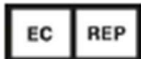


USER'S MANUAL

Digital Video Colposcope
Model: COLpro777-Full HD



Divine Meditech Pvt Ltd
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Sec 1 PREFACE

This manual contains information, which may not be copied or duplicated, in full or in part, without the explicit approval of Divine Meditech Pvt Ltd (INDIA). We reserve the right to make any change in the operator manual, which may affect instructions in this manual, without giving prior notice. The user of this equipment shall be solely responsible for any kind of damage, malfunction to the unit or user as a result of improper use or any kind of repair or alteration done by anyone other than us or a technician duly authorized by the manufacturer to do so.

This operator manual provides directions for using COLpro777-FullHD Digital Video Colposcope. Read all instructions, cautions and warnings prior to use. Failure to follow instructions or to heed warnings could lead to patient or operator injury. COLpro777-FullHD version is our newest, most advanced and recently upgraded model of our COLpro777-FullHD series. Many additional facilities have been added according to the feedback received from various users and stakeholders of our widely acclaimed COLpro777-FullHD series. The Delivered Product may vary slightly in color or shape or specifications due to continuous product development.

Sec 2 DESCRIPTION OF COLpro 777- Full HD

COLpro777-FullHD view is an aid to colposcopy. Colposcopy is a gynecological procedure in which the doctor, using Colposcope looks at the cervix. It comprises of a camera head mounted on a vertical stand. This instrument magnifies the cervix, vagina and external genital area when the doctor points out the camera head at the vagina where a speculum has been placed.

It incorporates latest digital signal processing technology to provide high-resolution images for effective colposcopy. It is a latest generation video colposcope incorporating advanced CCD imaging & illumination technology, aerodynamic design, compact size and offers powerful features like automatic as well as manual focus, electronic multi-grade green filter, magnification indicator among many others. The extra innovative features added are e-flip & mirror image, facility to vary the light intensity, facility to choose various color contrasts to make colposcopy more effective.

COLpro777-FullHD is designed to detect the presence of pre-cancerous tissue or cancerous tissue or any abnormality in cervix area. So far colposcopy plays a significant role in evaluation and treatment of cervical infection like cervical cancer, erosion and inflammation. This manual has been prepared to provide authorized personnel with information on the assembly, functions and routine performance related to the COLpro777-FullHD view. It is provided together with the device and should be available near the device all the time. The user must read and be familiar with the contents of this manual before using the video colposcope. Operation must be performed in accordance with stipulated safety standard thus to ensure patient and operator's safety.




Sec 3 GENERAL WARNINGS & PRECAUTIONS

Intended Use: *For examination of the tissues of the vagina, cervix and external genitalia by means of magnification to investigate abnormal cervical cytology or suspicious lesions of the lower female genital tract. Also used for corresponding biopsy and treatment, when indicated.*

Environmental Requirements:

- Area of camera & Floor stand pole: 0. 4m²
- Ambient temperature: 5°C - 40°C
- Humidity: ≤ 80%
- Atmospheric pressure: 70 kPa-106kPa
- AC 100~240 V, 50/60 Hz
- Well-grounded

Symbols and Terminology:

	Attention: Consult user's manual for additional information
	Caution: This statement identifies a condition or practice, which if not corrected or discontinued immediately, could lead to equipment failure or damage
	Warning: This identifies a condition or symbols practice, which if not corrected or discontinued immediately, could lead to patient injury / illness



WARNINGS

The Colposcope must be connected to a properly installed power outlet with protective earth contacts only. Operation room should be ventilated and free of shock, noise, other strong interference source and direct sunlight.

- Users of this equipment should be thoroughly trained in the appropriate medical procedures. They should take time to read and understand these instructions before performing any procedure. They can also read and follow instructions for any other equipment used in conjunction with the Colposcope.
- The Colposcope should not be operated in the presence of flammable or explosive gases or chemicals, or installed in areas where these materials are commonly used.
- Keep all liquids away from electrical equipment to avoid the possibility of shock and instrument damage.
- Colposcope user should adhere to the operating conditions found in this manual. Otherwise, instrument damage may occur and patient safety may be compromised.
- All signal input and output are intended for connection to only peripheral devices that are compliant to IEC 60601 - 1 or other IEC standards as appropriate to the nature of the peripheral device. Connecting additional peripheral to the video colposcope may increase the risk associated with chassis or patient leakage currents. To maintain operator & patient safety, the user should consider the system leakage current requirements of IEC 60601-1.
- Never stare at the illuminator because it is extremely bright *and may cause injury to the eye*.



