# Altair

## Embroidery and Sewing Machine

Send your creativity into a new galaxy with the Baby Lock Altair. It makes realizing your sewing and embroidery projects a reality thanks to IQ Technology™ that allows you to wirelessly transfer images to your machine from your smart device using the IQ Intuition™ Positioning App for perfect design placement in the hoop or design creation in IQ™ Designer.

- IQ Intuition™ Positioning
- 9-1/2" x 14" Embroidery Field
- IQ™ Designer
- 494 Built-in Embroidery Designs
- 771 Built-in Stitches

baby lock

FOR THE LOVE OF SEWING

www.BabyLock.com

# The Sky's the Limit for Your Projects!

**IQ™ Technology**

Baby Lock machines come with features that make sewing easy no matter what you want to create. These innovative features, powered by Baby Lock IQ™ Technology, work with the "brain" of your machine to achieve the results you desire. Taking your creative journey with IQ Technology makes it easy to bring your vision to life.

App download required for Android and iOS smartphones.

**IQ Intuition™ Positioning App**

Use the IQ Intuition Positioning App to take a photo of your fabric in a special hoop and transfer it wirelessly to the Altair. The image will display onscreen in lifelike color and sharp resolution, allowing you to position your design exactly where you want it, how you want it – every time.

**9-1/2" x 14" Embroidery Field**
Stitch bigger embroidery designs and enjoy less re-hooping with a large embroidery field.

**IQ™ Designer**
Create your own embroidery designs with ease. Take a photo with the IQ Intuition Positioning App and wirelessly transmit it to the Altair! Draw directly on the screen or if you're feeling inspired by an existing art file, simply upload it to the Altair through the USB drive. Your art will be instantly digitized with the colors and fill stitches you choose.

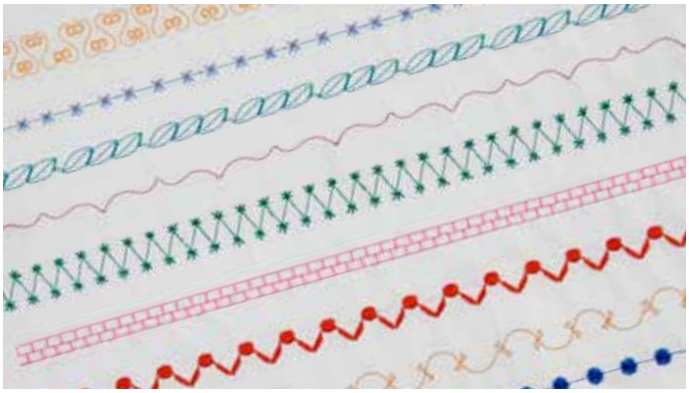
**Wireless Capability**
Use your favorite embroidery design software like Palette (version 11 or higher, sold separately) to wirelessly transmit your designs from your computer to the Altair.

**10.1" LCD Screen**
You'll have total control over every single aspect of your stitches, embroidery designs, placement, colors and more on a large touchscreen. Comparable to many popular tablets, it features large, clear buttons and vivid colors.

**Large 11.25" workspace**
With a generous 11.25" workspace the right of the needle, Altair gives you plenty of room to work. Those larger projects aren't anything to worry about!

**Color Visualizer**
Choose from random, vivid, gradient and soft, and watch as your design is transformed in an array of color combinations. Tag your favorite color combinations, then select your favorite from the finalists.

**494 Embroidery Designs**
You'll always have something to embroider with Altair's huge selection of built-in designs that includes 200 exclusive designs from Baby Lock. The design library features large thumbnails to make finding the right match even easier.



**771 Stitches**
Altair is loaded with stitches, giving you plenty of options for every project. Best of all, you can combine them for countless stitch combinations and you can save them in memory to retrieve them at any time.

**Quick-Set Drop-In Bobbin**
Simply drop your bobbin in the machine, pull your threads through the slot and let your machine do the rest.

**Needle Beam**
Know exactly where the needle will drop every time with a brilliant LED pointer on the included embroidery foot. There's no more guesswork.

