ziehmimaging


# Mini C-arms

## Dedicated to the imaging of extremities and pediatric use

Provided by | ORTHOSCAN

Orthoscan is the leader in the mini C-arm market with a worldwide installed base. Its mini C-arms are used in orthopedic surgery and for digital diagnostic imaging in offices and clinical environments. Mini C-arms are the ideal solution for fluoroscopy of the extremities at minimized dose levels. Due to their light weight, the systems are easy to handle in small spaces and operating rooms and guarantee ease of transfer between exam rooms.

Since 2017 Ziehm Imaging has had full distribution rights for the Orthoscan mini C-arms and is the official Sales and Service representative for these products in Europe, the Middle East and Africa. This means, Ziehm Imaging now covers the complete range of mobile fluoroscopy systems from mini C-arms to high-end full-size C-arms.

## Orthoscan TAU 2020

Superior capabilities with the most advanced mini C-arm

## Orthoscan TAU 1515

Exceeding expectations of mini C-arm performance

## Orthoscan TAU 1512

Quality and performance that meets any budget

## Orthoscan Mobile DI

Portable diagnostic imaging

| | Orthoscan TAU 2020 | Orthoscan TAU 1515 | Orthoscan TAU 1512 | Orthoscan Mobile DI |
|---|---|---|---|---|
| Imaging technology | CMOS, flat-panel, 20.0 cm x 20.0 cm | CMOS, flat-panel, 15.0 cm x 15.0 cm | CMOS, flat-panel, 15.0 cm x 12.0 cm | CMOS, flat-panel, 15.0 cm x 12.0 cm |
| Detector resolution | 2.0 k x 2.0 k | 1.5 k x 1.5 k | 2.0 k x 1.5 k | 2.0 k x 1.5 k |
| Pulsed fluoroscopy | ■ | ■ | – | – |
| High-resolution LCD monitor | 27" | 24" | 24" | 24" |
| Touchscreen | ■ | ■ | ■ | ■ |
| Bilateral sterile field controls | ■ | ■ | ■ | – |
| Stepless collimator | ■ | – | – | – |
| Optimized dose filter | ■ | ■ | ■ | – |
| Pediatric mode | ■ | ■ | ■ | – |
| Weight | 215.5 kg | 215.5 kg | 215.5 kg | 15.9 kg |
| 160° orbital movement | ■ | ■ | ■ | – |

available ■ | not available –

# 01 / Orthoscan TAU 2020.
## Superior capabilities with the most advanced mini C-arm

### → Orthoscan TAU 2020 shows more anatomy in full view

With the largest field of view on a mini C-arm, Orthoscan TAU 2020 shows more anatomy in full view. By minimizing the number of views required, patient dose and procedure time are minimized, increasing efficiency. The stepless, motorized collimator minimizes the exposure field to only the area of interest in order to reduce radiation, while also contributing to producing the perfect image. With the next-generation CMOS detector, image quality is improved as a result of higher contrast and detail-rich content.

### → Intelligent Dose Reduction (IDR)

Orthoscan TAU 2020 includes cutting-edge Intelligent Dose Reduction technology that provides the best in diagnostic image quality while reducing exposure dose to both patients and staff. Pulsed fluoroscopy with selectable pulse rates of 30, 15 and 7.5 pulses per second decreases dose levels without loss of image quality. By engaging the optimized dose filter, all Orthoscan TAU systems can reduce the dose significantly in children and adults. That's why mini C-arms of the Orthoscan TAU family are the first and only ones approved for pediatric use.

### → Increased usability

The advanced Orthotouch™ 2.0 touchscreen user interface now comes in an updated version that includes new features such as anatomically programmed selections, on-screen help and dedicated pediatric settings. Improved bilateral controls, located on each side of the tube head, provide easy access to imaging and documentation functions within the sterile field. For additional illumination of the surgical field, LED lights are located on the underside of the tube head to remove any shadows.

### → 27" high-resolution monitor

With the largest screen available on a mini, the 27" high brightness monitor helps with viewing comfort and convenience as well as with providing more image information. The monitor arm enables easy adjustment for the optimum viewing position when standing or seated.



