

# VPilot

**AUTOMATED, INTELLIGENT, COST-EFFECTIVE  
LIVE STUDIO PRODUCTION**

Automatically switches and controls PTZ cameras using 3D sensors

Comes with VPanel, an automated studio control box

Fully automated software solution based on AI algorithms



Add overlays, leaders, name tags, tickertapes and advertisements for complete live news programming

Auto-direction based on audio, auto cue and a web-based control panel

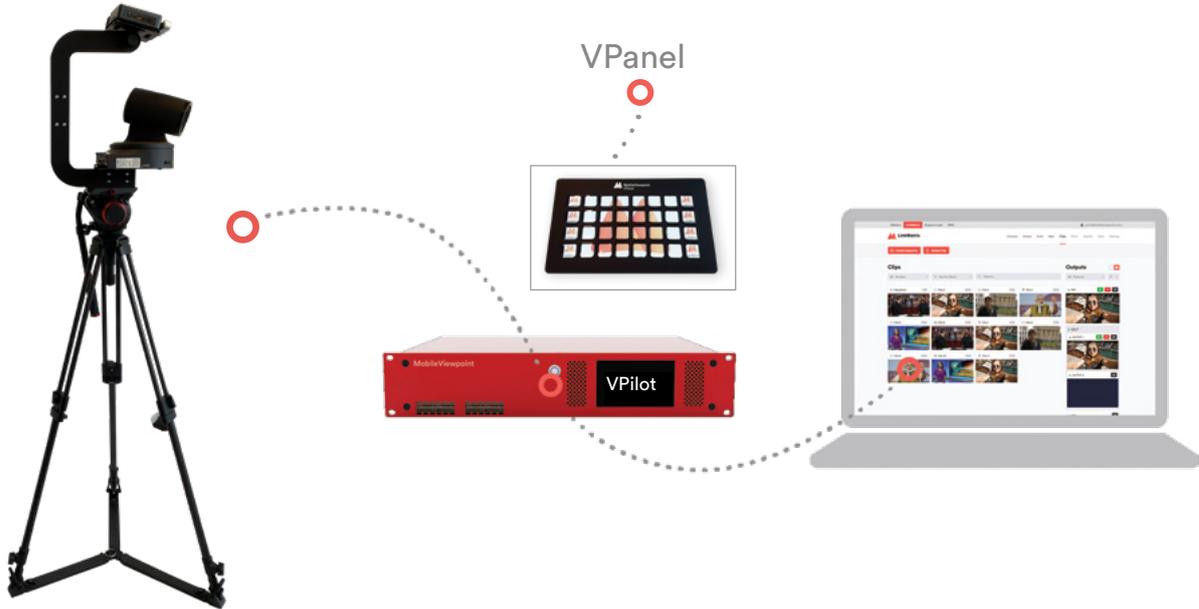
VPilot is an innovative production solution that enables broadcasters to create completely automated live news programming without the need of a cameraman or director. Control over multiple cameras, a switcher and a graphics engine enables vivid and accurate capture of any interview or news production.

The VPilot platform utilizes AI algorithms that automatically switch and control PTZ cameras based on the analysis of 3D video images and audio

signals in a studio or on location. Virtual director functionality mimics a real director, leaving the presenters to do what they do best — hosting a news broadcast.

In the default configuration, VPilot supports 7 SDI camera inputs (which can be extended to 11), automatic overlays based on image and voice recognition, up to 30 audio channels based on Ravenna/AES67/Dante and a SDI switcher with integrated Caspar CG.

## The VPilot platform contains the following products:



### VIRTUAL CAMERAMAN

**Ensures accurate focus and pointing of PTZ cameras**

Virtual Cameraman is a software component that runs on an automated studio control box and controls PTZ cameras based on input from the Virtual Director system and 3D sensors. The sensors create an image of the studio or production location and skeletons of the people in the studio, which makes sure the camera always points at the middle of the presenter's head to overcome the potential of cut-off faces. Via a web-based 3D rendering system, it is possible to calibrate the set-up of Virtual Cameraman in a few minutes, a capability that allows VPilot to function as a fly-away system.

### VIRTUAL DIRECTOR

**Switches between cameras based on AI algorithms and external inputs like microphones, auto cue status and rundown scripts**

Virtual Director is a software component that contains AI algorithms and a basic set-up for auto direction based on several inputs such as audio, auto cue and rundown list. It comes with VPanel, an automated studio control box that supports the seamless and full automation of studio productions. VPanel allows the user to train the system through manual direction and makes it possible to intervene when a shot is not meeting the desired outcome of the production. It also offers full control of the rundown functionality – which can be changed on the fly by the presenter or editor – and supports switching to external feeds in the field, Skype connections and other video feeds, as well as video and graphics overlay.

### LINKMATRIX

LinkMatrix is the heart of all Mobile Viewpoint services and products but also functions as a video router in combination with the MVP LinkSwitch server. The LinkMatrix production tab offers features such as creation of playlists, overlays, live switches and tickertapes to enable the complete production of IPTV channels. Playlists can be made with exports from original wireless multiplex technology (WMT) streams, but also with other clips using the upload function. Playlists can be either wall-clock based or interruptible. Interruptible playlists utilize leaders and pre- and post-rolls for publishing live video on platforms such as Facebook Live. They can also be used to add advertisements before the broadcast of sports events. For multicamera productions, LinkMatrix supports web-based PTZ control as well as shading and color correction.

