SMART·C®

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

Med One

TURNER IMAGING SYSTEMS

SMART C®

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

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

Collapsible frame for ease of transport and storage

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 µA)

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

CE

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.

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