





MediCap™ USB300


High Definition
Medical Video Recorder


User Guide




Precautions for Use

 <p>The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">CAUTION</div> <div style="background-color: black; color: white; padding: 2px; margin-bottom: 5px;">RISK OF ELECTRIC SHOCK DO NOT OPEN</div> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	 <p>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>
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 **WARNING:** To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

 **CAUTION:** To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

 **CAUTION:** Do not use the images for diagnosis or evaluation purposes. The compression reduces the information of the picture and is therefore not appropriate for diagnosis.

USA FCC CLASS A:
 This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.
 These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. Like all similar equipment, this equipment generates, uses, and can radiate radio frequency energy; and if not installed and used in accordance with the operator manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference, in which case you will be required to correct the interference at your own expense.

CANADA ONLY / CANADA SEULEMENT

Caution:
 This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Attention:
 L'interférence radioélectrique générée par cet appareil numérique de type A ne dépasse pas les limites énoncées dans le Règlement sur les perturbations radioélectriques, section appareil numérique, du Ministère des Communications.

Disposal Method: Use your local regulations for proper disposal.

Important Safety Instructions

1. Read all of these instructions.
2. Keep these instructions.
3. Heed all warnings in these instructions.
4. Follow all of these instructions.
5. Do not misuse this apparatus.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat source such as radiators, heat registers, stoves or other apparatus that produces heat.
9. Do not tamper with the polarized or grounding-type plug. A polarized plug has two types of blades with one being wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched especially near plugs, outlets, and the point where the cord exits from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to prevent the cart from tipping over and to avoid injury.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Disconnection Method: Switch off AC power by the rocker switch on the rear panel, disconnect power cord.
15. Rocker switch on the rear panel is a single port switch. In switch OFF position, neutral wire is still connected to the unit. To make sure of the complete unit disconnection from the mains, please use disconnection method (14).
16. Do not place vessels containing water or other liquids (such as vases, etc.) on top of the apparatus. Do not splash water on top of the apparatus.
17. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when a power supply cord or plug has been damaged, liquid has been spilled on the apparatus, objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, or does not operate normally, or has been dropped.

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Introduction

The MediCap™ USB300 records medical images and video clips from virtually any medical video device (endoscope, arthroscope, surgical microscope, ultrasound, etc.). You can record in high-definition (HD) or standard-definition (SD). Your recordings can be saved to a convenient USB flash drive or to the USB300's internal hard drive¹.

Quick Start: Review the front and back panels, and the connection diagrams on the following pages. Then refer to the “Quick Start Guide” on page 8.

To get started, connect your USB300 as shown on page 7 and then insert the included MediCapture USB flash drive into the front panel. Now you can use your medical video device as you normally do while recording images and video clips with your USB300.

To turn on the USB300, first turn on the Master Power Switch on the back panel and then press the *Power* button on the front panel.

Recording Still Images

When you see an image on your monitor that you would like to record, press the *Record Photo* button. This will save a still image. You can continue pressing this button to save more images.

Recording Video

When you see video on your monitor that you would like to Record, press the *Record Video* button once to begin recording and then press the button again to stop recording.

Ordering Information

MediCapture recommends MediCapture™ brand USB flash drives. Please visit www.medicapture.com for information on how to purchase flash drives.

Technical Support

For technical support and other questions, please visit www.medicapture.com or call 888-922-7887 (toll free from within the USA) or 503-445-6935 (from outside the USA).

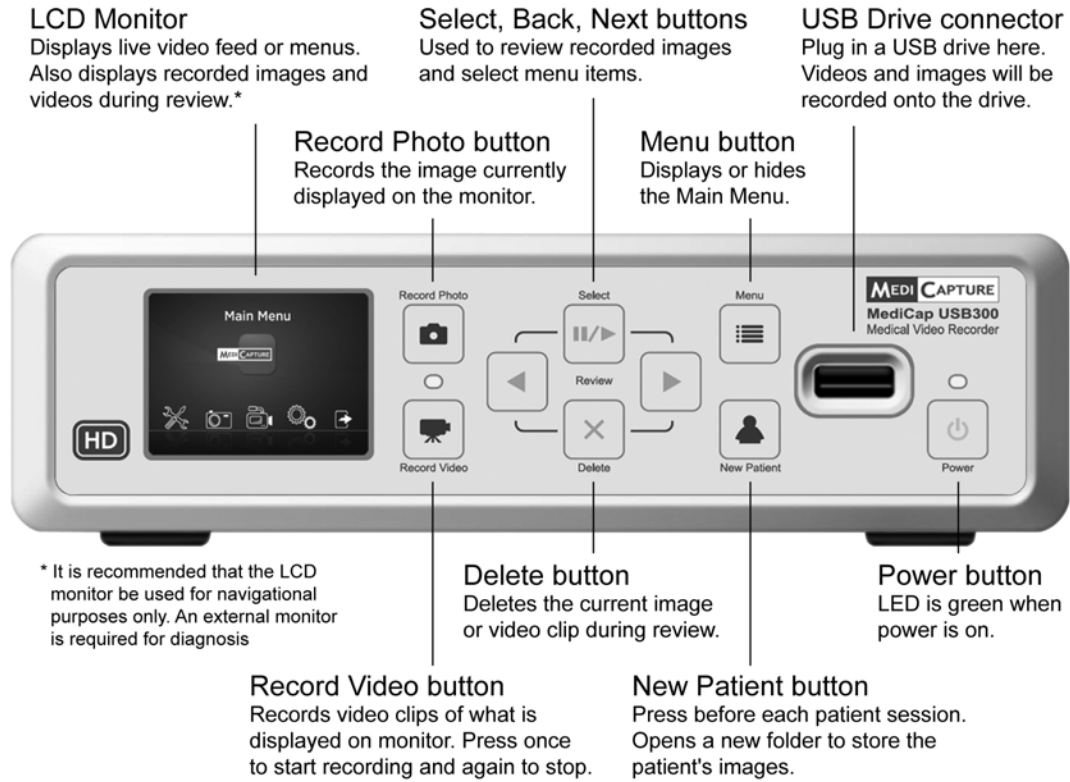


MediCapture Inc.

