



# Orthoscan

## Mini C-arms

The choice of surgeons  
worldwide for extremity imaging.

TAU 20/20



Xograph is the **leading independent medical imaging** equipment supplier serving hospitals and diagnostic centres throughout the UK and Ireland.

Since 1967, we have provided **innovative medical imaging technology**, supported by a nationwide team of **highly trained engineers** and **clinical applications specialists**.

“

Our customers really appreciate the ease of use, low radiation dose and exceptional image quality.

**Peter Drozd**

Product Manager, Surgical Imaging

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## Xograph is proud to be the official distributor of the Orthoscan range of world-leading mini C-arms.

Based in Arizona, USA, Orthoscan provides the world's most technically advanced mini C-arms with the largest global installed base.

Orthoscan only makes mini C-arms, ensuring its technology is the most innovative available and sets the standard for other brands to follow.

### Orthoscan offers four mini C-arm systems:

#### TAU 2020

- The sharpest image quality, exceptional dose reduction, largest detector & paediatric approval.

#### FD Pulse

- The sharpest image quality & pulsed fluoroscopy for even greater dose reduction.

#### FD-OR

- The first mini C-arm with CMOS flat panel detector technology.

#### Mobile DI

- A compact, portable system for clinic and off-site imaging.

# TAU 20|20

Orthoscan's flagship mini C-arm with the largest detector and field-of-view (20x20 cm) and the largest high-resolution diagnostic touchscreen monitor.

Pulsed fluoroscopy and optimised dose filtration support significant dose savings, while a 160° orbital rotation allows image acquisition without stressing anatomy. TAU 2020 is the only mini C-arm on the market designed with technological innovations to make it the ideal choice for use with paediatric as well as adult patients.



# Anatomy revealed

## 1 LIVE IMAGE

Exceptional diagnostic images with a 33 x 33 cm live display showing fine anatomical detail with vivid clarity.

## 2 27" Monitor (68 cm)

With the largest screen on a mini C-arm, experience optimal eye comfort on a high brightness, 1920 x 1080 resolution monitor.

## 3 ORTHOTOUCH™ 2.0

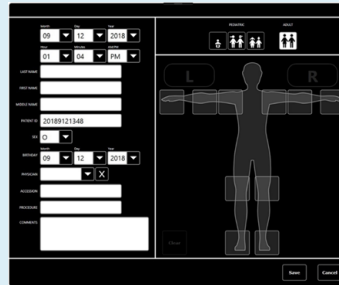
Advanced touchscreen interface.

## 4 ON-SCREEN HELP

Description of common system functions available directly on-screen.

## 5 MONITOR ARM

Allows for easy adjustment of monitor and keyboard for viewing of anatomy while sitting or standing.



## Anatomically Programmed Fluoroscopy

One touch optimised imaging programs for different anatomy. With additional programs when the paediatric patient size is selected.



### ANATOMICAL PROGRAMMING

One touch anatomically optimised imaging parameters.



### APPROVED FOR PAEDIATRICS

Image paediatric patients with confidence.



### KEEPING IT MINI

Light weight & compact design simplifies transportation & storage.



### SURGICAL LED LIGHTS

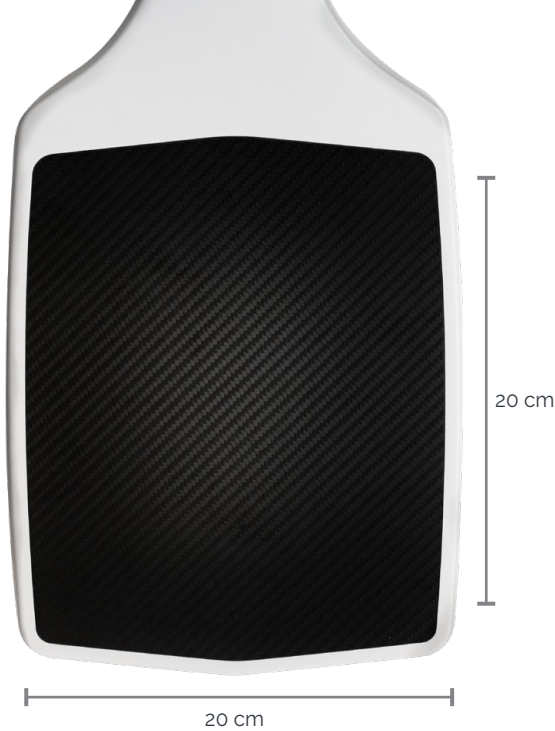
Provide additional illumination on the region of interest.



