RS-232C |
| **Connectors** |
| **Camera input** | 36-pin (x3)  
MIC input | stereo mini-jack (x1)  
Composite output | BNC (x1)  
S-Video output | mini DIN 4-pin (x1)  
Component output | D-Sub 15-pin (x1)  
DVI-D output | DVI connector 15-pin (x1)  
HD SDI output | BNC (x2)  
EX SYNC input | BNC (x1)  
FILTER IO | stereo mini-jack (x1)  
Remote | RS-232C |
| **Freeze function** | OFF/ON |
| **Recording Media** | SxS PRO™ Memory Card, SxS-1 Memory Card, Memory Stick®, SDHC Memory Card* |
| **Recording Format (Video)** |
| **HQ mode** | 35 Mbps (VBR) MPEG-2 MP@HL  
- 1920 x 1080 / 59.94, 50  
35 Mbps (CBR) MPEG-2 MP@H-14  
- 1440 x 1080 / 59.94, 50 |
| **SP mode** | 25 Mbps (CBR) MPEG-2 MP@H-14  
- 1280 x 720 / 59.94, 50 |
| **Recording Format (Audio)** | LPCM (16 bits, 48 kHz, 2Ch) |
| **Recording Capacity** |
| **HQ mode** | Approx. 100 min. with SBP-32 (32 GB) memory card  
Approx. 50 min. with SBP-16 (16 GB) memory card |
| **SP mode** | Approx. 140 min. with SBP-32 (32 GB) memory card  
Approx. 70 min. with SBP-16 (16 GB) memory card |
| **Standards/Regulations** |
| **US/CANADA** | Safety: UL 60601-1, UL 60605,  
CSA C22.2 No.601.1, CSA C22.2 No.6065  
EMC: FCC Part 15 Subpart-B Digital Device Class A  
ICES-003 Class A Digital Apparatus  
Europe:  
Safety: EN 60601-1, EN 60605  
EMC: EN 60601-1-2, EN 551031 (E1-E4), EN55103-2  
EC Directive: MDD, EMC, LVD  
Australia:  
EMC: EN55103-1 (E1-E4)  
Japon:  
EMC: VCCI Class A, JIS C 61000-3-2  
CB Certification: IEC 60601-1, IEC 60605-1 |

* Please contact your local Sony office for the latest compatibility information.
For Image Recording

**XD-CAM HD Recorder**

**PDW-75MD**

### General
- Power requirements: 100-240 V AC, 50/60 Hz
- Power consumption: 35 W
- Operating temperature: +5 to +40°C (+41 to 104°F)
- Humidity: 20 to 90% (relative humidity)
- Dimensions: 212 x 128.5 x 382 mm (8 3/8 x 5 x 15 inches)
- Weight: 6.7 kg (15 lb 6 oz)

### Recording Format
- Video: MPEG-2 compression
- Audio: Dolby Digital format

### Recording System
- DVD Recording

### Input/Output
- Analog Composite Input: BNC x 2, with loop-through, unbalanced, 1.0 Vp-p, 75 Ω
- 5/Video Input: 4-pin D IN x 2, with loop-through
  - Y: 1.0 Vp-p, 75 Ω, unbalanced
  - C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL), 75 Ω, unbalanced
- Analog Composite Output: BNC x 2
- 5/Video Output: 4-pin D IN x 1
  - Y: 1.0 Vp-p, 75 Ω, unbalanced
  - C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL), 75 Ω, unbalanced

### Audio Input
- RCA Pin x 4 (L/R), 2 Vrms (full bit), load impedance 47 kΩ
- RCA Pin x 2 (L/R), 2 Vrms (full bit), load impedance 47 kΩ
- 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL), 75 Ω, unbalanced

### Audio Output
- RCA Pin x 2 (L/R), 2 Vrms (full bit), load impedance 47 kΩ
- RCA Pin x 4 (L/R), 2 Vrms (full bit), load impedance 47 kΩ

### Dimensions
- 212 x 128.5 x 382 mm (8 3/8 x 5 x 15 inches)
- 6 kg (13 lb 4 oz)

### Power Consumption
- 35 W

### Operating Temperature
- +5 to +40°C (+41 to 104°F)

### Standards/Regulations
- CB Certification: IEC 60601-1, IEC 60065, IEC 60825-1
- EMCE: J55013, JIS C 61000-3-2
- Japan: Safety: PSE
- Europe: Safety: EN 60601-1
- EMC: C E C 60601-1, C E C 60601-1-2
- Australia: EMC: EN61010-1 (A1-1)
- Europe: Safety: EN 60950-1
- EMC: EN61010-1-1, EN61010-1-2
- Australia: EMC: AS/NZS 61010.1
- Japan: Safety: PSE
- EMC: J55013, JIS C 61000-3-2
- NSW: C E C 60601-1, C E C 60606, C E C 60606-1, C E C 60608-1, C E C 60609-1
- EU: C E C 60601-1, C E C 60606, C E C 60606-1, C E C 60608-1
- USA/Canada: Safety: UL 60601-1, CSA 22.2 No.601.1
- EMC: FCC Part 15 Subpart B Class I equipment
- Canada: Safety: CSA 22.2 No. 601.1
- CB Certification: C E C 60601-1, C E C 60606, C E C 60606-1, C E C 60608-1

