

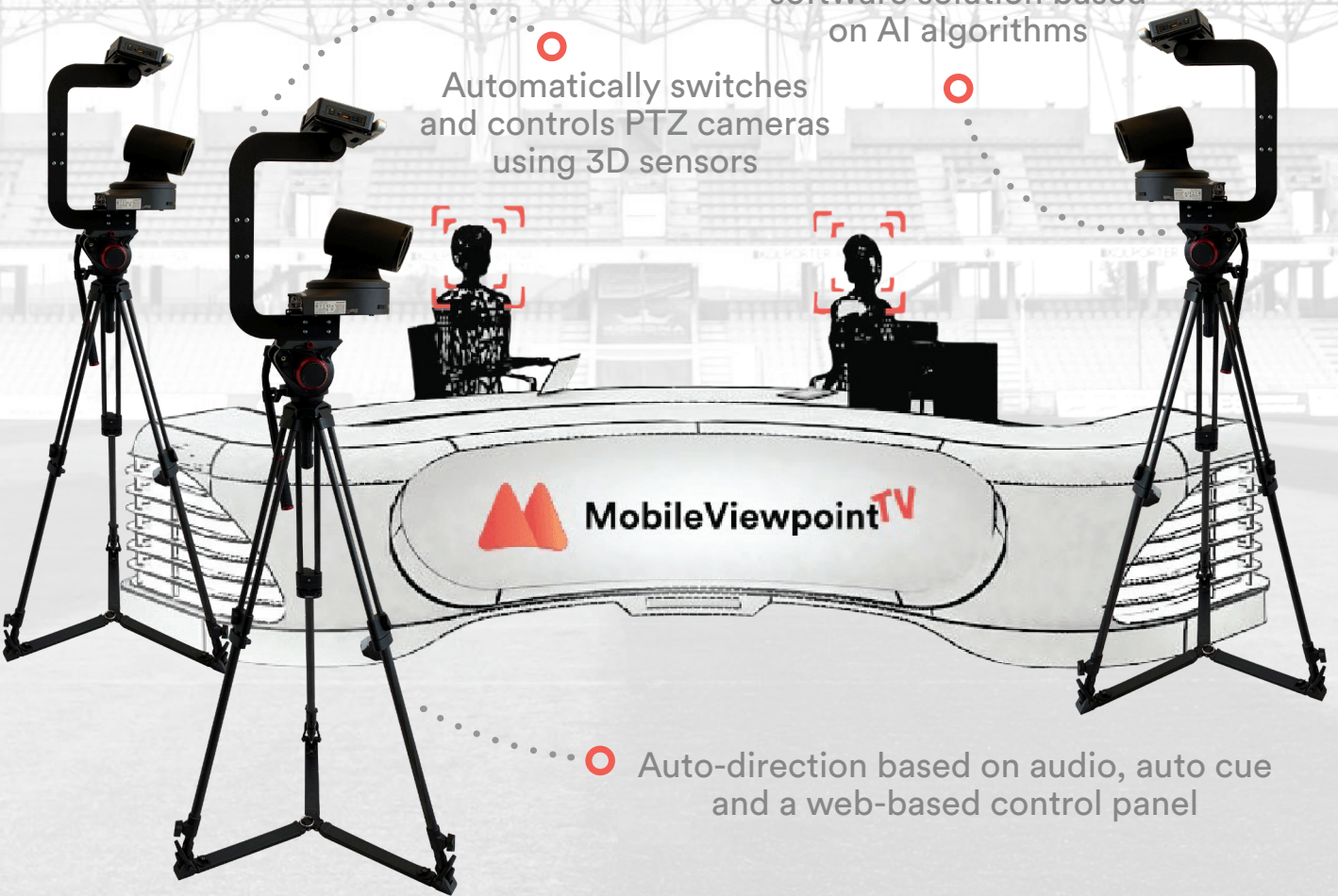
# VPilot

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

Fully automated  
software solution based  
on AI algorithms

Automatically switches  
and controls PTZ cameras  
using 3D sensors

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



VPilot from Mobile Viewpoint 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 three 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 by analyzing 3D video images and audio signals in the TV studio. Solution functionality mimics a real

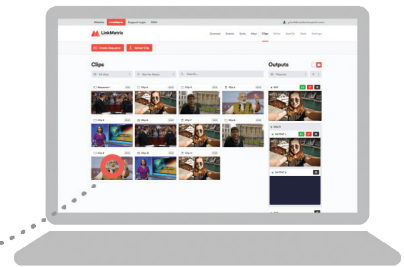
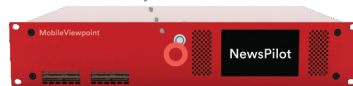
director, leaving the presenters to do what they do best — hosting a news broadcast.

VPilot is available in two configurations:

**NewsPilot:** Targeted at broadcasters, for use in studio environments as well as for live news coverage.

**StreamPilot:** Aimed at journalists, bloggers, radio shows and event organisers, to support live event and interview production.

## 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 for 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 input like microphone levels, auto cue status and rundown script**

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 a manual web-based control panel. As with every AI system it uses historical data to improve performance. The manual web-based control panel allows the user to train the system through manual direction as well. After 10 manual sets the system will be trained accurately according to user preferences. The web control panel also makes it possible to intervene when a shot is not meeting the desired outcome of the production.

### 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 for adding advertisements before the broadcast of sports events. For multicamera productions LinkMatrix supports web-based PTZ control as well as shading and color correction.



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