



Station for managing multimedia and pip flows, FALKONNECT 3D

Multichannel and multiwindow medical video processor for the management, selection, streaming and archiving of video signals from imaging equipment.

Available

SKU: FK701DTR

Categories: Video flows

Description

FALKONNECT 3D – Advanced Multi-Channel Video Processor for Medical Imaging

Professional Video Management System – Plug & Play Simplicity

FALKONNECT 3D is a next-generation solution for managing and distributing video signals from medical imaging devices to clinical displays and streaming platforms. Its **multi-channel, multi-window architecture** enables the **simultaneous handling of up to four video streams**, allowing real-time switching, visualization, and distribution with advanced flexibility.

Completely **plug & play**, the system operates without the need for a computer, software installation, or operating system—ensuring **fast startup**, **exceptional reliability**, and **streamlined workflow integration** in demanding medical environments.

3D Visualization from Standard 2D Video Sources

FALKONNECT 3D includes a unique feature that allows the transformation of either a single 2D video signal or two Picture-in-Picture (PIP) sources into a **stereoscopic 3D view in Side-by-Side format**. This 3D-induced mode can be viewed with compatible 3D headsets or displays, significantly enhancing **depth perception and visual accuracy** during surgical or microsurgical procedures, particularly in **dental and medical specialties**.

Built for Dentistry and Modern Clinical Workflows

Built for complex and interactive clinical environments, FALKONNECT 3D seamlessly integrates with a wide range of imaging devices such as **surgical microscopes, ultrasound scanners, intraoral cameras, and**



navigation systems.

It supports **high-resolution image capture and 4K video recording**, while its PC connectivity enables **remote medical collaboration** and **live or recorded training sessions**, making it a valuable tool for both practitioners and educators.

Technical Highlights

- **Plug & play operation** – no software, no operating system required
- Converts 2D or PIP video sources into **3D stereoscopic output** (Side-by-Side)
- **4 HDMI 2.0 inputs** supporting 4K60, 4K30, and 1080p@60
- **3 HDMI 2.0 outputs** compatible with 4K and Full HD monitors
- **4 USB-B ports** for input from external computers or imaging sources
- **2 USB-A ports** for mouse, keyboard, or head-tracking devices
- **1 USB-A output** to power accessories (e.g., FALKO headset receiver)
- **3.5 mm audio output** for supplemental sound
- **RS232 service port** for maintenance and diagnostics
- **Flexible display options:** single, dual, or multi-window (4, 3, or 2 views)
- Full control over **window size, layout, and PIP transparency**
- Manage multiple video sources via **mouse, keyboard, or IR remote**
- **Simultaneous control of up to 4 PCs** with a unified input system
- **IR remote** included (up to 5 m range)
- **Power supply:** 12V DC – 3.5 A