

## **SmartOPTIC**

COLPOSCOPES



## THE **HIGH-END COLPOSCOPES**AT THE PRICE OF THE MIDDLE ONE

Colposcope SmartOPTIC made possible to early detect precancerous lesions



## Just few minutes with SmartOPTIC will inspire you with confidence!

We are proud to introduce a SmartOPTIC medical colposcpe dedicated for demanding users.

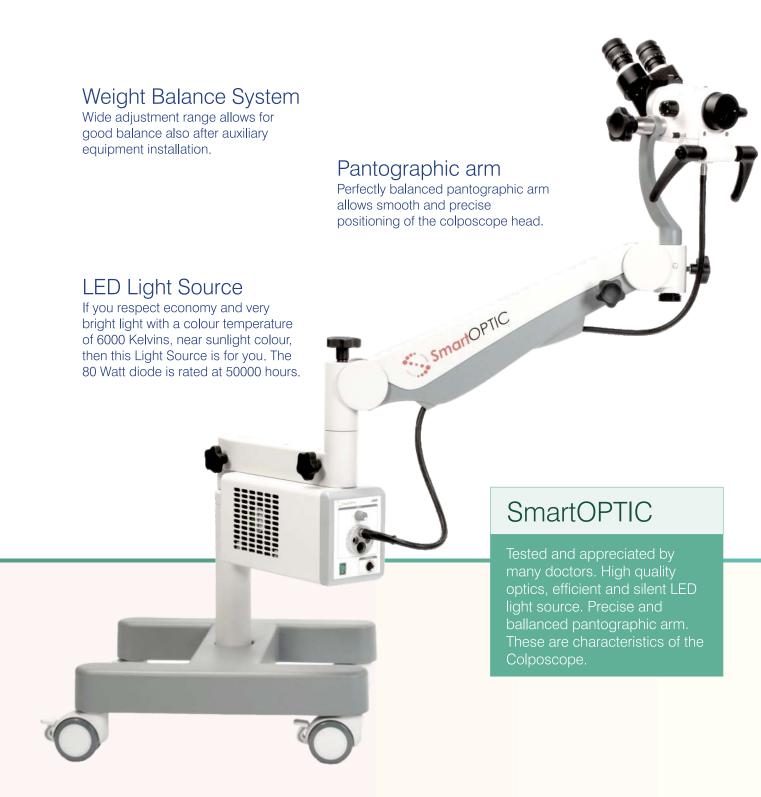
Solutions applied in this colposcope provide easy mobility and great comfort of work.



#### SmartOPTIC - choice of demanding professionals

With superior optical quality, SmartOPTIC offers high optical resolution, accuracy and focal range - all that makes SmartOPTIC an indispensable tool in modern medical practice.

## WHEN HIGH EXPERTISE AND ACCURACY COUNT...



#### SmartOPTIC Eco

Lightweight, small size colposcope is a perfect solution in diagnostic procedures. Can be disassemble and reassemble without special technical skills. It is equipped with a telescopic mast and LED light source.

#### High class optics

Optic with five steps of magnification. High quality without compromise no matter which model of the colposcope.

#### LED Mini light source

Compact light source with LEDs 80W gives high quality light with a temperature of 6000K. Maintenance-free operation for up to 50,000 hours. Single fibre optic output.

#### Telescopic mast

Vertical positioning of the head can be regulated by the telescopic mast. It helps to work with these Colposcope even in small offices.



