Video Touch 4K and MDR Video Touch Technical Specifications

PG11026 Rev019

Date: November 2025

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Regulatory and compliance

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Support
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Software Version
Video Touch 4K 4.0 and earlier
MDR Video Touch 1.32 and earlier

General warnings and precautions

To ensure patient safety and adhere to HIPAA Privacy Rule involving patient health information, the Healthcare provider shall assign a unique Accession Number and Medical Record Number (MRN) to identify individual patient's health record affiliated with the patient to prevent erroneous medical data and duplicate identification with other patients.

There is no impact to patient population, body part or tissue contact with MDR Video Touch and Video Touch 4K; it does not have any applied parts.

Disconnection of the power cord is needed to electrically isolate the unite from the supply mains, the unit should not be installed in such a way as to make that difficult.

Note:

A power failure during video capture can cause corrupted files and possible data loss.

Symbols glossary

ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

3082 - Manufacturer: Indicates the medical device manufacturer.

ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

Authorized representative in European Community: Indicates the authorized representative in the European union. Symbol is accompanied by the name and address of the authorized representative adjacent to the symbol.

ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

2497 - Date of Manufacture: Indicates the date when the medical device was manufactured.

ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

2493 - Catalog number: Indicates the manufacturer's catalog number so the medical device can be identified.

ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

2498 - Serial number: Indicates the manufacturer's serial number so that a specific medical device can be identified.

ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

1641 - Consult instructions for use: Indicates the need for the user to consult the instructions for use.

ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

0434A - Caution: Indicates the need for the user to consult the instructions for use for important information such as warnings and cautions.

ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

2610 - Patient number: Indicates a unique number associated with an individual patient.

Quantity: Indicates the number of units.

Directive 2012/19/EU on waste electrical and electronic equipment (WEEE).

Front panel. Power status light indicator.

Green light - power on.

Front panel. SSD activity indicator.

Blinking light - active state.

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What are the Video Touch 4K and MDR Video Touch?

The Video Touch 4K and MDR Video Touch are the hardware devices that captures and sends high-resolution images and video from a wide range of modalities to PACS/VNA. They provide image and video capture and transfer at the point of care without the need for a workstation.

Notes:

- The term MDR applies to the MDR Video Touch, Video Touch 4K, MDR-VT products family.
- The default, non-secure communication port for MDR > PACSgear Enterprise Server is 80.

  The default, secure communication port for MDR > PACSgear Enterprise Server is 443.

The Video Touch 4K and MDR Video Touch software are functionally the same, even though they have different hardware. When Video Touch 4K is specified, it may be assumed that this also applies to MDR Video Touch, unless it specifies that it apply to only one product.

The Video Touch 4K and MDR Video Touch have a built-in server that handles security, configuration, and the flow of data between the modalities and destination DICOM systems. However, the Video Touch 4K and MDR Video Touch can also connect to an external instance of PACSGear Enterprise Server to handle these functions.

To configure PACSGear Enterprise Server settings, administrators can use a browser-based interface called Core Server Console (CS Console). You can launch CS Console from a PC or within the Video Touch 4K and MDR Video Touch.

The MDR Video Touch 4k 4.0 and later is compatible with a PACSGear Enterprise Server 5.2.x and later.

Video Touch 4K and MDR Video Touch Technical Specifications

Hardware specifications

The following table provides hardware specifications of the Video Touch 4K and MDR Video Touch.

I/O	Connectors and Adapters
Video in interfaces	Video Touch 4K - HDMI, SDI • HDMI - DVI-D 1.0 and HDMI 1.4 • SDI - SD/HD/3G/6G SDI MDR Video Touch - DVI, BNC, VGA (with DVI-VGA adapter), component (with breakout cable), composite, SDI, HDSDI, HDMI, S Video.
Video Touch 4K SDI	Integrated cable equalizer supporting cable lengths up to 230M for HD signals. • up to 330m for SD-SDI signals • up to 190m for HD-SDI signals • up to 150m for 3G-SDI signals