CAUTIONS

- Occasionally inspect the power cord for signs of cuts, abrasions or dents.
- The colposcope should never be stored or operated in areas where it could get wet or could be exposed to any environmental conditions like extreme temperature or humidity, direct sunlight, dust etc.
- There are no user serviceable parts in this unit or in its accessories. Any attempt to disassemble and repair this unit will result in voiding of the warranty.
- Do not clean illuminator or lens with alcohol. Do not touch optical parts or lenses.
- Do not sterilize
- Do not immerse any part of the unit in cleaning solutions.



PRECAUTIONS

- **Colposcope Safety:** The safety requirement mentioned in this section is for Colposcope as a whole and applies to the instrument. The importance is not related to the sequence. **NOTE:** This is not a treatment device.
- Please confirm the colposcope is in normal working condition before operation.
- Without losing knob, the excessive force may damage twin axis adapter of colposcope head.
- This is non-contact type examination device, avoid contacting patient during use.
- Before turning off power supply of the whole system, never plug or unplug the video cable.
- Without written approval of the manufacturer, user shall not remove, modify or use accessories, which do not comply with the manufacturer's requirements.
- When connecting the signal cables, handle them carefully. Align the connectors, do not plug or unplug with strong force, otherwise, the cable and connectors may be damaged, which will impact the image quality or camera power supply or even the equipment.
- When not in use, the colposcope power supply shall be turned off, and the camera shall be covered to prevent dust.

- To prevent accidental power failure and other potential accidents, use uninterruptible power system with the colposcope.
- Before cleaning the system, make sure to disconnect the system power cable.
- Clean according to the items specified by Divine Meditech Pvt Ltd (INDIA).
- Keep cellular phones away from the device.
- Packing materials should be put away from children reach or handled according to related regulations.
- In case any doubt arises, please consult with Divine Meditech Pvt Ltd (INDIA). as soon as possible.
- Please comply with the items stipulated in the manual. This manual is not the replacement of medical regulations.

Sec 4 DIRECTIONS FOR USE

COLpro777-FullHD is an easy system to install. Please be sure that all electrical, electronic and environmental requirements are met before installation of the system.

Installation: Composition & Assembly

Vertical Stand Composition: Vertical stand with interface box can be connected to the external display monitor to constitute a complete diagnosis system. It can also be connected to computer workstation to save, analyze print patient information etc. Its height can be adjusted according to actual needs.

External Cable of interface box

- Use accompanying power cord; insert one end into 1 of figure B and the other end to grounded power outlet.
- Connect one end of Y Pb Pr HD Video Cable to fig B full HD output and the other end to an external HD display monitor (with Y Pb Pr). And Connect SVSH or Video Cable to standard video display or colposcopy Software.

