

EmStudio V5

Technical data

Variants

The embroidery CAD/CAM-Software EmStudio is in the packages e-punch, e-host and e-lite included. These packages have the following functionalities:

Function	e-punch	e-lite	e-host
Design administration	●	●	●
Partner administration ¹⁾	●	●	●
Import of design template	●	●	-
Drawing	●	○	-
Punching	●	○	-
Arranging PLL	●	●	-
Stitch editor iSed	●	●	●
Stitch editor SHC	●	●	●
Stitch editor SLC	●	●	●
Arranging SHC	●	●	●
Optimising SHC	●	●	●
Yarn administration	-	-	●
Machine administration ¹⁾	-	-	●
Visualisation of operation data	-	-	●
Calculation of yarn consumption	●	●	●
Calculation of production time	●	●	●
Converter SLC/SHC, other formats	●	●	●
Sequins & Soutache	●	●	●
Laser & HeatCut	●	●	●
Help system	●	●	●

● included in package ○ reduced functionality

1) Attention: To network more than 10 computers (PC's, machines) a file server is required. Suitable solutions can be realised with "Network attached storage" NAS.

License protection

One EmStudio license can only be used on one computer. Although the software can be installed on several computers, operations can only be carried out on the computer with the installed license key. This license key can be transferred easily from one computer to another.

Hardware requirements

Hardware requirements minimal:

- PC, min. 2.0 GHz, min. 4 GB RAM, min. 250 GB hard disk
- CD ROM, keyboard, mouse
- Colour monitor min. 1280×1024 pixel, max. 4096×2160 Pixel
- USB-2 type A
- Windows 7 Professional, Windows 8.1 Professional, Windows 10 Professional ¹⁾
- Microsoft Internet Explorer V9.0 or newer
- Open GL V3.3 or DirectX 11 or newer

Additionally supported Hardware:

- for e-punch:
- Calcomp Drawingboard III, IV (A2 ... A0)
 - Wacom UltraPad A2 (format BitPad Two)

Administration

Design administration

- Design administration with various design books
- Design object contains all components belonging to a design
- Import/export of design as one single file (*.sef)

Partner administration ¹⁾

- Visualising network partners and storage media (floppy, Zip, USB-stick, server ...)
- Supporting partners with flat and object type design structure

Yarn administration

- Yarn-dependent machine parameters can be managed with the design or globally
- Assigning yarn-dependent machine parameters to designs
- Managing converter and optimiser parameters

Machine administration ¹⁾

- Managing and visualising machinery (4040, 4040 HP, 4040 HP-E, 5040 E, Era, Epoca, Epoca II, Epoca-III/Delta, Epoca 04, Epoca 05, Epoca 6, Epoca 7, Unica; without 3040 and Datamat)

Visualisation of operation data

- Visualisation of operation data for Saurer embroidery machines according to customers' requirements, e.g. in excel

Optimising and arranging

Stitch optimiser

- Optimising short and hard stitches

Optimiser for ActiFeed

- Optimising stitch types and bore effects

Optimiser for PentaCut, Pentamat

- Optimising lock-in and lock-out stitches with predefined or personal lock-in and lock-out stitches

Arrangements

- Arranging punch or SHC designs (repeating, mirroring, rotating and scaling)

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Drawing and punching

Import of design template

- Importing coloured templates for drawing and punching with powerful filtering for various file formats

Drawing

- Drawing based on imported templates
- Creating technical embroidery drawings
- Printing/plotting of technical embroidery drawings

Punching

- Punching based on imported templates
- Punching based on large templates with digitising board A2 ... A0
- Direct transfer from the drawing
- Arranging within punch format
- Produces optimised stitch data through built-in embroidery rules
- Full support for Pentamat
- Import/export of designs in SHC and SLC
- Support of Sequins & Soutache
- Support of Laser & HeatCut

Drawing and punching

- Powerful automatic functions for stiel, stepp stitch, blatt stitch, straight and curved geflechts
- Automatic functions for complex contours with gaps for blatt stitch and straight geflechts
- Several automatic zugstaffel functions
- Efficient underlay automatic
- Impressive automatic boring function for single boreholes and bore staffel
- All automatic functions can be corrected and optimised
- Live macro functions, single or repeated in curves
- Working with mouse, tablet or digitising board
- Interactive status bar, configurable tool bar, context sensitive menu
- Preview dialogue for automatic functions
- Easy reapplication of effects with effect templates
- 3D view with yarn colours and fabric background

Stitch editors

Stitch editor SHC

Proven stitch editor

- Graphical editing of SHC designs
- Absolute or relative insertion or deletion of stitches
- Copy & paste: Copying design parts into new or existing designs
- Easy search and replace
- Graphical editing of needle patterns and yarn assignment
- Undo/redo, user definable toolbars
- 3D view with yarn colours and fabric background, as well as Sequin & Soutache
- Full support for Pentamat, PentaCut and ActiFeed
- Full support for Laser & HeatCut
- Full support for Sequins & Soutache
- Visualisation of potential stitch problems

Stitch editor iSed

The following functions guarantee smart editing in modern Look & Feel and best performance:

- Scaling, rotating, mirroring and over stitching stitch groups
- Change stitch density, stitch length
- Macros and macro library
- Optimising design processes and monitoring integrated stitch rules
- Intuitive arrangements
- Calculation of production time based on embroidery simulation
- Calculation of yarn consumption based on embroidery simulation

Stitch editor SLC

- Graphical editing of SLC designs
- Absolute or relative insertion or deletion of stitches
- Copy & paste: Copying design parts into new or existing designs
- Easy search and replace
- Undo/redo, user definable toolbars

Production support**Calculation of production time**

- Calculating production time of a design whilst considering specific machine attributes

Effective frame deviation

- Calculating the effective frame deviation whilst considering thread-cut and tool offset

Calculation of yarn consumption

- Calculating the yarn consumption of single-coloured or multi-coloured designs

Converters**Converter SLC/SHC**

- SLC<->SHC converter for standard, CRC and Pentamat

Converter for foreign formats

- Converter for Melco, Laesser, Hiraoka and Comerio F1, other converters by request

Help system

- Convenient HTML-help system
- Quickstart Guide iSed