



Please download the software at the following link:

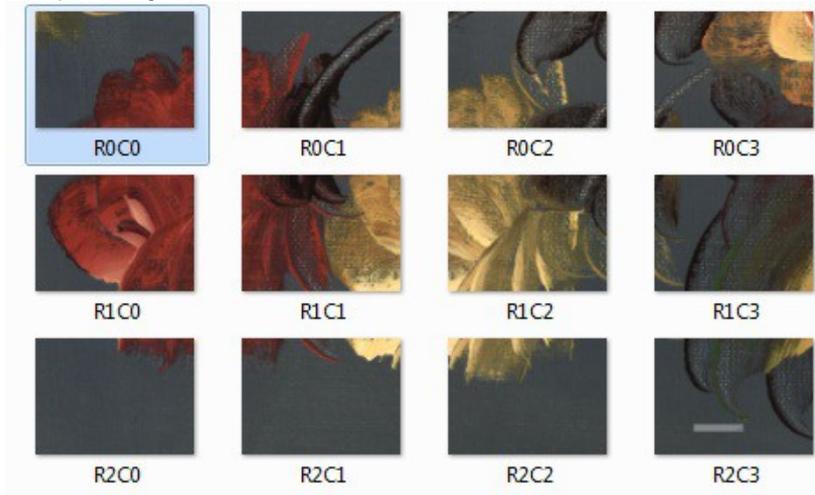
<http://smartdrive.co.uk/download/satscan-puzzle-stitch-software.zip>

## Puzzle stitch demonstration version instructions

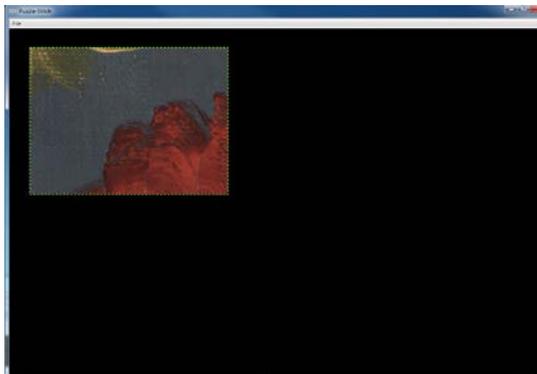
Puzzle stitch is a PC based product which utilises the highly acclaimed SatScan image stitching software to allow the user to place individual overlapping tiles /images on screen and stitch them together forming a complete whole image.

After installation, open the Puzzle Stitch icon on your desktop the Window will be blank. On your desktop you will notice a new folder called "sample image set" open this folder in your browser. This is a folder containing 12 sample images we have created for your use this demonstration version restricts the user to 12 images in the dataset.

### Sample image set



Drag and drop the file R0C0 into the top left of the puzzle stitch application,





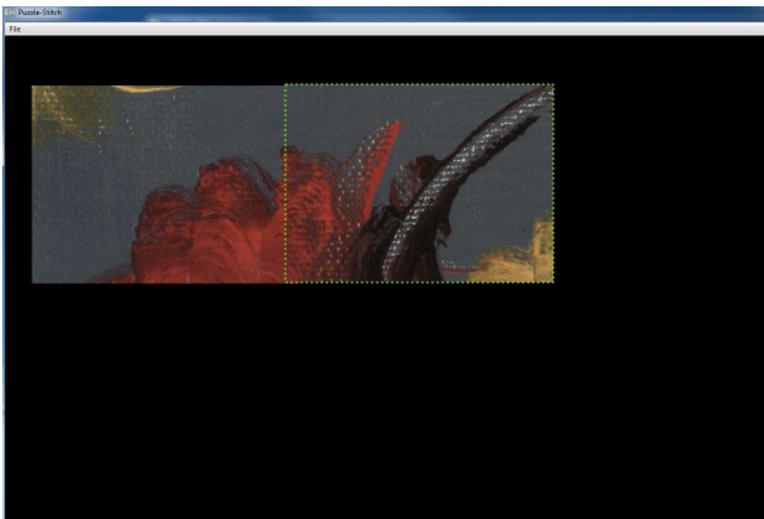
SatScan

<http://satscan.smartdrive.co.uk/>

Next place R0C1 to the right of R0C0, you may want to expand the Puzzle Stitch application window.