## Altair Optional Accessories

**Palette 11 (ECS11)**
Using this advanced software, you'll create and edit embroidery designs easier than ever before. You'll enjoy improved functionality that makes every step of digitizing easier. All-new editing features help you perfect your embroidery projects

**Foot Kit (BLTAFTKIT)**
Expand your creative possibilities with this 26-Piece Foot and Accessory Kit. It features a wide variety of feet for more techniques.

## Altair Included Accessories

- Hands-free knee lift
- Touch pen (stylus)
- 14 Snap-on presser feet
  - Digital Dual-Feed System Foot
  - Embroidery foot with LED pointer
  - General purpose zigzag
  - Blind stitch
  - Buttonhole
  - Button fitting
  - Free-motion open toe quilting
  - Free-motion quilting
  - Free-motion echo quilting
  - Monogramming
  - Overcasting
  - 1/4" Quilting foot with guide
  - Straight stitch foot
  - Zipper
- Easy-lock accessory case for presser foot storage with interchangeable trays
- Soft canvas cover for machine with 3 storage pockets
- 2 Thread spool stand for larger cones
- Straight stitch needle plate
- Alternate bobbin case for use with pre-wound bobbins
- Bobbin center pin
- Bobbins (10)
- Embroidery Positioning Stickers (4-Sheets of 64)
- Lens calibration sheet for use with the positioning app
- Presser foot adaptor
- Seam ripper
- Twin needle
- Needle set
- Scissors
- Cleaning brush
- Eyelet punch
- Screwdrivers
- Spool caps (5)
- Spool felt and Spool nets (2)
- Embroidery needle plate cover
- Foot controller
- Bobbin covers: cord guide, plain and with seam guide marks
- Chalk pencil
- IQ Intuition™ Positioning embroidery hoops and grids included:
  - 9.5" x 14" (240mm x 360mm)
  - 9.5" x 9.5" (240mm x 240mm)
  - 5" x 7" (130mm x 180mm)
  - 4" x 4" (100mm x 100mm)

# Features and Specifications

## Technology Features

- WXGA,IPS Color LCD Touch Screen
  - Shows 16,777,216 colors
  - Measures 10.1" diagonally
  - Displays Clock and Date
- Use IQ Intuition Positioning app to:
  - Precisely place embroidery designs
  - Transmit images to create designs in IQ Designer
- Mpeg-4 movie/video play function
  - Video display size 6.2" diagonally
  - Exclusive 1GB Memory Storage for video
- IQ Designer
  - Image on the LCD screen can be magnified up to 800%
  - 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
  - 6 Different stitch patterns: running, bean, satin, no outline, chainstitch, and candlewicking
  - 18 Different fill patterns: regular fill, no fill, stipple inside or around a shape, and 15 decorative pattern fills
  - Duplicate and paste editing preloaded shapes
  - Adjust line, fill and stippling width, length and density properties
  - Undersewing options
  - Outline stamp shape creation for Trapunto techniques
- Guide Beam and Needle Beam for precision alignment of stitches-Class 1 Laser Product (IEC60825-1:2007)
- Color Visualizer with pinnable color selections and favorites
- Enhanced Stadium Lighting for 50% brighter true color LED lighting on the needle and work area with 5 settings
- 2 USB drives (Type A) USB 2.0 drives to connect a mouse, flash drives, hub and CD-ROM drives
- Precise tracking system on embroidery carriage
- 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
- Resume mode
- Programmable shutoff capabilities
- Eco power mode

## Embroidery Capabilities

- 494 Embroidery designs built-in including
  - 200 Baby Lock exclusives
  - 10 Floral Redwork Designs
  - 10 Border Designs
  - Font Embellishments (32 total)
  - 15 Buttonhole embroidery designs in 3 sizes (45 total)
  - 15 Buttonhole embroidery frame designs
  - 160 Large decorative stitch designs
- 140 Frame combinations
- 30 font styles including
  - Exclusive script alphabet and characters (70 total)
  - Large floral block alphabet (30 total)
  - Calligraphy alphabet and characters (81 total)
  - Large vine alphabet in two sizes (60 total)
  - Large floral alphabet in two sizes (64 total)
  - Monogram alphabet (30 total)
- Embroiders up to 14" x 9.5" (360mm x 240mm) embroidery field

