

FALConnect

ALL CLINICAL IMAGES, ONE INTEGRATED VIEW

Multichannel, multi-window video processor for dentistry and medical and surgical applications

01 THE CONCEPT

MULTIPLE DEVICES, ONE CONTROL POINT

During dental procedures, clinicians consult images and content from cameras, microscopes and computers used for CBCT imaging, 3D scans and clinical software, often on separate screens.
FALKONNECT 3D brings up to four HDMI video sources together on one screen.
The images can be displayed individually, side by side or overlaid in customisable windows without changing any connections.

4	3	4K
HDMI 2.0 INPUTS	HDMI 2.0 OUTPUTS	UP TO 60 Hz



NO SOFTWARE TO INSTALL ON THE PROCESSOR.

FOUR SOURCES ALWAYS CONNECTED

All four devices remain connected: select the video source you need without reconnecting equipment.

CONFIGURABLE MULTIVIEW LAYOUTS

Up to four windows on one screen, resized, arranged side by side or overlaid in Picture-in-Picture mode.

THREE SAVED LAYOUTS

Save your most-used layouts and recall them using the M1, M2 and M3 controls.

KVM CONTROL OF FOUR COMPUTERS

Control the PCs connected via USB-B using a single mouse and keyboard.

TESTED AND APPROVED



Prof. Fernando Zarone | University Federico II | Napoli



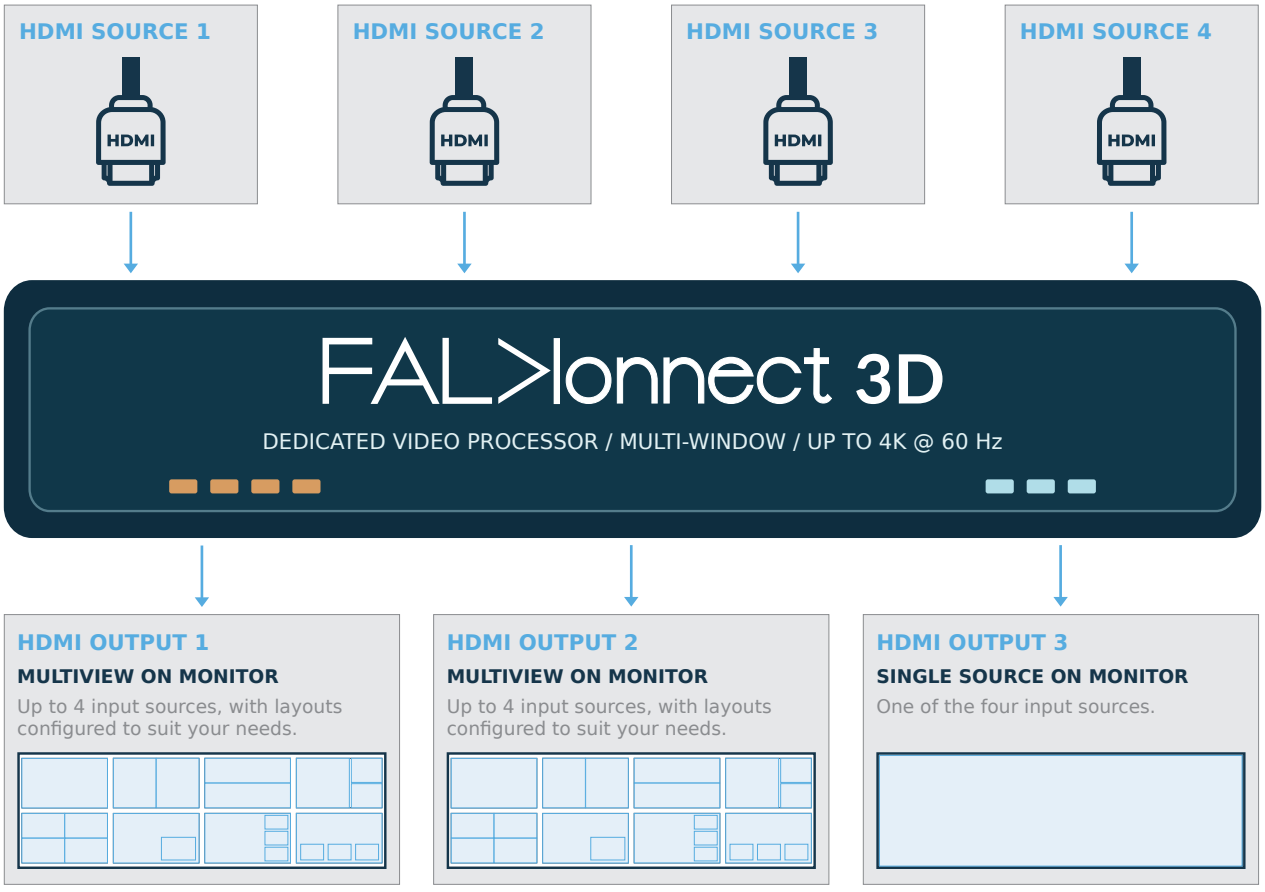
Prof Mauro Rigolone | Endodontics | Vercelli