### Specifications

#### Audio Performance
- System sync phase (fine) ±200 ns
- ±30°
- Chroma phase ±30 IRE
- ±3 dB

#### Processor Adjustment Range
- Sampling frequency
  - Y: 74.25 MHz, R-Y/B-Y: 37.125 MHz

#### Video Performance
- Video: MPEG-2 compression
- Audio: Dolby Digital format

#### Analog Composite Input
- BNC x 2, with loop-through, unbalanced, 1.0 Vp-p, 75 Ω

#### Analog Composite Output
- BNC x 2

#### Analog Audio Input
- XLR x 2 (channel selectable), +4/-0/-3/-6 dBu (selectable), 600 Ω load, balanced

#### Analog Audio Output
- XLR x 2 (channel selectable), +4/-0/-3/-6 dBu (selectable), 600 Ω load, balanced

#### SD-SDI Output
- BNC x 1, SMPTE 259M

#### HD-SDI Output
- BNC x 2, SMPTE 292M

#### D-sub 15-pin (G/B/R or Y/Pb/Pr)
- Monitor output

#### Analog HD Component Input
- BNC x 4, Y/Pb/Pr/(Sync) or G/B/R/(Sync)

#### Analog Composite Input
- BNC x 1, RS-170M

#### SD-SDI Input
- BNC x 1, SMPTE 259M

#### HD-SDI Input
- BNC x 1, SMPTE 292M

#### Analog Composite Input
- BNC x 1, Y/Pb/Pr/(Sync)

#### Audio Monitor Output
- RCA x 2 (L/R), 47 kΩ, unbalanced

#### S-Video Output
- 4-pin DIN x 1

#### Analog Component Video Input
- BNC x 1, 1.0 Vp-p, 75 Ω, unbalanced

#### Analog Component Video Output
- BNC x 1, 1.0 Vp-p, 75 Ω, unbalanced

#### Composite Video Input
- BNC x 1, 1.0±0.2 Vp-p, 75 Ω, unbalanced

#### Composite Video Output
- BNC x 1, 1.0±0.2 Vp-p, 75 Ω, unbalanced

#### Signal Inputs
- Analog reference input
  - BNC, with loop-through, unbalanced, 1.0 Vp-p, 75 Ω, sync negative

#### Signal Outputs
- Digital audio output
  - AES/EBU, BNC x 2, 4 channels

#### Equipment
- Digital composite video output
  - BNC x 1, 1.0 Vp-p, 75 Ω, sync negative

#### Other Inputs/Outputs
- USB 2.0 x 1 (Full Speed)
- Remote1 x 1, stereo mini jack (for connection with the optional SVRM-100A/DSRM-10 controllers)
- Remote2 x 1, stereo mini jack (for connection with the optional FS-24 foot switch)

#### Power Supply
- AC 100 V to 240 V, 50/60 Hz

#### Power Consumption
- 35 W

#### Operating Temperature
- +5 to +40°C (+41 to 104°F)

#### Humidity
- 20 to 80% (relative humidity)

#### Dimensions
- 212 x 128.5 x 382 mm (8 3/8 x 5 x 15 inches)

#### Weight
- 6.7 kg (15 lb 6 oz)
For Image Monitoring

### Picture Performance

<table>
<thead>
<tr>
<th>Type</th>
<th>a-Si TFT Active Matrix LCD with an AR-coated protection panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>1920 x 1080 pixels (Full HD)</td>
</tr>
<tr>
<td>1920 x 1200 pixels (WXGA)</td>
<td></td>
</tr>
<tr>
<td>Effective Picture Size (H x W) (Diagonal)</td>
<td>698 x 393 mm (27 1/2 x 15 1/2 inches)</td>
</tr>
<tr>
<td></td>
<td>801.3 mm (31 5/8 inches)</td>
</tr>
<tr>
<td>Aspect</td>
<td>16:9</td>
</tr>
<tr>
<td>Colors</td>
<td>Approx. 1,073,700,000 colors (10bit)</td>
</tr>
<tr>
<td></td>
<td>Approx. 16,770,000 colors (8bit)</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>89°/89°/89°/89° (typical) (up/down/left/right contrast &gt;10:1)</td>
</tr>
</tbody>
</table>

### Input

| Composite             | BNC (x1), 1.0 Vpp ±3dB sync negative                        |
| Y/C                   | Mini DIN 4-pin (x1)                                         |
|                       | Y: 1.0 Vpp ± 3dB sync negative, C: 0.286 Vpp ± 3dB (NTSC burst signal level), 0.3 Vpp ± 3dB (PAL burst signal level) |
| RGB Component         | BNC (x3)                                                     |
|                       | RGB : 0.7 Vpp ± 3dB (Sync On Green, 0.3 Vpp ± sync negative) |
|                       | Component : 0.7 Vpp ± 3dB (75% chrominance standard color bar signal) |
| External Sync         | BNC (x1)                                                     |
|                       | 0.3 Vpp ± 4.0 Vpp ± bipolarity tertiary or negative polarity binary |
| DVDI                  | DVI-D (x1)                                                  |
|                       | TMDS single link                                             |
| HD15                  | D-sub 15-pin (x1), R/G/B: 0.7 Vpp ± sync positive (Sync On Green, 0.3 Vpp ± sync negative) |
|                       | Sync: Total level (polarity free, H/V separate sync)         |
|                       | Plug & Play function: corresponds to DDC2B                   |
| Option slot           | 2 slots                                                      |
|                       | A BKM-243HS board is supplied.                               |
| Parallel remote       | Modular connector 8-pin (x1) (Pin-assignable)                 |
| Serial remote         | D-sub 9-pin (RS-232C) (x1), RJ45 modular connector (ETHERNET) |
|                       | (ETHERNET) (x1) (10BASE-T/100BASE-TX)                       |
| DC In                 | DC 5V / 24V (output impedance 0.05 ohms or less)             |
| Output                | BNC (x1), Loop-through, with 75 ohms automatic termination   |
| Y/C                   | Mini DIN 4-pin (x1)                                          |
| RGB Component         | BNC (x3), Loop-through, with 75 ohms automatic termination   |
| External Sync         | BNC (x1), Loop-through, with 75 ohms automatic termination   |

### General

| Power Requirement     | DC IN: 24 V 5.0 A, 5 V 0.060 A (Supplied from AC adaptor)    |
|                       | AC Adaptor (Sony: AC-3250MD)                                 |
|                       | AC IN: 100 V to 240 V 50/60 Hz 1.53 A to 0.58 A              |
|                       | DC OUT: 24 V 5.0 A, 5 V 0.060 A                              |
|                       | DC IN: 24 V 3.5 A, 5 V 0.030 A (Supplied from AC adaptor)    |
|                       | AC Adaptor (Sony: AC-2450MD)                                 |
|                       | AC IN: 100 V to 240 V 50/60 Hz 1.2 V to 0.6 A                |
|                       | DC OUT: 24 V 3.5 A, 5 V 0.030 A (Supplied from AC adaptor)   |
|                       | AC Adaptor (Sony: AC-100MD)                                 |
|                       | AC IN: 100 V to 240 V 50/60 Hz 1.53 A to 0.58 A              |
|                       | DC OUT: 24 V 3.5 A, 5 V 0.030 A (Supplied from AC adaptor)   |
| Power Consumption     | Maximum: approx. 136 W (with 2 x BKM-229X)                   |
| Operating Temperature | 0°C to 35°C (32°F to 95°F) (Recommended: 20°C to 30°C (68°F to 86°F)) |
| Operating Humidity    | 30% to 85% (no condensation)                                 |
| Storage / Transport Temperature | -20°C to +60°C (−4°F to +140°F) |
| Storage / Transport Humidity | 0% to 90% (no condensation)                                  |
| Operating / Storage / Transport Pressure | 700 hPa to 1060 hPa |
| Dimensions (W x H x D) | 783 x 480 x 125 mm (30 7/8 x 18 7/8 x 5 inches) (including the projection parts) |
|                       | 602.4 x 386.2 x 110 mm (23 3/4 x 15 1/4 x 4 3/8 inches) (including projections) |
| Mass                  | 13.3 kg (29 lb 5 oz) (with 1 x BKM-243HS, pre-installed)     |
|                       | 1.2 kg (2 lb 10 oz)                                         |
|                       | 8.5 kg (18 lb 12 oz) (with 1 x BKM-243HS, pre-installed)     |
|                       | 1.3 kg (2 lb 14 oz)                                         |
|                       | 8.7 kg (19 lb 3 oz) (with 2 x BKM-229X)                      |
|                       | AC Adaptor (AC-2450MD)                                      |
|                       | 1.2 kg (2 lb 10 oz)                                         |