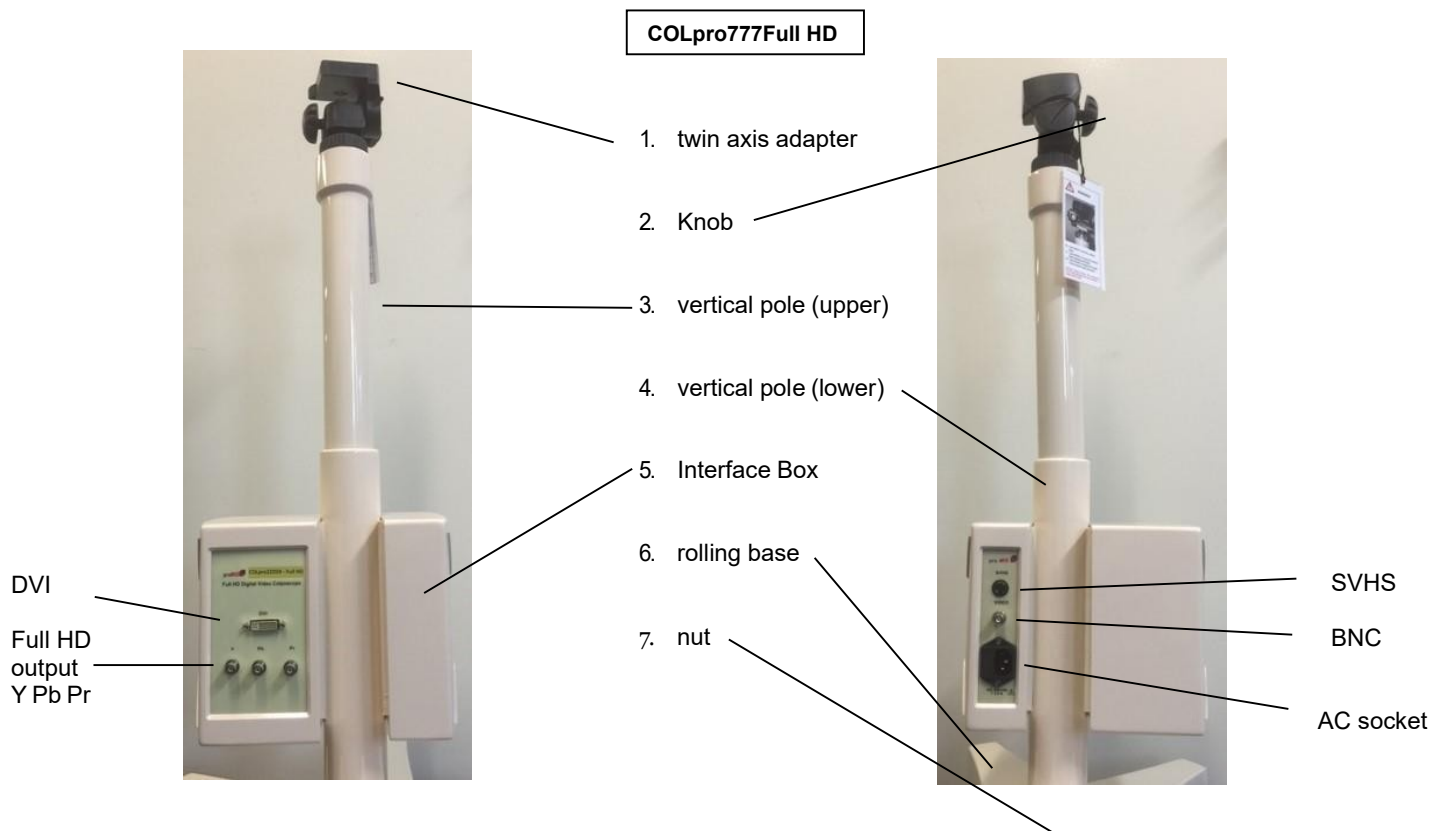


Fig. A. Vertical stand Interface Box Composition

Fig. B Interface Box

ASSEMBLING STEPS

STEP 1 Grasp the lower vertical pole "FIGURE A. 4." and put it into the middle hole of rolling base "FIGURE A. 6."



Fig. C - Step 1

STEP 2 Screw-in the nut "FIGURE A. 7."

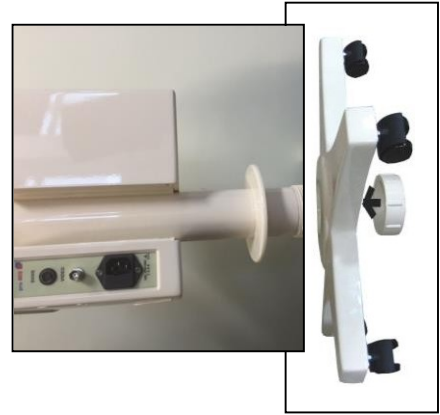
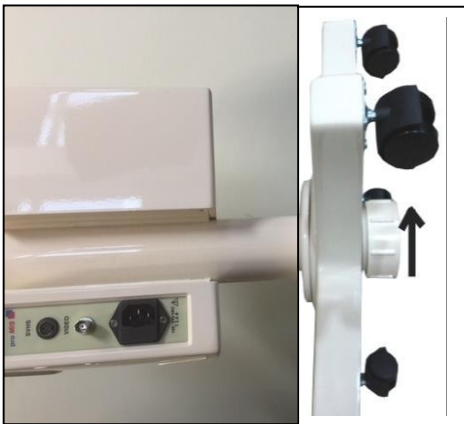


