

# Radiance™

Embroidery, Sewing, and  
Quilting Machine



Model: BLRA	Sewing Setup		Embroidery Setup	
Length	29.57"	751mm	42.91"	1,090mm
Width	13.28"	337mm	26.42"	671mm
Height	13.78"	350mm	13.78"	350mm



StitchSync™  
Regulation



11 5/8" x 18 1/4"  
Embroidery Hoop



Largest Projection Area  
with IQ Live Stitch™

14.1"

14.1"  
Creative Space



Precise  
Placement



Picture  
Play

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# Radiance<sup>®</sup>

## Embroidery, Sewing, and Quilting Machine

Model BLRA

### TOP FEATURES

#### StitchSync™ Regulation

With the Stitch Regulator attachment choose between Intermittent, Continuous, or Basting mode for a variety of free-motion quilting techniques. This attachment has 3 interchangeable soles: quilting, open toe, and echo quilting.

#### 11 5/8" x 18 1/4" (297mm x 465mm)

#### Embroidery Hoop

This is Baby Lock's LARGEST hoop yet! Use with the included embroidery table extension for added support for large projects.

#### Largest Projection Area with IQ Live Stitch™

While in embroidery mode, select from 16 different projection background colors on fabric choices to see your design clearly in the 8" x 5" (203mm x 127mm) projection area.

#### 14.1" (358mm) to the Right of the Needle

An unprecedented 14.1" to the right of the needle for an overall workspace of 205 square inches giving you plenty of room to comfortably work on larger projects including full size quilts.

#### Precise Sewing Placement with Projected Guidelines

The Radiance uses a variety of guideline markers and grids for precise placement. While in sewing mode, switch between 16 different laser colors for better visibility. Choose from three main guideline patterns, 6 sub-guideline patterns as well as eight guideline angles.

#### Picture Play

Import your own picture (up to 6MB) and select from 12 options to convert it to an embroidery design. Recommended for use with the 10" x 10" (254mm x 254mm) embroidery frame.

### TECHNOLOGY FEATURES

- New higher contrast AAA-rated WXGA IPS TFT LCD Color Touch Screen Technology
- Voice Guidance available with some processes
- IQ Live Stitch™
  - Projects your embroidery design or sewing stitches in an 8" x 5" (203mm x 127mm) area
  - Advance and select stitches from projection using the Dual-Purpose Stylus
  - Select background color from projection using Dual Purpose Stylus
  - Set stitch width, length, and left/right shift
  - Projection of Guide Beam, Grid, and Needle Beam for precision alignment of stitches
  - Buttonhole preview either vertically or horizontally
- NeedleCam™ Digital Camera for embroidery and sewing positioning with faster scanning
  - Precise Touch Positioning™ using NeedleCam
  - Camera detecting buttonhole foot with stabilization plate
- IQ Designer Scanning Frame
- Enhanced Stadium Lighting for 14.1" (358mm) area of brighter true color LED lighting on the needle and work area with 5 settings
- 2 (Type A) USB 2.0 drives
- Wireless Wi-LAN Function
  - Directly download update files to machine
  - IQ Intuition Monitoring®
  - IQ Intuition Positioning®
  - Design Database Transfer
  - Palette 11 pattern transfer to embroidery and IQ Designer
- NeverMiss™ Automatic Advanced Threading System
- Digital Dual-Feed System
- Stitch Regulator

- Advanced Pivoting Feature and Automatic Fabric Sensor System
- Automatic sensors
- Embroidery and sewing speed up to 1,050 spm
- Precise tracking system on embroidery carriage
- Resume mode for Embroidery and IQ Designer
- Programmable shutoff capabilities
- Eco power mode
- Wireless mouse compatible

### EMBROIDERY CAPABILITIES

- 1858 built-in embroidery designs
  - 381 Baby Lock Exclusives
  - 35 Sewlebrity designs
  - 17 Buttonhole embroidery designs in 5 sizes
  - 27 Buttonhole embroidery decoration designs
  - 240 Large decorative stitch designs
  - Couching Alphabet
  - 74 Quilting designs
  - 40 Couching patterns
  - 7 Large-connect designs
  - 7 Crochet lace designs
  - 11 Large alphabet designs
  - 18 Long-stitch designs
  - 11 Applique designs
- 140 Frame combinations
- 38 font styles
- New hoop size with 11 5/8" x 18 1/4" (297mm x 465mm) embroidery field. This hoop has a new locking mechanism and side grips for fabric support.
- Embroidery design memory capacity approximately 10MB
- Reads embroidery designs with a stitch capacity of up to 850,000 stitches per design and 127 color changes
- Color Visualizer with favorite color options
- 9-Point trial to check position
- Starting point key for instant alignment of characters or patterns
- Alternate bobbin case when using bobbin thread other than The Finishing Touch™
- On-screen grid
- Cuts jump stitches (with on/off capability)
- Embroider without removing the foot control
- Compatible with optional W+ Needle Beam Foot

### EMBROIDERY EDITING CAPABILITIES

- Combine embroidery designs on screen
- Character/text array function
- Character spacing
- Multi-line text with justification options
- Character insert and group edit capabilities
- Change fonts on letters or words before or after the design is set
- 0.1°, 1°, 10°, and 90° pattern rotation
- Enhanced design enlargement (up to 200%) and reduction (down to 60%) capabilities
- Design duplication
- Multiple design selection capabilities
- Automatic appliqué
- Automatic basting
- Add automatic stippling, echo stitching, and decorative fill patterns around embroidery designs
- Mirror imaging
- Change color selections within designs
- Enhanced color sorting to optimize sewing order
- Monochrome option for embroidery designs
- Programmable custom thread color palette
- 14 Major thread brands color palettes built-in