### Standards/Regulations

| US/Canada             | Safety: UL 60601-1, CSA C22.2 No.601.1                      |
|                       | EMC: FCC Part 15 SubpartB Digital Device Class A            |
|                       | IECES-003 Class A Digital Apparatus                         |
| Europe                | Safety: EN 60601-1                                          |
|                       | EMC: EN 60601-1-2                                          |
|                       | EC Directive: MDD                                          |
| Australia: EMC EN 55022 Class B |                                             |
| Japan: EMC VCCI Class A |                                                      |
| CB Certification:     | IEC 60601-1, IEC 60950-1                                    |
|                       | Safety: UL 60601-1, CSA C22.2 No.601.1                      |
|                       | EMC: FCC Part 15 SubpartB Digital Device Class A            |
|                       | IECES-003 Class A Digital Apparatus                         |
| Europe                | Safety: EN 60601-1                                          |
|                       | EMC: EN 60601-1-2                                          |
|                       | EC Directive: MDD                                          |
| Australia: EMC AS/NZS CISPR 22 Class B                      |                                             |
| Japan: EMC VCCI Class A                                      |                                                      |
| CB Certification:     | IEC 60601-1, IEC 60950-1                                    |
### For Image Monitoring

<table>
<thead>
<tr>
<th></th>
<th>LMD-2140MD</th>
<th>LMD-1950MD</th>
<th>LMD-1530MD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Picture Performance</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>a-Si TFT Active Matrix LCD with an AR-coated protection panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1024 x 768 pixels (XGA)</td>
<td>1280 x 1024 pixels (SXGA)</td>
<td>1280 x 768 dots (WXGA)</td>
</tr>
<tr>
<td><strong>Effective Picture Size (H x W)</strong></td>
<td>430 x 322 mm (17 x 12 3/4 inches)</td>
<td>376 x 301 mm (14 7/8 x 11 7/8 inches)</td>
<td>334 x 200 mm (13 1/4 x 7 7/8 inches)</td>
</tr>
<tr>
<td><strong>Aspects</strong></td>
<td>4:3</td>
<td>5:4</td>
<td>15:9</td>
</tr>
<tr>
<td><strong>Colors</strong></td>
<td>Approx. 16,770,000 colors (8-bit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Viewing Angle</strong></td>
<td>85°/85°/85°/85° (typical) (up/down/left/right contrast &gt;10:1)</td>
<td>90°/90°/90°/90° (typical) (up/down/left/right contrast &gt;10:1)</td>
<td>88°/88°/88°/88° (typical) (up/down/left/right contrast &gt;10:1)</td>
</tr>
</tbody>
</table>

| **Input**              |            |            |            |
| **Composite**          | BNC (x1), 1.0 Vp-p ±3dB sync negative | HDMI (x1) | | |
| **Y/C**                | Mini DIN 4-pin (x1) | HDMI (x1) | | |
| **RGB, Component**     | BNC (x3) | | | |
| **Audio**              | - | - | Phono jack (x2), -5 dBu 47 kilohms or higher |
| **External Sync**      | BNC (x1) | - | - |
| **HDMI**               | - | | - |
| **DVI**                | DVI-D (x1), TMDS single link | - | - |
| **HD15**               | D-sub 15-pin (x1), D/G/B 0.7 Vp-p sync positive (Sync On Green, 0.3 Vp-p sync negative) | - | - |
| **Option slot**        | 2 slots | - | - |
| **Parallel remote**    | Modular connector 8-pin (x1) (Pin-assignable) | - | - |

| **Output**             |            |            |            |
| **Composite**          | BNC (x1), Loop-through, with 75 ohms automatic termination | - | - |
| **Y/C**                | Mini DIN 4-pin (x1) Loop-through, with 75 ohms automatic termination | - | - |
| **RGB, Component**     | BNC (x1), Loop-through, with 75 ohms automatic termination | - | - |
| **Audio monitor out**  | - | - | Phono jack (x2), Loop-through |
| **Speaker (Built-in)** | - | - | 0.5 W (mono) |

| **General**            |            |            |            |
| **Power Requirement**  | AC 100 V to 240 V, 50/60 Hz, 1.2 A to 0.6 A (Supplied from AC adaptor) | DC IN: 24 V 2.8 A | AC 100 to 240 V, 50/60 Hz |
| **Power Consumption**  | Maximum: approx. 100 W (with 2 x BKM-255DV) (Standard: Approx. 92 W (without optional input adaptor)) | Maximum: approx. 66 W (with 2 x BKM-229X) (Standard: Approx. 59 W (without optional input adaptor)) | Maximum: approx. 40 W, 0.6 A to 0.4 A |
| **Operating Temperature** | 8°C to 40°C (2°F to 104°F) Recommended: 20°C to 30°C (68°F to 86°F) | 0°C to 35°C (32°F to 95°F) Recommended: 20°C to 30°C (68°F to 86°F) | 0°C to 35°C (32°F to 95°F) Recommended: 20°C to 30°C (68°F to 86°F) |
| **Operating Humidity** | 30% to 85% (no condensation) | 30% to 85% (no condensation) | 30% to 85% (no condensation) |
| **Storage / Transport Humidity** | 20°C to 60°C (-4°F to +140°F) | 20°C to 60°C (-4°F to +140°F) | 20°C to 60°C (-4°F to +140°F) |
| **Storage / Transport Temperature** | -10°C to +40°C (-14°F to +104°F) | -10°C to +40°C (-14°F to +104°F) | -10°C to +40°C (-14°F to +104°F) |

| **Mass**               | 9.8 kg (21 lb 10 oz) with (2 x BKM-255DV) | 9.4 kg (20 lb 12 oz) with (2 x BKM-229X) | 6.2 kg (13 lb 11 oz) |

For Image Printing

<table>
<thead>
<tr>
<th>Color Video Printer</th>
<th>Color Video Printer</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP-25MD</td>
<td>UP-55MD</td>
</tr>
</tbody>
</table>