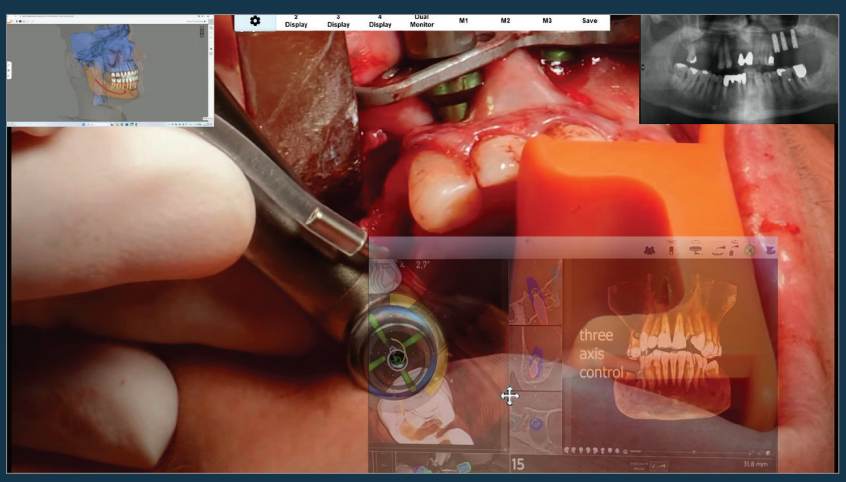
02 THE MULTIVIEW ARCHITECTURE

FROM SEPARATE SOURCES TO INTEGRATED VISUALISATION

FALKONNECT 3D manages up to four HDMI sources simultaneously, arranging them in configurable Multiview layouts. Using a mouse, you can select video sources, move and resize windows and, in two-source Picture-in-Picture mode, adjust the transparency of the secondary window.
Up to three layouts can be saved and recalled quickly.

HDMI outputs 1 and 2 can display different multi-window compositions or duplicated layouts using the Dual Monitor function, depending on the selected mode. HDMI output 3 displays one source selected from those connected.





EXAMPLE OF MULTIVIEW DISPLAY

Operative-field video, radiographic images and 3D reconstructions displayed simultaneously on one monitor, with windows customised using a mouse.

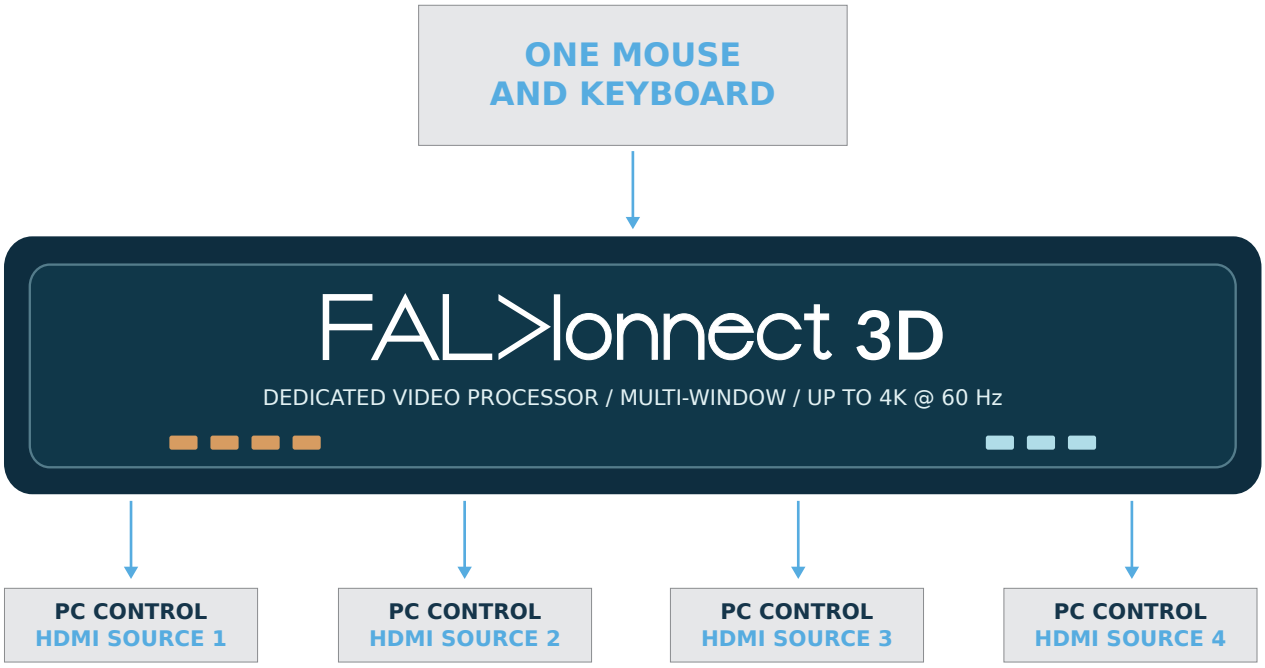
03 CONTROL

ONE MOUSE TO CONTROL UP TO FOUR COMPUTERS

Radiology, scanner and surgical planning software can run on separate computers without requiring separate control stations.

