

6 needles with customisable settings

You can individually customise each of the PR680W's six needles for speed, colour lock and now, the disengagement of the needle threader – useful when using a thin needle!

Thread tension range expansion

We've expanded the thread tension range on the PR680W creating a wider range of tension settings. It's now easier to embroider on difficult fabrics with the correct tension – without distorting or puckering the fabric!

6-needle auto-threading

Make threading simple! With just the touch of a button you can automatically thread each needle in a matter of seconds. For added efficiency this can even be done without a design on the screen!

Crosshair LED pointer for perfect needle positioning

See exactly where your needles will drop and ensure perfect pattern placement, so you can position jobs faster and more accurately. Nine points can be set: centre, four corners and four middles.

Customisable lighting system

See your work clearly with the four built-in LED lights. With five brightness settings you can find your ideal lighting level. The bright LEDs will illuminate your work with virtually no shadows.

Industrial level acceleration

Increase your productivity and efficiency with industry-leading high-speed acceleration! Reach up to 1,000 stitches per minute in seven seconds. Projects will be completed faster, with minimal noise.

Fast and adjustable embroidery

Get a professional finish, even on tricky items and using speciality threads. Embroidery speeds can be reduced to 400spm for flats, as well as for the (optional) cap and cylinder frame.

Automatic thread cutter

Cuts upper and lower thread automatically at the end of each colour change on embroidery.

Basting function

Apply a basting stitch outline to the perimeter of any design to hold the fabric to the stabilizer. Great for larger fabrics and hard-to-hoop items.

10.1" HD LCD touchscreen

Navigate the easy-to-use interface and see your designs in full colour on the crystal clear display – zoom in up to 200%. Fine quality thumbnail preview available for both external and built-in patterns.

Expandable library of built in tutorials

Learn as you go with the 24 pre-installed tutorial videos – covering everything from basic operations to embroidery functions. Download more via the WLAN connectivity.

Smart stitch management

Check the stitch progress bar to see how much time is left to stitch out each part of the embroidery design. Key in the stitch number to go forward or backward by any number of stitches.

Large embroidery area (200 x 300 mm)

Generous embroidery area for just about any project. Includes four embroidery frames: 200 x 300 mm, 130 x 180 mm, 100 x 100 mm and 40 x 60 mm, making it easy to go pro!

New magnetic frames (optional)

Save time with Brother's new flash magnetic embroidery frames – just hoop and go. Sewing area: 100 x 100 mm (4 x 4") and 130 x 180 mm (5 x 7")

Cylinder arm

Easily embroider hard to reach items such as caps, tote bags, sleeves, trouser legs and much more.

Easy embroidery features

Use the built-in touchscreen to convert multi-colour designs to single-colour embroidery. Add registration marks for easy, continuous borders.

Colour shuffling 2 function

Get even more colour possibilities with the colour shuffling 2 function. Use the pin graphic function in Random and Gradient modes to ensure your favourite colours are always included in your shuffle.

Colour grouping

Save time by selecting multiple regions at a time for editing colour.

Intuitive colour management

Customise designs even further by selecting areas of embroidery designs that you wish to skip before you start stitching.

Stitch simulator

Minimise mistakes! See your design on screen before a stitch is sewn, with the stitch simulator.

Auto-density adjustment

When enlarging designs, the stitch count is automatically recalculated, so your resized design will fit your custom project and maintain stitch quality. Designs can be adjusted from 60% to 200% of the original.

Customise designs on screen

There's no limit to what you can create. Arrange and align text, add an easy applique outline, pattern rotation in 0.1, 1, 10, 90 degree increments, add lettering, adjust sizes and combine designs – and much more!

Group and ungroup

Selected multiple regions at a time for editing colour. Easily group letters to move all at once, combine designs and edit them as one, or separate design elements and edit pieces individually.

Variety of built in embroidery designs

Choose from 102 embroidery patterns, 50 utility stitches, 3 monogram fonts, 611 decorative alphabet patterns, 10 buttonholes in 3 sizes and 140 frame pattern combinations.

50 built-in lettering fonts

Input multiple lines of text or lettering, all with the capability to edit. Rearrange words or phrases, combine selected words, change the style and size of individual letters, and even change the font style of a whole line. Easily align text left, centre or right. Perfect for embroidering multiple line poems, phrases, and wedding announcements.

WLAN connectivity and My Stitch Monitor™ app

With wireless connectivity keep track of your embroidery with the My Stitch Monitor app from your mobile device. Follow the progress of your project, get thread change alerts and know when your embroidery is finished.

Connect and grow your work room

With wireless connectivity and Brother's PE-Design 11 software (additional purchase required), you can link as many as 10 machines without a cable.

Wireless image transfer

When connected to your wireless network, send designs wirelessly from your PC to the PR680W with Design Database Transfer. You can also get machine updates automatically. (Design Database Transfer only compatible with Windows).

Administrator and operator lock

Security lock modes and key optimisation let you customise your business' workflows. Use the shortcut key allows to jump directly to the embroidery screen.

Auto resume

The PR680W will automatically resume the embroidery design at the exact stitch when the machine either stopped or lost power.

Three built-in USB ports

A high-speed port for fast design transfers, a second port for machine peripherals, and a third port for computer connectivity.