



All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

4K
ULTRA HD

Full HD
1080 p

C-MOS
chip-
technology

DICOM
conformance
statement

HL7

GDT
Einbindung

HIS

PES PILOT HDpro

The new standard in videoendoscopy

otopront®



PES PILOT HDpro

The PES PILOT HDpro videoendoscopy system aims to set new standards with regards to **image quality, handling and functionality**.

For the PES PILOT HDpro we created a completely new, very intuitive software, like an app on your smartphone, in order to allow immediate use without training, for a very fast and convenient workflow during examination.

Thanks to numerous IT connections (e.g. DICOM conformance), the PES PILOT HDpro can easily be integrated into many IT-systems of the doctors offices.

Additionally we equipped the PES PILOT HDpro with our highly sophisticated Full-HD C-MOS camera chip, which delivers extremely sharp images of highest contrast.

The whole system corresponds to German quality standards and it is built to last.

These features distinguish the PES PILOT HDpro creating a ground-breaking future-proof design to enable ENT professionals to work more efficiently.

Why PES PILOT HDpro?



Superior image quality (Full-HD video & picture)



Otopront Picture Enhancement (OPE) for higher contrasts



Simple editing and comparison software for search function included



Add ons: Lightsource or completely integrated stroboscopy



Ease of use - Intuitive and simple software



Safety measures: Immediate data saving on internal storage



Complete patient database and data handling



Future proof: New developments will be available



High connectivity: DICOM, HL7 possible USB storage, printer

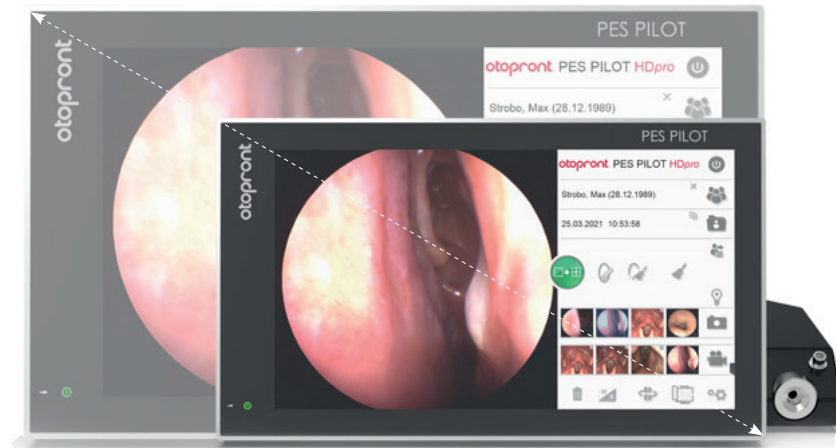


Quality Made in Germany



Frameless screen

PES PILOT HDpro - available with 15.6" or 21" touchscreen

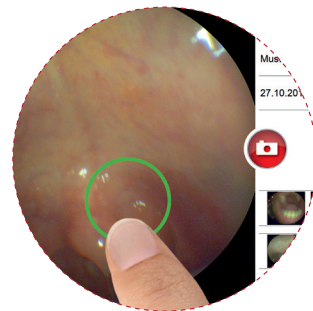


Superior handling

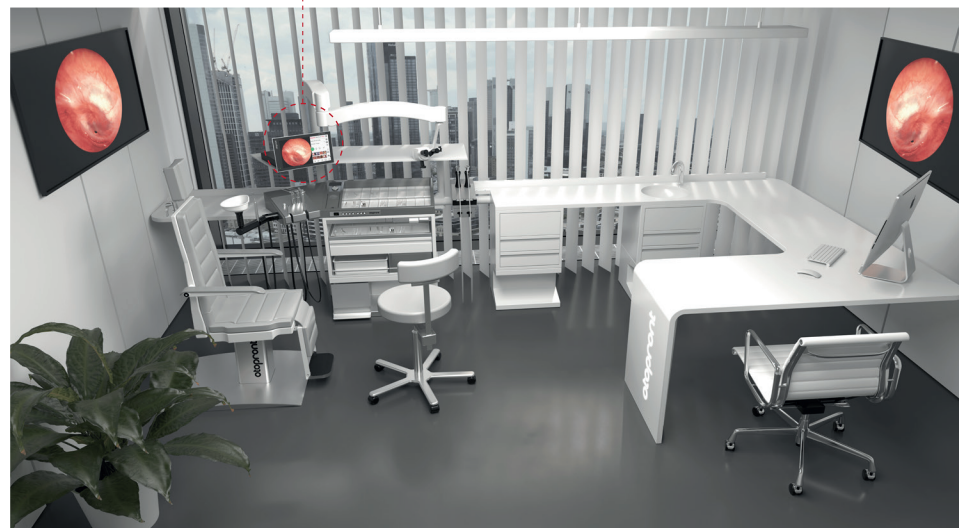
With its front-mounted **touchscreen** and **compact** size the device can be incorporated directly into the working area (e.g. at the ENT unit). All functions can be operated conveniently by touchscreen, allowing the user to work as efficiently as possible.