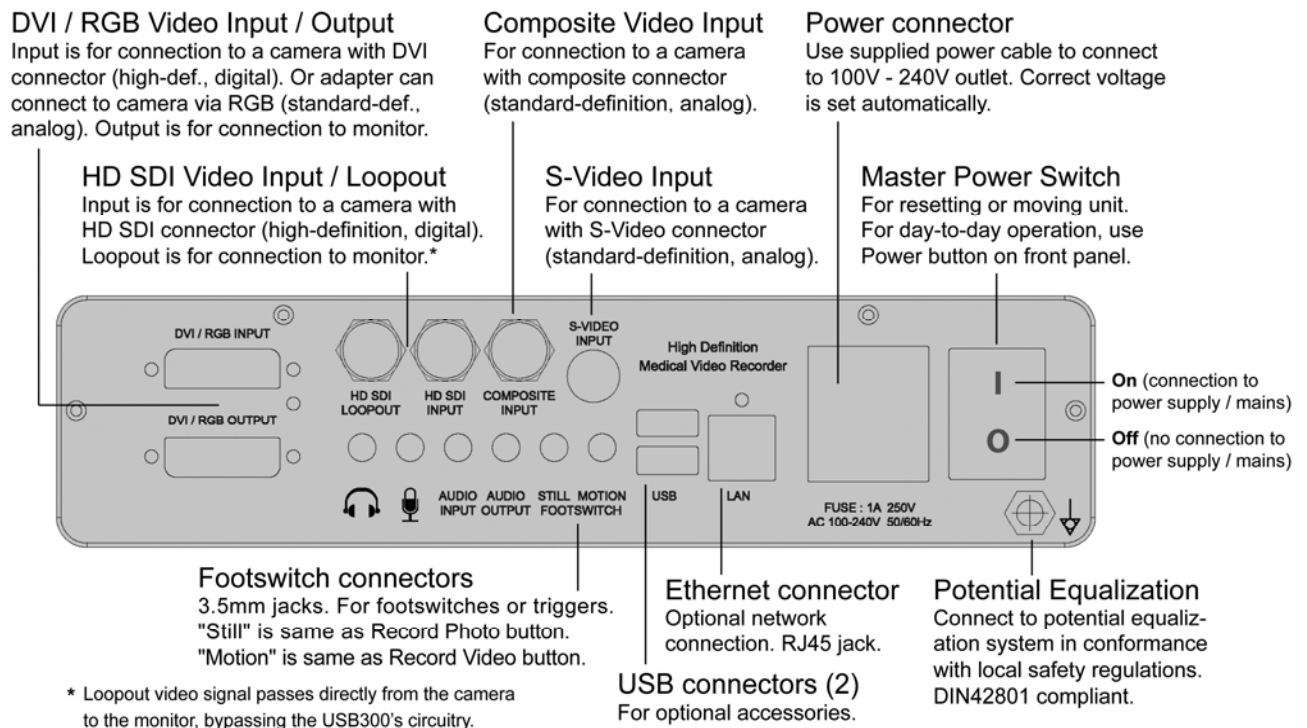
580 West Germantown Pike, #103
Plymouth Meeting, PA 19462 USA

¹ For information on how to enable the internal hard drive, see p. 17.