Now carefully drag R0C1 until it seems to align by sight with the first tile, this doesn't have to be perfect just close, drop the tile in this position.

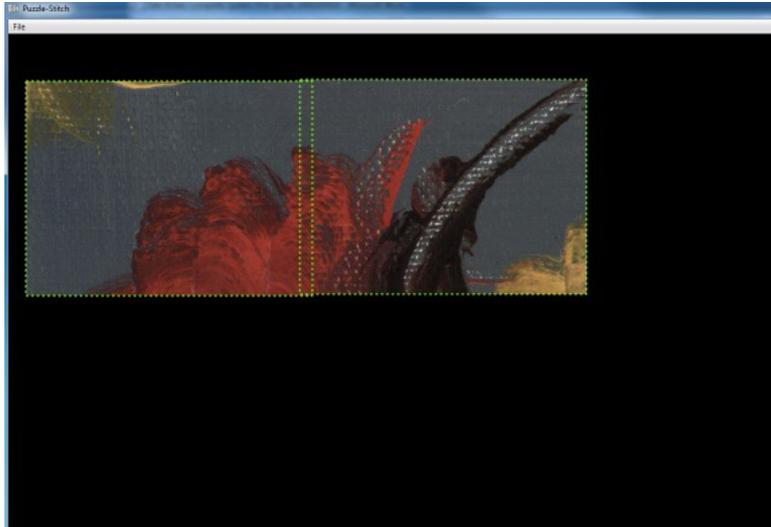


Currently R0C1 will have a Green dotted edge indicating it's selected, now left click R0C0 both tiles are now selected and ready to stitch



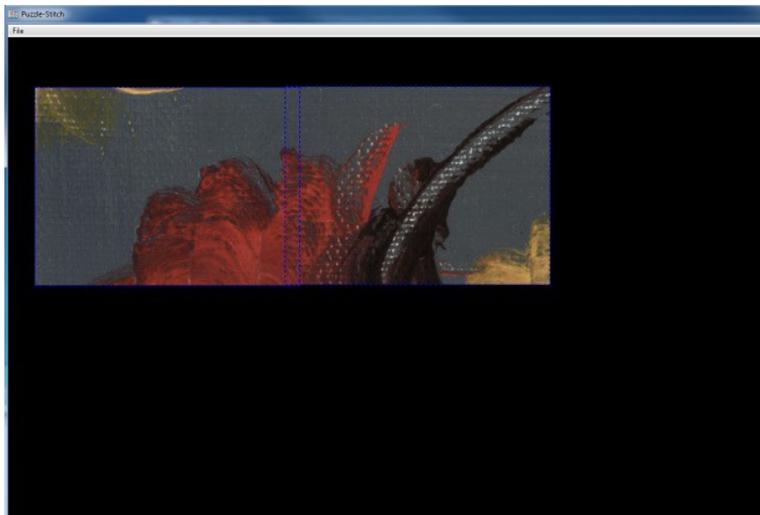
# SatScan

<http://satscan.smartdrive.co.uk/>



Press “S” on the keyboard to stitch the pair together.

After a short “stitching” period you will now notice the pair are now stitched as one larger tile with original tiles positions indicated in Blue, you can now drag them around as one.

