The New Generation of Forensic Facial Reconstruction

(Wilkinson 2010)
What is Forensic Facial Reconstruction?

(Wilkinson 2010)
Traditional 3D

(Wilkinson 2010)
Digital 2D

Figure 1: PRO-fit screenshot showing a full face within which witnesses select facial features.

Note: In this example, the “face shape” (shown in dark grey (red when viewed in colour) in the Model dialog, top right) is being selected.
CT Scan vs MRI Scan
New Generation Techniques

(Wilkinson et al., 2006)
(Wilkinson et al., 2006)

New Generation Techniques
New Generation Techniques
New Generation Techniques (Challenges)

(Kähler et al., 2003)

(Romeiro et al., 2014)
New Generation Techniques (Challenges)
WHAT IS EFIT-V?

EFIT-V is a unique software system that creates near photo-realistic, colour images of criminal suspects from an eyewitness account. It is easy to understand, easy to operate and produces excellent results quickly.

THE BENEFITS

Performance: Since its release in early 2008, licensees are seeing huge benefits.

100% in useful intelligence (Police Professional, IP, April 2008) have been reported. A study of its performance in the field involving more than 1000 interviews resulted in a 17% increase in identification rate (Driver and Rowbotham, E-FIT user conference 2009).

Speed: Construction is typically considerably quicker (up to 100%) than for the manual method.

KEY FEATURES

- Intelligent software – The software actually learns from the witness, guiding them towards the target face.
- Sophisticated feature transformation – Allows gross and fine adjustments to the target face.
- Fully automatic age progression – Operates through a single slider control.

New Generation Techniques (Challenges)
New Generation Techniques
(Solutions)

(ATOR Arc-Team Open Research)
New Generation Techniques (SOLutions)

(Phillippe Froesch)

(George Dawnay)
Conclusion

(Wilkinson 2010)

(Phillippe Froesch)
Works Cited


