Image Composite Editor (ICE)

Created by the Microsoft Research Computational Photography Group
Image Composite Editor (ICE)

- Given a set of overlapping photographs of a scene shot from a single camera location, the app creates a high-resolution panorama that seamlessly combines the original images.
- ICE can also create a panorama from a panning video, including stop-motion action overlaid on the background.
Image Composite Editor (ICE)

• Finished panoramas can be shared with friends and viewed in 3D by uploading them to the Photosynth web site.

• Panoramas can also be saved in a wide variety of image formats, including JPEG, JPEG XR, TIFF, and Photoshop’s PSD/PSB format, as well as the multiresolution tiled format used by HD View and Deep Zoom.
Image Composite Editor (ICE)

Why use ICE?

- Create an image with more of the visual impact of a scene that your eye actually sees

Single image vs.
Image Composite Editor (ICE)

• What type of images are suitable?
  – Scenery
    Made using 6 images
  – Architectural
    Made using 12 images
Image Composite Editor (ICE)
• The Image Composite Editor (ICE) is a free download from Microsoft

• If you have ANY interest in creating a panoramic image this software is a MUST have!
Image Composite Editor (ICE)

- Printing a panoramic image
  - Many online sites
  - Image shown could be printed as a 20 x 58” for around $40 or as a 12 x 35” for around $22.50 at one online site I checked
Image Composite Editor (ICE)

- File size comparison
  - File quality selection determines the file size
  - The table shows the files size for the same image saved at various qualities (and file types)
Popular Photosynth.net panoramas

Snow in Palestine
M.idrees, 2/20/2015
1,948 views
151.52 megapixels

Grindelwald
nipa0711, 2/21/2015
612 views
187.76 megapixels

The second floor apartment above our theater....
MattDunphy, 2/18/2015
259 views
4.99 megapixels

Fasching 2015 am Eck
memphis62, 2/17/2015
161 views
80.83 megapixels

Fall Creek Falls today from the base, 360 degree...
caveandhollows, 2/19/2015
140 views
3.84 megapixels

Lobby demolition and renovation
MattDunphy, 2/17/2015
114 views
4.82 megapixels

Also from Microsoft Research

Now with noise removal
Camera motion: rotating motion. Stitched 4 of 5 images. Span: 118.2° horizontally, 38.1° vertically.
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• Mentioned that the software was improved
  – Panorama created using the Old software version

Made using 12 images
Image Composite Editor (ICE)

- Panorama created using the New software version

Made using same 12 images
If anyone is interested in learning some of the technics used for taking images for use in creating a panorama we have a few copies of some articles found online.

They are also available in electronic format if desired.
Questions?