Fig. D - Step 2

STEP 3 Lie down the lower vertical pole "FIGURE A. 4.", fix the nut "FIGURE A. 7." by rotating it clockwise, thus to fix rolling base "FIGURE A. 6." and lower vertical pole "FIGURE A. 4."



Step 3

Fig. E - Step 3

STEP 4 Insert the camera head cable (grey) into the hole of vertex plate adapter "FIGURE A. 1."



Reference picture for Step 4

Make sure to insert the camera head cable through the first hole of vertex plate adaptor 1st and then 2nd hole as shown in the reference picture.

ASSEMBLING STEPS

STEP 5 Push the cable through the upper vertical pole "FIGURE A. 3." Until the cable comes out. Do not fix the camera on twin axis adapter now. It can cause cable twisting.



Fig. G - Step 5

STEP 6 Connect the cable which came out in Step 5 and connect it carefully to the cable coming out of the lower vertical pole "FIGURE A. 3." as shown in the. Please ensure to match both the arrows marking pasted on the cables.

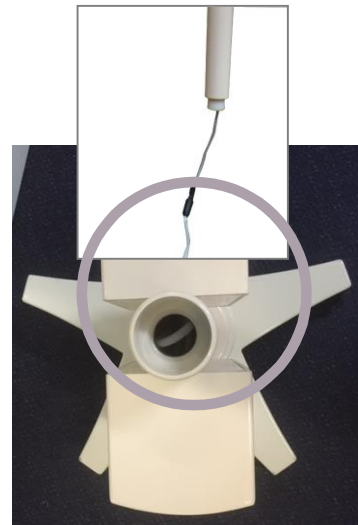


Fig. H - Step 6

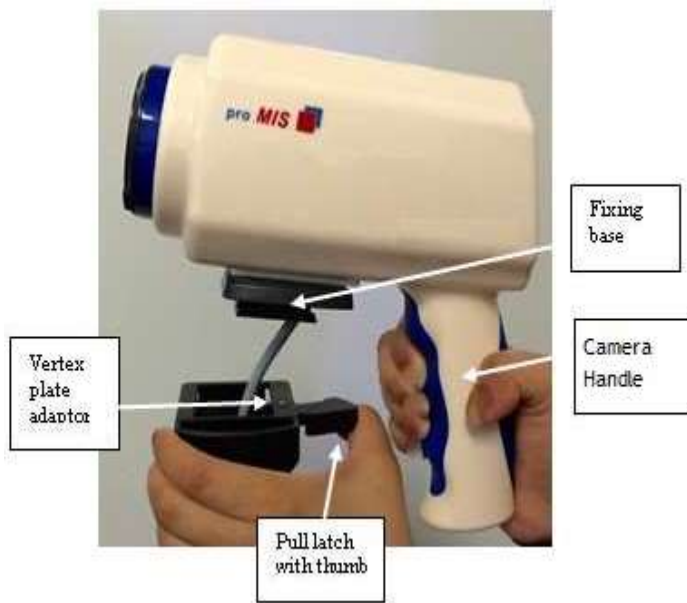
STEP 7 Rotate the upper vertical pole "FIGURE A. 3." clockwise and connect it with the lower vertical pole "FIGURE A. 4.". Then rotate the camera according to the moving direction of cable, thus



to avoid twisting or damaging of the cable.

Fig. I - Step 7

STEP 8 Pull the hand grip of vertex plate adaptor outside by 90°, grasp the camera's handle carefully and put the fixing base (which is attached to the camera head) into vertex plate adaptor. When the camera head is attached, release the hand grip of vertex plate.