Additional monitors can also be connected to the PILOT-screen. Placing a monitor behind the patients chair, simplifies the endoscopy process enabling the doctor to have a direct view of the screen.

The other way around, detailed results can be shown to the patient on an additional **patient monitor**. The patient monitor can be disabled at any time.



Findings can be tagged by touching the image directly



Workstation with centrally positioned PES PILOT HDpro with examination and patient screen

App-like software handling

Clearly structured and user friendly patient management

Patient data can be saved directly to the **internal memory** or to a **USB stick**. In addition, data can be exchanged automatically with the **practice IT system** or the **HIS**.

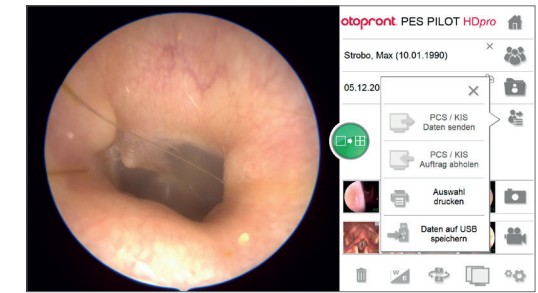
The device can be **operated completely intuitively**. Still photo/video mode is selected by **foot switch** or by shutter release on the **touchscreen**. Then the findings can be tagged directly on the PILOT-screen using the fingertip control. All the functions, such as selecting an image or zoom, are equal to operation on your smartphone.

The software facilitates the **comparison of pictures** of the patient for the diagnostic. The selection of the pictures is very intuitive and easy to handle.

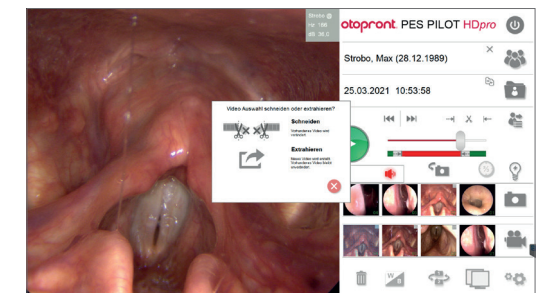
Otopront Picture Enhancement (OPE) uses histological-physical findings to show tissue structures in greater detail through the differentiated use of blue and green spectral components. The method makes use of the effect of the different absorption capacity of capillary vessels and surrounding tissue. With this technology, conspicuous vessel and tissue patterns can be visually highlighted. visually highlight conspicuous vessel and tissue patterns.

Complete network integration

- + Easy installation in practice computer (e.g. Medistar, Turbomed, Albis, tomedo etc.) via GDT protocol
- + Complete integration into HIS and PACS via standard interfaces (HL7, DICOM compliant) possible
- + DICOM Conformance Statement
- + Optionally transferring video data, communicating with worklists (e.g. DICOM video, DICOM worklists)
- + Automatic order recognition of the practice computer, alternatively at the push of a button



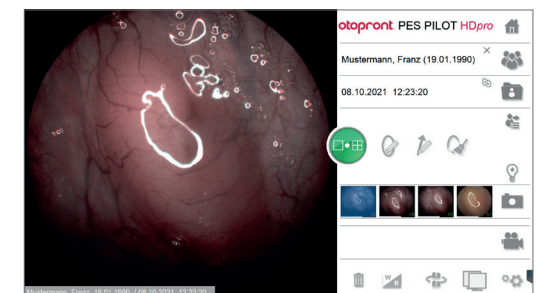
Intuitive operation and navigation by touch or mouse



Camera system in examination mode with video editing



Intuitive comparison software



High performance stroboscopy (Option)

