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Document Introduction

This documentation provides a comprehensive overview of each toolbar, tool tab, and associated tools within Data 7 ICE, as well as the corresponding menu strip.

This is the ICE app's main toolbar

File	Edit	Tools	lmage	Zoom	Settings	Help				
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4	>		/	Z	<u></u>		5			

Main Toolbar

Icon descriptions

lcon	Name	Description of Icon tool		
	Open image	Loads an image into ICE to edit and convert to embroidery		
	Save Image	Saves the image to disk in several formats		
	Fit Image	Adjust the loaded image to fit the canvas window, maximizing its size for optimal display.		
\mathcal{I}	Actual Size	Draws the image actual size		
<u>(</u>	Zoom in	Increases zoom factor of image by 0.1		
Þ	Zoom Out	Decreases zoom factor of image by 0.1		
100% -	Zoom Configurations	Select a predetermined zoom factor, with the additional option to enter a specific zoom factor manually.		
5	Undo	Reverses the previous image edit action performed by tools such as pens, fills, or pasting.		
	Redo	Restores the previous image edit action involving pens, fills, pasting, and similar tools.		
<u>¢</u>	Rotate CW	The loaded image is rotated 90 degrees clockwise.		
	Rotate CCW	The loaded image is rotated 90 degrees counterclockwise.		
	Mirror Vertically	The image is flipped vertically.		
	Mirror Horizontally	The image is flipped horizontally		
4	Fill Tool	The Image Fill tool has been activated, enabling the filling of an image with a selected colour within a specified tolerance		
>	Erase Fill Tool	The erase fill tool erases the selected image colour based on a specified tolerance.		



	Pen / Drawing Tool	Enables the drawing tools which includes brushes, pens, shapes, lines at chosen widths. This tool also supports text with placement on lines, arcs top and bottom, column thickening tool and a stroke tool which creates a border around the selected region.
 Image: A start of the start of	Eraser Tool	Erases parts of an image using the selected brush type and size
	Selection Tool	The tool enables the selection of image segments using various shapes, including ellipses, rectangles, squares, and circles. It also supports a lasso tool and a colour selection feature.
Ā	Cropping Tool	Allows the cropping of an image but also canvas resizing when cropping outside of image bounds
	Image Utilities	This Image utility tool offers several features, including posterising, pixel cluster removal, detail and noise reduction, rounding, merging, and colour reduction.
0	Colour Utilities	This tool features colours removal, merging, colour changing and, DE speckle tool
	Fill Pattern Editor	The fill pattern editor offers tools for creating and editing embroidery fill patterns, loading default fill patterns, trimming and validating patterns, as well as visualizing the final outcome along with an estimated stitch count per square centimetre.
	Embroidery Tool	This tool converts the chosen image regions to an embroidery design using the chosen stitch and fill pattern options.
	Show Ruler	Shows the ruler in CMs, MM, Inches or pixels
	Show Grid	Shows a grid in the form of lines or crosses
	Image Properties	Display certain image properties including, height and width in pixel, CMs and inches, image format, DPI etc,

Tools Overview

Fill Tool

Fill Tolerance	Sets the pixel tolerance of which pixels to fill with selected colour Choose fill colour
Before example	After

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Eraser Fill Tool

Fill Tolerance	Sets the pixel tolerance of which pixels to erase
Before example	After

Drawing Tool

-		
Brush Selection Brush Size		Brush selection tool for drawing on image. Includes square, circle and size of brush settings.
Pen Selection		The pen selection tool offers options such as shape outlines, solid fills, and adjustable line width settings.
Before	After	The thicken column tool thickens any column of colour clicked by the left mouse button.
Before	After	The stoke tool adds a border of the chosen thickness and colour around the clicked image region

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Font Select Font Pata 7 $Pata Pata Pata Pata Pata Pata Pata Pata$	The text tool allows you to add text on a line or arc. Use any font installed on your device and specify the size and colour.
Data 7	Text on a line
	Text on top of an arc You can change the arc radius using these tools: A B B B C C C C C C C C
	Text on the bottom of an arc You can change the arc radius using these tools: A B B B C C C C C C C C

Eraser Tool

Brush Selection Brush Size 4	Simply removes the clicked areas of an image at the chosen size and brush shape.
Before	After, using the square brush size 10

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Selection Tool





Here's a lasso example, first selecting using the mouse
And here, the selection has been cut and pasted below

Cropping Tool

		Using the mouse button, select the area to crop to, using the anchor bars to change the size if needed.
✓		Click the green tick to accept or circle to cancel
Before	After	This tool also supports image trimming where it will trim away any transparent pixels as show opposite.

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Image Utilities



Colour Utilities

colour othitics	
Merge Colours Merge Range	This tool offers some useful tools for
Change Colours	manipulated specific or groups of colours.
Erase Colours Reduce Colours	Merge colour merges the selected colour with
Despeckle Colours	the closest in the image.
Select All Deselect All	
Highlighting Colours	Change the selected colour to another colour.
In Colour In Monochrome	Frees the selected colour
C RGB Count % Clr No	Erase the selected colour
000,000,000 49464 34.08 1	DE su calda au dau cias tha calastad calasu
	DE speckie of denoise the selected colour
000,064,000 2618 1.80 4	
255,000,000 4816 3.32 5	The Merge Range merges all the colours below
128,255,128 20580 14.18 6	the entered % coverage with their closest
	match enabling the reduction of colours.
	You can also use the Reduce Colours option to
	specify the number of colours required
	For additional information and an example,
	please see the "How to prepare an image to
	convert to embroidery design"
	Convert to embroracity design .

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Hey! We also have a video of the process for your convenience. Check it out: <u>Optimise and</u> <u>Prepare Your Images to Create</u> Stunning Embroidery Designs

Fill Pattern Editor Tool



Embroidery Tool



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Regions: 5		
DataGriv Seq Den Ang Len UL FP OL	Туре	
Region Stitching Sequence 1 3 45 30 M fill 30x10 HM 2	Fill	Here all of the images red colour regions have
2 3 45 30 🗹 fill 30x10 HM 2	Fill	Just been added.
3 3 45 30 ☑ fill 30x10 HM Ž 2	Fill	
4 3 45 30 ☑ fiii 30x10 HM Ž 2 1	Fill	
5 3 45 30 🗹 fill 30x10 HM 2 1	Fill	
Stitch Options		Stitching options.
Density 3		
Length 30 🌩		Density or separation is the gap between the
Overlap 2		stitch rows. $3 = 3$ points which is 0.3mm.
Angle 45		Length is the stitch length of any stitches that are not the fill pattern.
O Outline		Overlay is the increased width of the filled region. 2 = 0.2mm
		Angle is the angle from horizontal, that the rows of fill stitches will sew. 0 means all stitch rows will be horizontal. 90 means that they will be vertical etc.
		When underlay is selected, each region is first sewn with a lower density underlay stitch which is 90 degrees perpendicular to the sewing angle of the fill stitch.
		Currently, ICE supports 2 types of stitching, Fill or seeding stitches with fill patterns or Outline where the regions outline is stitched.
Fill Pattern		At the time of this document's publication, there are currently around 40 different included fill patterns.
		ICE supports having a different fill pattern per
Scale mm		region, letter, colour etc or any combination in
Scale: 10		DELWEEN
Sizes: 63.5 x		
Fynat	Stop Process	Command buttons include:
	Stop Flocess	1. Sew – convert the selected regions to
		an embroidery design
		Export the design to files



	 Stop process, also triggered by pressing the ESC key, stops the conversion process if needed.
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