WARNING



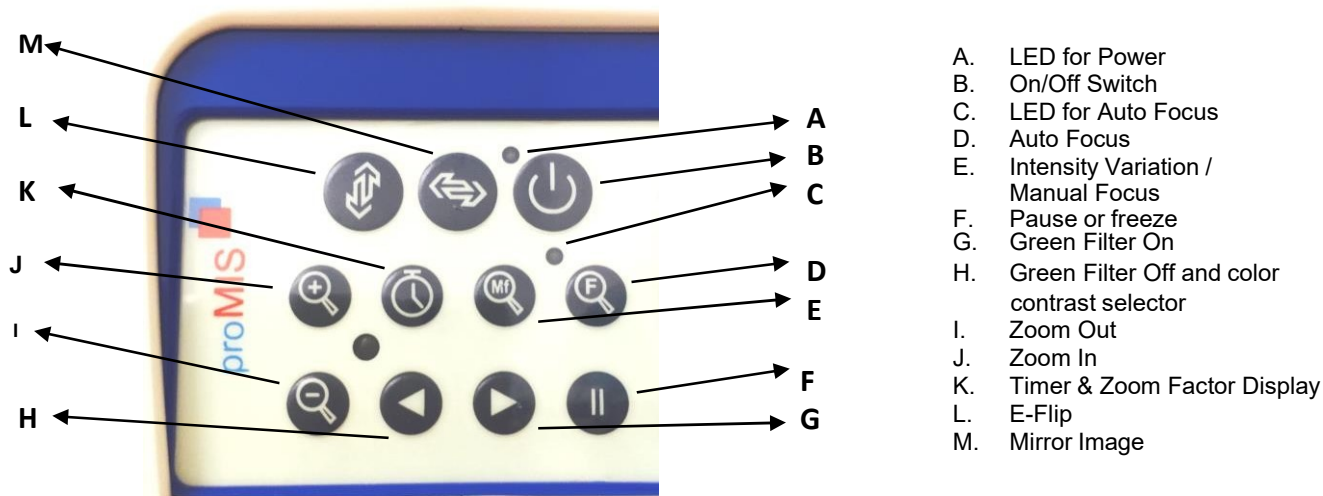








1. Lose KNOB 1 to tilt the camera head.
2. Lose KNOB 2 to move the camera head sidewise (left-right).
3. Lose KNOB 3 to adjust the height of the camera head (up-down).






Without losing knobs, the excessive force may damage twin axis adapter of colposcope head.

Please connect the electrical power cord to the AC power inlet provided on the Interface box. The other end of the power cord must be connected to a hospital grade AC power outlet (100-240 VAC, 50/60 Hz). Interface box has SVHS video output, BNC output, YPBPR output and DVI Output for connection to a suitable video device such as medical grade monitor. Switch ON the main power button provided on the camera head panel. The system is now ready for use.

