

Solaris™ 2

Sewing and Embroidery Machine

Solaris 2's built-in IQ Visionary™ projector displays stitches and embroidery designs directly on the fabric. Resize, move or make other adjustments with the touch of a wireless stylus – all while seeing it happen in real time before you sew it out. Perfect placement is achieved every time.



**IQ Visionary™
Projector**



**10-5/8" x 16"
Embroidery Hoop**



**IQ Intuition™
Monitoring**



**IQ™
Designer**



**End Point Setting
for Sewing**



baby lock

FOR THE LOVE OF SEWING

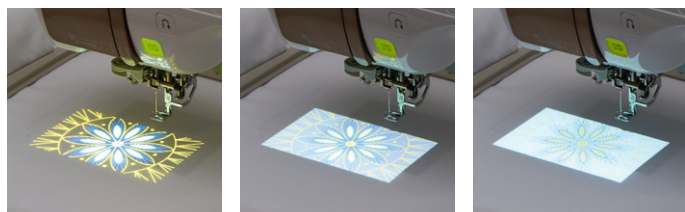
www.BabyLock.com

See What Possibility
Looks Like



IQVISIONARY™
TECHNOLOGY

Precise Embroidery Placement



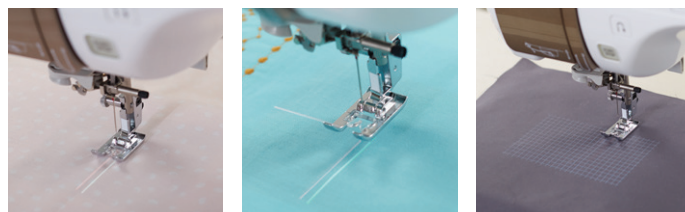
Black

Grey

White

While in embroidery mode, choose from three different projection backgrounds (black, grey or white) based on fabric choices to see your design clearly. The needle drop laser is displayed in a point or a “T” pattern for an even more precise placement.

Perfect Sewing Placement



Guide Lines

Angle Lines

Grid Lines

The Solaris 2 uses a variety of guideline markers and grids for perfect placement. While in sewing mode, switch between three different laser colors (red, green and white) for better visibility based on fabric choices. Single, double, angles and grid lines are ideal for piecing precision, stitch adjustment and aligning starting points and very wide stitches.



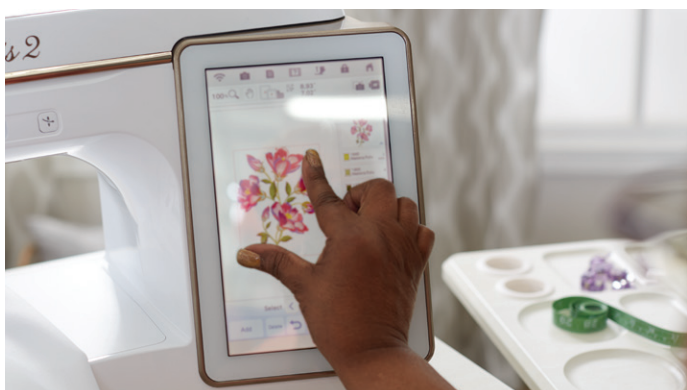
10-5/8" x 16" and 10-5/8" x 10-5/8" Hoop Sizes

The 10-5/8" x 16" hoop is Baby Lock's largest hoop yet. It makes it possible to stitch out your biggest embroidery designs with fewer rehoopings. The 10-5/8" x 10-5/8" hoop size is perfect for quilt blocks.



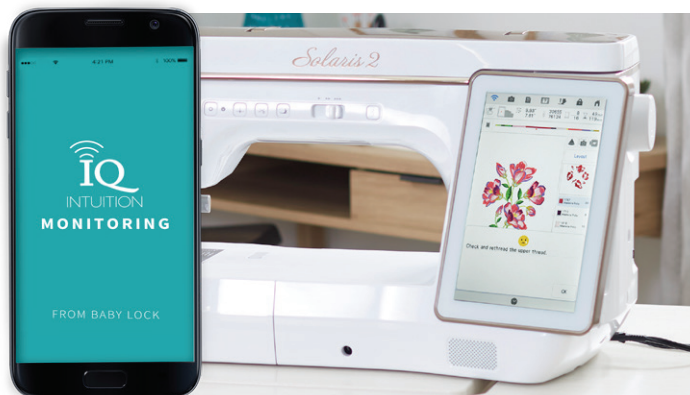
IQ™ Designer and IQ Intuition™ Positioning App

Create your own designs and quilt motifs with ease. Draw directly on the screen, scan in your favorite artwork, upload an existing file to the Solaris 2 using a USB drive, or wirelessly send designs to your machine from your smart phone using the IQ Intuition Positioning App. Your art will be instantly converted into an embroidery pattern (free smartphone app for download is required).



