

Solaris (BLSA) Features and Specification List



Technology Features

- WXGA IPS TFT LCD Color Touch Screen Technology
 - Shows 16,777,216 colors
 - Measures 10.1" diagonally (800 x 1280 pixels)
 - Displays Clock and Date
- 3x faster processing speed
- Mpeg-4 movie/video play function
 - Video display size 6.2" diagonally
 - Exclusive 1GB Memory Storage for video
- IQVisionary Projection
 - Projects your embroidery design in a 3" x 5" area
 - Projects Utility Stitches, Character Decorative stitches and buttonholes
 - Advance and select stitches from projection using the Dual Stylus
 - Set width, Length and left/right shift
 - Projects the Guide Beam, Grids and Needle Beam for precision alignment of stitches
 - Main and Sub line Options
 - 3 Color Options (Red, White, Green)
 - Line length Options
 - Height and Width position options
 - 45, 60 and 90 degree Angles
 - Grid adjustable from 5mm to 30mm
 - 4 adjustment levels on projection light
- NeedleCam™ Digital Camera for embroidery and sewing positioning with faster scanning.
- Precise Touch Positioning™ using NeedleCam
- Camera detecting buttonhole foot with stabilization plate
 - Creates up to 45mm buttonhole
- IQ Designer with paper holding frame for image scanning
 - LCD screen size can be enlarged to 1280 x 800 pixels
 - Will automatically create an embroidery pattern from a JPEG image
 - Drawing area is 3-3/4" x 5-11/16" (96mm x 145mm)

- 90 Preloaded open, closed and region shapes
- Able to select different line colors and fill colors
- 18 Different stitch patterns: running, bean, satin, no outline, chainstitch, blanket, blindhem, candlewicking and 10 decorative stitch outlines
- 33 Different fill patterns: regular fill, no fill, Stipple inside or around a shape, and 30 decorative pattern fills
- Duplicate and paste editing preloaded shapes
- Adjust line, fill and stippling width, length and density properties
- Undersewing options
- Undo and Redo options
- Outline stamp shape creation for Trapunto techniques
- 2 scanning modes
 - Fine- For illustrations
 - Standard - For line drawings
- Enhanced Stadium Lighting for 13" area of brighter true color LED lighting on the needle and work area with 5 settings
- 2 (Type A) USB 2.0 drives to connect a mouse Flash drives, Hub and CD-ROM drives
- SD Card Slot
- Wireless Wi-LAN Function data transfer Technology (Requires Palette 11 version software)
- NeverMiss™ Automatic Advanced Threading System
- Digital Dual-Feed System ensures utmost fabric control when feeding layers or difficult fabric types
- Advanced Pivoting Feature and Automatic Fabric Sensor System
- Automatic sensors
 - Thread tension control makes tension adjustments for accurate stitches
 - Upper and lower thread sensors on/off
 - Upper and lower thread sensors to alert when threads run out
 - On-screen hoop sensor to recommend size of hoop
- Embroidery and sewing speed up to 1,050 spm
- Precise tracking system on embroidery carriage
- Resume mode
- Programmable shutoff capabilities
- Eco power mode

Embroidery Capabilities

- 740 Embroidery designs built-in including
 - 355 Baby Lock exclusives
 - 35 Sewlebrity designs
 - 15 Buttonhole embroidery designs in 3 sizes (45 total)
 - 15 Buttonhole embroidery frame designs
 - 240 Large decorative stitch designs
 - 10 Quilting Border Patterns
- 140 Frame combinations

- 31 font styles including
 - Extra-large striped alphabet and characters (100 total)
 - Extra-large block alphabet and characters (100 total)
 - Exclusive script alphabet and characters (70 total)
 - Large floral block alphabet (64 total)
 - Large vine alphabet (60 total)
 - Greek alphabet (24 total)
- Embroiders up to 10 5/8" x 16" (272mm x 408mm) embroidery field
- 10 5/8" x 16" hoop has new locking mechanism and silicone side grips for slip free fabric support
- Memory capacity approximately 9MB
- Reads embroidery designs with a stitch capacity of up to 850,000 stitches per design
- Color Visualizer with pinnable color selections
- WXGA IPS TFT Color LCD Touch Screen shows
 - Design placement using drag/drop and slide/scroll/pinch capacitive capabilities
 - Enhanced Realistic Preview
 - Screen brightness with 5 settings
 - Design previews can be enlarged 200%
 - Needle positioning grid and hoop selections
 - Needle position image can be enlarged 200%
 - Estimated embroidery time display and stitch count
 - Embroidery progress bar
 - Stitch simulator
 - Needle advancement (1, 10, 100, or 1000 stitch increments)
 - Measurements displayed in inches or metrics
 - Color separation
 - Thread color indicator
 - On-screen hoop size indicator
 - Low bobbin thread indicator
 - 300 color names
 - Screen saver customization
 - Thumbnail images in 3 viewing sizes defaulted at 150%
- Embroidery speed up to 1,050 spm
- 9-Point trial check points
- Starting point key for instant alignment of characters or patterns
- Alternate bobbin case for pre-wound bobbins
- Customize embroidery pattern and thumbnail back ground colors (66 options)
- On-screen grid
- Cuts jump stitches (with on/off capability)
- Embroidery frame clearance setting for easy bobbin changes
- Embroider without removing the foot control
- Compatible Ready for Optional W+ Needle Beam Foot and Mouse

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 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 and echo stitching around embroidery designs
 - Set the distance, spacing and frame size
- Mirror imaging
- Change color selections within designs
- Enhanced color sorting to optimize sewing order
- Monochrome option for embroidery designs
- Programmable custom thread color selection
- 14 Major thread brands color palettes built-in