- **Printing Method**: Dye sublimation thermal transfer
- **Resolution**: 423 dpi, 379 dpi
- **Gradients**: 256 levels (8 bits) each for Yellow, Cyan, Magenta
- **Picture elements**: UP-21L/24LA: 2,132 x 1,600 dots; UP-21S/24SA: 1,600 x 1,200 dots; UP-24LA: 2,528 x 1,920 dots (full screen print)
- **Paper size**: A5 Size: 178 x 152 mm (7 1/8 x 6 inches)
- **Printing Time** (High-speed Mode): UP-21L: Approx. 29 sec; UP-21S: Approx. 19 sec; UP-24LA: Approx. 36 sec; UP-24SA: Approx. 25 sec; Approx. 20 seconds
- **Paper tray capacity**: L size tray: Max. 50 sheets; S size tray: Max. 80 sheets; Max. 100 sheets
- **Picture memory**: 8 frame memories
- **Interface**: Video (x1), S-Video (x1), RGB (x1), SYNC (x1)
- **Control connectors**: Remote 1 (special mini) (x1) for optional RM-5500; Remote 2 (stereo mini) (x1) for optional RM-91 or FS-24 Foot Switch; RS-232C interface port (D-sub 25-pin) (x1) for external computer
- **Power requirements**: AC 100 V to 240 V, 50/60 Hz; AC 100 V to 120 V, 50/60 Hz; AC 220 V to 240 V, 50/60 Hz
- **Input current**: 1.7 A to 1.0 A; 100 V to 120 V: Max. 2.8 A; 220 V to 240 V: Max. 1.2 A
- **Operating temperature**: 5°C to 35°C (41°F to 95°F)
- **Operating humidity**: 20% to 80% (no condensation allowed)
- **Storage and transport temperature**: -20°C to +60°C (-4°F to +140°F)
- **Storage and transport humidity**: 20% to 80% (no condensation allowed) to 20% to 90% (no condensation allowed)
- **Dimensions**: 212 (W) x 98 (H) x 398 (D) mm, (8 3/8 x 3 7/8 x 15 1/2 inches) to 280 (W) x 125 (H) x 398 (D) mm, (11 1/8 x 5 x 15 1/4 inches) excluding the projection parts
- **Mass**: 5.7 kg (12 lb 6 oz) to 9 kg (19 lb 13 oz)
- **Safety standards**: (US/CA) UL 60601-1, UL 60950-1, CSA C22.2 No.601.1, CSA C22.2 No.60950-1; (EU) EN 60601-1, EN 60950-1; (CB) IEC 60601-1, IEC 60950-1
- **EMC standards**: (US/CA) FCC Part 15 Subpart B Digital Device Class A, ICES-003 Class A Digital Apparatus; (EU) EN 60601-1-2, EN 55022 (Class B), EN 55024, EN 61000-3-2, EN 61000-3-3; (AU) EN55022 Class B; (JP) EMC: VCCI Class A, JIS C 61000-3-2
- **EC directive**: (EU) MDD, EMC, LVD
### For Image Printing

<table>
<thead>
<tr>
<th>Video Graphic Printer</th>
<th>Hybrid Graphic Printer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UP-897MD</strong></td>
<td><strong>UP-990AD</strong></td>
</tr>
</tbody>
</table>

#### Printing Method
- Direct thermal printing

#### Resolution
- 325 dpi

#### Gradients
- 8 bits (256 levels) processing

#### Picture elements
- (when "SC: WD1" is selected from "SCAN")
  - EIA: 1,210 x 490 dots
  - CCIR: 1,210 x 582 dots
- Digital: 3,414 x 2,560 dots
  - EIA: 1,280 x 508 dots
  - CCIR: 1,280 x 612 dots

#### Picture area
- (when "SC: WD1" or "SC: NOR" is selected from "SCAN")
  - When "SC: STD" is selected from "SIDE"
    - EIA: 94 x 73 mm
    - CCIR: 94 x 71 mm
  - Digital: 3,414 x 2,560 dots
    - EIA: 1,280 x 508 mm
    - CCIR: 1,280 x 612 mm
  - CCIR: 249 x 188 mm (9 3/4 x 7 3/8 inches)
  - EIA: 187 x 140 mm (7 3/8 x 5 1/2 inches)
  - EIA: 187 x 138 mm (7 3/8 x 5 3/8 inches)
  - CCIR: 249 x 186 mm (9 3/4 x 7 3/8 inches)

#### Paper size
- Paper width of 110 mm (4 3/8 inches)
- Paper width of 210 mm (8 1/4 inches)

#### Printing time
- Approx. 2 seconds / image (at standard setting)
- Approx. 8 seconds / image (in standard mode)

#### Picture Memory
- 10 frame memories (800k x 8 bits per frame)
  - Digital mode: Max. 3,414 x 2,560 dots
  - Analog mode: 6 frames (800k x 8 bits per frame)

#### Interface
- **Input:**
  - VIDEO IN (BNC) (x1)
    - EIA or CCIR composite video signals
    - 1.0 Vp-p, 75-ohm/high-impedance
      (EIA/CCIR automatically discriminated)
- **Output:**
  - VIDEO OUT (BNC) (x1)
    - EIA or CCIR composite video signals
    - 0 Vp-p, 75-ohm loop-through/EE switchable

#### Control connectors
- Stereo mini jack (x1) for optional RM-91 or FS-24 Foot Switch

#### Printer driver software
- Microsoft Windows 2000/XP/Vista

#### Power requirements
- AC 100 V to 240 V, 50/60 Hz

#### Input current
- 1.5 A to 0.8 A
- 2.4 A to 1.3 A

#### Operating temperature
- 5°C to 35°C (41°F to 95°F)

#### Operating humidity
- 20% to 80% (no condensation allowed)

#### Storage and transport temperature
- -20°C to +60°C (-4°F to +140°F)

#### Storage and transport humidity
- 20% to 90%
- 20% to 80%

#### Dimensions
- 154 (W) x 88 (H) x 240 (D) mm
  - (6 1/6 x 3 1/2 x 9 1/2 inches)
  - (6 1/6 x 3 1/2 x 9 1/2 inches)
- 316 (W) x 132.5 (H) x 305 (D) mm
  - (12 1/2 x 5 1/4 x 12 1/8 inches)
- (12 1/2 x 5 1/4 x 12 1/8 inches)

#### Mass
- 2.6 kg (5 lb 11 oz)
- 8 kg (17 lb 10 oz)

#### Safety standards
- (US/CA) UL 60601-1, UL 60950-1, CSA C22.2 No.601.1, CSA C22.2 No.60950-1
- (EU) EN 60601-1, EN 60950-1
- (CB) IEC 60601-1, IEC 60950-1

#### EMC standards
- (US/CA) FCC Part 15 Subpart-B Digital Device Class A, ICES-003 Class A Digital Apparatus
- (EU) EN 60601-1-2, EN 55022 (Class B), EN 55024, EN 61000-3-2, EN 61000-3-3
- (AU) EN55022 Class B
- (JP) EMC: VCCI Class A, JIS C 61000-3-2

#### EC directive
- (EU) MDD, EMC, LVD
For Image Printing

<table>
<thead>
<tr>
<th>Digital Color Printer</th>
<th>Digital Color Printer</th>
<th>Digital Graphic Printer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UP-D25MD</strong></td>
<td><strong>UP-D55</strong></td>
<td><strong>UP-D897</strong></td>
</tr>
</tbody>
</table>