Via its USB-B connections, FALKONNECT 3D provides KVM control of connected PCs from a single workstation, allowing users to switch between applications without changing mouse or keyboard.

Three control modes adapt cursor behaviour and the display to different clinical workflows.



KVM CONTROL AND BYPASS FUNCTION

01

SINGLE MOUSE

A single cursor moves across all windows on monitors 1 and 2 and controls the computer displayed in the active window.

02

MULTIPLE MOUSE

Four separate cursors move in parallel within their respective windows.
Useful when controlling computers displaying identical content.

03

BYPASS MOUSE

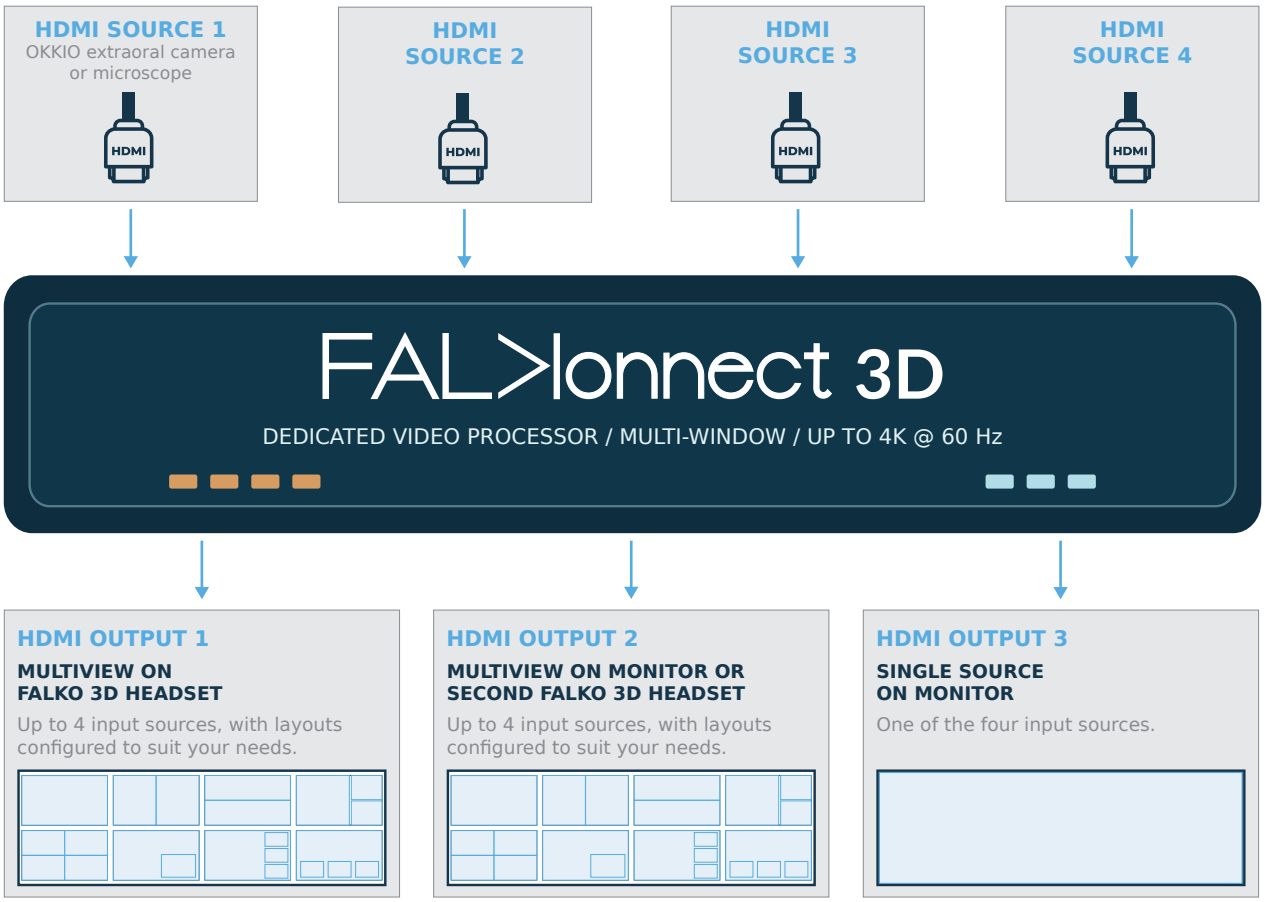
With Bypass Mouse active, monitor 3 displays the source under the cursor in full screen when the four-source layout is enabled. Alternatively, a fixed source can be selected.