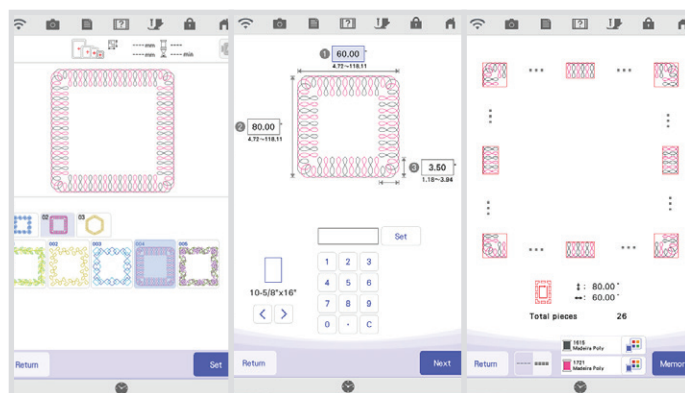
10.1" Capacitive Touchscreen

You'll have total control over every single aspect of your stitches, embroidery designs, placement, colors and more on a large touchscreen with slide scrolling menus and pinch in/out zooming.



IQ Intuition™ Monitoring App

Keep track of your project's progress with this convenient feature that alerts your phone anytime stitching is stopped and when stitching is done (free smartphone app for download is required).



Auto Split of Large Quilt Borders

Create beautiful quilt borders and sashing with unmatched precision using the 30 patterns and two shapes (rectangular or hexagonal) available. Simply enter a few measurements, select a hoop, and the Solaris 2 does the necessary calculations for you. The on-screen instructions guide you every step of the way for quilts measuring up to 118" x 118". You can even repeat or skip sections, if necessary.



End Point Setting for Sewing

Achieve perfect stitches using the built-in camera and end point sewing stickers. Simply place the sticker where you want your stitch to the end, activate the endpoint sewing feature and sew with confidence!



Add Quilting to Embroidery Patterns

Add stippling, echo quilting, or any of the 42 Decorative Fill patterns from IQ™ Designer around a selected design. For advanced quilting options, use IQ™ Designer to add fills inside your designs.



Camera Detecting Buttonhole Foot

The Solaris 2's camera automatically senses pre-set points on the buttonhole foot, providing an accurate, better sew out. The two-piece foot secures the fabric, preventing slippage.



13" to the Right of the Needle

With an unprecedented 13" to the right of the needle for an impressive 65 square inches of workspace, Solaris 2 gives you plenty of room to comfortably work on larger projects and full-size quilts.



Needle Plate with Push Button Release

Switching out plates has never been this easy – just simply touch a button. No tools are needed! The needle plate also features a variety of new markings for better placement, alignment and accuracy.

<p>865 BUILT-IN DESIGNS</p>	<p>864 DECORATIVE STITCHES</p>	<p>42 DECORATIVE FILLS</p>	<p>154 UTILITY STITCHES</p>
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Built-In Designs, Built-In Fonts, Decorative Fills, Utility Stitches

Make every project uniquely yours with a huge variety of built-in designs, decorative stitches, decorative fills and utility stitches.



Embroidery Couching

Use the included couching embroidery foot to easily add dimension and texture to your projects with decorative yarns on and of the 40 new designs.

Optional Accessories



Magnetic Sash Frame (BLSA-MH)
Easily and firmly secure and reposition fabric in the frame for embroidery in a 7" x 14" hoop.



Magnifying Lens (BLMA-ML)
Easily attach the magnifying lens to improve visibility in the needle area.



Solaris Extension Table (BLSA-ET)
Instantly create a larger sewing surface with this extension table. The table's convenient design stores your knee lift underneath.



Palette™ 11 (ESC11)
This revolutionary design software works perfectly with the Solaris 2 to wirelessly transmit designs from your computer, and introduces new techniques, options and styles. You'll enjoy improved functionality that makes every step of digitizing easier.



Love of Sewing Membership (LOSML1)
The Love of Sewing Membership will help you get the most out of your Baby Lock Venture machine. Enjoy four years of unlimited access to hundreds of sewing classes, comprehensive service and unique savings opportunities.



