3D fusion with mobile C-arm fluoroscopes: How it works and simplifies 3D overlays

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Automated 3D overlay for surgical guidance
Google maps. Simple to use. Works on all smartphones, tablets, laptops.

If Google did 3D overlays...? Simple to use. And work on all X-ray sets.

Cydar EV: Medical-grade all-in-one PC and computer vision

Cydar EV: Works with all X-ray sets

Benefits of 3D overlays
• Reduces procedure time
• Reduces radiation exposure for staff and patients
• Reduces iodinated contrast use

Cydar EV: Simple to use
• Hands free
• No skilled technologist
• No interruption
• No spin/ cone-beam CT
• No AP/ lateral XR
• No manual alignment

Real video of Cydar EV in use. Anonymised name.
How does it work? Computer vision uses vertebrae to register CT scan.

Protected by USA Patent No. 9,240,046

Range: no overlays in full lateral (90°)

120° 60°

Automatic updates with constant improvement: what’s coming up

Correcting for straightening (‘deformation’)
- Prototype shown
- DSA or contrast imaging
- Physician-adjusted straightening
- Will be in early-2017 update

Available now in the UK and US
- FDA clearance (July 2016) and CE mark
- In routine clinical use in UK
- First US luminary site
- Duke University Hospital, NC
- Operational December 2016
- General release in US: March 2017
- Other geographies to follow soon after
- Deformation correction. Integrating planning (2017)
If interested:

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