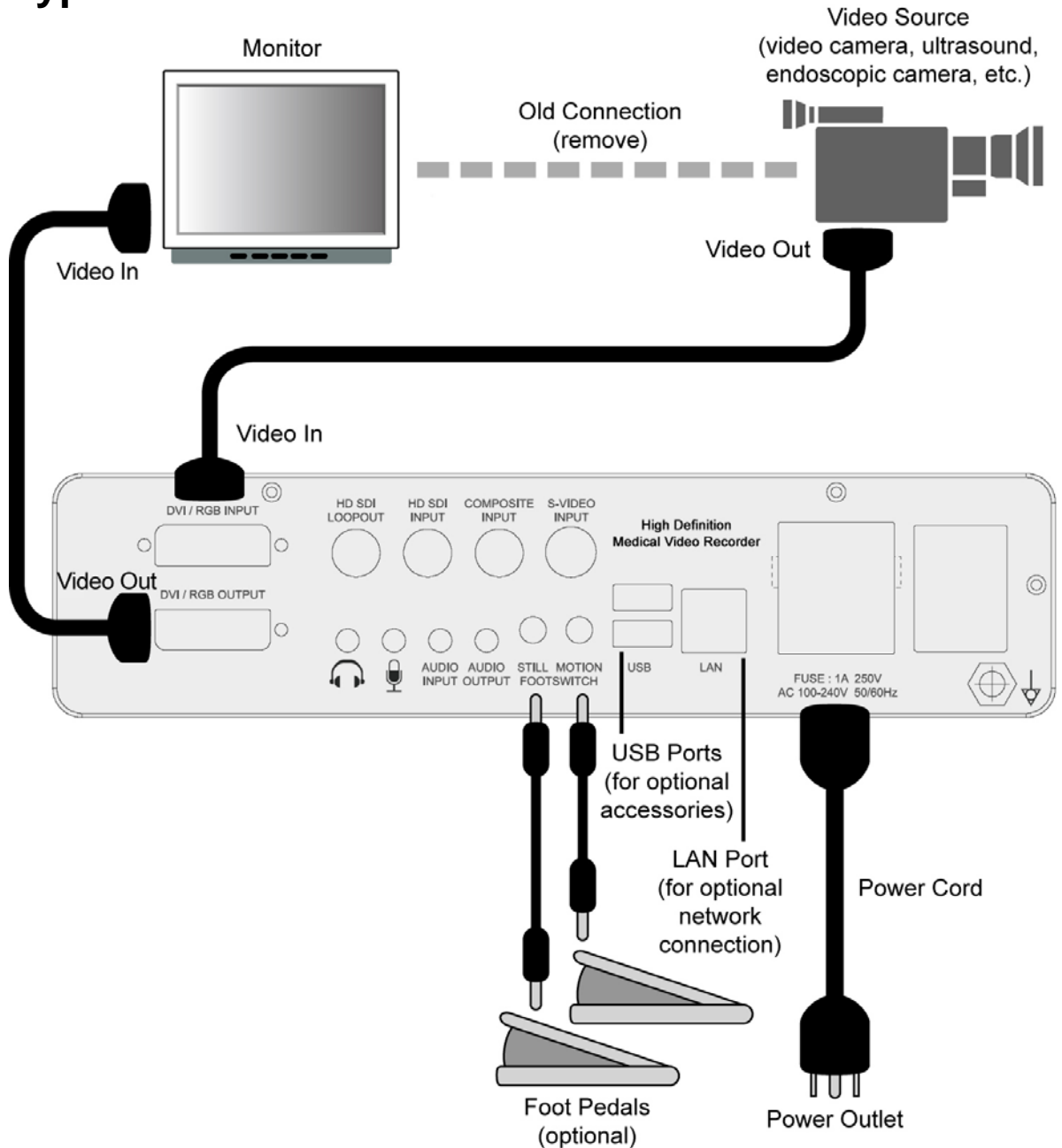
Front Panel



Back Panel



Typical Connections



Note: For more information on connecting your USB300, please visit www.medicapture.com/support.



The unit is for exclusive interconnection with IEC60601 certified equipment in the patient environment and IEC60XXX certified equipment outside of the patient environment.

A certified power supply cord set must be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. The power supply cord shall be not less robust than an ordinary tough rubber-sheathed flexible cord according to IEC 60245 (designation 53) or ordinary polyvinyl chloride sheathed flexible cord according to IEC 60227 (designation 53).

The power cord set shall have a power supply cord with conductors providing a cross-sectional area of 3 x 0.75mm² minimum.

Quick Start Guide

1. Connect the USB300 and turn it on. A typical configuration is shown on page 7. (More information on connecting the USB300, is available at www.medicapture.com.)
2. After a few seconds, you will see your live video on the monitor.
3. Insert the supplied MediCapture USB flash drive in the front panel. (This is a small “stick” with a silver connector on one end.)
4. Use your imaging equipment as you normally do, except now you can record images and video clips onto the USB flash drive.¹
5. To record images and video clips:
 - a. **Images:** When you see an image on the monitor that you want to record, press the *Record Photo* button.
 - b. **Video Clips:** If you want to record a video clip, press the *Record Video* button one time to start recording. Press the *Record Video* button again to stop the recording.
6. You can review the images that you have recorded by using the *Select, Back and Next* buttons on the front panel.
7. **IMPORTANT:** When you **finish** recording **all** the images and video clips for the current patient, press the *New Patient* button to start recording images and videos for the next patient. This will store the new patient’s images and video clips in a new folder.
8. After you are finished recording images and video clips, remove the flash drive from the USB300.
9. Insert the flash drive in the USB connector of a computer. Navigate to the USB drive. You can then access the images and video clips that you have just recorded and move them from the USB drive to your computer.

Your computer may need software to play your recorded videos. If your videos do not play, please see page 16.

That’s it! You’ve recorded your first videos and images!

Note: If the picture on your external monitor is “stretched”, ensure you have selected the proper resolution for your monitor (press “Menu” on the front of the unit – use the arrow and “Select” buttons to go to “Setup” / “Output Resolution”).

To configure your USB300, see the Menu sections in this manual starting on page 12.

The first time you turn on your new MediCap, you will need to set the clock. To do so, press “Menu” on the front panel, go to the Setup Menu, and select Date/Time. **To ensure that the clock remains accurate, leave the Master Power Switch on the back panel ON at all times.** You can use the Power button on the front panel to turn the unit on and off during daily use without affecting the clock.

¹ It is recommended that new users begin by recording onto a USB flash drive. Later, after you have become familiar with the unit, you may wish to record to the internal hard drive. See page 17 for information on how to enable the internal hard drive.

Connecting the MediCap USB300

To connect the MediCap USB300, see the diagram on page 7. The unit connects “in-line” between a monitor and a video source (for example, an endoscope, surgical camera, ultrasound, etc.).