## HEAD... THE MAIN PART OF THE COLPOSCOPE

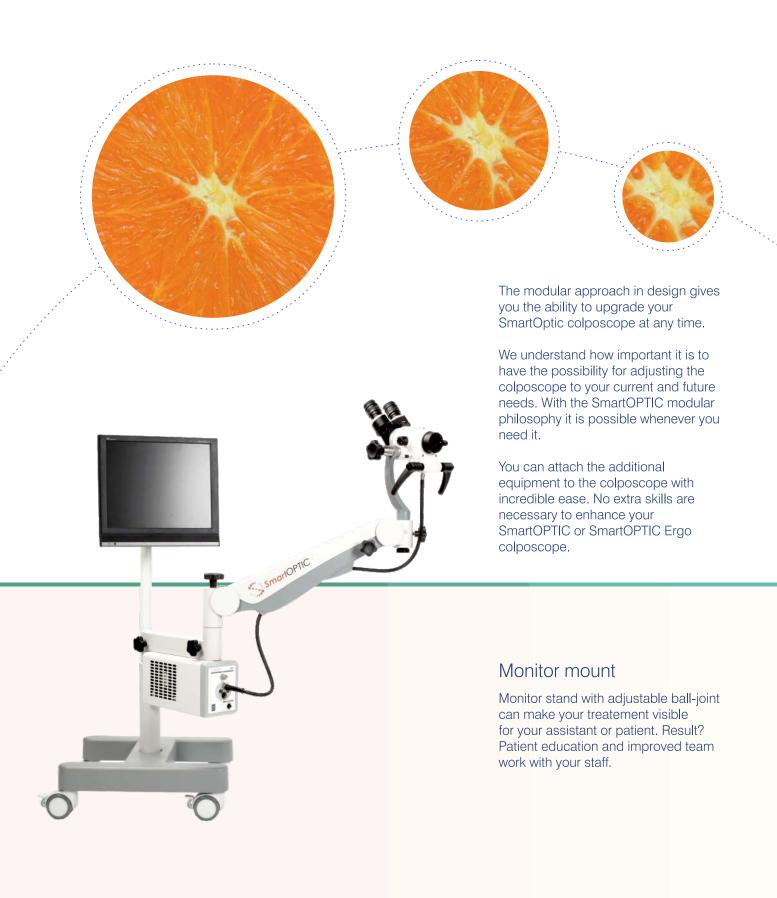


#### Objective Lens

Standard focal lenght of the objective lens is 300 mm. It gives the most convenient working distance in most cases and preserves fine focus depth. However, you can choose another objective lens: 200, 250 or 400 mm.



## THE MORE YOU CAN SEE, THE MORE YOU CAN DO



## Dedicated PROCAM digital camera

Ultra compact design with dedicated beam spliter. Auto white balance. View frame delimitation.

Image capture button.



Basic video recording and high - resolution still images for documentation, archive and educational purposes.

Customized adaptors for SLRs and most of compact cameras available on request.



Digital camera recommended for SmartOPTIC colposcopes.

Light-weighted, powerful camera with HD recording, 14MP sensor, Live View output and resonable price.

### Vision track with camcorder

High resolution preview and recording with your personal video camera recorder e.g. SONY Handycam.











#### **Functional**

Camera integrated with the colposcope allows collecting documentation to which you can return even after a long time.

#### Universal

Camera systems which we propose operate well no matter which model of colposcope you choose. They can be used in SmartOPTIC and SmartOPTIC Eco.

## SMART ACCESSORIES VARIETY OF ENHANCEMENTS

# Lens cap Protecting the objective lens especially while grinding.

#### **Filters**

**Green-** filter to work with patients' blood.

**Laser filter** for safe work with laser devices.

**Polarizing filter** - easy identification of tissue changes.



#### Autoclavable handle covers

Preventing the infections, making your work safer for you and your patients. Covers meet high hygienic standards.





#### Lenses

You can chose among variety of lenses depending on your work specification: f-200, f-250, f-300, f-400



#### Arm extension

Provides an additional reach of 28 cm.

Increases the colposcope's flexibility and maneuverability in tight spaces.

#### MAGNIFICATION TABLE

| Objective Lens: |               | 200           |                    |               | 250                |               |                    |               | 300                |               |                    | 400           |                    |               |                    |               |                    |
|-----------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|
|                 | binocular:    | fixed<br>f135 | inclinable<br>f170 |
| eyepiece        | knob position | magni         | fication           | field o       | of view            | magni         | fication           | field         | of view            | magni         | fication           | field o       | of view            | magni         | fication           | field o       | of view            |
| 10x/16mm        | 1 ( 0.4x )    | 2,70          | 3,40               | 59,26         | 47,06              | 2,16          | 2,72               | 74,07         | 58,82              | 1,80          | 2,27               | 88,89         | 70,48              | 1,35          | 1,70               | 118,52        | 94,12              |
|                 | 2 ( 0.6x )    | 4,05          | 5,10               | 39,51         | 31,37              | 3,24          | 4,08               | 49,38         | 39,22              | 2,70          | 3,40               | 59,26         | 47,06              | 2,02          | 2,55               | 79,21         | 62,75              |
|                 | 3 (1x)        | 6,75          | 8,50               | 23,70         | 18,82              | 5,40          | 6,80               | 29,63         | 23,53              | 4,50          | 5,66               | 35,56         | 28,27              | 3,37          | 4,25               | 47,48         | 37,65              |
|                 | 4 ( 1.6x )    | 10,80         | 13,60              | 14,81         | 11,76              | 8,64          | 10,88              | 18,52         | 14,71              | 7,20          | 9,06               | 22,22         | 17,66              | 5,40          | 6,80               | 29,63         | 23,53              |
|                 | 5 (2.5x)      | 16,88         | 21,25              | 9,48          | 7,53               | 13,50         | 17,00              | 11,85         | 9,41               | 11,25         | 14,17              | 14,22         | 11,29              | 8,42          | 10,63              | 19,01         | 15,06              |
| 12.5x/16mm      | 1 ( 0.4x )    | 3,37          | 4,25               | 59,35         | 47,06              | 2,70          | 3,40               | 74,07         | 58,82              | 2,25          | 2,83               | 88,89         | 70,67              | 1,69          | 2,13               | 118,34        | 93,90              |
|                 | 2 ( 0.6x )    | 5,06          | 6,38               | 39,53         | 31,35              | 4,05          | 5,10               | 49,38         | 39,22              | 3,38          | 4,25               | 59,17         | 47,06              | 2,53          | 3,20               | 79,05         | 62,50              |
|                 | 3 (1x)        | 8,44          | 10,63              | 23,70         | 18,81              | 6,75          | 8,50               | 29,63         | 23,53              | 5,63          | 7,08               | 35,52         | 28,25              | 4,20          | 5,30               | 47,62         | 37,74              |
|                 | 4 (1.6x)      | 13,50         | 17,00              | 14,81         | 11,76              | 10,80         | 13,60              | 18,52         | 14,71              | 9,00          | 11,32              | 22,22         | 17,67              | 6,74          | 8,50               | 29,67         | 23,53              |
|                 | 5 ( 2.5x )    | 21,08         | 26,58              | 9,49          | 7,52               | 16,88         | 21,25              | 11,85         | 9,41               | 14,08         | 17,71              | 14,20         | 11,29              | 10,54         | 13,33              | 18,97         | 15,00              |