### VERSATILITY

Increased orbital rotation of 160° with a larger C-arm arc depth of 50.8 cm for greater access.





## Bigger detector, Bigger possibilities.

Over twice the size of detectors found on conventional mini C-arms, Orthoscan TAU 2020 blurs the line between mini and full sized.

Confirm joint spaces with accuracy, see fractures in full view, and save dose by minimising exposure so you can work efficiently. Combined with TAU's paediatric features, image anatomy can be displayed as never before seen with a mini C-arm.

## Seamless collimation, for the perfect image.

Introducing the industry's first stepless motorised collimator in a mini C-arm.

With the touch of a finger, users can infinitely adjust the collimator via the touchscreen user-interface to minimise radiation exposure, reduce patient dose and limit the irradiated area to the region of interest. Improved contrast and detail-rich results provide users with a clear image for accurate treatment.



Hand Imaging



Knee Imaging



Elbow Imaging



Foot Imaging



Wrist Imaging



Paediatric Imaging

## Intelligent Dose Reduction.

### Do more. Dose less.

The TAU family includes cutting-edge Intelligent Dose Reduction technology that provides the best in diagnostic image quality while reducing exposure to you and your patients.

Up to  
**86%**  
Cumulative  
Dose Reduction  
can be achieved

*\*Indicative image not produced using TAU 2020*



## Features

### ■ IMPROVED BILATERAL CONTROLS

New back-lit controls are easier to see with additional buttons for upgraded functionality in the sterile field.

### ■ USER-FRIENDLY CONNECTIVITY

Easy access to the power button and I/O ports directly on top of the chassis.

### ■ THREE-WAY BRAKE CONTROL

Manoeuvre your system with ease down corridors, around corners, and in the operating room.

### ■ INTEGRATED CABLE DEFLECTORS

Protects power cords and other cables from being damaged.

### ■ UPGRADED SERVICEABILITY

Redesigned from the inside out to reduce maintenance time.

### ■ UNINTERRUPTIBLE POWER SUPPLY

Protects your system from data loss in the event of a sudden power failure.

### ■ ENHANCED SECURITY

Keeps your equipment and data safe in the modern healthcare environment.



### PULSED FLUOROSCOPY

Selectable pulse rates of 30, 15, & 7.5 pulses per second. Dose reduction without loss of image quality.



### OPTIMISED DOSE FILTER

Reduced dose while maintaining image quality. Reduced exposure to surgeons & patients. The ideal choice for paediatric & adult cases.



### NEXT GENERATION CMOS

Increased DQE. Improved image brightness & quality. Sharper pulses further benefit dose reduction.

# Orthoscan FD Pulse

The first mini C-arm with pulsed fluoroscopy providing pin sharp image quality with the lowest radiation dose of any mini C-arm in the market.

The FD Pulse's 15cm square CMOS flat panel provides an extended anatomical field of view, so you see the full picture, and eliminates the need for a rotating detector.

Its flat detector, less intrusive form factor and 150° of over-rotation provides surgeons with optimum positioning versatility. Surgical LED field lights on the under surface of the X-ray source illuminates anatomical detail brilliantly whilst reducing shadows.





## Features

- Lowest radiation dose
- CMOS flat panel technology
- Surgical LED Lights
- Bilateral sterile field controls
- Rapid 30 seconds startup
- 24" (61 cm) high resolution touchscreen monitor
- 15 x 15 cm flat panel detector

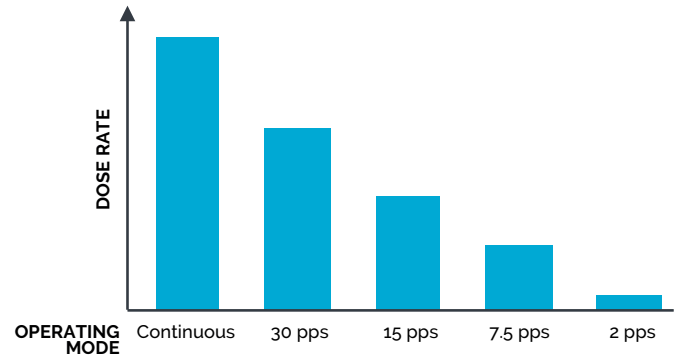


# Orthoscan FD Pulse

Leading the field with clinically useful innovations including pulsed fluoroscopy.