I/O	Connectors and Adapters
	• up to 75m for 6G-SDI signals Support for SD/HD/3Ga/3Gb/3Ga-DL/3Gb-DS/6G (SMPTE 2081) standards. Support for 2K (2048x1080) & 4K (4096x2160 24Hz) mode. Support for RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 color sampling. Support for 10/12-bit color depth. Support for extraction of SMPTE 352 payload identifier. Support for up to 8 (mono) audio channels at 48KHz (channels 1–8 from the 16 available in the SDI spec). Support for extraction of audio formation information and channel status data. Limited support of 3Gb-DS: only the first stream can be captured. Limited support for capture of the first link of dual link interfaces: • YCbCr 4:2:2 10-bit 1080p 50/59.94/60: captured as 1080i 50/59.94/60 • YCbCr 4:4:4 10-bit: captured as 4:2:2 • RGB 4:4:4: R/B sub-sampled Support for video resolutions: • 1080p 23.97/24/25/29.97/30/50/59.94/60 • 1080i 23.97/24/25/29.97/30/50/59.94/60 • 3840x2160 23.98/24/25/29.97/30 • 4096x2160 @ 24Hz Support for closed caption.
Video Touch 4K HDMI	297MHz HDMI receiver. Adaptive HDMI equalizer. Support for customized EDID. Support for extraction of AVI/Audio/SPD/MS/VS/ACP/ISRC1/ISRC2/Gamut InfoFrames. Full colorimetry support. Support for 8-bit signals that use RGB/YUV 4:4:4 color sampling at pixel rate no more than 297 MHz.

I/O	Connectors and Adapters
	Support for 12-bit signals that use YUV 4:2:2 color sampling at pixel rate no more than 297 MHz. Support for 10/12-bit signals that use RGB/YUV 4:4:4 color sampling at pixel rate no more than 170 MHz. Support for extraction of audio formation information & channel status data. Support for extraction of video timing information. Support for extraction of 3D format information. Support for extraction of Sony/Canon DSLR time code. Support for Side-by-Side Half, Top-and-Bottom, Frame Packing 3D mode. Support for video resolutions: • 1080p 23.97/24/25/29.97/30/50/59.94/60 • 1080i 23.97/24/25/29.97/30/50/59.94/60 • 3840x2160 23.98/24/25/29.97/30 • 4096x2160 @ 24Hz
Video out	Video Touch 4K - HDMI, DP++, VGA: • Chipset: Supports Intel HD Graphics, Intel 6th generation Core I processors, i7-6700, i7-6700TE, i5-6500, i5-6500TE, 13-6100, i3-6100TE, Pentium G4400, G4400TE, Celeron G3900, G3900TE • Display Memory: 1 GB maximum shared memory with 2 GB and above system memory installed. • Resolution: Supports VGA up to resolution 1920 x 1200 @ 60 Hz refresh rate and single channel 18/24-bit/Dual channel 36/48-bit LVDS which supports max resolution 1920 x 1200. Supports DP++ up to 3840x2160 @ 60 Hz resolution, and compliant with HDMI 2.0 specifications, up to resolution of 4096 x 2304 @ 60 Hz. MDR Video Touch – DVI, HDMI
Video Capture formats	Support for capture image resolutions up to 4096x2160 pixels Support for capture frame rates up to 144fps (Actual capture frame rate can be limited by PCIe bandwidth

I/O	Connectors and Adapters
	& image resolution) Support for 4:2:0 8-bit capture formats: NV12, I420, YV12 Support for 4:2:2 8-bit capture formats: YUY2, YUYV, UYVY Support for 4:4:4 8-bit capture formats: V308, IYU2, V408, BGR24, BGR32 Support for 4:4:4 10-bit capture formats: V410, Y410
Audio in	Stereo RCA, USB
Audio out	Headphone, speaker (1/8" mini-jack)
Remote Trigger	BNC or 3.5 mm connector to SPST switch closure for remote triggering by external equipment
USB	USB-A – For software upgrade from flash drive
Wi-Fi Antenna Connectors	For Intel® Wi-Fi Adapter FIPS Compliant
Power	For IT systems: Mean Well GST90A12-P1M For Medical systems: Mean Well GSM90A12-P2K

Installation and service

Installation by qualified service personnel requires less than one (1) hour. The Video Touch 4K can be installed with tools typically used by field service personnel. Replacement of the Video Touch 4K by qualified service personnel should not exceed one (1) hour.

