USES
- Urological and brachytherapy applications, including cryotherapy
- Pelvic floor applications
- Colorectal applications
- Abdominal scanning
- Small part scanning
- Vascular scanning
- Obstetric and gynecological scanning
- Breast scanning
- General imaging
- Regional anesthesia
- Musculoskeletal scanning
- Intraoperative scanning
- Interventional procedures

BENEFITS
- Combines high class image quality and Doppler performance with state-of-the-art specialist transducers
- IQPAC™ technology includes Enhanced Tissue Definition and Angular Compound Imaging for speckle reduction and better organ definition
- Fully digital signal processing together with IQPAC delivers superior image quality with enhanced tissue definition
- 19" monitor so you can see full-size sagittal and transverse images at the same time for improved diagnosis
- Extremely user-friendly — fast, intuitive, customizable user interface and ergonomic design
- Very mobile — compact construction
- Fits perfectly anywhere in your practice — modular design
- Height-adjustable control panel (when used with mobile keyboard dock) for an ergonomic position that reduces work-related strain injuries and lets you share information with patients
- Programmable transducer Start-Stop button to change both transducer and application
- Specially designed puncture guides for interventional procedures
- Simultaneous triplex imaging with high Pulse Repetition Frequency (PRF) to maximize on-screen information
- Fully integrated 3D capabilities

Available versions of Flex Focus 1202
There are 5 versions of the Flex Focus 1202 available for order:
- Flex Focus 200 — Flex Focus with basic functionality
- Flex Focus 200 Surgery — basic surgical scanner
- Flex Focus 400 — mid-range color scanner
- Flex Focus 400 Anesthesia — mid-range color scanner dedicated to regional anesthesia
- Flex Focus 700 — dedicated high-end surgical scanner with touch screen and remote control

Note: Flex Focus 200 and Flex Focus 700 are only available in some countries. Some features and options are only available on some versions of the scanner. See Ordering Information for details.
Unique Features and Benefits with Flex Focus 700

- Surgical scanning
- Fits perfectly anywhere in the OR — modular design
- Can be controlled from within the sterile field, using remote control
- Intuitive touch screen
- Simplified control panel (optional full control panel available)
- Sealed control panel with no slides or dials where liquids can get inside – for easier and faster cleaning and disinfection
- Picture-in-Picture (PiP) enables simultaneous display of camera and scanner images on a single monitor

Remote Control*

- Control all functions of the scanner from within the sterile zone
- Low power, short-range wireless connectivity
- Move it as a handheld pointing device to control cursor on screen
- Can be disinfected

Surgery Pro Package

- Contains optimized setups and measurements for surgical ultrasound

* For future release

GENERAL DESCRIPTION FOR ALL VERSIONS OF FLEX FOCUS

BK Medical’s Flex Focus 1202 Ultrasound Scanner is a fully digital, multipurpose scanner based on the latest advances in ultrasound technology. The system platform is based on the latest PC technology and Windows® software, making it easy to implement upgrades as required.

User Interface and Ergonomics

The revolutionary scanner design is based on extensive user input and ergonomic principles.

- Compact, mobile and easy to maneuver.
- Logical and simplified control panel design — easy to operate the scanner without taking your eyes off the screen.
- Illuminated control panel keys.
- Scanner unit and control panel move up and down and swivel easily on mobile dock.
- Extensive possibilities for customizing software.
- Programmable foot switch controls a range of different functions such as freeze/record and print.
- Transducers available for most clinical areas.
- Transducer buttons control user-defined functions.
- Up to 3 active transducer sockets; 2 for array transducers and 1 for single-element transducers. You can keep a selection of transducers ready for easy use.
- Easily accessible transducer connectors make connectivity faster. Transducer cables conveniently out of the way.
- Sealed control panel makes cleaning and disinfection easier.
- Battery pack with 2 or 4 rechargeable batteries provides up to 3 hours uninterrupted scanning time and instant wake up from Power Save Mode. Easy battery change — no tools required.

Image Presentation

Advanced ultrasound technology ensures very high image quality in terms of axial, lateral and contrast resolution, as well as penetration.