CAMERA HEAD CONTROL PANEL – FUNCTIONS

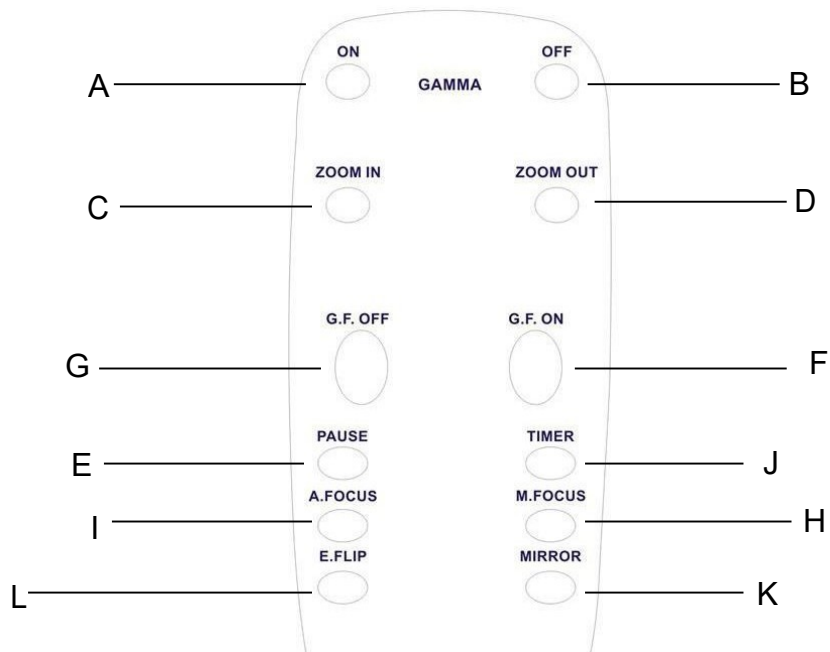


◦	LED for Power	LED next to the ON/OFF Switch lights up, when power is ON from ON/OFF switch (B)
	ON/OFF Switch	Press once to get the device camera and illuminator ON & if pressed again, it will turn OFF.
◦	LED for Auto Focus	If the LED next to Auto Focus lights up, it means that the camera is in the auto focusing mode. When it goes off, it means that the device is in manual focus mode. When the camera is in auto focus mode, it searches the object automatically & adjusts the image clarity according to the distance between the Colposcope & the object. When the LED goes off, then the camera is in manual focus mode & it needs to be directed towards the object & could be manually adjusted to the clearest image.
	Auto Focus	Under default condition, the unit stays in Auto focus mode that means LED (C) is glowing. To switch ON the manual focus mode, press the auto focus button again. Under this condition, LED (C) goes off.
	Intensity Variation	<p>a. : When the colposcope is in auto focus mode (i.e Auto Focus LED is glowing) then this button works as an intensity mode selector. One of the 5 Levels of Intensity can be selected by pressing this button. Level of intensity is indicated by I1, I2 I5 on screen. I1 is the brightest of all.</p> <p>b. Manual Focus: When the camera is in manual focus mode (i.e Auto Focus LED is not glowing), press this button to start manual focus.</p>
	Pause or Freeze	This button allows you to freeze the required image that needs to be stored for reviewing. Press the button again, image will be unfrozen.
	Green Filter ON	Press this button to get the green filter ON & the system will automatically filter the red tissue in the image being observed and highlight the enhanced vascular image. It also gives the excellent color contrast for viewing vascular pattern without any light loss. One of the 5 levels of green filter can be selected by pressing this button. First push of this button, switches from Normal image to Green Image G1/ thereafter, each next push of this button selects next levels of Green Filter. Green Filter status is Indicated by G1, G2 G5 on screen.
	Green Filter OFF and color contrast selector	Press it once to switch green filter mode into normal Image mode. One of the 5 Color levels of Normal Image can also be selected by pressing this button. First push of this button switches Green Image into Normal Image N1. Thereafter, each next push of this button selects next levels of color contrasts which is indicated by N1, N2 N5 on screen

	Zoom-Out	Press this button to close the Zoom in factor
	Zoom- In	This button allows zooming of the image up to a certain level where one can view the tissues & vessels more clearly.
	Timer & Zoom factor display	Press this button to start the display of current magnification status and timer on the connected display. Press again to switch off this function.
	E-Flip	E-flip function enables the image to rotate upside down for a better viewing of the vascular pattern.
	Mirror-Image	Mirror Image gives a side view of the image for better diagnosis.

REMOTE CONTROL FUNCTIONS

- A. Gamma ON
- B. Gamma OFF
- C. Zoom IN
- D. Zoom OUT
- E. Pause
- F. Green Filter ON
- G. Green Filter OFF
- H. Manual Focus
- I. Auto Focus
- J. Timer & Zoom Factor Display
- K. Mirror Image
- L. E-Flip