1. If you are adding the USB300 to imaging equipment that you are already using, then begin by unplugging the existing video cable that connects the monitor and the video source.
2. Connect a cable between the video *output* on the video source and the appropriate video *input* on the back panel of the USB300. Then connect another cable between the video *output* on the USB300 and the video *input* on the monitor. Depending on your video equipment, you may need to use adapters to make the connections.
3. Plug in the power cord.
4. You can also connect standard footswitches or camera triggers to the back panel. A footswitch or trigger connected to the "Still" connector performs the same function as the *Record Photo* button on the front panel. The "Motion" connector performs the same function as the *Record Video* button. Footswitches are available as an option at www.medicapture.com. *Note that for a camera trigger to be compatible with the USB300, it must be of the simple “closed-contact” type, not a “programmable” type of trigger.*

Inserting a USB Flash Drive

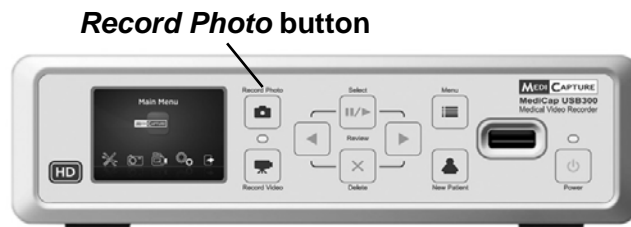
Before you begin using your USB300, insert the supplied MediCapture brand USB flash drive in the USB connector on the front panel.



MediCapture brand flash drives come in a variety of models. The flash drive supplied with your USB300 may not look the same as the one in the above illustration, but it will function in the same way. *MediCapture brand USB flash drives are recommended because they have been tested for compatibility with the USB300. You may use other brand name USB flash drives. However, please note that compatibility is not guaranteed for non-Medicapture brand flash drives.*

Recording Images

Recording images is simple. When you see an image on your monitor that you would like to record, simply press the *Record Photo* button on the front panel. The image will be saved directly to the USB flash drive (later, you can transfer the images from the flash drive to your computer). As an alternative to a flash drive, you can record to the internal hard drive (see p. 17).

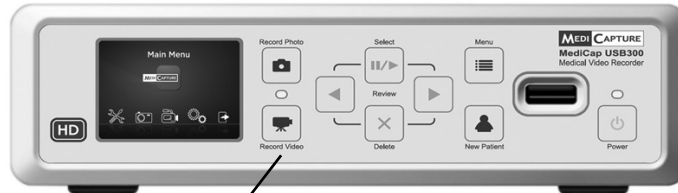


Each time you press the *Record Photo* button, an image is recorded. Note that you can record images while recording video clips (see p. 18). Two things confirm that you have recorded an image:

- The ‘Record Light’ located between the two record buttons blinks once.
- The image number and a camera icon are briefly displayed in the upper-left of the monitor.

Recording Videos

Recording video clips is just as easy as recording images. When you want to start recording video, simply press the *Record Video* button on the front panel. Press the button again to stop recording. The video clip will be saved directly to the USB flash drive (or to the internal hard drive if you have configured it, see p. 17).



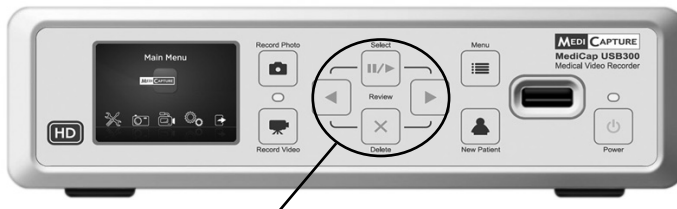
Record Video button

Two things confirm that you are recording a video clip:

- The 'Record Light' located between the two record buttons will blink during recording.
- The recording number and a video camera icon are displayed in the upper-left of the monitor.

Reviewing Images

At any time during an imaging session, you can review the images from your current patient session. Simply press the *Select, Back and Next* buttons on the front panel. This will step you through the images.



Select, Back, Next and Delete buttons are used for reviewing images.

After you review the images, you can record more by pressing either the *Record Photo* or *Record Video* button.

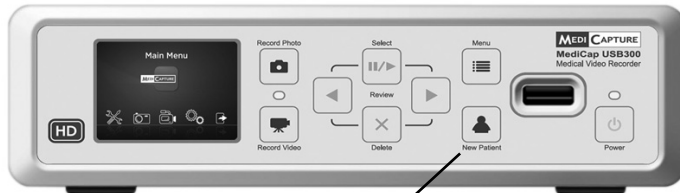
To stop reviewing and resume recording, simply press one of the Record buttons.

The image review feature only displays images from the current imaging session. In order to review images from previous sessions, you must access the files on your computer.

Pressing the Record Photo or Record Video button while you are reviewing, WILL NOT record an image or video, but it will exit the review mode so that the next time you press the record button, it WILL record.

Creating Patient Folders

Each time you start a new imaging session, you can create a new folder to store the images and videos from that session (this keeps the images and videos recorded during your new session separate from the ones recorded in previous sessions). To create a new folder, simply press the *New Patient* button on the front panel.

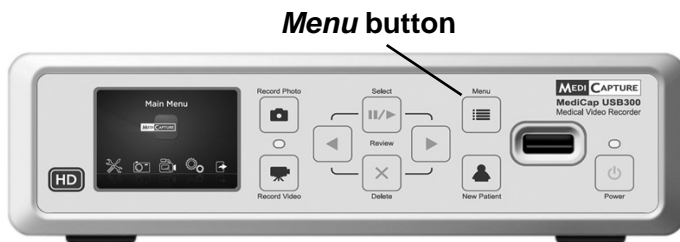


New Patient button

Each time the *New Patient* button is pressed, a new folder will be created on the USB flash drive. The folders will be numbered sequentially (CASE001, CASE002, CASE003, etc.).