# Specifications: Orthoscan TAU 2020

## Detector

| | |
|---|---|
| Detector resolution | 2.0 k x 2.0 k |
| Field of view: full | 20.0 cm x 20.0 cm |
| Field of view: collimated | 10.2 cm x 10.2 cm |
| Useful array | 20.0 cm x 20.0 cm |
| Pixel spacing | 99 microns |
| Dose rate | AKR, DAP |

## X-ray monoblock

| | |
|---|---|
| Focal spot | 42.5 microns |
| kV range | 40 – 78 kVp |
| mA range | 0.04 – 0.160 mA |
| Selectable pulse rate | Cont / 30 pps / 15 pps / 7.5 pps / 2 pps |
| Collimator | Stepless (4 leaf, 2 axis) |
| Optimized dose filter | Yes |

## Documentation

| | |
|---|---|
| Wireless communication | Optional |
| DICOM 3.0 compliant | Yes |
| Image capacity | 26,000 |
| Video capacity | 14.4 min |
| Cine loop export | Yes |
| Cine loop frame rate | 30 fps |
| Printer | Yes |

## Software

| | |
|---|---|
| Operating system | Windows 8.1 embedded |

## C-arm

| | |
|---|---|
| Free space | 35.0 cm (13.8") |
| Arc depth | 50.8 cm (20.0") |
| Pivot | 430° |
| Lateral rotate (wig-wag) | 320° |
| Orbital rotate | 160° |
| Vertical range | 67.3 cm (26.5") |
| Distance to cabinet | 149.9 cm (59.0") |
| Distance to wheel base | 114.3 cm (45.0") |

## Display

| | |
|---|---|
| Monitor | 27" LCD |
| Built-in DICOM calibration | Yes |
| Extendible monitor arm | Yes |
| Arm lateral rotation | 216° + 370° + 200° |
| Arm horizontal reach | 66 cm (26.0") |
| Arm vertical travel | 35.6 cm (14.0") |
| Arm vertical height | 48.3 cm (19.0") |
| HDMI (External monitor) | Yes |
| Monitor brightness | 450 cd/m$^2$ |
| Touchscreen | Yes |

## Imaging

| | |
|---|---|
| Surgical LED lights | Yes |
| Sterile field controls | Bilateral |
| Start up time | about 60 sec |
| Edge enhancement | Yes |
| Post process brightness/contrast | Yes |
| Adaptive noise suppression | Automatic |
| Manual noise suppression | 3 modes |
| Laser alignment | Yes |
| Multifunction wireless foot switch | Yes |

## Dimensions

| | |
|---|---|
| Weight | 215.5 kg (475.0 lb) |
| Height | 121.9 cm (48.0") |
| Footprint (W x L) | 73.7 cm x 83.9 cm (29.0" x 33.0") |

# 02/Orthoscan TAU 1515.
## Exceeding expectations of mini C-arm performance

### → Preferred views with fewer shots

Equipped with a large 15 cm x 15 cm detector, Orthoscan TAU 1515 shows anatomy as it needs to be seen. The big field of view in combination with a 24" high-resolution LCD monitor allows the surgeon to keep the focus on the patient and not on the equipment. The system can achieve preferred views with fewer shots, improving the daily workflow and reducing exposure to staff and patients. With the next-generation CMOS detector, image quality is improved as a result of higher contrast and detail-rich content.

### → Intelligent Dose Reduction (IDR)

Orthoscan TAU 1515 includes cutting-edge Intelligent Dose Reduction technology that provides the best in diagnostic image quality while reducing exposure dose to both patients and staff. Pulsed fluoroscopy with selectable pulse rates of 30, 15 and 7.5 pulses per second, decreases dose levels without loss of image quality. By engaging the optimized dose filter, all Orthoscan TAU systems can reduce the dose significantly in children and adults. That's why mini C-arms of the Orthoscan TAU family are the first and only ones approved for pediatric use.

### → Increased usability

The advanced Orthotouch™ 2.0 touchscreen user interface now comes in an updated version that includes new features such as anatomically programmed selections, on-screen help and dedicated pediatric settings. Improved bilateral controls, located on each side of the tube head, provide easy access to imaging and documentation functions within the sterile field. For additional illumination of the surgical field, LED lights are located on the underside of the tube head to remove any shadows.

# Specifications: Orthoscan TAU 1515

## Detector

| | |
|---|---|
| Detector resolution | 1.5 k x 1.5 k |
| Field of view: full | 14.0 cm x 14.0 cm |
| Useful array | 15.0 cm x 15.0 cm |
| Pixel spacing | 99 microns |
| Dose rate | AKR, DAP |

## X-ray monoblock

| | |
|---|---|
| Focal spot | 42.5 microns |
| kV range | 40 – 78 kVp |
| mA range | 0.04 – 0.160 mA |
| Selectable pulse rate | Cont / 30 pps / 15 pps / 7.5 pps / 2 pps |
| Collimator | Fixed (normal, mag) |
| Optimized dose filter | Yes |

## Documentation

| | |
|---|---|
| Wireless communication | Optional |
| DICOM 3.0 compliant | Yes |
| Image capacity | 26,000 |
| Video capacity | 14.4 min |
| Cine loop export | Yes |
| Cine loop frame rate | 30 fps |
| Printer | Yes |