Sec 5 TECHNICAL SPECIFICATIONS

Image Processor	SONY Color CCD
Pixels	≥ 200,000
Resolution	Full HD 1920 x 1080
E-Flip	Yes
Mirror Image	Yes
Electronic Shutter	Automatic
Signal to noise ratio:	> 50 db
Illumination	High MCD super bright white shadow less LED light
Color Temperature	7000 ^o K
Test Timer	Yes
Electronic Green Filter	Yes
Focus	Automatic and Manual
Focus Distance	30 – 40cm
Zoom	1 – 45x
Viewing area	φ 170mm – 10mm
Depth of view	φ 200mm – 5mm
Magnification display	Yes
Video Output	Full HD: Component Y Pb Pr DVI Standard Video: SVSH / Video
Safety Standard	Complies to IEC 60601 including EMC
Gamma Processor	Optional (through remote)
Remote access (optional)	- for operative functions
Power Supply	100-240 VAC, 50/60 HZ

Sec 6

LIST OF REPLACEMENT PARTS

SI No	Part Description		Remark
1	Head Cabinet		
2	Metallic Housing of Camera		
3	Illuminator		
4	Micro Controller Unit		
5	Cable Assembly		
6	Interface Panel		
7	Stand with vertex		
8	HD Camera Module		
9	Y Pb Pr Cable		
10	SVSH Cable		
11	BNC Cable		
12	Power Cord	Australia	
		Europe	
		South Africa & India	
13	Multiple volt power supply		
14	DVI Cable		

Cleaning Agent: Examples of disinfectants that can be used on the colposcope unit are listed below:

1. Dilute Sodium Hypochlorite (Bleaching Agent)
2. Diluted Formaldehyde 35%-37%
3. Hydrogen peroxide 3%
4. Alcohol 75%
5. Isopropanol 70%

The Digital Video colposcope can be cleaned with hospital-grade ethanol and dried in air or with crisp and clean cloth. **Cleaning Steps:**

- Turn off camera & colposcope, cut the connection with AC power supply.
- Clean external part and stand
- Clean connecting cables.
- Wipe all the cleaned parts with dry cloth.



Warnings

- Colposcope should be powered off and disconnected from AC power before cleaning.
- Do not attempt to immerse any part of the equipment in cleaning solutions.
- Do not use abrasive material to clean any part of Colposcope.
- Do not use strong solvents to clean any part of Colposcope.
- Do not leave any solution residue on the device, if so, please wipe it off quickly with a cloth damped in water

MAINTENANCE:

Please examine the following before using colposcope:

- Examine whether there is any mechanical damage
- Examine all external cables, insert parts and accessories.
- Examine all parts, which connect to patients and make sure they are in good working condition.
- If any damage is found, please contact manufacturer or its authorized technical personnel engineer.

When inspecting the system, pay attention to the following:

- Make a visual inspection to ensure there are no damaged parts.
- Make sure that there is no damage between plug and cable, and all the pins and plugs are not loose.
- Check whether the connection between vertical stand, monitor & camera is correct & unbroken.
- Check there is no cable breakage by moving each end of the cable.

Camera Head Maintenance:

- Camera head is an important part of colposcope, dust particles can accumulate on it and may affect colposcope performance, if fingerprint is left on the camera lens it could lower the image quality and it is really harmful to the camera lens coating, so it should be removed / cleaned quickly.
- Use soft brush to clean the camera.
- Put a drop of camera lens rinse solution on cotton paper, then use it to wipe camera surface.

Maintenance of unit

- Do not attempt to immerse any part of the equipment in cleaning solutions.
- Do not use abrasive material to clean any part of Colposcope.
- Do not use strong solvents to clean any part of Colposcope.
- Do not leave any solution residue on the device, if so, please wipe it off quickly with a cloth damped in water

Subject to any other statutory right or remedy and the warranty conditions below, this new Divine Digital Video Colposcope COLpro777-FullHD is expressly warranted by Divine Meditech Pvt Ltd (INDIA) to be free from defects, and to conform to product descriptions and specifications as described in this document for a period of 1 year from the date of original delivery of the COLpro777-FullHD unit by us or Dealer or Agent to the customer.

This warranty applies only to an original purchase world-wide from us or Dealer or Agent.

This warranty shall not cover damage malfunction or failure resulting from the use of COLpro777-FullHD other than in accordance with the instructions contained in this operator manual, accident, misuse or misapplication, improper or unauthorized repair, neglect, modification or use of unauthorized accessories or improper voltage.