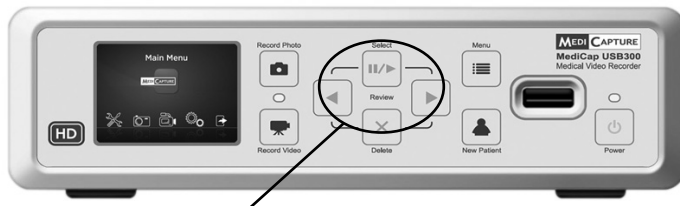
Using the Menus

Settings and options for the USB300 can be accessed via the Menus.



Menu button

Press the *Menu* button to display the Main menu. You can scroll through the menu choices using the *Back* and *Next* buttons on the front panel. Use the *Select* button to make a choice.



Select, Back, Next buttons are used for navigating through menus

Important Note:

If the USB flash drive has no cases on it, a new patient folder will be created automatically the first time you press the Record Photo or Record Video button. If there are already cases on the USB flash drive, you need to press the New Patient button to create a new folder.

Patient Information:

If the "Patient Information" feature is turned on, each time a new folder is created the Patient Information screen will be displayed. This gives you the opportunity to enter the patient's name, etc. See page 18 for more information.

Main Menu



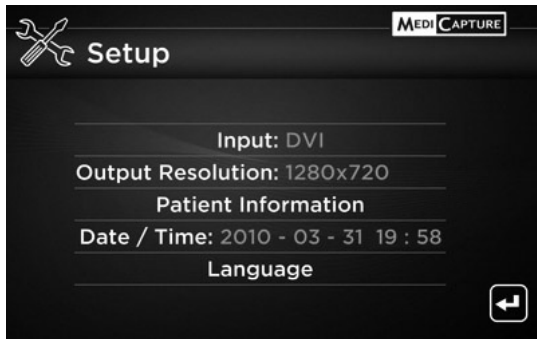
To display the Main Menu, press the *Menu* button on the front panel. Then you can use the *Next* and *Back* buttons to navigate through the submenus. Use the *Select* button to make a choice.

The submenus to the Main Menu are:

- **Setup:** Use this menu to set the input options, clock, monitor resolution, and language preference. You can also use this menu to turn on and configure the “Patient Information” feature. This feature allows you to enter patient information at the start of each imaging session. Using this feature requires a USB keyboard (available as an option).
- **Image Options:** Use this menu to select the format of images (for example, JPG or BMP).
- **Video Options:** Use this menu to select the recording quality and time limit for recordings.
- **Advanced Options:** This menu allows you to configure your USB300 for connection to a network. You can also view all of the current settings for your USB300 and reset them to factory defaults. In addition, you can upgrade your USB300 with the latest firmware (requires a special “upgrade USB flash drive” available from MediCapture).
- **Exit:** Exits the menus so you can record images and video clips. This option is the same as pressing the *Menu* button on the front panel.

These submenus are described in the following sections.

Setup Menu



Setup	
•	Input
▪	DVI, HD SDI, Composite, S-Video, RGB/YPbPr
•	Output Resolution
▪	1920x1080, 1280x1024, 1280x720, 1024x768, 800x600, 640x480
•	Patient Information
▪	Collect Patient Info?
▪	Add Info to File Names?
•	Date / Time
•	Language

Use the Setup Menu to configure these settings:

- **Input:** Use this option to select the video input type (DVI, HD SDI, etc.). Note that if you select a standard definition input such as Composite or S-Video, the correct video system type (NTSC or PAL) will be selected automatically.
- **Output Resolution:** Sets the output resolution that is sent to your monitor.
 - **If your camera is standard definition:** Set the USB300 output resolution to 800x600 for PAL or 640x480 for NTSC.
 - **If your camera is high definition:** Use a high definition monitor. The recommended USB300 output resolution is 1280x720. If this is not compatible with your camera, adjust the USB300 output resolution so the image fills the screen on your external monitor.

Notes:

- At high resolutions, the small monitor on the USB300 front panel will be black. This is normal. The images on your external monitor will be OK. See the “Internal Monitor” section on page 18.
- The USB300 does **not** “scale” the size of the image sent to your monitor. In other words, it does not process the input resolution from your camera to create a larger or smaller output resolution.
- **Patient Information:** This feature allows you to enter patient information at the start of each imaging session. The information can be included in image file names. *Requires a USB keyboard (available as an option).* See page 15 for more information.
- **Date / Time:** Use this menu to set the internal clock. **It is important to set the clock so that your image files will have the proper date and time associated with them. To maintain the current clock setting, leave the Master Power Switch on the back panel ON at all times; to turn the unit on and off, use the front panel Power button.**
- **Language:** Use this menu to select your language preference for the menus.

Image Options Menu



Image Options	
•	Format
▪	JPG, BMP

Use the Image Options Menu to configure how your USB300 records images:

- **Format:** Use this option to select the image format you want to save your photos in. JPG is the format most commonly used on computers.

Video Options Menu

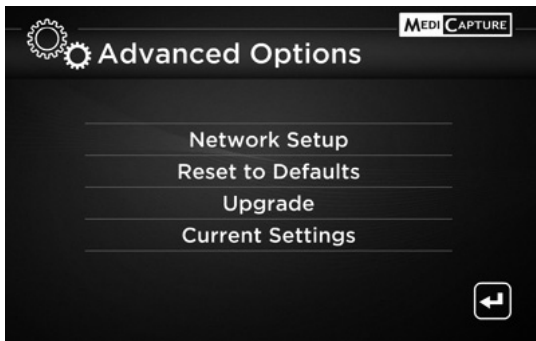


Video Options	
• Quality	<ul style="list-style-type: none"> ▪ Normal ▪ High ▪ Low
• Time Limit	<ul style="list-style-type: none"> ▪ Unlimited, 5 sec., etc.

