

SMART C[®]



Unparalleled Imaging Performance in
Surgery, Clinics, and in the Field



SMART ®

Revolutionary in its Versatility and Portability

The world's first battery-powered, completely wireless, hyper-portable, mini C-arm providing unparalleled digital fluoroscopic imaging capabilities. This mini C-arm is designed for use in clinics, operating rooms, in the field at point of injury/care or wherever extremity imaging is desired.

The Smart-C® Advantages

- Battery-powered, lightweight (16lbs.) carbon fiber, cordless C-arm offering true portability
- Sophisticated software algorithms provide exceptional real-time imaging and anatomical clarity
- Wireless Tablet enables ergonomic placement directly in line of sight for enhanced visualization
- Position the C-arm on its front or side to quickly acquire images, including weight bearing
- Compact hindrance free design allows for use directly on the surgical table/arm board
- Custom sterile drapes allow both C-arm and Tablet to be used in the surgical field
- Modular system offers flexibility to purchase the accessories you need, not those you don't

Full capability True portability

Rugged transport case protects system during transport and storage. Fully loaded case weighs under 50 lbs



Collapsible frame for ease of transport and storage

Each rechargeable C-arm battery lasts 8 hours under normal use



Optional Monitor Cart offers a 27" touchscreen monitor for improved workflow



Powerful ultra-compact pulsed X-ray source capable of 40-80 kV (65-370 μ A)



Thinnest C-arm CMOS flat panel detector (1.5") for easy positioning under extremities

Integrated ultra capacity LiFePO4 battery powers Monitor, Tablet, C-arm battery charger, and Printer for all day cordless use



Optional Support Stand uses counter-balanced articulating arm and wrist for hands free C-arm positioning

Smart-C® Technical Information

Smart-C

| | |
|---------------------------------------|---|
| Image Receptor | CSI scintillator on Complementary Metal Oxide Semiconductor (CMOS) |
| Image Receptor Pixel Array | 1.5k x 1.5k |
| Image Receptor Pixel Size | ~99 µm |
| Field of View | Primary collimation: 15 x 15 cm (6 x 6 in) Secondary collimation: 10 cm (4 in) dia |
| Tube Voltage Range | 40 to 80 kVp |
| Tube Current Range | 65 to 370 µA |
| Pulse Rate | 10 pulses per second |
| Focal Spot | 0.04 mm nominal |
| Tablet Screen | 34 cm (13.3 in) diagonal 1920 x 1080 resolution Touchscreen |
| Live Image | 15 cm x 15 cm (6 in x 6 in) |
| Water Ingress | C-arm: IPX3 (spraying water) Footswitch: IPX8 (immersion) |
| Source to Detector Distance (SDD) | 45 cm (17.7 in) |
| Minimum Source to Skin Distance (SSD) | 10 cm (4.0 in) |
| C-Arm Free Space (Functional SSD) | 34 cm (13.4 in) |
| C-Arm Depth of Arc | 31 cm (12.2 in) |
| Networking | DICOM 3.0 compliant |
| Wireless Security | WPA2 encryption |
| Weights | C-arm and battery: 7.2 kg (16.0 lb) Tablet: 1.5 kg (3.3 lb) Footswitch: 0.7 kg (1.5 lb) |

DICOM 3.0-compliant and secure via wireless encryption



FDA Cleared

US and foreign patents pending
Follow IFU Safeguards

Monitor Cart

| | |
|---------------------------|---|
| Monitor | 27 in diagonal 1920 x 1080 resolution Touchscreen |
| Live Image | 33 x 33 cm (13 x 13 in) |
| Printer | Thermal, medical grade |
| Power | Battery operation (>8 hrs) or 115 VAC |
| C-arm Battery Charge Bays | 2 |
| Keyboard | Waterproof |
| Weight | 65 kg (143 lb) |

Support Stand

| | |
|-------------------------|----------------------------|
| Height Adjustment Range | 61 to 144 cm (24 to 57 in) |
| Reach | 116 cm (46 in) |
| Horizontal Travel | 218 cm (86 in) |
| Orbital Arc Rotation | Counterbalanced 180° |
| Wrist Spin Rotation | Unlimited |
| Weight | 75 kg (165 lb) |

Intended-use statement:

The Turner Imaging Systems Smart-C® is a mini C-arm X-ray system designed to provide physicians with real-time general fluoroscopic visualization of adult and pediatric patients. It is intended to aid physicians and surgeons during diagnostic procedures, therapeutic treatment or surgical procedures of the limbs, extremities or shoulders, including, but not limited to, orthopedics and emergency medicine. The Smart-C is intended to be used on a table or other hard, flat surface. It may also be used with the optional support stand.

To learn more about the Smart-C, contact us at:

info@turnerxray.com
Turnerxray.com
866-870-2022

Turner Imaging
Systems Inc.

1119 S 1680 W,
Orem, UT 84058