Do not modify this equipment without authorization of the manufacturer.

A hospital-grade power cord shall be used with Medical Systems. Disconnection of the power cord is required to isolate the equipment from electrical supply mains for service.

Marking

Each unit is marked with the part number, serial number and date of manufacture in accordance with applicable drawings and regulatory requirements.

Environmental requirements

Operation	
Temperature	0° C to +40° C (+32° F to 104° F)
Barometric pressure	700 hPa to 1060 hPa
Altitude	-450 to 3000 Meters
Relative humidity	5% to 95%, non-condensing
Ingress protection	IPX0

Transportation/Storage	
Temperature	-10° C to + 65° C (+14 F to +149° F)
Barometric pressure	700 hPa to 1060 hPa
Altitude	-450 to 3000 Meters
Relative humidity	5% to 95%, non-condensing

Preventative maintenance and cleaning

Sterilization is not intended. Routine cleaning using agents commonly used for that purpose shall not affect operation. For more details on maintenance and cleaning, consult Hyland Video Touch 4K and MDR Video Touch User Help (eIFU) located at https://community.hyland.com/support.

Operation

Control of the Video Touch 4K shall be by hand by a trained operator, or controlled automatically by another device. Operation information is provided on electronic or other media. Operator training is available.

Video Touch 4K accessories shall be appropriate for the intended environment.

IT security measures

PACSGear highly recommends firewall, anti-virus, anti-intrusion and communication encryption certificate controls on computers running PACSGear products. It is up to the customer to deploy and maintain these controls and integrate with existing network security control setups.

Protection against unauthorized access through user controls

You can configure PACSGear products to use customer's user-access controls, such as Active Directory or LDAP, as well as local user accounts. Local user account information is stored with strong encryption and protection against unauthorized access. Configuring and maintaining user access controls are detailed in the User Help for the product.

Access control to the server database

PACSGear products that require databases provide a default installation of SQL with strong passwords for access. Alternatively, customer-supplied databases may also be used, in which case it is the responsibility of the customer to provide strong encryption and password protection.

Expected lifetime

The Video Touch 4K expected service life is at least five years of normal operation.

Input voltage requirements

IT systems

The Video Touch 4K Power Supply is rated 100 – 240VAC, 2.5 – 1.0A, 50 – 60 Hz.

Medical systems

The Video Touch 4K is rated 100 – 240VAC, 50 – 60 Hz, 1.5-0.6A.

Mechanical specifications

Video Touch 4K

Dimensions

The Video Touch 4K, not including connectors and mounting feet, has the following dimension

Dimensions	Metric (cm) ± .3 cm	English (Inches) ±.1 inch
Height	24.5	9.6
Width	12.7	5
Depth	27.9	11

Weight

The Video Touch 4K, not including connectors and mounting feet, weighs 3.8 kg (8.5 lbs.).

VESA mounting

Video Touch 4K shall have standard VESA 75mm and 100mm mounts.

Shipping dimensions and weight

Dimensions

Dimensions	Metric (cm) ± .3 cm	English (Inches) ±.1 inch
Height	44.5	17.5
Width	22.6	8 7/8
Depth	36.8	14.5

Weight

The shipping container, with Video Touch 4K and accessories, weighs 8.5 kg (18.74 lbs.).

MDR Video Touch

Dimensions

The MDR Video Touch, not including connectors and mounting feet, has the following dimension

Dimensions	Metric (cm) ± .3 cm	English (Inches) ±.1 inch
Height	13.7	5.4
Width	25.2	9.9
Depth	22.0	8.7

Weight

The MDR Video Touch weighs 4.1 kg (9 lbs).

Shipping dimensions and weight

Dimensions

Dimensions	Metric (cm) ± .3 cm	English (Inches) ±.1 inch
Height	34.3	13.5
Width	30.5	12
Depth	35.6	14

Weight

The shipping container, with MDR Video Touch and accessories, weighs 6.8 kg (15 lbs).