Use the Video Options Menu to configure how your USB300 records video clips.

- **Quality:** Use to select the quality of video that you record (Normal, High, Low). **Important Note:** The higher the video quality, the larger the file size of video clips.
- **Time Limit:** Use to set the maximum length of video clips. If you select any of the time limits other than *Unlimited*, then a video clip will automatically stop recording after the specified limit.

Advanced Options Menu



Advanced Options	
• Network Setup	<ul style="list-style-type: none"> ▪ Machine name, IP address, etc. ▪ Set recording to internal hard drive
• Reset to Defaults	
• Upgrade	
• Current Settings	

Use the Advanced Menu to configure advanced options such as network setup, recording to the internal hard drive, and performing a firmware upgrade.

- **Network Setup:** Use this option to set the machine name, IP address, network password, etc. (see page 17). This option is also used to set recording to the internal hard drive (see page 17). **This option only applies if you connect the unit to a network.**
- **Reset to Defaults:** Select this option to reset all options to their factory default settings.
- **Upgrade:** This option is used to upgrade the firmware on your system. This allows you to add new features and options to your USB300. To use the upgrade option, you must insert a special “upgrade USB flash drive” in the front panel. Contact your MediCapture representative for a list of available upgrades and for information on how to order an “upgrade USB flash drive.”
- **Current Settings:** This option displays a “snapshot” of all of the current settings on your USB300. This can be useful if you need to troubleshoot your system configuration.

Patient Information Feature

This feature allows you to enter patient information at the start of each imaging session. The information can be included in the file names of still images and video clips. The information is also stored in a text file in the same folder as the images and videos.

Keyboard Required for the Patient Information Feature

To use the Patient Information feature, a USB keyboard must be plugged into one of the USB connectors on the back panel of the USB300. Keyboards from most manufacturers are compatible. Keyboards are also available at www.medicapture.com.

Setting Up the Patient Information Feature

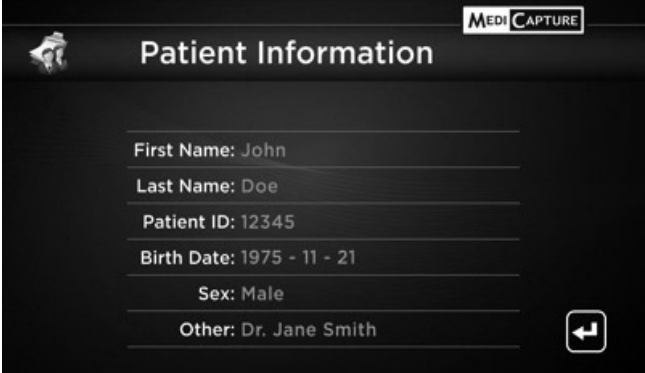
To turn on this feature, press the *Menu* button on the front panel to display the Main Menu. Then select “Setup” and select “Patient Information.” The Patient Information Menu will be displayed. Set “Collect Patient Information” to “Yes.” Then set the following options:

- **Info in File Name?** - Allows you to specify what patient information, if any, will be automatically included in folder and file names. You can select:
 - **None** - No patient information will be included in folder and file names
 - **Name** - The patient’s name will be included
 - **ID** - The patient’s ID will be included
 - **Name+ID** - The patient’s name *and* ID will be included

Using the Patient Information Feature

After you turn on this feature, a Patient Information screen will be displayed at the start of each imaging session (each time you press the *New Patient* button or insert a flash drive). Use a USB keyboard plugged into the back of the unit to enter Patient First and Last Name, ID, Birth Date, and Sex. An “Other” field allows you to enter information such as the name of the attending physician.

To move to the next field, use the Tab key on the keyboard. If you need to go to a previous field, simply tab several times and the cursor will go to the top of the screen.



The screenshot shows the 'Patient Information' screen with the following data entered:

First Name:	John
Last Name:	Doe
Patient ID:	12345
Birth Date:	1975 - 11 - 21
Sex:	Male
Other:	Dr. Jane Smith

When you finish entering information, press the Enter key on the keyboard. If you don’t want to enter any information, simply press the Enter key as soon as the Patient Information screen is displayed.

Accessing Patient Information

The Patient Information for each imaging session is stored in a text file in the same folder as the images (for example, 1_Patient_Info_John_Doe.txt).

Transferring Images from a USB Drive to Your Computer

1. Insert the USB drive containing recorded images into a USB connector on your computer.
2. The computer will manage the USB drive just like any other drive on your computer. Navigate to the drive and open it so you can see the folders it contains.
3. You can click on the images and videos to review them while they are on the drive, or you can move them to your computer's hard drive and review and store them there (recommended). Refer to Windows or Mac OS documentation for information on how to access drives on your computer and manage files.

Viewing Still Images on Your Computer

To view still images in Windows or Mac OS, simply double-click on them and a viewer will open. You can also view and edit your still images using specialized medical image management programs available from many third-party vendors.