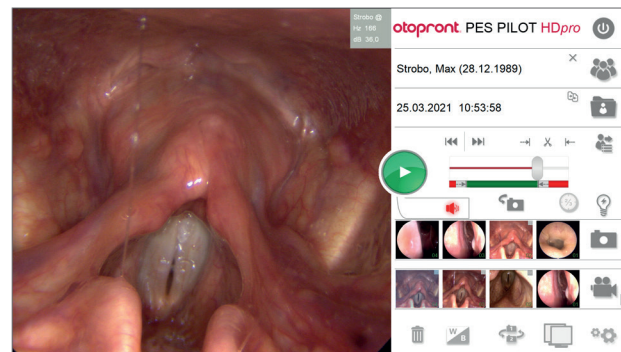
Compact, yet complete

- + Full-HD image and video capture (optionally 4K)
- + LED stroboscope light source
- + 15.6" or 21" touchscreen and computer
- + Patient- and findingsmanagement
- + Fiberoptic Endoscopic Evaluation of Swallowing (FEES)
- + DICOM compliant
- + C-MOS chip technology



Crisp and sharp by precise, extremely short flashlight, high resolution by Full-HD

The highly efficient Otopront LED light source specially developed for stroboscopy allows very short exposure times, which together with the Full-HD camera (optionally 4K) creates crisp and sharp images of the movements of the vocal cords.



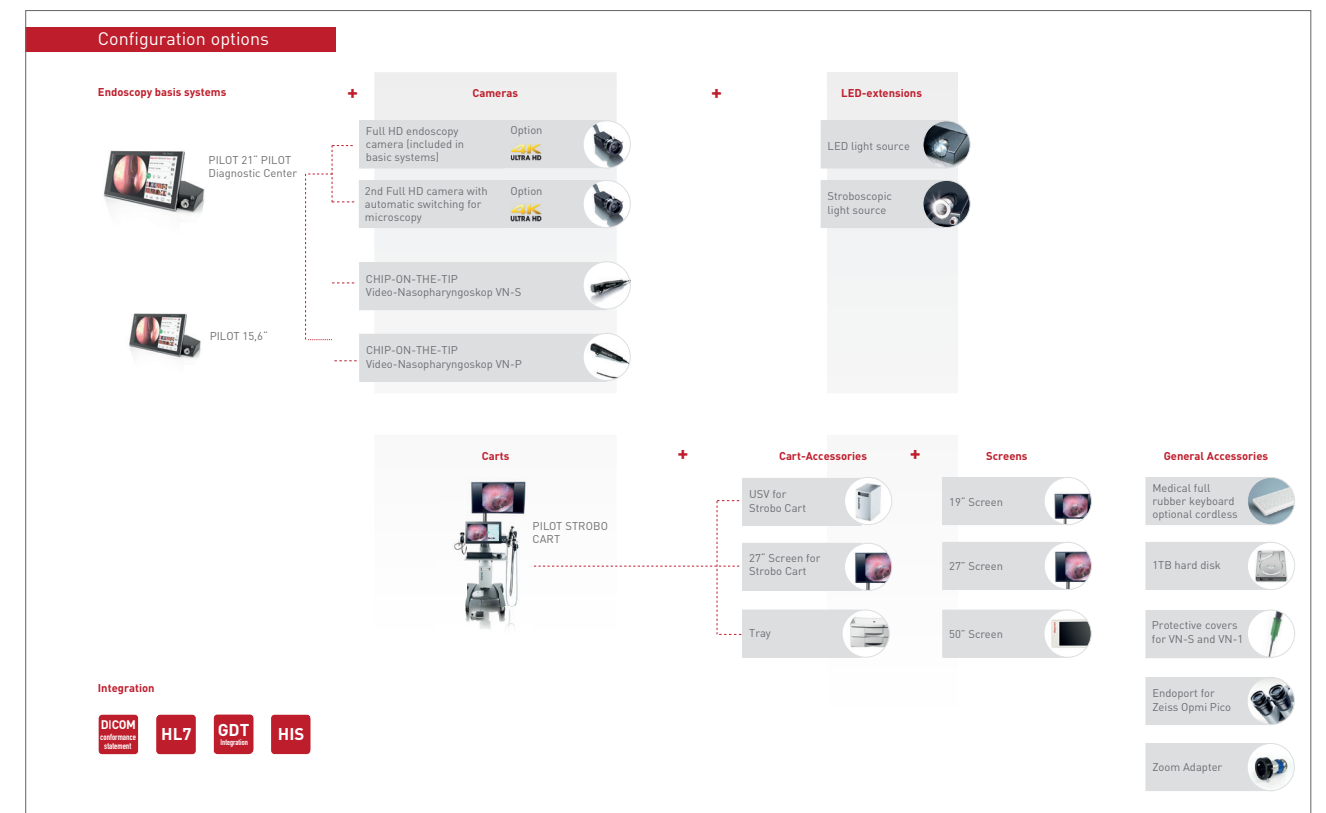
Because of this, the PES PILOT HDpro stroboscope plays in the league of professional stroboscope towers, but in a compact design.