- High-resolution digital images with uniform focus over the entire image depth.
- IQPAC™ technology featuring Enhanced Tissue Definition (ETD) and Angular Compound Imaging (ACI) provides speckle reduction and better organ definition.
- ETD enhances the anatomically correct continuous borders, enabling lesion margins to be clearly visualized.
- ACI improves organ definition by combining images acquired from different angles.
- A range of application-specific multifrequency transducers is available.
- High-frequency scanning (up to 18 MHz) gives superb image quality for breast, small part, peripheral vascular and musculoskeletal scanning.
- Parallel quad-beam signal processing provides higher frame rates and resolution. High frame rate is especially valuable for studying flow dynamics in color Doppler or power Doppler mode.
- Simultaneous split-screen — display two different images live on the monitor at the same time (for example, two different scanning planes (with a biplane transducer), or two different scanning modes such as B-mode and Color Doppler).
- Freeze Zoom — zoom on a specific section of the image.
Auto Gain automatically returns the B-mode overall gain and the TGC curve to the preset values.

**Full Range of Doppler Functions**
- Speaker for auditory indication of blood flow.
- Automatic real-time calculation of selected parameters from Doppler data. Numerical and graphical display of results.

**Power Doppler**
- Visualize density of moving blood vessels.
-Directional power Doppler indicates flow direction.

**Color Doppler (CFM – Color Flow Mapping)**
- Can be used during B-mode scanning.
-Superimposes color-coded flow data on the image to show both direction and velocity.
-Variance Doppler and Variance + Velocity Doppler are available.

**Spectral Doppler**
-Fast Fourier Transform (FFT) analysis of the Doppler signal.
-Can be displayed with the B-mode image to give Duplex Doppler.
-Can be used with B-mode and either color Doppler or power Doppler to give Triplex mode.
-Position, size and angle of the sample volume can be changed, and the spectrum can be displayed in gray tones or color.
-Includes Pulsed Wave (PW).
-Auto Doppler automatically adjusts the baseline and scale (PRF) to prevent aliasing and optimize the display of the Doppler spectrum.

**Steerable Doppler**
-Ability to visualize blood flow in vessels parallel to the surface using linear array transducers.
-Insolation angle electronically adjustable up to ±20º, depending on the transducer used.

**Tissue Harmonic Imaging**
Pulse Inversion technology improves signal-to-noise ratio, leading to better contrast resolution. This is important for detecting subtle tissue differences and is useful when scanning technically difficult patients.

**Pro Packages**
Pre-programmed Pro Packages containing multiple Diagnostic Setups and application-specific calculations are available. You can also customize your own Pro Packages.

**Urology Pro Package**
-Contains all essential setups and measurements for:
-Precise volume studies
-Simultaneous biplane imaging
-Tissue harmonic imaging

**Brachytherapy Pro Package**
-Biplane transducer 8848 can be used for seed implantation with a choice of 4 brachytherapy matrix templates.
-A matrix offset can also be programmed to compensate for non-standard matrix.
-Contouring of all organs.
-Streamlined workflow with Varian compatibility.
-Setups and measurements can also be used for cryotherapy.

**Pelvic Floor Pro Package**
-Contains optimized setups and measurements for pelvic floor ultrasound.

**Colorectal Pro Package**
-Contains optimized setups for colorectal ultrasound within the following application area:
-Anorectal ultrasound.

**Anesthesiology Pro Package**
-Contains optimized setups and measurements for ultrasound guided use of regional anesthesia.

**Obstetrics, Gynecology, IVF, Breast, Vascular and General Ultrasound Pro Packages**
-Basic image settings, measurement and calculation functions.
-Optimized setups, growth curves and reports.

**Surgery Pro Package**
-Contains optimized setups and measurements for surgical ultrasound.

**Cine (Image Review)**
-High-capacity cine function.
-Review a series of the most recently recorded images, including Doppler spectra.
-Make measurements and perform calculations on stored images.

**Cine Loop**
-Continuous playback of a series of images — repeats after the last image is displayed.
-Adjustable Cine Loop speed and start and stop positions.