**Printing Method**
- Dye sublimation thermal transfer
- Direct thermal printing

**Resolution**
- UP-D25MD: 423 dpi
- UP-D55: 379 dpi
- UP-D897: 325 dpi

**Gradations**
- UP-D25MD: 256 levels (8 bits) each for Yellow, Cyan, Magenta
- UP-D55: 8 bits (256 levels) processing
- UP-D897: 8 bits (256 levels)

**Picture Elements**
- UP-21L/24LA: 2,100 x 1,600 dots
- UP-21S/24SA: 1,600 x 1,200 dots
- UP-24LA: 1,440 x 1,100 dots
- UP-24SA: 1,100 x 850 dots
- UP-D897: 2,528 x 1,920 dots

**Picture Area**
- A6 S size: 100 x 90 mm (4 x 3 5/8 inches)
- A6 L size: 144 x 110 mm (5 3/4 x 4 inches)
- A5 size: 178 x 152 mm (7 1/8 x 6 inches)
- A4 size: 210 x 297 mm (8 1/2 x 11 inches)
- Max. 100 sheets

**Paper tray capacity**
- L size: max. 50 sheets
- S size: max. 80 sheets
- Max. 100 sheets

**Picture memory**
- Two frame memories
- 18 MB (two frame memories)
- 4,096 x 1,280 x 8 (bit)

**Interface**
- Hi-Speed USB (USB 2.0) (x1)

**Printer driver software**
- Microsoft Windows 2000/XP/Vista

**Power requirements**
- AC 100 V to 240 V, 50/60 Hz
- AC 100 V to 120 V, 50/60 Hz
- AC 220 V to 240 V, 50/60 Hz

**Input current**
- 1.7 A to 1.0 A
- 100 V to 120 V: 2.8 A
- 220 V to 240 V: 1.2 A
- 1.5 A to 0.8 A

**Operating temperature**
- 5°C to 35°C (41°F to 95°F)

**Operating humidity**
- 20% to 80% (no condensation allowed)

**Storage and transport temperature**
- -20°C to +60°C (-4°F to +140°F)

**Storage and transport humidity**
- 20% to 80% (no condensation allowed)

**Dimensions**
- 212 (W) x 98 (H) x 398 (D) mm (8 3/8 x 3 7/8 x 15 3/4 inches)
- 280 (W) x 125 (H) x 398 (D) mm (11 1/8 x 5 x 15 3/4 inches)
- 154 (W) x 88 (H) x 240 (D) mm (6 1/6 x 3 1/2 x 9 1/2 inches)

**Mass**
- 5.5 kg (12 lb 2 oz)
- 9 kg (19 lb 13 oz)
- 2.6 kg (5 lb 11 oz)

**Safety standards**
- (US/CA) UL 60601-1, UL 60950-1, CSA C22.2 No.601.1, CSA C22.2 No.60950-1
- (EU) EN 60601-1, EN 60950-1
- (CB) IEC 60601-1, IEC 60950-1

**EMC standards**
- (US/CA) FCC Part 15 Subpart-B Digital Device Class A, ICES-003 Class A Digital Apparatus
- (EU) EN 60601-1-2, EN 55022 (Class B), EN 55024, EN 61000-3-2, EN 61000-3-3
- (AU) EN55022 Class B
- (JP) EMC VCCI Class A
- JIS C 61000-3-2

**EC directive**
- (EU) MDD, EMC, LVD
## For Image Printing

<table>
<thead>
<tr>
<th>DICOM Color Printer</th>
<th>Digital Color Printer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>UP-D77MD</td>
</tr>
<tr>
<td><strong>Printing method</strong></td>
<td>Dye sublimation thermal transfer</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>300 dpi</td>
</tr>
<tr>
<td><strong>Gradations</strong></td>
<td>256 levels (8 bits) each for Yellow, Cyan, Magenta</td>
</tr>
<tr>
<td><strong>Picture elements</strong></td>
<td>A4 size: 3,208 x 2,400 dots Letter size: 3,000 x 2,400 dots</td>
</tr>
<tr>
<td><strong>Picture area</strong></td>
<td>A4 size: 271.6 x 203.2 mm (10 3/4 x 8 inches) Letter size: 254.0 x 203.2 mm (10 x 8 inches)</td>
</tr>
<tr>
<td><strong>Paper size</strong></td>
<td>Letter size: 254 x 203.2 mm (10 x 8 inches)</td>
</tr>
<tr>
<td><strong>Printing time</strong></td>
<td>A4 size: Approx. 85 seconds / image</td>
</tr>
<tr>
<td><strong>Paper tray capacity</strong></td>
<td>72 sheets</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>DICOM 3.0 (100BASE-TX/10BASE-T)</td>
</tr>
<tr>
<td><strong>Printer driver software</strong></td>
<td>Microsoft Windows 2000/XP/Vista</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>AC 100 V to 240 V, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Input current</strong></td>
<td>3.5 A to 1.5 A</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>5°C to 30°C (41°F to 86°F)</td>
</tr>
<tr>
<td><strong>Operating humidity</strong></td>
<td>20% to 80% (no condensation allowed)</td>
</tr>
<tr>
<td><strong>Storage and transport temperature</strong></td>
<td>-20°C to +60°C (-4°F to +140°F)</td>
</tr>
<tr>
<td><strong>Storage and transport humidity</strong></td>
<td>20% to 80% (no condensation allowed)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Width: 493.8 (W) x 176 (H) x 468.8 (D) mm (19 1/2 x 7 x 18 1/2 inches) Height: 317 (H) x 207 (W) x 425 (D) mm (12 1/2 x 8 1/8 x 16 3/4 inches)</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>21 kg (46 lb 5 oz)</td>
</tr>
</tbody>
</table>

