MAYFIELD® Cranial Stabilization

RADIOLUCENT SYSTEMS

- New MAYFIELD® Infinity XR2 Radiolucent Products
- Radiolucent BUDDE® Halo Retractor System
- Adult & Pediatric Radiolucent Horseshoe Headrests

CRANIAL STABILIZATION

INTEGRA™
NeuroSciences

MAYFIELD® INFINITY XR2 PRODUCTS

The new MAYFIELD Infinity XR2 Radiolucent product line continues the innovative heritage started by Dr. Frank Mayfield over 40 years ago. Branded "XR2" to indicate x-ray imaging compatibility,

- CT
- Fluoroscopy
- Digital Subtraction Angiography (DSA)

The system provides fluid, reliable movement and rigid 3-point cranial fixation for supine, prone and lateral patient positioning.

The MAYFIELD Infinity XR2 Base Unit brings an enhanced level of stability and rigidity to the operating room. The easy to assemble linkage with dual-action knobs provides all the degrees of freedom required for optimal patient positioning.

The MAYFIELD Infinity XR2 Skull Clamp features the force indicator knob on the single-pin side of the skull clamp which allows improved visualization of force application. An innovative "metal-free" option is now available for those cases where minimal imaging artifact is required. The Removable Force Applicator utilizes precision made, reliable metal springs to apply the force.

The MAYFIELD Infinity XR2 Tri-Star Swivel Adaptor accessory provides the additional starburst for when image-guided surgery systems are required.

Tri-Star Swivel Adaptor (A2111)

Maximum Rigidity, Easy Positioning, Wide Imaging Window

XR2 Base Unit (A2079)

- Excellent Rigidity for procedures using x-ray imaging, including Digital Subtraction Angiography (DSA)
  - DSA is often used in cases where visualization is critical, such as Aneurysm repair, Arteriovenous Malformations (AVM), and Microneurovascular procedures
- Unrivaled strength and durability using composite materials that preserves target visualization during fluorography imaging
- Set-up and positioning is easy with the simplified linkage components that are secured by color-coded dual-action knobs, saving operating room time
  - New linkage components provide twice the rigidity from previous base units
  - Knobs have finger recesses to easily spin the knobs tight or loosen for removal
  - Fewer knobs to lock reduces positioning time
- Ultra-style double-cam locking handles for easier opening and closing with new easy to attach side rail clamps
  - Self-locking levers for added security
  - Clamps are equipped with side rails on each side for added convenience
  - No wrench is required for adjustment of the locking handles
- Horizontal bar provides a wide imaging window - full, side-to-side lateral positioning (21.5 inches/54.6cm)

Versatile Positioning. Stability. Rigidity.

XR2 Base Unit collapsed and extended.

MAYFIELD® INFINITY XR2 PRODUCTS

Trusted 3-Point Fixation, Minimal Artifact

MAYFIELD Infinity XR2 Skull Clamp (A2114)
- Provides rigid 3-point skeletal fixation for all cranial and cervical procedures involving x-ray imaging, including Digital Subtraction Angiography (DSA)
- Force Knob is on the single-pin side of the clamp, the same as other MAYFIELD skull clamps
- Composite materials provide strength, durability and reduced artifact
- Swivel Rocker Arm rotates 360-degrees under full pressure
    - Rocker Arm is easily locked or unlocked with a simple 1/4 turn of the knob
    - Standard Rocker Arm is easily removed for cleaning without the need for tools
- Ratchet Extension is guided and fixed in place by a double-pawl feature to allow better control of the extension, requiring less force to apply the clamp to the patient
- Hinged Race-way is easily opened without tools for cleaning

MAYFIELD Infinity XR2 Skull Clamp (A2114)

DSA image with MAYFIELD® Radiolucent Skull Clamp in use.

Optional Accessories

- Child's Rocker Arm is available as an accessory
- Metal-Free Conversion Accessory allows for the use of the Removable Force Applicator to further limit artifact during the x-ray imaging process
    - Exchange of one ratchet extension for another is quick and easy
- Removable Force Applicator attaches easily for use – can be removed to assure that no unwanted artifact is present
    - Reliable, consistent metal springs are employed to provide force to the skull pins

Removable Force Applicator (439A1093)

Metal-Free Conversion Accessory (439A1092)

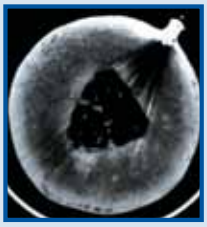
Child's Rocker Arm (439A1091)