## Software

| | |
|---|---|
| Operating system | Windows 8.1 embedded |

## C-arm

| | |
|---|---|
| Free space | 35.0 cm (13.8") |
| Arc depth | 50.8 cm (20.0") |
| Pivot | 430° |
| Lateral rotate (wig-wag) | 320° |
| Orbital rotate | 160° |
| Vertical range | 67.3 cm (26.5") |
| Distance to cabinet | 147.3 cm (58.0") |
| Distance to wheel base | 111.8 cm (45.0") |

## Display

| | |
|---|---|
| Monitor | 24" LCD |
| Built-in DICOM calibration | Yes |
| Extendible monitor arm | Yes |
| Arm lateral rotation | 216° + 370° + 200° |
| Arm horizontal reach | 66 cm (26.0") |
| Arm vertical travel | 35.6 cm (14.0") |
| Arm vertical height | 48.3 cm (19.0") |
| HDMI (External monitor) | Yes |
| Monitor brightness | 575 cd/m$^2$ |
| Touchscreen | Yes |

## Imaging

| | |
|---|---|
| Surgical LED lights | Yes |
| Sterile field controls | Bilateral |
| Start up time | about 60 sec |
| Edge enhancement | Yes |
| Post process brightness/contrast | Yes |
| Adaptive noise suppression | Automatic |
| Manual noise suppression | 3 modes |
| Laser alignment | Yes |
| Multifunction wireless foot switch | Yes |

## Dimensions

| | |
|---|---|
| Weight | 215.5 kg (475.0 lb) |
| Height | 121.9 cm (48.0") |
| Footprint (W x L) | 73.7 cm x 83.8 cm (29.0" x 33.0") |

# 03/Orthoscan TAU 1512.
## Quality and performance that meets any budget

### → Compact and light-weight form
Designed around customers' needs, Orthoscan TAU 1512 introduces the next-generation of mini C-arms. The entry C-arm to the Orthoscan TAU family features a 15 cm x 12 cm flat-panel detector as well as improved articulation and arm design, all packed in to a small and light-weight form. With the next-generation CMOS detector, image quality is improved as a result of higher contrast and detail-rich content.

### → Intelligent Dose Reduction (IDR)
Orthoscan TAU 1512 includes cutting-edge Intelligent Dose Reduction technology that provides the best in diagnostic image quality while reducing exposure dose to both patients and staff. By engaging the optimized dose filter, all Orthoscan TAU systems can reduce the dose significantly in children and adults. That's why mini C-arms of the Orthoscan TAU family are the first and only ones approved for pediatric use.

### → Increased usability
The advanced Orthotouch™ 2.0 touchscreen user interface now comes in an updated version that includes new features such as anatomically programmed selections, on-screen help and dedicated pediatric settings. Improved bilateral controls, located on each side of the tube head, provide easy access to imaging and documentation functions within the sterile field. For additional illumination of the surgical field, LED lights are located on the underside of the tube head to remove any shadows.


# Specifications: Orthoscan TAU 1512

## Detector

| | |
|---|---|
| Detector resolution | 2.0 k x 1.5 k |
| Field of view: full | 14.0 cm x 10.9 cm |
| Useful array | 15.0 cm x 12.0 cm |
| Pixel spacing | 75 microns |
| Dose rate | AKR, DAP |

## X-ray monoblock

| | |
|---|---|
| Focal spot | 42.5 microns |
| kV range | 40 – 78 kVp |
| mA range | 0.04 – 0.160 mA |
| Collimator | Fixed (normal, mag) |
| Optimized dose filter | Yes |

## Documentation

| | |
|---|---|
| Wireless communication | Optional |
| DICOM 3.0 compliant | Yes |
| Image capacity | 26,000 |
| Video capacity | 14.4 min |
| Cine loop export | Yes |
| Cine loop frame rate | 30 fps |
| Printer | Yes |

## Software

| | |
|---|---|
| Operating system | Windows 8.1 embedded |

## C-arm

| | |
|---|---|
| Free space | 35.0 cm (13.8") |
| Arc depth | 50.8 cm (20.0") |
| Pivot | 430° |
| Lateral rotate (wig-wag) | 320° |
| Orbital rotate | 160° |
| Vertical range | 67.3 cm (26.5") |
| Distance to cabinet | 147.3 cm (58.0") |
| Distance to wheel base | 111.8 cm (44.0") |

## Display

| | |
|---|---|
| Monitor | 24" LCD |
| Built-in DICOM calibration | Yes |
| Extendible monitor arm | Yes |
| Arm lateral rotation | 216° + 370° + 200° |
| Arm horizontal reach | 66 cm (26.0") |
| Arm vertical travel | 35.6 cm (14.0") |
| Arm vertical height | 48.3 cm (19.0") |
| HDMI (External monitor) | Yes |
| Monitor brightness | 575 cd/m$^2$ |
| Touchscreen | Yes |