## Digital Film Imager

<table>
<thead>
<tr>
<th>Digital Film Imager</th>
<th>UP-DF750</th>
<th>UP-DF550</th>
<th>UP-DF500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Printing method</strong></td>
<td>Direct Thermal Printing</td>
<td>Direct Thermal Printing</td>
<td>Direct Thermal Printing</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>604 dpi</td>
<td>320 dpi</td>
<td>320 dpi</td>
</tr>
<tr>
<td><strong>Gradations</strong></td>
<td>16,384 levels processing</td>
<td>4,096 levels processing</td>
<td>4,096 levels processing</td>
</tr>
<tr>
<td><strong>Picture elements</strong></td>
<td>8,256 x 9,888 dots</td>
<td>5,232 x 4,360 dots</td>
<td>3,000 x 2,400 dots</td>
</tr>
<tr>
<td><strong>Maximum density</strong></td>
<td>3.6 and higher with UPT-F712BL/710BL</td>
<td>3.2 and higher with UPT-F517BL/512BL/510BL</td>
<td>3.2 and higher with UPT-F517BL</td>
</tr>
<tr>
<td><strong>Picture area</strong></td>
<td>UPT-F712BL: 346.7 x 415.3 mm (13 3/4 x 16 3/8 inches) UPT-F517BL/512BL/510BL: 354 x 430 mm (14 x 17 inches)</td>
<td>UPT-F517BL: 346.7 x 415.3 mm (13 3/4 x 16 3/8 inches)</td>
<td>UPT-F517BL: 354.4 x 401.8 mm (15 7/8 x 13 1/4 inches)</td>
</tr>
<tr>
<td><strong>Media size</strong></td>
<td>354 x 430 mm (14 x 17 inches)</td>
<td>354 x 430 mm (14 x 17 inches)</td>
<td>354 x 430 mm (14 x 17 inches)</td>
</tr>
<tr>
<td><strong>Throughput</strong></td>
<td>Approx. 75 sheets per hour (excluding time for cooling the head)</td>
<td>Approx. 70 sheets per hour (excluding time for cooling the head)</td>
<td>Approx. 70 sheets per hour (excluding time for cooling the head)</td>
</tr>
<tr>
<td><strong>Film supply tray</strong></td>
<td>Two trays</td>
<td>One tray</td>
<td>One tray</td>
</tr>
<tr>
<td><strong>Film supply tray capacity</strong></td>
<td>125 sheets (max.)</td>
<td>150 sheets (max.)</td>
<td>150 sheets (max.)</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>DICOM 3.0 (100BASE-TX/10BASE-T), AC IN (for power)</td>
<td>(x1)</td>
<td>(x1)</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>AC 100-120 V, 240 V, 50/60 Hz</td>
<td>AC 100 V to 240 V, 50/60 Hz</td>
<td>AC 100 V to 240 V, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Input current</strong></td>
<td>4.4 A to 2.4 A</td>
<td>4.4 A to 1.8 A</td>
<td>4.4 A to 1.8 A</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>10°C to 30°C (50°F to 86°F)</td>
<td>10°C to 30°C (50°F to 86°F)</td>
<td>10°C to 30°C (50°F to 86°F)</td>
</tr>
<tr>
<td><strong>Operating humidity</strong></td>
<td>20% to 80% (no condensation allowed)</td>
<td>20% to 80% (no condensation allowed)</td>
<td>20% to 80% (no condensation allowed)</td>
</tr>
<tr>
<td><strong>Storage and transport temperature</strong></td>
<td>20°C to 60°C (68°F to 140°F)</td>
<td>20°C to 60°C (68°F to 140°F)</td>
<td>20°C to 60°C (68°F to 140°F)</td>
</tr>
<tr>
<td><strong>Storage and transport humidity</strong></td>
<td>20% to 80% (no condensation allowed)</td>
<td>20% to 80% (no condensation allowed)</td>
<td>20% to 80% (no condensation allowed)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Width: 600 (W) x 316 (H) x 466 (D) mm (23 5/8 x 12 1/2 x 18 1/4 inches) Height: 253 x 304 mm (10 x 12 inches)</td>
<td>Width: 600 (W) x 290 (H) x 466 (D) mm (23 5/8 x 9 7/8 x 18 1/4 inches) Height: 202 x 233 mm (8 x 9 inches)</td>
<td>Width: 600 (W) x 290 (H) x 466 (D) mm (23 5/8 x 9 7/8 x 18 1/4 inches) Height: 202 x 233 mm (8 x 9 inches)</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>63 kg (138 lb 14 oz)</td>
<td>55 kg (121 lb 4 oz)</td>
<td>55 kg (121 lb 4 oz)</td>
</tr>
</tbody>
</table>

* When printing on 14 x 17 inch film.
## For Image Printing

<table>
<thead>
<tr>
<th>Feature</th>
<th>DICOM Digital Imager</th>
<th>Digital Film Imager</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UP-D74XRD</strong></td>
<td><strong>UP-D72XR</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Printing method</strong></td>
<td>Direct Thermal Printing</td>
<td>Direct Thermal Printing</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>300 dpi</td>
<td>300 dpi</td>
</tr>
<tr>
<td><strong>Gradations</strong></td>
<td>512 levels processing</td>
<td>512 levels processing</td>
</tr>
<tr>
<td><strong>Picture elements</strong></td>
<td>2,743 x 2,320 dots</td>
<td>2,743 x 2,320 dots</td>
</tr>
<tr>
<td><strong>Picture area</strong></td>
<td>232.2 x 196.4 mm (9 1/4 x 7 3/4 inches)</td>
<td>232.2 x 196.4 mm (9 1/4 x 7 3/4 inches)</td>
</tr>
<tr>
<td><strong>Printing time</strong></td>
<td>Approx. 40 seconds / image</td>
<td>Approx. 40 seconds / image</td>
</tr>
<tr>
<td><strong>Paper tray capacity</strong></td>
<td>Paper: 100 sheets / Film: 100 sheets</td>
<td>Paper: 100 sheets / Film: 100 sheets</td>
</tr>
<tr>
<td><strong>Picture memory</strong></td>
<td>16 MB</td>
<td>16 MB</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>DICOM port (x1) (RJ-45 modular jack)</td>
<td>DICOM port (x1) (RJ-45 modular jack)</td>
</tr>
<tr>
<td></td>
<td>USB connector (x1)</td>
<td>USB connector (x1)</td>
</tr>
<tr>
<td><strong>Printer driver software</strong></td>
<td>Microsoft Windows 2000/XP/Vista</td>
<td>Microsoft Windows 2000/XP/Vista</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>AC 100 V to 240 V 50/60 Hz</td>
<td>AC 100 V to 240 V 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>AC 100 V to 120 V 50/60 Hz, AC 220 V to 240 V 50/60 Hz</td>
<td>AC 100 V to 120 V 2.9 A, AC 220 V to 240 V 1.3 A</td>
</tr>
<tr>
<td><strong>Input current</strong></td>
<td>3.5 A to 1.5 A</td>
<td>100 V to 120 V: 2.9 A, AC 220 V to 240 V: 1.3 A</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>10°C to 30°C (50°F to 86°F)</td>
<td>10°C to 30°C (50°F to 86°F)</td>
</tr>
<tr>
<td><strong>Operating humidity</strong></td>
<td>20% to 80% (no condensation allowed)</td>
<td>20% to 80% (no condensation allowed)</td>
</tr>
<tr>
<td><strong>Storage and transport temperature</strong></td>
<td>-20°C to +60°C (-4°F to +140°F)</td>
<td>-20°C to +60°C (-4°F to +140°F)</td>
</tr>
<tr>
<td><strong>Storage and transport humidity</strong></td>
<td>20% to 90% (no condensation allowed)</td>
<td>20% to 90% (no condensation allowed)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>412 (W) x 210 (H) x 431 (D) mm</td>
<td>412 (W) x 210 (H) x 431 (D) mm</td>
</tr>
<tr>
<td></td>
<td>(16 1/4 x 8 3/8 x 17 inches)</td>
<td>(16 1/4 x 8 3/8 x 17 inches)</td>
</tr>
<tr>
<td><strong>Mass</strong></td>
<td>16 kg (35 lb 3 oz)</td>
<td>15.5 kg (34 lb 3 oz)</td>
</tr>
<tr>
<td><strong>Safety standards</strong></td>
<td>(US/CA) UL 60601-1, UL 60950-1, CSA C22.2 No.601.1, CSA C22.2 No.60950-1</td>
<td>(EU) EN 60601-1, EN 60950-1</td>
</tr>
<tr>
<td></td>
<td>(CB) IEC 60601-1, IEC 60950-1</td>
<td></td>
</tr>
<tr>
<td><strong>EMC standards</strong></td>
<td>(US/CA) FCC Part 15 Subpart B Digital Device Class A, ICES-003 Class A Digital Apparatus</td>
<td>(EU) EN 60601-1-2, EN 55022 (Class B), EN 55024, EN 61000-3-2, EN 61000-3-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Aui) EN55022 Class B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(JP) EMC: VCCI Class A, JIS C 61000-3-2</td>
</tr>
<tr>
<td><strong>EC directive</strong></td>
<td>(EU) MDD, EMC, LVD</td>
<td>(EU) MDD, EMC, LVD</td>
</tr>
</tbody>
</table>
Optional Accessories