#### **BASE CONFIGURATION**

|                         | SmartOPTIC   | SmartOPTIC Eco |  |  |  |
|-------------------------|--------------|----------------|--|--|--|
| steps of magnification: | 5            | 5              |  |  |  |
| binocular:              | inclined 45  | inclined 45    |  |  |  |
| objective lens:         | 300 mm       | 300 mm         |  |  |  |
| filter:                 | green        | green          |  |  |  |
| arm:                    | pantoghapgic | telescopic     |  |  |  |
| light source:           | LED          | LED Mini       |  |  |  |
| weight:                 | 45 kg ?      | 25 kg ?        |  |  |  |
| shape of base:          | H-shaped     | Star-shaped    |  |  |  |



#### SYSTEM COMPONENTS

#### Binoculars:

- with fixed angle 45° with fixed angle 90°
- with adjustable angle 0-195° all of diopter adjustment

#### Lens:

■ working distance 200 mm ■ 250 mm ■ 300mm ■ 400mm

#### Lighting system:

- halogen light source 3000K 37klux
- LED light source 6000K 50klux Xenon light source 6000K 105 klux high performance fiber optic cable

#### Filters:

• green • orange • to work with laser • polarizing

#### Mounting options:

■ mobile floor stand ■ wall mount ■ table mount

#### Colposcope arm:

- standard 60 cm extended 90 cm
- 28 cm additional arm extension

#### Vision track:

- dedicated digital camera with beamsplittersingle beamsplitter
- double beamsplitter binocular extender with double
   beamsplitter camera DSLR adapter camera camcorder
   adapter camera Sony NEX adapter camera CCD adapter
- monitor mount

#### Additional modular accessories:

- binocular rotation ring = monitor mount = shelf for printer
- autoclavable handle coverslens cap

We are always ready to meet our clients expectations by learning their needs and presenting the opportunities that SmartOPTIC has to offer. Our consultants will help you to choose the best option so you could perform your work as you have always desired.

#### SmartOPTIC FAMILY



www.smart-optic.com

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| PROCAM HD 3D                     |                             |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|--|
|                                  | 3D SPLITTER                 |  |  |  |  |
| VIDEO OUTPUT- 2D                 | 1920x1080p60 (HDMI)         |  |  |  |  |
| VIDEO OUTPUT- 3D                 | 1920x1080p30 (HDMI)         |  |  |  |  |
| VIDEO GENERATION                 | 2 x 1920x1080p30            |  |  |  |  |
| 3D MODE                          | Side by Side                |  |  |  |  |
|                                  | 35 - 75 % relative humidity |  |  |  |  |
| OPERATING CONDITIONS             | 700 - 1060 hPa              |  |  |  |  |
|                                  | -30 +50 ºC (-22 – 122ºF)    |  |  |  |  |
|                                  |                             |  |  |  |  |
|                                  | 35 - 75 % relative humidity |  |  |  |  |
| STORAGE AND TRANSPORT CONDITIONS | 700 - 1060 hPa              |  |  |  |  |
|                                  |                             |  |  |  |  |