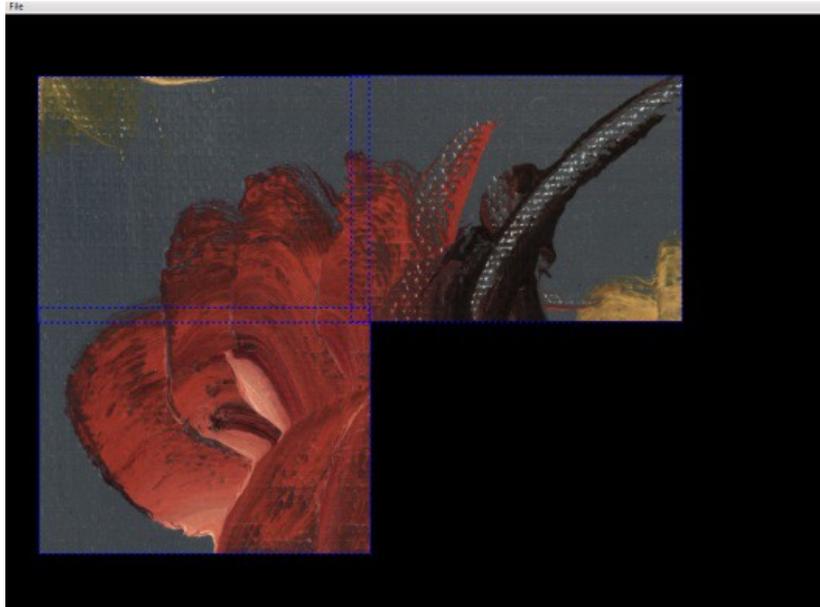


R0C1 represents Row 0 Column 1 the format follows for all tiles. Try taking R1C0 and placing it underneath the original R0C0 tile, you will notice the selected is Green and rest of the built up main image is Blue. Click on the main image and press “S” you now have 3 images stitched. Continue until you have completed all 12.

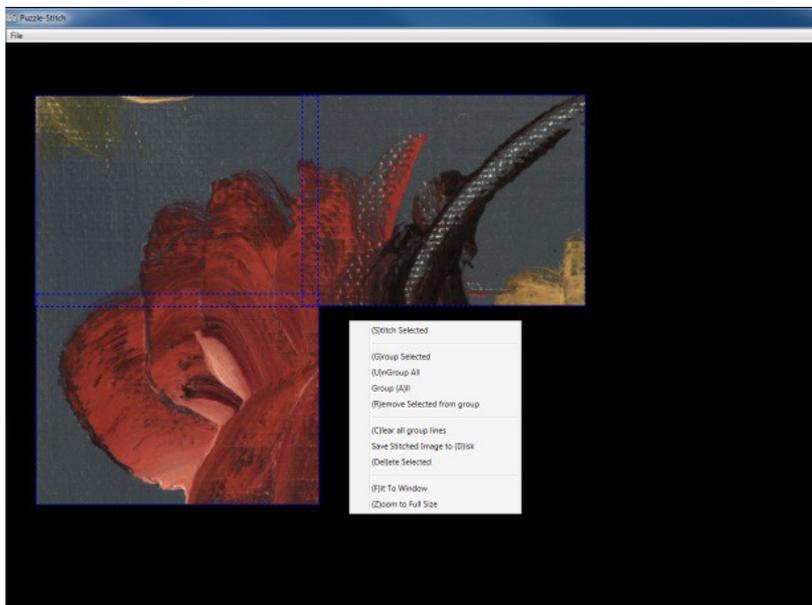


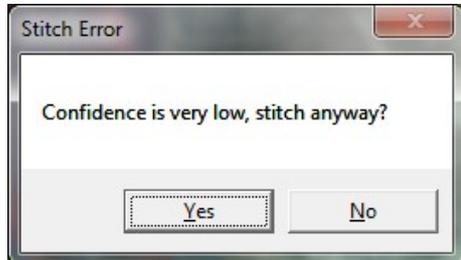
SatScan

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You can Right Mouse click to see an on screen menu which will provide other helpful options.





This Confidence dialog box indicates that few matching pixels were found in the attempted stitch tiles, proceeding will usually result in a bad match, try re-positioning the tile to be stitched if you feel a match can be made else proceed, allowing a bad match to proceed is a useful feature if you have blank areas to stitch.

Our demonstration tile set was created with a 5% overlap, the routine will work fastest with small overlaps of this kind. The routine uses pixel matching to complete the stitch so large overlap areas will take proportionally longer.

The puzzle Stitch routine is designed for professional imaging organisations, it does not distort the image to force a fit, there are lots of other applications which perform this function, whilst an image is created it's technically distorted to make a good looking image. Puzzle Stitch is designed to work with image tiles that have been professionally created with as little distortion as possible, therefore the results are a true representation of the original material gathered, representing true uniform scale throughout the image.

Feel free to load your own images and see what you can achieve!

#### Technical notes:-

- This demonstration version will restrict the final image to 5120 x 2880 pixels but full Puzzle Stitch is unlimited
- Imported tiles can be virtually any format including Greyscale.
- All source tiles will need to all be of the same dimensions

Puzzle stitch is an offline version of the automatic stitching routines used in SatScan automated products, combining cameras, motion control and stitching it's possible to create huge automatic real time images see <http://satscan.smartdrive.co.uk/> for more information.

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Please feel free to contact SmartDrive if you need any further guidance on this product.