Viewing Video Clips on Your Computer

The USB300 records high definition video in the H.264 format, also known as MPEG-4 AVC. This widely used format is ideally suited to medical applications because it delivers the highest quality picture in a compact file size. Although high definition video in the H.264 format has become the preferred standard, most computers still need additional software to play it. For example, on Windows XP and Windows Vista computers, playback is enabled by installing a simple “add-on” to Windows Media Player.

For information on how to install the high definition H.264 “add-on” on your computer, please visit www.medicapture.com/support and see the section on video playback.

Location of Recordings

You can record your videos and images to *one* of the following locations:

- **USB drive plugged into the unit** – You can use the supplied USB flash drive or a USB hard drive (see the next section).
- **Internal hard drive located within the unit** – For more information, see p. 17.

By default, videos and images will be recorded to the USB drive that is plugged into the unit. If you would like to switch the recording location to the internal hard drive, see page 17.

Recordings are made to only *one* location – recordings cannot be made to the internal hard drive and a USB drive at the same time.

External USB Hard Drive

Instead of plugging in a USB flash drive, you can plug in a USB hard drive. You can plug the drive into the front or back panel. Note that you can only use one USB drive at a time. Using a USB hard drive is very similar to using a USB flash drive except that it has greater storage capacity. External USB hard drives are available from a wide variety of computer accessory suppliers.

Before purchasing an external USB hard drive, please note the following:

- **The hard drive must use the “FAT32” format, not the “NTFS” format.**
- Delete any software that came pre-loaded on the drive (it may be incompatible with the USB300).
- To protect your videos and images, it is important to back them up by transferring them from the external hard drive to your computer or network.
- For more information, please see the document titled *Using a Hard Drive with the MediCap* which is available in the Support section at www.medicapture.com.

Internal Hard Drive – For Networked Systems Only

Do not use the internal hard drive until *after* you have connected your USB300 to a network. If you cannot connect to a network, then use an external USB drive instead of the internal hard drive.

To record to the internal hard drive, first configure a network connection as described in the next section. Then go to the Advanced menu and select “Network Setup,” then select “Record To Internal Hard Drive.”



Important Note: When using the internal hard drive, it is important to back up recordings to another location via a network connection. **For this reason, the internal hard drive should only be enabled *after* a network connection is configured** (see the next section). **It is highly recommended that the network connection be used to transfer videos and images from the internal hard drive to another location on a regular and frequent basis.**

Note the following about the internal hard drive:

- You cannot transfer videos from the USB300’s internal hard drive to a USB flash drive or USB hard drive plugged into the unit. You can only transfer videos via a network connection.
- The internal hard drive is not intended for use as a permanent video archive. The internal hard drive should be used only as temporary storage. You should transfer the videos to your permanent video archives via a network connection as soon as possible. This will ensure that the videos are backed up and protected against loss of patient data.

Network Connection

You can connect the USB300 to a network via a standard Ethernet cable plugged into the LAN connection on the back panel. To configure the connection, go to the Advanced menu and select the Network Setup menu. Making the connection requires knowledge of computer networks. It is recommended that you contact a computer professional to make the connection.

When you connect the USB300 to your network, its internal hard drive can be “mapped” on to your computer. You can then “drag and drop” recorded videos from the USB300’s internal drive onto your computer’s drive or any other network drive that is also mapped to your computer.

To connect the USB300 to your network, you will need the following:

- A USB keyboard plugged into the back of the USB300 (needed to make entries in the Network Setup menu on the USB300). USB keyboards from most manufacturers are compatible with the USB300.
- The document titled *How to Connect the MediCap to a Network* which is available in the Support section at www.medicapture.com.

Internal Monitor

The small internal monitor on the front panel is intended as a navigational aid only, not for diagnosis. Use your large external monitor for diagnosis. Due to the small size of the internal monitor, you may notice the following:

- At some resolutions (configured in the Setup Menu), the image on the small internal monitor may appear “squeezed” or may show a black screen while the image on your large external monitor will be OK. This is normal and is due to the small size of the internal monitor. Always refer to your large external monitor for a clear view of your video images.
- When changing to the highest output resolutions in the Setup Menu (1920x1080 and 1280x1024), you will be asked to press a series of buttons to verify that you can see images on your external monitor. After you complete the change to the highest resolution, you will see images on your external monitor, but not on the internal monitor (it will show a black screen). This is because the small internal monitor does not display at the highest resolution, but your external HD monitor will display the images clearly.

Other Features

Recording Images While Recording Video Clips

While a video clip is being recorded, you can also record still images – simply press the *Record Photo* button as you normally would. Because more data is being saved when you are recording video and images at the same time, you may notice that the “save time” (time between each image recording), may be longer than normal.





Deleting Images

While reviewing the current patient session on the USB300, you can delete unwanted images. To do so, when you see an image you want to delete, press the *Delete* button on the front panel and follow the prompts. To delete images from earlier patient sessions, transfer the images to your computer and delete them there.

Footswitches and Camera Triggers

Standard footswitch / camera-trigger connectors are located on the back panel. The two footswitch / camera-trigger connectors serve the same function as the corresponding *Record Photo* and *Record Video* buttons on the front panel. Note that the footswitch / trigger connectors respond to a simple “closed contact”; they are not “programmable.”