**3D Imaging (option)**
-Advanced, fully integrated 3D.
-Image acquisition using freehand or mechanical localizers.
-Specially designed magnetic wheel mover for acquiring data sets with rectal transducers.
-Anorectal transducer 2052 with fully integrated built-in 3D mover.
-3D image can be displayed as a volume cube or as three orthogonal planes in 4-Up or 6-Up view.
-3D image can be copied directly to CD/DVD or USB storage device.
-3D image can be rendered, rotated and sliced, revealing information that would not be accessible in 2D.
-Surface Rendered, Volume Rendered and Maximum Intensity Projection (MIP) image processing.
-Distance and volumetric measurements with the fully quantitative Professional 3D option.

**Transducers**
Range of application-specific transducers listed in table "Indicated Use for Transducers Supported by Flex Focus 1202".

**Documentation Facilities**
-Images can be saved using:
-scanner hard drive
-network drive
-CD/DVD (option)
-USB flash memory device
-printer
-videotape
-multi-format memory device
-Internal clip browser with flexible display.
Images and video clips can be reviewed and then saved to external media storage. The external clip browser can then be used to view stored images.

**Patient Archiving**
- Save directly in patient’s file on scanner hard disk:
  - 2D images
  - 3D volume studies (option)
  - reports
  - patient/image comments
- Transfer images to USB storage device, CD/DVD or over a DICOM® network to a PC or PACS (Picture Archiving and Communication System). (CD/DVD and DICOM are options.) DICOM support includes Store, Print (B/W and color), MPPS (Modality Performed Procedure Step), Storage Commitment and Modality Worklist. With Modality Worklist, patient data is retrieved directly from the Hospital or Radiology Information System (HIS/RIS).

**Cleaning and Disinfection**
- Designed for easy and convenient cleaning.
- Trackball and accessories on the keyboard control panel are removable for easy cleaning.
- Scanner can be wiped down with a disinfectant solution listed in Specifications.
- All BK Medical transducers can be disinfected by immersion in suitable solutions.
- Some transducers can be processed using STERIS SYSTEM 1®, STERRAD® 50 System, STERRAD 100S System, STERRAD 200 system, or ethylene oxide gas.
- Most non-disposable puncture attachments can be autoclaved. Sterile guides are available for some transducers.
- Disposable transducer covers are available.

**Safety**
All BK Medical ultrasound equipment is designed and tested according to the requirements of the IEC publications 60601-1, "Medical Electrical Equipment".

* STERIS SYSTEM 1 is not market cleared in the USA.
** Remote control is for future release.

**Options**
See Ordering Information for details.

![Desktop option](image1)
![Mounted on wall](image2)
![Battery solution](image3)
![Printer available](image4)

Touch sensitive display with simplified control panel and remote control**
Indicated Use for Transducers Supported by Flex Focus 1202

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Supported by Scanner</th>
<th>Application</th>
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</table>

Array Type:
- CA Convex Array
- LA Linear Array
- PA Phased Array
- SE Single Element (Mechanical). Does not support Enhanced Tissue Definition (ETD)

* Not licensed by Health Canada

1 Market cleared for neurosurgery use by the FDA only
Specifications Flex Focus 1202

**FOCAL ZONES**
- Up to 25 transmit zones depending on transducer
- Up to 8 transmit zones for composite focus
- Continuous receive focusing

**FEATURES**
- Fully digital
- IQPAc (includes Enhanced Tissue Definition (ETD) and Angular Compound Imaging (ACI))
- Pulse Inversion Tissue Harmonic Imaging
- Split screen (vertical and horizontal)
- Simultaneous live split-screen imaging
- User setups
- Multibeam: 4 in parallel, Quad Beam
- Channels: 5120 processing capability
- Copy/Recall system and transducer setup
- Image Review (cine) for up to 3000 images depending on scanning mode
- Image Storage: CD/DVD (option), hard disk and USB storage device
- Hard disk capacity: Expandable to 530GB (80GB built-in), 530,000 images (30,000 on built-in HDD)
- Clip browser
- Clip editor
- Report function
- DICOM networking (option)
- Fully integrated 3D (option)
- Edge enhancement
- True Hilbert detection
- Post-processing
- Freeze Zoom (or Post Zoom)
- Adjustable monitor and keyboard
- Support for phased array transducers
- Coded Excitation
- Position display and control of volumetric transducer (option)
- Expanded sector (Trapezoid)
- Real time display of acquired 3D data (option)
- Auto Doppler
- Auto Gain
- Compatible with Varian (option)