Multifunction Foot Control (BLMA-MFC)
Make sewing even easier with the Baby Lock Multi-Function Foot Control. Start and stop your sewing with the main foot control, and perform two convenient functions with the heel tap feature and side pedal. You can program the functions for this hands-free accessory through your machine.



Solaris Foot Kit (BLSAFTKIT)
Expand your creative possibilities with this 30-Piece Foot and Accessory Kit. It features a wide variety of feet for more techniques.



Machine Trolley (BLMTXL-BL)
Store and transport your Solaris 2 and the associated hoops — including the 10-5/8 x 16" hoop!



Stabilizer Value Pack (BLS20KT)
Includes six different types of Baby Lock stabilizer. From lace and appliqué, to fleece and sheer fabrics, you'll find stabilizer perfect for every project.

Features and Specifications

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
- IQ Visionary™ Projector
- Projects your embroidery design in a 3" x 5" (7.6 cm x 12.7 cm) area
- Advance and select stitches from projection using the Dual Function Stylus
- Select background color from projection using Dual Function Stylus
- Set width, length and left/right shift
- Projection of Guide Beam, Grid and Needle Beam for precision alignment of stitches
 - Main and Sub line Options
 - 3 Color Options (Red, White, Green)
 - Line length and single point options
 - Horizontal and vertical position options
 - 45, 60 and 90 Degree angles
 - Grid adjustable up to from 5mm to 30mm (3/16" x 1-3/16")
 - 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
 - 45 Different fill patterns: regular fill, no fill, stipple, and 42 decorative pattern fills
 - Duplicate and paste editing preloaded shapes
 - Adjust line, fill and stippling width, length and density properties
 - Light fill or regular fill for decorative fill patterns
 - 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, and CD-ROM drives
- SD Card Slot
- Wireless Wi-LAN Function data transfer technology (Requires Palette 11 version software and/or free Intuition Positioning App)

- 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 for Embroidery and IQ Designer
- Programmable shutoff capabilities
- Eco power mode

Embroidery Capabilities

- 865 Embroidery designs built-in including
 - 355 Baby Lock exclusives
 - 35 Sewlebrity designs
 - 15 Buttonhole embroidery designs in 5 sizes (75 total)
 - 15 Buttonhole embroidery frame designs
 - 244 Large decorative stitch designs
 - 30 Quilting Border Patterns in 3 categories
 - 40 Couching patterns
- 140 Frame combinations
- 32 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 10MB
- Reads embroidery designs with a stitch capacity of up to 750,000 stitches per design and 127 color changes
- Color Visualizer with favorite 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 6 settings
 - Design previews can be enlarged 400%
 - 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 with option to sew reinforcing stitches in embroidery mode
 - 300 color names
 - Screen saver customization
 - Thumbnail images in 3 viewing sizes, defaults at 150%
- 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 background 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 with 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, echo stitching, and decorative fill patterns 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 Capabilities

- 864 Built-in stitches including
 - 154 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
 - 3 Hand-look Quilting
- 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
- Specify end-point for stitch line with capability to end with a completed pattern

- 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
 - 5 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 with 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 42 built-in videos
- Built-in Sewing Application Guide
- Built-in Help Messages
- Embroidery Stitch Count System – SCS
- Capability to save settings screen images

