6-NEEDLE EMBROIDERY
Take Your Embroidery to the Next Level

- **6-Needle Versatility**
  Six needles with customizable settings for speed and colour lock. At the same time, the Thread Tension Range Expansion creates a wide range of tension settings, making it easier to embroider on difficult fabrics with correct tension—without distorting or puckering the fabric.

- **Cross-Hair Embroidery Droplight Laser**
  Get precision accuracy positioning and light up your fabric to see where the needle will drop for all your projects with the PR680W Embroidery Droplight Laser.

- **Built-in Designs**
  Create new projects or add a nice upcycling touch with 989 built-in embroidery designs, 18 monogramming font styles, 140 frame pattern combinations, 50 lettering fonts, 50 built-in utility stitch designs, and 10 buttonhole styles in three sizes.

- **Six-Needle Speed**
  Increase your productivity and efficiency with industry-leading high-speed acceleration of up to 1,000 stitches per minute (spm) in seven seconds—which means that projects will be completed faster and with minimal noise.

- **Colour Grouping, Colour Management, and Colour Sort**
  Colour Grouping allows multiple regions to be selected at a time for editing colour. Intuitive Colour Management aids in easy design customization. And Colour Sort helps to cut down on thread changes when combining designs.

- **Connect Wirelessly**
  When connected to your wireless network, get machine updates wirelessly, send designs from your PC† to the PR680W with Design Database Transfer and get alerts when it's time to change thread or when your project is complete with the My Stitch Monitor App. You can also link up to 10 machines wirelessly when using PE-DESIGN 11.

- **LED Lighting and Spacious Work Area**
  Generous 8″ x 12″ embroidery area for just about any sized project, and with bright, customizable lighting, you can illuminate your work with four built-in LED lights to see colours clearly with virtually no shadows!

- **Colour LCD Touchscreen Display**
  The large 10.1″ built-in high-definition LCD display, with large icons and scrolling menu, makes on-screen editing and letter input a snap.

- **Expandable Library of Built-in Tutorials**
  HD tutorials make learning easy! View 24 tutorial videos directly on the high-definition LCD display—with everything from basic operations to embroidery functions.

- **Adjustment and Zoom Feature**
  View your creations in crisp, vivid colour and watch them become more significant with the new zoom function of up to 200%. Easily adjust your design by rotating in .01 degree, 1 degree, 10 degrees, or 90-degree increments.

- **Administrative and Operator Lock**
  Security lock modes and key optimization are designed to help the user and business owner customize workflows for their business. A short cut key allows the user to jump directly to the embroidery screen.

Basic Features

LCD Display Size Inches	Diagonal 10.1″
Display (Number of Colours)	16,777,216
Stitch Select	•
Screensaver	•
Opening Screen	•
On-Screen Help	•
Built-in Tutorial Videos	24
Built-in Languages	•
On-Screen Editing	•
Lighting	4 Built-in LEDs
Thread Tension	Manual
6-Needle Threading System	Automatic
Individual Needle Attribute Setting	Maximum Speed / Colour Anchor / Needle Threader
Thread Sensor	Upper and Lower
Thread Sensor On / Off	•
Automatic Thread Cutter	•
Short Stitch Deletion Setting	•
Thread Tail Length Setting	•
Thread Wiper	•
Jump Stitch Thread Trimming	•
Thread Trim Setting Key	•
Quick-Set Bobbin	Vertical
Full USB	2
Computer Connectivity	•
WLAN Enabled	•
Design Database Transfer†	•
Wireless LINK Function	• (Up to 10 Machines)
Media Type USB	2 USB Slot (No SD Card Compatibility)
Embroidery Droplight Laser Precision Accuracy Positioning	•

Embroidery Features

Maximum Embroidery Area (X x Y) Inches	12″ x 8″
Maximum Embroidery Speed (Stitches Per Minute)	Up to 1,000 spm
Sewing Speed for Frames	400 - 1,000 spm
Sewing Speed for Caps	400 - 600 spm
Free Arm Embroidery	•
Standard Included Frames	4 (8″ x 12″, 5″ x 7″, 4″ x 4″, 1.5″ x 2″)
Built-in Embroidery Designs	989
Built-in Embroidery Letting Fonts	50
Built-in Monogram Designs	18
Built-in Utility Embroidery Designs	50
Built-in Buttonhole Styles	10 Styles in 3 Sizes
Built-in Frame Designs	140 (10 Shapes x 14 Stitch Patterns)
Built-in Decorative Alphabets	12
Resume Function	•
Built-in Border Function and Designs	•
Automatic Colour Sorting on Border Function	•
Colour Sort Feature	•
Colour Shuffling 2 Function	•
Colour Grouping Feature	•
Intuitive Colour Management to Deselect Colour Sections	•
Pause Setting	•
Appliqué Creator Function	•
Create Multiple Appliqués in one Hoop	•
Insert Letter at Midpoint of Text Line	•
Input Second Line of Text	•
Align Left, Center, Right	•
Grouping After Line Break	•
Edit Single Letter	•
Edit Full Line of Text	•
Divide Line of Text	•
Combine Lines of Text	•
3 Thumbnail Sizes (L-M-S)	•
Advanced Multiple Design Selection	•
Grouping of Letters and Designs	•
Start / Finish Point Setting Area	•
Manual Colour Sequence	•
Temporary Needle Bar Setting	•
Advanced Multiple Pattern Selection	•
Space Reduction Among Embroidery Alphabets	•
Pattern Rotating	0.1, 1, 10, or 90 Degrees
Drag and Drop Editing	•
On-Screen Automatic Density Adjustment	•
Zoom Function	Up to 200% in Edit Mode
Basting Stitch Before Embroidery	•
Smart Stitch Management Entry	Forward or Backward up to 1,000 Stitches / Direct Key
Preview Designs Before Stitching	•
Stitch Simulator	•
Short Cut Key	•
Echo Quilt	•
Security Lock: Administrator and Operator Locks	•
Key Optimization	•
Thread Tension Range Expansion	•
Wireless Software Download	•

KEY: • Feature Included — Feature Not Included

Included Accessories

- 8″ x 12″ Frame
- 5″ x 7″ Frame
- 4″ x 4″ Frame
- 1.5″ x 2″ Frame
- Needle Sets
- Pre-Wound Bobbins
- Scissors
- Tweezers
- Screwdrivers
- Touch Pen
- Spool Mats, Nets and Caps
- USB Cable
- Embroidery Sheet Grids
- Operation Manual
- Quick Reference Guide

Recommended Optional Accessories*

- Advanced Cap Frame Set (PRCF3)
- PE-DESIGN 11 (PEDESIGN11)
- Universal Cap Frame Set (PRCF5)
- PR-Series Machine Stand (PRNSTD2)
- Wide Table (PRWT1)
- Flash Magnetic Frame System 4″ x 4″ Frame & Driver (PRVMFMKIT)
- Flash Magnetic Frame System 5″ x 7″ Frame & Driver (PRVMFLKIT)
- Tubular Frame Table (PRTT1)
- Magnetic Sash Frame for PR (PRMS360)
- Magnetic Frame Kit 2″ x 2″ (PRMHA50)
- Sleeve Frame (PRHSL200)
- Compact Frame Kit (PRHCK1)
- Additional Optional Accessories Available for Purchase

Machine Specifications

UPC: 012502664833
Weight: 83.77 lbs.
Footprint: 23.11″ L x 20.24″ W x 23.19″ H

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at your side