**PATIENT ARCHIVING**
- Search possibilities include Patient name, ID, Last Exam Date, Archive Status, Storage Commitment, Free-Text search
- Archive database of all patients on CD/DVD (option) or DICOM PACS (option)
- Thumbnail display of selected exam
- Document types: Frozen Images, Live Images, 3D data sets, Reports

**POWER DOPPLER - DIRECTIONAL POWER DOPPLER**
- Sample: Max. 512 points
- Pulse repetition frequency: 0.2–12 kHz
- Wall filter: Digital filter
- Cutoff frequency 1–10% of PRF
- Detectable speed: 0.1 cm/sec–8.6 m/sec (0–60º)
- Display: 4096 colors;
- 8 different color scales
- Pulse invertebrates interleave factor: 64 lines

**STEERABLE DOPPLER**
- Angle: up to 40º (±20º)

**PULSED WAVE DOPPLER**
- Sample volume size: 1–20 mm
- Units: cm/s or kHz
- Flow inversion: Yes
- Flow offset: Yes
- Pulse repetition frequency: 1–15 kHz
- Wall filter: Digital filter
- Cutoff frequency 1–20% of PRF
- Detectable speed: 0.1 cm/sec–10.8 m/sec (0–60º)
- Display: B/W or color FFT spectra, 256 levels
- Frequency resolution: Max. 5.2 Hz
- Time resolution: Max. 4 msec
- Angle correction: 1º steps
- Doppler audio output: max. 1 W

**MEASUREMENT FACILITIES**
- Trackball (point, move, measure)
- Trackpad (point, move, measure)
- Remote control (point, move, measure) (1202-3 only)†
- Pro Packages: Urology, Brachytherapy, Surgery, General (including Vascular), OB/GYN

**CONNECTION POSSIBILITIES**
- Transducers: 3 active sockets:
  - 2 for linear and convex array transducers
  - 1 for 360º and single-element transducers (1202-1 and 1202-3 only)
- Signal output (1202-1 only):
  - Audio (stereo line level): Video (composite color, S-video), DVI-I (60Hz)
  - Signal input:
  - Audio (stereo line level): Video (composite color, S-video) (not on 1202-2)
- Image storage: Internal hard disk, DVD+RW (option) or USB storage device, digital B&W printer (option), digital color printer (option)
- Communication: Expandable to 8 x USB 2.0 (5 built in), 10/100 Ethernet
- DICOM network (option)
- Remote control: Low power, short-range wireless connectivity (1202-3 only)†

† Remote control is for future release
Specifications Flex Focus 1202 cont.

**POWER SUPPLY**
- Voltage: 100-230V AC
- Frequency: 50-60 Hz
- Power consumption: 300VA total (500 Btu/h)

**REMOTE CONTROL †**
- 2 AA batteries (not supplied with remote control)
- Average battery life 60 days

**BATTERY PACK**
- Contains two or four rechargeable 14.4 V lithium ion batteries
- Voltage: 14.4 V
- Capacity: 6600 mAh
- Continuous scanning time: 3 hours (with 4 batteries)
- Charge time: 2 hours 45 min (with scanner turned off)
- Status display indicates remaining uptime
- Battery lifespan: Min. 300 full recharge and discharge cycles

**NOISE**
- Fan noise during operation: <35 dBA

**ENVIRONMENTAL LIMITS**
- Operating temperature: +10 to 40 °C (+50 to 104 °F)
- Storage temperature: -25 to +60 °C (−13 to +140 °F)
- Storage temperature (batteries only): -20 to +60 °C (−4 to +140 °F)
- Operating/storage humidity: max 80% RH (normal atmospheric pressure)