- Memory capacity approximately 10MB
- Reads embroidery designs with a stitch capacity of up to 700,000 stitches per design
- WXGA, IPS Color LCD Touchscreen shows
  - Design placement using drag/drop and slide/scroll capabilities
  - Enhanced Realistic Preview
  - Design previews can be enlarged 200%
  - Needle positioning grid selections
  - Needle position image can be enlarged 200%
  - Estimated embroidery time display and stitch count
  - Needle advancement (1, 10, 100, or 1000 stitch increments or entire color)
  - Measurements displayed in inches or millimeters
  - Color separation
  - Thread color indicator
  - On-screen hoop size indicator
  - Low bobbin thread indicator
  - 300 color names
  - Screen saver customization
  - Thumbnail images viewed at 150% the normal size
- 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)
- Embroider without removing the foot control

## Embroidery Editing Features

- Combine embroidery designs on screen
- Character/text array function
- Character spacing
- Multi-line text with justification options
- Character insert and group edit capabilities
- 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 stippling set distance around embroidery designs
- Mirror imaging
- Change color selections within designs
- Enhanced color sorting to optimize sewing order
- Monochrome option for embroidery designs

## Advanced Sewing Features

- 771 Built-in stitches including
  - 150 Utility including 15 one-step buttonhole styles and 1 four-step custom buttonhole
  - 442 Decorative
  - 79 Decorative satin
  - 20 Satin
  - 17 Cross
  - 63 Combinable Utility stitches
- 4 Built-in alphabets
- Stitch length 0.0mm - 5.0mm
- Basting stitch length of up to 30mm
- 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
- Sew Utility and Decorative stitches while embroidery arm is attached
- Automatic drop feed on screen
- Mirror-image
- 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 11.25" to the right of the needle
- 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
- Quick-Set, top-loading bobbin with sensor
- Quick-Set independent bobbin winding system with variable speed
- Programmable 3-step needle up/down
- Automatic thread cutter (with on/off capability)
- Needle plate with scale in inches and centimeters
- Free arm
- Two accessory storage compartments

## Instructional Help and Resources

- Built-in Operational Guide with help topics and built-in videos
- Built-in Sewing Application Guide
- Built-in Help Messages
- Embroidery Stitch Count System - SCS
- Capability to save settings screen images
- Multiple Language conversion capabilities

## Warranty

- Warranty (25 years limited, 10 years parts, 5 years computer circuit, 5 years electrical, 1 year labor)

## Optional Accessories

- Love of Sewing Membership
- IQ Intuition embroidery hoops:
  - 9.5" x 14" (240mm x 360mm) (EF95S)
  - 9.5" x 9.5" (240mm x 240mm) (EF97S)
  - 5" x 7" (130mm x 180mm) (EF75S)
  - 4" x 4" (100mm x 100mm) (EF74S)
- Standard embroidery hoops:
  *Note: Standard hoops are not recognized by the positioning app.*
  - 8" x 12" (200mm x 300mm) hoop (EF92)
  - 8" x 8" (200mm x 200mm) hoop (EF91)
  - 6" x 6" (150mm x 150mm) hoop (BLMA-150)
  - Continuous Border Hoop 4" x 12" (100mm X 300mm) (BLMA-CBH)
- Extension Table BLMA-ET
- Trolley Set (BLMTXL-BK)
- Foot kit (BLTAFTKIT)
- Palette 11 (ECS11)
- Thread stand (holds 10 spools) (BLMA-TS)
- Multi-Function Foot Control (BLMA-MFC)
- Circular sewing attachment (BL-CSA)
- Open toe sole for dual feed foot (BLTY-OTDF)
- Stitch-in-the-ditch sole for dual feed foot (BLDY-SDDF)
- ¼" sole for dual feed foot (BLDY-QFDF)
- Couching foot (BLTY-CCF)

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