# OPTIVISTA™ EPK-i7010

*Product Specifications*

**PENTAX**
**MEDICAL**





**Power Supply**

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|---|---|
| Voltage | 120V AC (NTSC) / 230 V AC (PAL); within ± 10 % |
| Frequency | 50-60 Hz |

**Size and Weight**

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| Dimensions (W x H x D) | 400 x 205 x 520 mm |
| Weight | 21.5 kg |

**Classification (Medical Electrical Equipment)**

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| Type of protection against electric shock | Class I equipment, 3 prong plug |
| Degree of protection against electric shock | Type BF (Body Floating), using insulated endoscope. Use on a heart is prohibited. |
| Degree of explosion proofing | Do not use in potentially flammable surroundings. |

**Illumination**

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| Lamp | 300W Xenon (Life: 500 hrs, depending on usage) |
| Brightness | Brightness adjustment is possible in ±11 steps using the button on the touchscreen. |
| Light exposure control | The auto light exposure control can be selected using EXPOSURE CONTROL and MODE on the touch screen.<br>- EXPOSURE CONTROL<br>  AUTO: The light exposure is automatically adjusted.<br>  MANUAL: The light exposure is fixed in the certain level which is set on the brightness.<br>- MODE (in AUTO mode)<br>  AVE: The light exposure is controlled based on the average level of brightness in the endoscopic image.<br>  PEAK: The light exposure is controlled to reduce halation area in the endoscopic image. |

**Air flow function**

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| Pump | Diaphragm type pump / Air flow can be selected from 5 different levels. |
| Air pressure | 45-70 kPa (6.5-10.2 PSI) |

**Observation**

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| HD signal output | Digital: 1080i (1920 x 1080) thru DVI and HD-SDI / Analog: SXGA (1280 x 1024) thru DVI |
| Analog SD signal output | RGB, S-Video, Composite Video |
| White balance adjustment | White balance adjustment is possible using the white balance button on the touchscreen. |
| Color balance adjustment | The following color balance adjustments are possible using the touch screen interface: Red adjustment: ±11 steps, Blue adjustment: ±11 steps. |
| Contrast | Image contrast can be adjusted in 3 settings (illumination, Mode 1 and Mode 2). |

**Observation**

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|---|---|
| D-Range Expansion | D-Range Expansion can improve far field illumination. |
| Image enhancement setting | Post-processing image enhancement / i-SCAN (Mode 1, Mode 2, and Mode 3) OE Optical image Enhancement (Mode 1, Mode 2) |
| TwinMode | TwinMode shows white light image and images with image enhancement side by side on the monitor. |
| Digital zoom | Digital zoom is available. Magnification ratio: OFF, 1.2, 1.5, 2.0. |
| Image size selection | The size of the endoscopic image can be changed in 2 modes (Full, Med). |
| Freeze | The still image can be shown when activating Freeze mode. |
| Freeze Scan | Freeze Scan is a software function that selects the sharpest image from a series of images temporarily stored in the video processor. |

**System settings**

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| Customizable buttons | There are 4 customizable buttons in the touchscreen and functions on the video processor can be assigned to these buttons. |
| PinP | External composite video signal can be the input into the video processor and shown on the monitor. |
| Endoscope's remote button function | The video processor's functions can be set on the remote buttons of the endoscope by using the touchscreen. |
| Remote control | The following peripheral devices can be controlled by the remote control. (LAN, RS-232C, USB, Remote terminal) / Video Printer, Video recorder, Filing system. |

**Documentation**

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| Patient data | The following data can be displayed on the monitor: Patient ID, Patient name, Sex, Age, Facility, Comments. |
| Displaying the recorded state | The recording state of the following peripheral devices can be displayed on the monitor. External storage media, Filing system, Video printer. |
| Displaying the image information | The following data is displayed on the monitor. Enhancement level, image enhancement (i-SCAN modes and OE modes), Zoom Level, Color balance, Brightness. |
| Advance registration of patient data | Up to 50 patients' data can be registered. |
| HD video recording | Integrated HD video recorder (20 mins with high quality to 40 mins with standard quality) the video file is stored into the external storage media. |

**External storage**

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| Media | USB port is equipped on the front panel and the rear panel. USB memory stick, USB HDD drive. |
| Recording format | Still image: JPEG, BMP / Video: TS format. |

**Memory Backup**

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| User settings | Up to 20 user settings can be registered. |
| Memorization of selected settings | Following settings can be individually set for users: - SE, CE - Enhancement - Ave / Peak - Noise reduction - Sub screen position - Manual brightness level - Auto brightness level |
| Lithium battery | Lithium battery is equipped in the processor for a real time clock. |

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