**Remote Control as for scanner except:**
- Storage temperature: -25 to +70 °C (−13 to +158 °F)
- Watertight immersion temperature: Max +40 °C (+104 °F)
- Watertight immersion time: Max 15 hours per 24 hours

**DISINFECTION**

**SCANNER**
Chemical resistance during disinfection:
Wiping with:
- Sodium hypochlorite up to 2% in water
- Chlorhexidine gluconate 5% in water
- Chlorhexidine 1.5% and cetrimide 15% in water
- Chlorhexidine 0.5% in ethanol 70%
- Glutaraldehyde 2% solution
- Ethanol 70% in water
- Isopropanol 70% in water

**REMOTE CONTROL †**
Chemical resistance during disinfection:
Immersion for less than 10 minutes in each hour in:
- Isopropanol 70% in water

**APPROXIMATE DIMENSIONS**
With Mobile Keyboard Docks UA1210 and UA1214:
- Scanner height: 1350–1602 mm (adjustable)
- Keyboard height: 745–1055 mm (adjustable)
- Width: 519 mm (including wheel base)
- Width: 351 mm (scanner and control panel)
- Depth: 595 mm
- Weight: 49 kg (excluding transducers and printer) (UA1210 only)
- Weight: 57 kg (including battery pack, excluding transducers and printer) (UA1214 only)
- Weight: 7 kg (scanner unit only)
- Battery weight: 0.7 kg (per battery)

With Mobile Touch Docks UA1810 and UA1814:
- Scanner height: 1350–1602 mm (adjustable)
- Keyboard height: 745–1055 mm (adjustable)
- Width: 519 mm (including wheel base)
- Width: 351 mm (scanner and control panel)
- Depth: 595 mm
- Weight: 46 kg (excluding transducers and printer) (UA1810 only)
- Weight: 54 kg (including battery pack, excluding transducers and printer) (UA1814 only)
- Weight: 7 kg (scanner unit only)
- Battery weight: 0.7 kg (per battery)

**ELECTROMAGNETIC COMPATIBILITY**
Complies with requirements for Class A devices of EN/IEC 60601-1-2 [2]

**SAFETY**
Complies with EN/IEC 60601-1-1[1], EN 60601-2-37(3), UL60601-1-[4], and CSAC22.2 No. 601-15[5]

**APPROVALS**
- UL International DEMKO (CB certification)
- UL Listed

**MARKET CLEARANCE**
- USA – FDA, Market Clearance
- Canada – Health Canada, License (pending for 1202-3)
- EU – Notified Body (DCM), CE certification
- Japan – PMDA, License (pending for 1202-3)

**MANUFACTURER**
BK Medical ApS
Mileparken 34
DK-2730 Herlev
Denmark

**REFERENCES**

**TRADEMARKS**
- DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.
- Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
- STERRAD is a registered trademark of Advanced Sterilization Products (ASP), a Johnson & Johnson Company.
- STERIS and STERIS SYSTEM 1® are registered trademarks of STERIS Corporation.
- IQPAC is a trademark of BK Medical ApS.

† Remote control is for future release
Ordering Information

There are 5 versions of the Flex Focus 1202 available for order:

- **Flex Focus 200** — Basic surgical scanner with limited transducer range
- **Flex Focus 200 Surgery** — Basic surgical scanner with limited transducer range
- **Flex Focus 400** — Mid-range color scanner
- **Flex Focus 400 Anesthesia** — Dedicated to regional anesthesia
- **Flex Focus 700** — High-end surgical scanner with touch screen