For Image Capture

- **CMA-D2MD/D2MDCE**
  - Camera Adaptor
  - **Connector:** 9-pin, 9-pin, 9-pin
  - **Mass:** 100 g (3.5 oz)

- **FS-24**
  - Foot Switch
  - **Connector:** 4-pin plug, 4-pin plug
  - **Mass:** 100 g (3.5 oz)

- **RM-C950**
  - Remote Control Unit
  - **Connector:** 9-pin, 9-pin, 9-pin

- **CCDC cable**
  - 12-pin, 4-pin DC Cable

- **CCXC-12 cable**
  - 12-pin/12-pin Multi Core Cable
  - **Connector:** 9-pin, 9-pin, 9-pin

- **CCMC-9DS cable**
  - 9-pin/4BNCs, DIN 4-pin
  - **Connector:** 9-pin, 9-pin, 9-pin

- **CCMC-T20/15/10/05**
  - Camera Cable

For Image Recording

- **PDBK-101**
  - Network Board
  - **Connector:** 7-pin, 7-pin, 7-pin

- **PDBK-102**
  - MPEG-TS In/Out Board*
  - **Connector:** 7-pin, 7-pin, 7-pin

- **PDBK-103**
  - HD Analog Input Board*
  - **Connector:** 7-pin, 7-pin, 7-pin

- **PDBK-104**
  - SD Input Up-converter Board*
  - **Connector:** 7-pin, 7-pin, 7-pin

- **SVRM-100A**
  - Remote Control Unit
  - **Connector:** 7-pin, 7-pin, 7-pin

- **FS-24**
  - Foot Switch
  - **Connector:** 4-pin plug, 4-pin plug
  - **Mass:** 100 g (3.5 oz)

For Image Monitoring

- **BKM-220D**
  - SD-SDI 4:2:2 Input Adaptor
  - **Connector:** 9-pin, 9-pin, 9-pin

- **BKM-227W**
  - NTSC/PAL Input Adaptor
  - **Connector:** 9-pin, 9-pin, 9-pin

- **BKM-229X**
  - Analog Component Input Adaptor
  - **Connector:** 9-pin, 9-pin, 9-pin

- **BKM-243HS**
  - HD/SD-SDI SDI & SDI Input Adaptor
  - **Connector:** 9-pin, 9-pin, 9-pin

- **BKM-250TG**
  - 3G/HD-SDI SDI Input Adaptor
  - **Connector:** 9-pin, 9-pin, 9-pin

- **BKM-256DD**
  - DVI-D Input Adaptor
  - **Connector:** 9-pin, 9-pin, 9-pin

- **SU-32FW**
  - Display Stand
  - **Connector:** 9-pin, 9-pin, 9-pin

- **SU-560**
  - Display Stand
  - **Connector:** 9-pin, 9-pin, 9-pin

* Only one of the PDBK-102, 103 or 104 boards can be installed at any one time.
### For Image Printing

<table>
<thead>
<tr>
<th>Size</th>
<th>Product Code</th>
<th>Description</th>
<th>Contents</th>
<th>Paper Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 x 17 Size</td>
<td>UPT-517BL</td>
<td>Blue Thermal Film</td>
<td>100 sheets of print film</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td>11 x 14 Size</td>
<td>UPT-514BL</td>
<td>Blue Thermal Film</td>
<td>100 sheets of print film</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td>10 x 12 Size</td>
<td>UPT-512BL</td>
<td>Blue Thermal Film</td>
<td>100 sheets of print film</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td>8 x 10 Size</td>
<td>UPT-510BL</td>
<td>Blue Thermal Film</td>
<td>100 sheets of print film</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td></td>
<td>UPT-M712BL</td>
<td>Blue Thermal Film</td>
<td>100 sheets of print film</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td></td>
<td>UPT-M710BL</td>
<td>Blue Thermal Film</td>
<td>100 sheets of print film</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td>8 x 10 Size</td>
<td>UPT-736BL</td>
<td>Blue Thermal Film</td>
<td>100 sheets of print film</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td></td>
<td>UPT-735BL</td>
<td>Blue Thermal Transparent Film</td>
<td>100 sheets of print film</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td></td>
<td>UPP-725</td>
<td>Thermal Printing Paper</td>
<td>100 sheets of print media</td>
<td>202 x 253 mm (8 x 10 inches)</td>
</tr>
<tr>
<td>A4 Size</td>
<td>UPC-770</td>
<td>Self-Laminating Color Printing Pack</td>
<td>72 sheets of print paper and 3 rolls of ink ribbon</td>
<td>210 x 297 mm (8 3/4 x 11 1/4 inches)</td>
</tr>
<tr>
<td>Letter Size</td>
<td>UPC-771</td>
<td>Self-Laminating Color Printing Pack</td>
<td>72 sheets of print paper and 3 rolls of ink ribbon</td>
<td>216 x 290 mm (8 1/4 x 11 1/2 inches)</td>
</tr>
<tr>
<td>A4 Size</td>
<td>UPC-81MD</td>
<td>Self-Laminating Color Printing Pack</td>
<td>72 sheets of print paper and 3 rolls of ink ribbon</td>
<td>210 mm x 16 m (8 3/8 x 630 inches)</td>
</tr>
<tr>
<td>A5 Size</td>
<td>UPC-55</td>
<td>Color Printing Pack</td>
<td>200 sheets of print paper</td>
<td>178 x 254 mm (7 x 10 inches)</td>
</tr>
<tr>
<td>Ab Size</td>
<td>UPC-21S</td>
<td>Color Printing Pack</td>
<td>240 sheets of print paper</td>
<td>100 x 150 mm (4 x 6 inches)</td>
</tr>
</tbody>
</table>