MAYFIELD® RADIOLUCENT PRODUCT ACCESSORIES

MAYFIELD Radiolucent Skull Pins (A 2020)

MAYFIELD® Radiolucent Skull Pins are engineered from synthetic Sapphire material to significantly reduce or limit artifact during CT and MR imaging procedures

- Designed to be compatible with all MAYFIELD® Skull Clamps
- Single patient use
- Supplied sterile packaged
- Patented "Wings" that improve fit into receptacle holes of skull clamps
- Unique finger grooves that provide a sure grip for easy removal
- Precision-machined skull pin tips to ensure accurate pin penetration
- Plastic pin covers that effectively prevent cross-contamination and are designed for easy removal prior to skull clamp application
- "Pop-out" packaging provides quick, convenient access to pins during pre-operative set-up



CT scan utilizing skull pin with stainless steel tip results in unwanted artifact.

CT scan utilizing MAYFIELD® Radiolucent Skull Pin resulting in clearer imagery, allowing enhanced diagnostic capability.

CT scan images of melon to simulate skull.

MAYFIELD® Adult Radiolucent Horseshoe Headrest (A-2010)

- Radiolucent material constuction provides strength and durability with minmal artifact
- Compliments the MAYFIELD Radiolucent Headrest System (A-2004) by providing cranial support for adults and older children in either prone or supine positions
- Vertical and lateral adjustments allow for flexibility in patient positioning
- Adjustable pad base (faceplates) accommodates various head sizes
- Includes easily detached pulley rod for skeletal traction
- Fluid Resistant Gel Pads provide comfort and reduction in the incidence of pressure necrosis

MAYFIELD® Pediatric Radiolucent Horseshoe Headrest (A-2011)

- Provides cranial support in prone and supine position for procedures for infants and young children
- Includes all the same features and benefits as the Adult Radiolucent Horseshoe Headrest (A2010) (Does not include a pulley rod feature)

BUDDE® HALO RADIOLUCENT RETRACTOR SYSTEM

Optimal Efficiency – Remains in place while imaging.

BUDDE® HALO Radiolucent Retractor (A1096)

- Radiolucent components allow the system to remain in place during intraoperative imaging for optimal efficiency
- Completely compatible with all MAYFIELD® Radiolucent Systems, the BUDDE® Halo Radiolucent Retractor System is designed to significantly reduce or limit artifact during intracranial procedures where retraction of delicate brain tissue is required
- Low profile design allows ease of instrument passage within the surgical field
- Titanium retractor arms to minimize artifact during imaging
- Blades can be micro-manipulated without flex arm extension readjustment

Halo ring provides nearly 360-degrees of flex arm placement.

Built-in hand rest offers convenience and maximum stability.

Half ring set-up is easily achieved to provide improved access.

The new **MAYFIELD® Infinity XR2 Radiolucent Products** are evidence of continued commitment by Integra to the advancement of cranial stabilization technology and our goal to enable surgeons to Operate with Confidence™.

Continuous Innovation

Our product design teams are continuously developing new and more functional cranial stabilization products that will further enhance performance and ease of use.

Unrivaled Service and Product Support

MAYFIELD Cranial Stabilization equipment and BUDDE Brain Retractor products are manufactured and supported by Integra – the world's largest manufacturer of cranial stabilization products. We have an experienced repair team of professionals who are highly trained and well-qualified to support your investment for the life of the products.

Expert repair quality, reliably fast turn-around, and consistently dependable results are always at your service at the Integra Repair Centers. For over 40 years, our valued customers have known that the best people to provide repair and maintenance are the people who design, engineer and manufacture the products.

- Experienced Technicians
- Specialized Equipment
- Restoration to original condition to ensure product safety and functionality
- 24-48 hour service is available

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OPERATE WITH CONFIDENCE™

Radionics® Stereotaxy
MAYFIELD® Stabilization
Auragen™ Brain Mapping
Ruggles™ Instruments
CUSA® Tissue Ablation
OSV II® CSF Management
DuraGen Plus® Duraplasty
Camino® NeuroCritical Care

Integra LifeSciences Corporation
311 Enterprise Drive • Plainsboro, NJ 08536
Customer Service USA and Canada: 800.997.4868
609.936.5400 (Outside USA) • 888.980.7742 (Fax)
www.Integra-LS.com

Product Information
Integra LifeSciences Corporation
4900 Charlemar Drive, Bldg.A • Cincinnati, OH 45227
877.444.1114 • 513.533.7979 • 513.271.1915 (Fax)
www.Integra-LS.com