**Configurations**

<table>
<thead>
<tr>
<th>Configurations</th>
<th>Flex Focus 200</th>
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<tr>
<td>UA1222</td>
<td>3D Professional (license)</td>
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<td>UA1207</td>
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<td>UA1206</td>
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<td>UA1226</td>
<td>Varian Interface (license)</td>
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<td><strong>TRANSDUCERS</strong></td>
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<tr>
<td>Basic Transducer Support: 8667, 8670, 8808, 8808e, 8811, 8819, 8820e, 8823, 8827, 8830</td>
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<td>Enhanced Transducer Support: 1850, 2050, 2052, 8662, 8682, 8809, 8818, 8848, 8870</td>
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<td>Anesthesia Transducer Support: 8670, 8809, 8811, 8816, 8823, 8827, 8830</td>
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<td>Basic Surgical Transducer Support: 8666-RF, 8815, 8816</td>
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<td>Complete Surgical Transducer Support: All transducers</td>
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</tbody>
</table>

† Optional - only available in some countries
* For future release
** Optional - only available in some countries
†‡ No DVD (RW) option
†‡ Requires UA1220 or UA1214

**Options and Accessories**

<table>
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<th>OPTIONS</th>
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<td>Remote Control (for 1202-3) *</td>
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<tr>
<td>UA1220</td>
<td>Backpack to hold printer (requires Mobile Dock)</td>
</tr>
<tr>
<td>UA1402</td>
<td>Printer start-up kit for 1202 ‡‡</td>
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<tr>
<td>UA1284</td>
<td>DVD (RW) Drive</td>
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<tr>
<td>UA1284-k</td>
<td>DVD (RW) Drive kit</td>
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<tr>
<td>UA1247</td>
<td>Battery Charger Station **</td>
</tr>
<tr>
<td>UA1225</td>
<td>Extra Battery for UA1214 and UA1814 ** (rechargeable Inspired Energy NL2024 lithium ion battery, 14.4 V). IMPORTANT: Must be ordered in sets of 2 or 4 batteries</td>
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<tr>
<td>UA1294</td>
<td>Endo Transducer Holder</td>
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<tr>
<td>UA1295</td>
<td>Endo Transducer Holder Mount</td>
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<td>UA1204</td>
<td>Wall-mounted Transducer Holder</td>
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<tr>
<td>UA1296</td>
<td>General Transducer Holder *</td>
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<td>UA1223</td>
<td>Power Cable Holder *</td>
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<tr>
<td>UA1202</td>
<td>Foot switch (USB)</td>
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<tr>
<td>AA0491</td>
<td>Video cable (Flex Focus to phono and BNC)</td>
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<tr>
<td>UA1285</td>
<td>Wheeled transport case †</td>
</tr>
<tr>
<td>UA0964</td>
<td>Flight case (for system shipping)</td>
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**ACCESSORIES INCLUDED**

| BBI756  | Flex Focus Type 1202 User Guide, includes Getting Started with the Flex Focus Type 1202 (English) †† |
| BBI946  | Flex Focus Advanced User Guide Type 1202 (English) |
| BBI307  | Remote Control UA1237 User Guide (included with UA1237) * |
| BB1564  | Care, Cleaning & Safety (English) †† |
| BB1984  | User Documentation CD |
| QA0228  | Trackball adjustment tool (for UA1210/UA1214/UA1211/UA1283) |

**ACCESSORIES AVAILABLE**

| EQ4072  | Printing paper (Sony UPP-110HG) |
| UAO610  | Scanning gel (5 L) |
| W0739   | Scanning gel (290 ml) |

**3D Scanning Accessories**

| UAO513  | Magnetic wheel mover for 8808, 8818 & 8848 transducers †† |
| EL4036  | 3D mover adaptor |
| UAO510  | Adapter ring for 8848 |
| UAO511  | Adapter ring for 8808 |
| UAO512  | Adapter ring for 8818 |
| UAO515  | Pullback adapter for 8848 |
| UAO516  | Pullback adapter for 8818 |
| UAO553  | Variable friction support arm |

† For scanners without dock and with two transducers
†† Other language versions available
††† Requires EL4036
Technical Drawings

All measurements are in mm.

1202 with Mobile Keyboard Dock UA1210

1202 with Keyboard Table Dock UA1283
1202 with Mobile Battery Keyboard Dock UA1214

1202 with Keyboard Wall Dock UA1211
1202 with Mobile Touch Dock UA1810

1202 with Touch Wall Dock UA1811
1202 with Mobile Touch Dock with Battery UA1814