### ADVANCED SEWING CAPABILITIES

- 1610 Built-in stitches including
  - 184 Utility including 15 one-step buttonhole styles and 1 four-step custom buttonhole
  - 527 Decorative
  - 79 Decorative satin
  - 20 Satin
  - 21 Cross-stitch
  - 63 Combinable Utility
  - 3 Hand-look Quilting
  - 20 Tapering
  - 4 Built-in alphabets
- 40 Quilting stitches offer 57 needle position options
- Stitch length 0.0mm - 5.0mm (Stitch length over 2mm can increase in increments of 0.2mm)
- 2 Basting stitch options: Regular (5mm) and free-motion
- Maximum Utility stitch width 7mm
- Utility stitch editing capabilities
- 5 Memory settings for each Utility stitch
- Decorative stitch editing capabilities
- Sewing function is available while the embroidery arm is attached
- Specify end-point for stitch line with capability to end with a completed pattern
- Stitch taper for specifying start and end angles of a select category of stitches
- Dual Feed Foot
- Stitch Regulator
- Automatic drop feed key on screen
- Lock key for Utility and Decorative stitches
- Reinforcement priority settings
- Lateral and diagonal feeding
- Variable needle positions
- Fully automatic built-in darning
- Twin needle settings

### CONVENIENCE FEATURES

- Increase in bobbin capacity 4.5m (14.75 feet)
- Larger sewing bed and workspace with 14.1" (358mm) to the right of the needle
- Frosted surface finish on machine bed
- Convenient one-touch buttons for
  - Start/Stop
  - Reverse sewing
  - Reinforcement key
  - Needle up/down
  - Thread cutter
  - Automatic presser foot lift
  - Automatic needle threading
- Sewing speed control doubles as width control
- Quick-Set, Top-Loading bobbin with sensor
- Quick-Set Independent bobbin winding system
- One finger removable needle plate for easy access cleaning
- Ergonomic 3-position, adjustable knee lift with extra high presser foot lift - 10mm Automatic and 13mm Manual
- Programmable 3-step needle up/down
- Adjustable volume with 5 settings
- Automatic thread cutter (with on/off capability)
- Needle plate with scale in inches and centimeters and additional guideline markings
- Free arm
- Foldable two-spool thread stand attaches magnetically to machine lid
- Two accessory storage compartments in sewing tray
- Enhanced Accessory Storage Box with 3 interchangeable trays

### INSTRUCTION AND HELP RESOURCES

- Built-in Instruction and Reference Manual
- Built-in Operational Guide with up to 40 help topics
- Videos available online using QR code
- Built-in Sewing Application Guide
- Built-in Help Messages
- Embroidery Stitch Count System – SCS
- Capability to save settings screen images

### DOWNLOADABLE SOFTWARE

- Your machine will stay current with future upgrades/updates via USB or WLAN connection

### ADDITIONAL INFORMATION

- Language conversion capabilities (12 languages)
- 11 5/8" x 18 1/4" (297mm x 465mm) Hoop required space is at least 20" (508mm) clearance from any back wall
- Warranty (25 years limited, 10 years parts, 5 years computer circuit, 5 years electrical, 1 year labor)

### INCLUDED ACCESSORIES

- Dual Purpose Stylus
- Adjustable knee lifter with 3-position handle
- Advanced multi-function foot controller
- 17 Presser feet
  - 1/4" Quilting foot with a guide
  - Blind stitch
  - Button fitting
  - Camera Detecting Buttonhole foot with stabilization plate
  - Couching Dual Feed sole
  - Compact Digital Dual-Feed System
  - Embroidery foot "W"
  - Embroidery couching foot
  - Free-motion echo
  - Free-motion open toe quilting
  - Free-motion quilting
  - General purpose zigzag
  - Advanced monogramming N+
  - Overcasting
  - Stitch Regulator
  - Stitch Regulator Quilting sole
  - Stitch Regulator Open Toe Quilting sole
  - Stitch Regulator Echo Quilting sole
  - Straight Stitch
  - Zipper
- Easy-lock accessory case for presser foot storage with 3 interchangeable trays
- 2 Thread king spool stand for larger cones
- Straight stitch needle plate
- Bobbin Covers with and without markings
- Alternate bobbin case
- Bobbin center pin
- Embroidery bobbin thread
- Bobbins
- Embroidery Positioning Stickers (2 Sheets)
- End-point stickers (4 sheets, 243 stickers per sheet)
- White needle calibration stickers
- Multi-position screwdriver
- Presser foot adaptor
- Seam ripper
- Scissors
- Eyelet Punch
- Spool nets (2)
- Foot control
- Twin needle
- Yarn guide for couching
- Yarn threader
- Scanning frame with magnets
- Embroidery Support Table
- Embroidery hoops
  - 11 5/8" x 18 1/4" (297mm x 465mm)
  - 10-5/8" x 10-5/8" (272mm x 272mm)
  - 5" x 7" (130mm x 180mm)
  - 4" x 4" (100mm x 100mm)

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