Video-Nasopharyngoskop VN-S und VN-P (CHIP-ON-THE-TIP)

	VN-S	VN-P
Working distance	25 - 130 mm	10 - 55 mm
Shaft diameter	3.9 mm	2.7 mm
Working length	310 mm	310 mm
Total length	540 mm	540 mm
Tip articulation	130° / 130°	130° / 130°
FOV	90°	90°
Camera sensor	CCD	C-MOS
White balance	manual or automatic	manual or automatic
Suitable for stroboscopy	yes	no
Illumination	external	LED internal
Weight (handle)	approx. 540 g	approx. 320 g



Features & Options



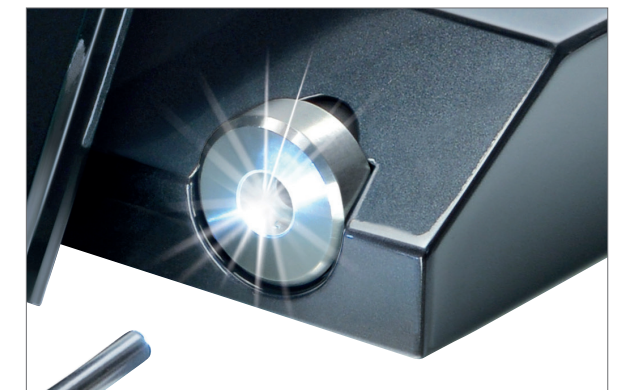
PES PILOT HDpro with Strobo Cart and UPS



Camerahead



Footswitch



LED stroboscope light source

Technical data

Model: PES PILOT HDpro with 15.6 inch touchscreen
PES PILOT HDpro with 21 inch touchscreen

System

- + High performance system with quad core processor
- + 256 GB internal SSD memory (up to 1 TB optional) for approx. 30 hours video recording or 20,000 images

Hardware interfaces

- + Data storage on USB stick
- + 2 LAN ports for connecting to printer and practice's IT system
- + Up to 2 monitor interfaces (DVI/ HDMI)
- + Connections for mouse and keyboard, wireless optional

Communication interfaces

- + Easily integrated into practice's IT system via GDT protocol
- + Automatic order recognition of the practice EDP, optionally at the push of a button
- + Total integration into HIS and PACS via standard interfaces (HL7, DICOM compliant)
- + Optional transfer of video data, communication with worklists (e.g. DICOM video, DICOM worklists)

Touchscreen

- + Screen can be tilted forwards and backwards approx. 45°
- + Size: 15.6 or 21 inch
- + Touch function: capacitive (so can be operated without loss of contrast or brightness)
- + Resolution: 1920 x 1200 pixels (full HD)
- + Brightness: 400 cd/m², LED backlight, contrast: 700:1
- + Viewing angle: 178° horizontal and vertical

Case

- + Material: sheet steel, painted, available in all RAL shades
- + Optional lift handle for transportation

Camera

- + Up to 2 cameras on one PES PILOT HDpro
- + Sensor chip: 1/2" C-MOS chip technology with maximum use of low light and colour tone
- + Resolution: 1920 x 1200 pixels (full HD), 2.23 MP
- + Shutter device: global shutter technology for optimum videostroboscopy
- + Maximum number of images per second: 180
- + Lens: 0.83 inch, quick focus
- + Lens connection: C-mount

Dimensions

- + Case: 12.2 x 8.26 x 1.77 inch
- + Screen: 15.6": 16.33 x 9.44 x 0.98 inch / 21": 22.48 x 13.38 x 1.29 inch
- + Weight: 15.6": 14.33 lbs / 19.84 lbs

Hygiene

- + Camera system together with cable can be fully inserted
- + Retractable film can be pulled over touchscreen for safe operation

Rated output

- + 110-230 V, 50/60 Hz, 60W

Device

- + Type BF

All designs and specifications subject to change without notice.

All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.

Happersberger otopront GmbH

Medical Equipment Manufacturer
D-65326 Hohenstein · P.O. Box · Germany
Tel. +49 6120-9217-0 Fax +49 6120-9217-60
www.otopront.us · info@otopront.com