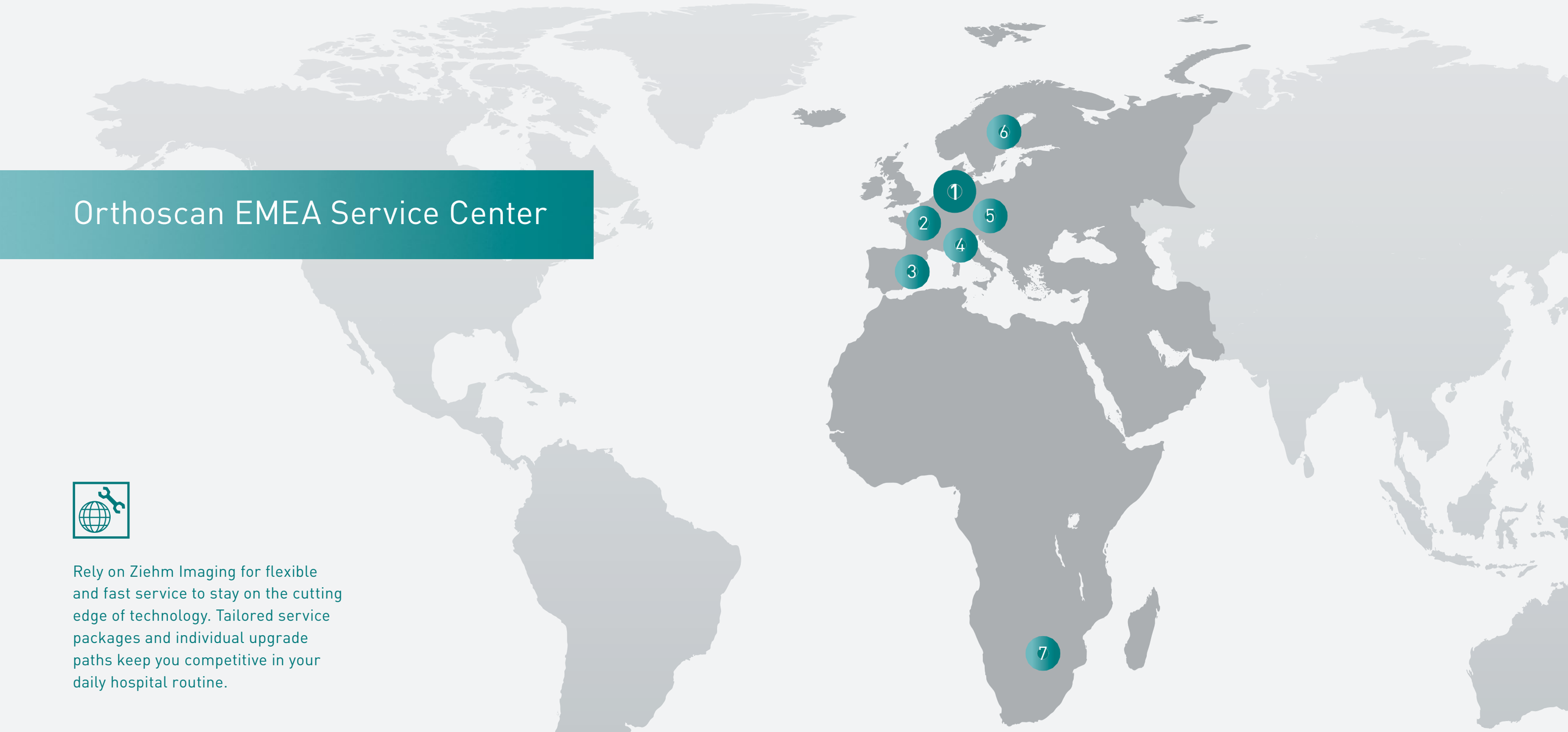
## Imaging

| | |
|---|---|
| Surgical LED lights | Yes |
| Sterile field controls | Bilateral |
| Start up time | about 60 sec |
| Edge enhancement | Yes |
| Post process brightness/contrast | Yes |
| Adaptive noise suppression | Automatic |
| Manual noise suppression | 3 modes |
| Laser alignment | Yes |
| Multifunction wireless foot switch | Yes |

## Dimensions

| | |
|---|---|
| Weight | 215.5 kg (475.0 lb) |
| Height | 121.9 cm (48.0") |
| Footprint (W x L) | 73.7 cm x 83.8 cm (29.0" x 33.0") |

# Orthoscan EMEA Service Center

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