Appendix A: MediCap USB300 Specifications

Function	Records video and still images in high definition and standard definition from medical video sources to an internal hard drive or external USB drive
Case	Rugged metal case with high-impact plastic faceplate
LCD Monitor	2 1/2", full color (for video confirmation and navigation only, not for diagnosis)
Buttons	Sealed membrane, fluid resistant
Video Resolutions	High Definition: 1080p, 1080i, 720p Standard Definition: PAL, NTSC
Recording Formats	Videos: H.264 / MPEG4 Images: JPG, BMP
Recording Resolutions	1920x1080, 1280x1024, 1280x720, 1024x768, 800x600, 640x480
Video Connections	Input: DVI (RGB/YPbPr via adapter), HD SDI, S-Video, Composite Output: DVI (RGB/YPbPr, VGA via adapter)
Networking	RJ45 10/100/1000 Ethernet
Internal Storage	Internal hard drive, 320GB (for networked systems only) ¹
External Media	USB flash drives or USB hard drive
USB Support	USB2.0, high speed, 1 front connector, 2 rear connectors (all powered)
Footswitch/Trigger	3.5mm mini jacks (one for recording still images, one for video clips). Compatible with standard footswitches (not included) and closed-contact camera triggers.
Mechanical	Size: 240 x 211 x 63mm / 9.5 x 8.3 x 2.5" / Weight: 1.8kg / 3lb 15oz
Environmental	Operating: ambient temperature -20° to +40° C, air pressure 700 to 1060hPa, humidity 30 to 75% (non-condensing) Storage and transportation: ambient temperature -40° to +85° C, air pressure 700 to 1060hPa, humidity 0 to 93% (non-condensing)
Power	AC 100-240V, 50/60Hz 25W, 3-prong AC jack
Fuse	1A 250V
Kit Contents	MediCap USB300, USB flash drive, video cables, power cable, user guide
Certifications	 Conforms to Medical Devices Directive 93/42/EEC  Medical Equipment with respect to electrical shock, fire and mechanical hazards only in accordance with UL 60601-1, IEC 60601-1, IEC 60601-1-2, CSA C22.2 No.601.1, E306417  This device complies with Part 15 of the FCC Rules.  RoHS compliant
Classification	Class I Equipment / Mode of operation: continuous

No AP/APG. No Applied Part.

Note: These specifications are subject to change without notice.

¹ Recordings on the internal hard drive should be backed up via a network connection. For this reason, the internal hard drive should only be enabled on systems that are connected to a network. For systems not connected to a network, recording is available to a USB hard drive or flash drive.

Appendix B: MediCapture Limited Warranty

MediCapture Inc. (“MediCapture”) warrants the product(s) listed below to be free of defects in materials and workmanship for a period of one (1) year. Should warranty service be required, the warranty period will be extended by the number of days required to restore normal operation and return the product(s).

MediCapture MediCap™ USB300 medical image recording device

Warranty Conditions

If, during the year that immediately follows the purchase date, a product covered by this warranty is found to have a defect in material or workmanship, MediCapture (or a service facility authorized by MediCapture) will restore the product to its original operating condition without charge for parts or labor. Note: MediCapture reserves the right to utilize reconditioned subassemblies as warranty replacements.

This warranty applies only to those products sold by retailers authorized by MediCapture to sell such products and is enforceable by the original purchaser only.

THIS WARRANTY IS APPLICABLE IN THE FIFTY (50) STATES OF THE USA AND THE DISTRICT OF COLUMBIA ONLY. IT IS NOT APPLICABLE IN THE POSSESSIONS OR TERRITORIES OF THE USA OR IN ANY OTHER COUNTRY. THIS IS THE ONLY EXPRESS WARRANTY WHICH MEDICAPTURE MAKES IN CONNECTION WITH THE ABOVE LISTED PRODUCT(S). ANY IMPLIED WARRANTIES APPLICABLE TO THESE PRODUCTS ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY. MEDICAPTURE SHALL NOT BE LIABLE FOR LOSS OF REVENUES OR PROFITS, INCONVENIENCE, EXPENSE FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OR CORRUPTION OF DATA, OR ANY OTHER SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE OR MISUSE OF, OR INABILITY TO USE, THE ABOVE LISTED PRODUCT(S), REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF MEDICAPTURE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE RECOVERY OF ANY KIND AGAINST MEDICAPTURE BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT(S) LISTED ABOVE AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE OR MISUSE, OR INABILITY TO USE, THE ABOVE LISTED PRODUCT(S) NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF MEDICAPTURE (SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY MAY LAST, OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU).

This warranty gives you specific legal rights. You may also have other rights which vary from state to state. In the event any of the provisions of this warranty are found to be unenforceable, all remaining provisions shall retain full force.

Owner Responsibilities

- Read the User Guide completely.
- Warranty registration is not necessary. However, should warranty service be required, you must be able to provide proof of the purchase date and the identity of the seller who made the sale (either MediCapture or an authorized reseller). Please save your sales receipt and invoice.
- Make sure that the proof of purchase that you save contains the serial number and that it matches the number on the unit that you purchased.
- Depending on where you purchased your unit, promptly notify either MediCapture or the authorized reseller of any malfunction upon discovery.
- In the event service is required, return the product to an authorized MediCapture service center. All shipments must be PREPAID. No COLLECT shipments will be accepted. Products repaired under warranty by MediCapture, or an authorized service center, will be returned to the sender PREPAID.
- Products returned for service (in or out of warranty) MUST have a Return Authorization Number issued by MediCapture or an authorized service center.

Exclusions

IMPORTANT: The following conditions can cause this warranty to be unenforceable.

- Purchase of the product listed above from resellers NOT authorized by MediCapture to sell the product.
- Alteration or removal of the trademark, name, or identification number or serial number of the products.
- Use of parts or supplies (other than those sold by MediCapture) that cause damage to the products.
- Product failures that are the result of: neglect, abuse, misuse, modification, or accidental damage

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