**UPC-770**: Self-Laminating Color Printing Pack
- Contents: 72 sheets of print paper and 3 rolls of ink ribbon
- Paper size: 210 x 297 mm (8 3/4 x 11 1/4 inches)

**UPC-771**: Self-Laminating Color Printing Pack
- Contents: 72 sheets of print paper and 3 rolls of ink ribbon
- Paper size: 216 x 290 mm (8 1/4 x 11 1/2 inches)

**UPC-81MD**: Self-Laminating Color Printing Pack
- Contents: 200 sheets of print paper
- Paper length: 216 mm x 15 m (8 1/2 x 590 inches)

**UPC-55**: Color Printing Pack
- Contents: 240 sheets of print paper
- Paper size: 100 x 150 mm (4 x 6 inches)
For Image Printing

**UPC-21L**
Color Printing Pack  
Contents: 200 sheets of print paper  
4 rolls of ink ribbon  
Paper size: 144 x 100 mm (5 3/4 x 4 inches)

**UPC-24SA**
Self-Laminating Color Printing Pack  
Contents: 180 sheets of print paper  
3 rolls of ink ribbon

**UPC-24LA**
Self-Laminating Color Printing Pack  
Contents: 160 sheets of print paper  
4 rolls of ink ribbon

**UPT-210BL**
Blue Thermal Transparent Film  
Paper size: 210 mm (W) x 12.5 m  
Print quantity: 42 prints (6-spint) (with UP-990AD/970AD)

**UPP-210HD**
High Density Printing Paper  
Paper size: 210 mm (W) x 25 m  
Print quantity: 139 prints (with UP-990AD/970AD)

**UPP-210SE**
High Quality Printing Paper  
Paper size: 210 mm (W) x 25 m  
Print quantity: 139 prints (with UP-990AD/970AD)

**UP-20**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UP-21MD**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UP-25MD**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UP-990AD**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UP-970AD**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UPC-24SA**
Self-Laminating Color Printing Pack  
Contents: 180 sheets of print paper  
3 rolls of ink ribbon

**UPC-24LA**
Self-Laminating Color Printing Pack  
Contents: 160 sheets of print paper  
4 rolls of ink ribbon

**UPC-210BL**
Blue Thermal Transparent Film  
Paper size: 210 mm (W) x 12.5 m  
Print quantity: 42 prints (6-spint) (with UP-990AD/970AD)

**UPP-210HD**
High Density Printing Paper  
Paper size: 210 mm (W) x 25 m  
Print quantity: 139 prints (with UP-990AD/970AD)

**UPP-210SE**
High Quality Printing Paper  
Paper size: 210 mm (W) x 25 m  
Print quantity: 139 prints (with UP-990AD/970AD)

**UP-20**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UP-21MD**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UP-25MD**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UP-990AD**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**UP-970AD**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**RM-91**
Remote Commander  
Connector: Stereo mini  
Cable length: 5 m  
Mass: 80 g (3 oz)  
Supplied accessory: Operation manual

**RM-5500**
Remote Control Unit  
Connector: Special mini  
Cable length: 3 m  
Mass: 200 g (7 oz) —including cable  
Supplied accessory: Operation manual

**FS-24**
Foot Switch  
Connector: Stereo mini  
Cable length: 5 m  
Mass: Approx. 190 g (6.7 oz)  
Supplied accessory: Operation manual

**UPA-500**
Cleaning Kit  
Contents: cleaning roller x 5, cleaning paper x 5, wrapping film x 1
General-purpose Optional Accessories (Non medical products)

For Image Capture

CMA-D3/D3CE
Camera Adaptor

SBP-32/16
SxS Pro Memory Cards

SBS-32/G1
SxS-1 Memory Cards*

MEAD-MS01/SD01
Media Adaptor*

CCZ-A cable
26-pin/26-pin Cable

CCMC-3MZ
Cable

* An early version of the PMW-10MD requires upgrade to use SxS-1 Memory Card and Media Adaptor. Regarding the latest compatibility information of the media, please contact your local SONY office.

For Image Recording

DSRM-10
Remote Control Unit

RCC-5G
Remote Control Cable (5m)

PFD50DLA
Professional Disc

PFD23A
Professional Disc
### Print Media at a Glance

<table>
<thead>
<tr>
<th>Size x Size</th>
<th>Description</th>
<th>Model</th>
<th>Print</th>
<th>UP-DF750</th>
<th>UP-DF550</th>
<th>UP-DF500</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 x 11 in.</td>
<td>Blue Thermal Film</td>
<td>UP-517BL</td>
<td>125</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>8.5 x 11 in.</td>
<td>Blue Thermal Film</td>
<td>UP-514BL</td>
<td>125</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>8.5 x 12 in.</td>
<td>Blue Thermal Film</td>
<td>UP-512BL</td>
<td>125</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>8.5 x 10 in.</td>
<td>Blue Thermal Film</td>
<td>UP-510BL</td>
<td>125</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>8.5 x 8.5 in.</td>
<td>Blue Thermal Film</td>
<td>UP-507BL</td>
<td>125</td>
<td>○</td>
<td>○</td>
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</tr>
<tr>
<td>11 x 17 in.</td>
<td>Blue Thermal Film</td>
<td>UP-736BL</td>
<td>100</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>11 x 17 in.</td>
<td>Blue Thermal Transparent Film</td>
<td>UP-735BL</td>
<td>100</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>8.5 x 11 in.</td>
<td>Thermal Printing Paper</td>
<td>UP-725</td>
<td>100</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

### A4 size

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>Print</th>
<th>UP-DF750</th>
<th>UP-DF550</th>
<th>UP-DF500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-Laminating Color Printing Pack</td>
<td>UPC-791MD</td>
<td>100</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Self-Laminating Color Printing Pack</td>
<td>UPC-770</td>
<td>72</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

### Letter size

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>Print</th>
<th>UP-DF750</th>
<th>UP-DF500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-Laminating Color Printing Pack</td>
<td>UPC-781MD</td>
<td>100</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Self-Laminating Color Printing Pack</td>
<td>UPC-771</td>
<td>72</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

### A5 size

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>Print</th>
<th>UP-DF750</th>
<th>UP-DF500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Printing Pack</td>
<td>UPC-56</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Color Printing Pack</td>
<td>UPC-510</td>
<td>200</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Color Printing Pack</td>
<td>UPC-5510</td>
<td>200</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Color Printing Pack</td>
<td>UPC-5010A</td>
<td>100</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

### A4 width

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>Print</th>
<th>UP-DF750</th>
<th>UP-DF500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Thermal Transparent Film</td>
<td>UP-210BL</td>
<td>12.5 m</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>High Density Printing Paper</td>
<td>UP-210HD</td>
<td>25 m</td>
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### Remote Commander at a Glance

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