

Case Study

How faytech co-operated with **meso international GmbH** to create the perfect custom all-in-one PC for video recording in endoscopy

Introduction

meso international GmbH has been on the market for 30 years and is a pioneer in the field of medical image archiving and reporting. The company's solutions are characterized by innovation, quality and ease of use. They are used by healthcare institutions in Spain, Hungary, Saudi Arabia, Belgium, Germany England and Switzerland.

For video recording in endoscopy, meso offers the IBOX Touch. The device is a touch PC that is connected to the HIS or RIS via a DICOM interface and receives its worklist from there. The images and image sequences generated during the endoscopic examination are transferred to the archiving and communication system PACS for storage and further processing.

faytech has been co-operating with meso on the IBOX starting from 2012/2013. Since then, the solution has been further developed in continuous collaboration with meso. The current version is the IBox Touch Compact in revision 3, presented in 2021.

MESO

meso international GmbH requested a medical touchscreen PC with the following requirements:

- Approval for use in the operating rooms
- Image recording via wireless remote control
- Live streaming up to HD resolution
- Intermediate storage in case of missing network connection
- Insensitive to vibrations
- Silent & Compact
- Effective surface protection against Bacteria and viruses
- Full functionality with medical gloves

“Long-term partnerships are important for long-term success. faytech has proven itself over more than 10 years as a reliable partner that not only implements our product ideas, but also actively participates in product improvement.”

- Christian Schwerin, CEO
meso international GmbH

The IBOX Touch Solution

With a fanless mainboard and the elimination of mechanically moving parts, the development teams of faytech and meso created the noiseless, shock-resistant and compact IBOX Touch Compact. Numerous video interfaces enable connection to diagnostic imaging systems. The connection to the HIS or RIS is made via LAN or WLAN. In the absence of a network connection, data is securely stored temporarily on an industrial SSD.

The front of the IBOX is waterproof (IP65). The touchscreen has been calibrated so that it can be operated reliably even when wearing gloves. It also has a germ-free protective coating that eliminates 99.99% of all bacteria and viruses. This baked-on Kastus® coating lasts the entire life cycle of the product and is active around the clock.

The 10.1" IBOX Touch Compact

Housing: Customized White Aluminum Housing
Display: faytech's 10.1" Capacitive Touch PC (optically bonded)

Connectors available (for medical field):
- HDMI, S-Video, VGA and DVI connectors
- HD SDI connector
- Composite connector
- Component YPbPr

Additional features / functionalities:
- Certification according to EN 60601-1-2 (medical)
- High resolution display, 16:10 ratio
- Optical bonding of touch and LCD panel
- Intel® Core™ i5-7300U CPU
- 8GB RAM, 240GB industrial SSD
- Linux Ubuntu & Windows 10 OS (32 or 64 bit)
- 1.1 mm front glass with hardness grade 7H
- Kastus® 24/7 antimicrobial coating
- VESA 100 mounting on back



QR Code scannen und Video ansehen
WATCH NOW
https://youtu.be/hxq3FVU4fEM



German Engineering – Asian Manufacturing – Local Services

faytech specializes in the design, development, manufacturing and marketing of **Touchscreen Monitors** and **Touchscreen PCs**, while also providing Optical Bonding and **Antimicrobial Coating services**. With its roots in Germany, faytech today sells and supports Touch Monitors and Touch PCs on a worldwide basis. faytech offers German engineered products, manufactured in Asia with local service.