## Low radiation dose

- Reduced dose without loss of image quality
- X-ray emitted as a series of short pulses, not a continuous flow of X-rays
- Reduces dose 30%-80% depending on pulse rate
- User selectable pulse rate



## 150° orbital movement for preferred views without stressing anatomy

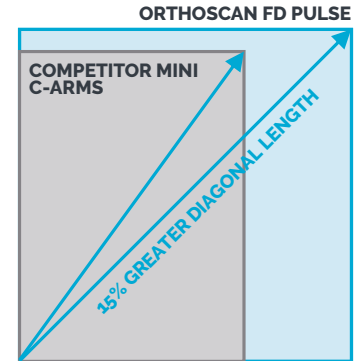
- 150° rotational range
- Versatile positioning
- Less stress on anatomy



- Increased working space
- Improved sterility
- Reduced case time

## Large flat detector

- 25% larger viewing area
- 15 x 15 cm – 225 cm<sup>2</sup> area
- Eliminates need for a rotating detector



## Surgical LED lights that reduce shadows. Bilateral sterile field controls



- Imaging & documentation functions are easily accessible on the right and left sides.
- Surgical LEDs reduce shadows by providing primary light in the surgical field, illuminating anatomical detail.



# Orthoscan **FD-OR**

The first mini C-arm with a flat panel detector.

The Orthoscan FD-OR introduced the world to extremity imaging with flat detector technology. Its CMOS detector delivers high resolution images with over 16,000 levels of grey to ensure optimum detail is displayed.

The ability to over rotate the C-arm assembly allows convenient and accurate positioning. Ergonomically placed one-touch sterile field controls and a wireless foot switch allow the surgeon to maintain control and work quickly and efficiency.



## Features

- Compact & lightweight
- CMOS flat panel technology
- Rapid 30 seconds start up
- Bilateral sterile field controls
- 150° C-arm over-rotation
- Surgical LED lights
- 24" (61 cm) high resolution touchscreen monitor



# Orthoscan Mobile DI

Digital fluoroscopy in your clinic and on the go.

The Orthoscan Mobile DI is the portable version in our mini C-arm range, designed to meet your clinic and off-site extremity imaging needs.

Available as both a desktop and a mobile fluoroscopic solution,

Mobile DI is ideal for pre- and post-surgical review as well as in extremity trauma imaging such as sporting events and to meet remote field hospital needs.

A bespoke mobile case allows Mobile DI to be transported securely to the point of care.



## Features

- Desktop, mobile and portable
- CMOS flat panel technology
- 24" (61 cm) high resolution touchscreen monitor
- Mobile accessory cart
- Mobile transport case
- Carbon fibre foot support







# Equipment **Rental**

The latest rental imaging equipment is held to meet your temporary operational needs and contingency planning.

At Xograph Healthcare we understand that there are times when you require an additional mobile imaging system to meet the requirements of an unscheduled event or loss of service.

The solution is simple: **talk to us here at Xograph**. We can provide a range of mobile and portable digital imaging modalities to overcome these otherwise stressful demands on your clinical service.

## **Our rental portfolio includes:**

- Mobile surgical C-arms
- Mini C-arms
- Mobile X-ray units
- General radiography solutions (mobile X-ray, table & wall stand)
- Portable fluoroscopy units
- Mobile, portable & desktop dental imaging units
- Mobile imaging tables

# Xograph Healthcare

Supplier of world-leading digital radiographic and fluoroscopic imaging solutions.

Xograph Healthcare is a leading independent medical equipment supplier to the UK and Ireland. Xograph has a proven track record in providing innovative medical imaging technology and services to hospitals, diagnostic centres and medical services.

Xograph's range of medical imaging products include general radiographic, fluoroscopic, surgical, mobile and dental / maxillofacial imaging equipment including Cone Beam CT, as well as the latest healthcare IT and direct digital imaging solutions.

Backed by more than 50 years of medical imaging expertise, all of our imaging modalities are supported by our manufacturer-certified product specialists, clinical applications specialists and field service engineers.

**Contact us for more information or to  
arrange a product demonstration.**

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