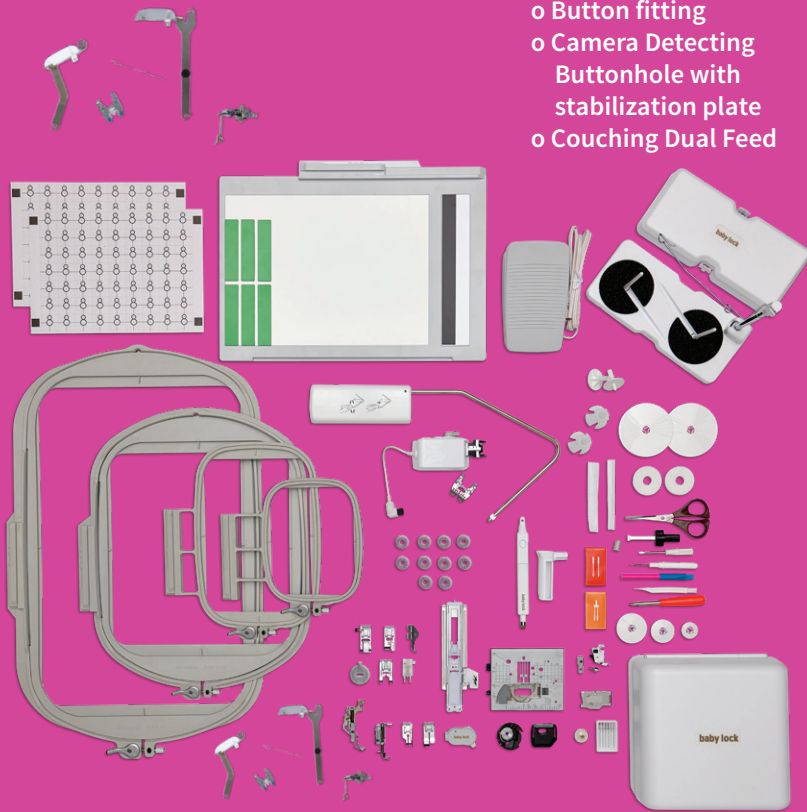
Downloadable Software

- Your Solaris will stay current with future upgrades/updates via USB or WLAN 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)

Solaris 2 Included Accessories



- Dual Stylus and Holder
- Adjustable knee lifter with 3-position handle
- 17 Presser feet
 - o 1/4" Quilting foot with a guide
 - o Blind stitch
 - o Button fitting
 - o Camera Detecting Buttonhole with stabilization plate
 - o Couching Dual Feed
- Digital Dual-Feed System
 - o Embroidery foot "W"
 - o Embroidery couching Y
 - o Free-motion echo
 - o Free-motion open toe quilting
 - o Free-motion quilting
 - o General purpose zigzag
 - o Monogramming
 - o Overcasting
 - o Straight Stitch
 - o 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 nets (2)
- Foot control
- Twin needle
- Scanning frame with magnets
- Embroidery hoops
 - o 10-5/8" x 16" (272mm x 408mm)
 - o 10-5/8" x 10-5/8" (272mm x 272mm)
 - o 5" x 7" (130mm x 180mm)
 - o 4" x 4" (100mm x 100mm)
- Yarn guide for sewing couching
- Yarn guide for embroidery couching
- Yarn threader
- End-point stickers (4 sheets, 243 stickers per sheet)

Optional Accessories

- Love of Sewing Membership (LOSML1)
- Baby Lock Palette 11 Software (ECS11)
- Trolley Set (BLMTXL-BK)
- 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 Ruler Foot (BL-HOTRF)
- Baby Lock Ruler Kits (BLRK-HSLA, BLRK2-HSLA, BLRK3-HSLA)
- Magnifying lens (BLMA-ML)
- Dynamic Walking Foot Set (BLSA-WF)
- Additional embroidery hoops
 - o Magnetic Sash Frame 14" x 7" (360mm x 180mm) (BLSA-MH)
 - o 10-5/8" x 16" (272mm x 408mm) hoop (EF99)
 - o 10-5/8" x 10-5/8" (272mm x 272mm) hoop (EF101)
 - o 9-1/2" x 14" (240mm x 360mm) hoop (EF95)
 - o 9-1/2" x 9-1/2" (240mm x 240mm) hoop (EF97)
 - o 8" x 12" (200mm x 300mm) hoop (EF92)
 - o 6-1/4" x 10-1/4" (160mm x 260mm) hoop (EF81)
 - o 8" x 8" (200mm x 200mm) hoop (EF91)
 - o 6" x 6" (150mm x 150mm) hoop (BLMA-150)
 - o 5" x 7" (130mm x 180mm) hoop (EF75)
 - o 4" x 4" (100mm x 100mm) hoop (EF74)
 - o 1" x 2-1/2" (20mm x 60mm) hoop (EF73)
 - o Continuous Border Hoop 4" x 7" (100mm X 180mm) (BLSO-BF)
 - o Continuous Border Hoop 4" x 12" (100mm X 300mm) (BLMA-CBH)
- Embroidery Grids
 - o 10-5/8" x 16" (272mm x 408mm) grid sheet (EF100)
 - o 10-5/8" x 10-5/8" (272mm x 272mm) grid sheet (EF102)
 - o 9-1/2" x 9-1/2" (240mm x 240mm) grid sheet (EF98)
 - o 5" x 7" (130mm x 180mm) grid sheet (EF79)
 - o 4" x 4" (100mm x 100mm) grid sheet (EF78)