The warranty shall be void if the rating label or serial number is altered or removed. Apart from any warranty implied by the law that cannot be excluded and the warranty specifically provided above, Divine Meditech Pvt Ltd (INDIA) makes no warranty representation or covenant whatsoever in respect of the COLpro777- Full HD or any part of the COLpro777-FullHD and all other warranties, representations, or covenants, express or implied, are hereby excluded.

To obtain service under this warranty, first contact Divine Meditech Pvt Ltd (INDIA) (see details on front page).


Divine Meditech Pvt Ltd (INDIA) will correct any warranty failure by replacing the COLpro777-FullHD or repairing the COLpro777-FullHD. Divine Meditech Pvt Ltd to a liability to pay to the customer an amount equal to the cost of replacing COLpro777-FullHD, or the cost of having the COLpro777-FullHD repaired, whichever is the lowest amount.


To the fullest extent permitted by law, the customer will not under any circumstances have any cause of action against or right to claim or recover from Divine Meditech Pvt Ltd (INDIA) for or in respect of any negligence or economic loss of any special reliance, indirect or consequential loss, damage, or injury, including but not limited to, loss, damage or injury in connection with an incorrect diagnosis arising out of or in connection with the use or supply of the COLpro777-FullHD or any part of it.


The customer expressly acknowledges and agrees that:



- a. The COLpro777-FullHD is a technical medical device and it is the responsibility of the physician to provide the final clinical diagnosis and treatment to the patient based on all information the physician has available to him or her.
- b. The COLpro777-FullHD is intended to assist the physician, not to provide a conclusive determination or to serve as a substitute for the physician's judgment with respect to the detection and treatment; and
- c. All users of COLpro777-FullHD shall be required to advise patients of the above limitations.


By opening the packaging of the COLpro777-FullHD, customers will be deemed to have read, fully understood and accepted all of the above warranty terms and conditions. If the customer does not accept the above warranty terms and conditions in their entirety, please contact Divine Meditech Pvt Ltd (INDIA).


 Divine Meditech Private Limited
G-197, Sector-63, Gautam Buddha Nagar
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1017 EG Amsterdam, the Netherlands







 

 COLpro777Full-HD (GIMA 29622)






Video Coloscopio Digitale - Full HD
Digital Video Colposcope - Full HD


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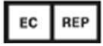








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Via Marconi, 1
20060 Gessate (MI) - Italy
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SCATOLA BOX		RACCOLTA CARTA PAPER COLLECTION
SACCHETTO DI PLASTICA PLASTIC BAG		RACCOLTA PLASTICA PLASTIC COLLECTION
MANUALE UTENTE USER MANUAL		RACCOLTA CARTA PAPER COLLECTION

Verifica le disposizioni del tuo comune per la gestione dei rifiuti
Please refer to the provisions of your municipality concerning waste disposal

Rev.0-01/2023

Explanation of Symbol

	Manufacturer		Date of manufacture
	Authorized representative in the European Community		Medical device
	Caution: read instructions (warnings) carefully		Follow instructions for use
	WEEE disposal		Type B applied part
	Product code		Serial number
	Medical Device Compliant with Regulation (EU 2017/745)		

Operator's Manual Ver: DMPL-FHD-777

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COLpro777-Full HD

Sec 10 CHECK LIST for ACCESSORIES for COLpro777-FullHD

		POWER CORD
		SVHS CABLE
		BNC CABLE
		YPBPR CABLE
		DVI CABLE
		REMOTE CONTROL
		SOFTWARE INSTALLATION CD AND USB DONGLE KEY (LICENSE TO RUN THE SOFTWARE) : <u>PART OF SOFTWARE</u>
		USB FOOTSWITCH WITH EXTENSION CABLE : <u>PART OF SOFTWARE</u>
		VIDEO CAPTURE CARD : <u>PART OF SOFTWARE</u>

Warning: All serious accidents concerning the medical device supplied by us must be reported to the manufacturer and competent authority of the member state where your registered office is located.

CONTACT INFORMATION:

**Divine Meditech Pvt Ltd.
G-197, Sector-63, Gautam Buddha Nagar
Uttar Pradesh, India-201301
Info@divinemeditech.in**