04 INTEGRATION WITH THE FALKO 3D HEADSET

CLINICAL IMAGES, DIRECTLY IN THE FALKO 3D HEADSET

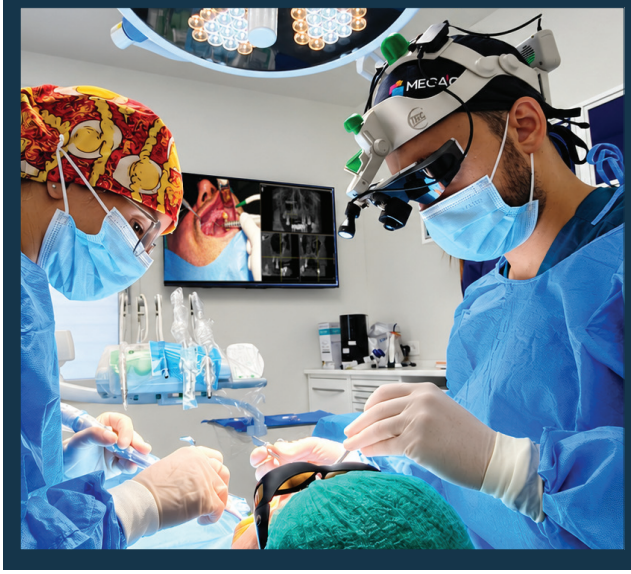
Connected to the FALKO 3D headset, FALKONNECT 3D displays images from practice equipment directly in front of the clinician's eyes, without turning towards external monitors.

Live video of the operative field can be displayed alongside CBCT images, scans and other clinical content in a multi-window layout. The system also supports 3D Side-by-Side mode for induced stereoscopic viewing of compatible 2D video sources.

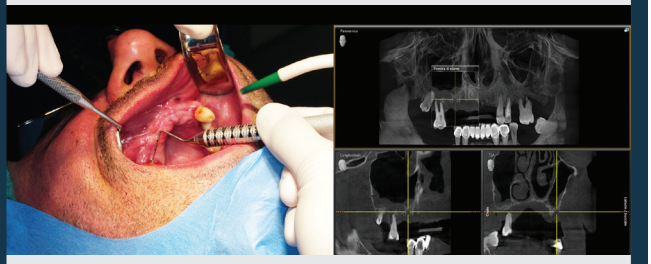


WHAT THE CLINICIAN SEES IN THE HEADSET

Live forward-facing video and images from connected devices displayed simultaneously in the headset in Multiview mode, with a virtual 200-inch screen experience. Courtesy of Dr G. Guidi.



View inside the headset



05 OPTIONAL AND SPECIFICATIONS

RECORD WITHOUT A PC, SHARE LIVE



The **optional 4K UHD Video Recorder** extends FALKONNECT 3D functionality, allowing still images and video of procedures to be recorded in up to 4K without a computer. Recording does not interrupt the image displayed on the connected monitor.

With its integrated capture card, the recorder can be connected to a PC to share live video through video-conferencing platforms.

A solution for clinical documentation, training and telementoring.

Video recorder code DE6.302XR.4

TECHNICAL SPECIFICATIONS

FALKONNECT code	FK701DTR
Video inputs	4 × HDMI 2.0 — 4K60, 4K30, 1080p60
Video outputs	3 × HDMI 2.0 — 4K60, 4K30, 1080p60
USB ports	4 USB-B inputs for computer control · 2 USB-A inputs for mouse and keyboard · 1 USB-A 5 V DC output for the FALKO headset receiver
Audio	3.5 mm jack output; selectable source from the four input channels
Display modes	1, 2, 3 or 4 windows; Picture-in-Picture with adjustable transparency; Side-by-Side
Layouts	Three saved presets (M1 · M2 · M3) and Dual Monitor function
3D viewing	Induced Side-by-Side stereoscopy on HDMI outputs 1 and 2
Controls	IR remote control (approx. 5 m range), front panel, on-screen menu
Power supply	12 V DC – 3.5 A · 12 V DC/240 V AC power adapter compliant with IEC 60601
Compliance	CE – Directives 2014/35/EU, 2014/30/EU, 2011/65/EU · electrical Class II

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Tecnomed Italia Srl | Via Salvador Allende 2 | 61040 Monte Porzio (PU) | +39 0721 955125 | www.tecnomeditalia.com | www.falkomed.com

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