Advanced Sewing Features

- 861 Built-in stitches including
 - 151 Utility including 15 one-step buttonhole styles and 1 four-step custom buttonhole
 - 527 Decorative
 - 79 Decorative satin
 - 20 Satin
 - 21 Cross
 - 63 Combinable Utility stitches
- 4 Built-in alphabets
- 30 Quilting stitches offer 57 needle position options
- Stitch length 0.0mm - 5.0mm
- 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
 - Edit and combine Character Decorative stitches
 - Character/Decorative stitch memory equaling 1MB
 - Satin stitch elongation
 - Mirror-image

- Back to the beginning key
- Single and repeat mode
- Length width proportional linking key
- Sew Utility and Decorative stitches while embroidery arm is attached
- Automatic drop feed 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

Convenient Sewing Features

- Larger sewing bed and workspace with 13.1" 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 with
 - 4 Adjustable speed settings
 - 5 Variable bobbin filling settings
- 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 king two spool thread stand attaches magnetically to machine lid
- Two accessory storage compartments in sewing tray
- Enhanced Accessory Storage Box with 3 interchangeable trays
- Compatible Ready for Optional Multi-Function Foot Control

Instruction and Help Resources

- Built-in Instructions and Reference Manual

- Built-in Operational Guide with up to 40 help topics and 33 built-in videos (videos available via downloadable update)
- Built-in Sewing Application Guide
- Built-in Help Messages
- Embroidery Stitch Count System – SCS
- Capability to save settings screen images

Downloadable Software

- Your Solaris will stay current with future upgrades/updates via USB connection.

Additional Information

- Language conversion capabilities (12 languages)
- Machine Hoop required space clearance 32" from front to back
- Warranty (25 years limited, 10 years parts, 5 years computer circuit, 5 years electrical, 1 year labor)

Included Accessories

- Dual Stylus and Holder
- Adjustable knee lifter with 3-position handle
- 14 Presser feet
 - Digital Dual-Feed System Foot
 - Embroidery foot "W"
 - General purpose zigzag
 - Blind stitch
 - Camera Detecting Buttonhole Foot with stabilization plate
 - Button fitting
 - Free-motion open toe quilting
 - Free-motion quilting
 - Free-motion echo
 - Monogramming
 - Overcasting
 - 1/4" Quilting foot with a guide
 - Straight stitch foot
 - 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 case and cover for embroidery
- Bobbin covers with and without markings
- Alternate bobbin case for use with pre-wound bobbins
- Bobbin center pin
- Embroidery bobbin thread
- Bobbins
- Embroidery Positioning Stickers (2-Sheets)

- White needle calibration stickers
- Multi-position screwdriver
- Presser foot adaptor
- Seam ripper
- Scissors
- Eyelet punch
- Spool net
- Foot control
- Twin needle
- Scanning frame with magnets
- Embroidery hoops included
 - 10 5/8" x 16" (272mm x 408mm)
 - 9.5" x 9.5" (240mm x 240mm)
 - 5" x 7" (130mm x 180mm)
 - 4" x 4" (100mm x 100mm)

Optional Accessories

- Love of Sewing Membership (BLSA-LOSM)
- Baby Lock Palette 11 Software (ECS11)
- Solaris Trolley Set (BLSATS)
- Solaris 30 foot kit (BLSAFTKIT)
- Extension table (BLSA-ET)
- Machine Cover (BL-COVERXL)
- Multifunction Foot Control (BLMA-MFC)
- W+ Needle Beam Foot (BLTY-EF)
- Embroidery Positioning Sheets (BLSO-EPS)
- Embroidery Bobbins (BLG-BOB)
- Baby Lock Stabilizer Precut Pack (BLT103-PPC)
- Baby Lock Stabilizer Trial Pack (BLSTP)
- Baby Lock Stabilizer Value Pack (BLS20KT)
- Baby Lock USB Flash Drive (BL4GB-USB)
- Embroidery card reader (BLECR)
- Baby Lock Ruler Foot (BL-HOTRF)
- Baby Lock Ruler Kits (BLRK-HSLA, BLRK2-HSLA, BLRK3-HSLA)
- Baby Lock Dress Form (BLDFS, BLDFM, BLDFL)
- Baby Lock Garment Steamer (BLSTEAMER)
- Baby Lock Love of Knowledge Membership (BLOK2, BLOK4)
- Additional embroidery hoops
 - 10 5/8" x 16" (272mm x 408mm) hoop(EF99)
 - 9 1/2" x 14" (240mm x 360mm) hoop (EF95)
 - 9 1/2" x 9 1/2" (240mm x 240mm) hoop (EF97)
 - 8" x 12" (200mm x 300mm) hoop (EF92)
 - 6-1/4" x 10-1/4" (160mm x 260mm) hoop (EF81)
 - 8" x 8" (200mm x 200mm) hoop (EF91)
 - 6" x 6" (150mm x 150mm) hoop (BLMA-150)

- 5" x 7" (130mm x 180mm) hoop (EF84)
- 4" x 4" (100mm x 100mm) hoop (EF74)
- 1" x 2-1/2" (20mm x 60mm) hoop (EF73)
- Continuous Border Hoop 4" x 7" (100mm X 180mm) (BLSO-BF)
- Continuous Border Hoop 4" x 12" (100mm X 300mm) (BLMA-CBH)
- Embroidery Grids
 - 10 5/8" x 16" (272mm x 408mm) grid sheet (EF100)
 - 9.5" x 9.5" (240mm x 240mm) grid sheet (EF98)
 - 5" x 7" (130mm x 180mm) grid sheet (EF79)
 - 4" x 4" (100mm x 100mm) grid Sheet (EF78)