

3D First – See More. Diagnose Faster.



Product Data Sheet





Introduction

The **Adaptix Ortho350** is a cutting edge, portable **Digital Tomosynthesis (DT) system** offering **high-resolution, low-dose 2D and 3D imaging** for musculoskeletal diagnostics. It uses a **low-dose source that emits X-ray from an array of positions** and similar to CT, reconstructs image stacks for clearer visualization of our complex joint structures.

Key Features

- **MultiSweepDT Acquisition**

The Adaptix Ortho350 optimizes image quality through its **unique acquisition array**. In contrast to traditional tomosynthesis systems which acquire data in a single linear sweep, the Adaptix system **acquires data from multiple angles to maximize image quality** and enhance through-plane resolution.

- **Turbo DT Recon**

The Adaptix Ortho350 enables the acquisition of 3D tomosynthesis scans in less than 20 seconds. The Adaptix Ortho350 is equipped with a **proprietary image reconstruction engine** which generates the first 3D slices within a few seconds of the completed scan and a full multi-slice dataset within 15 seconds of a completed scan.

- **Adaptix UI**

The Adaptix User Interface **optimizes workflow**, seamlessly guiding the operator through the examination. With confidence in the system this allows the operator to focus on the patient.



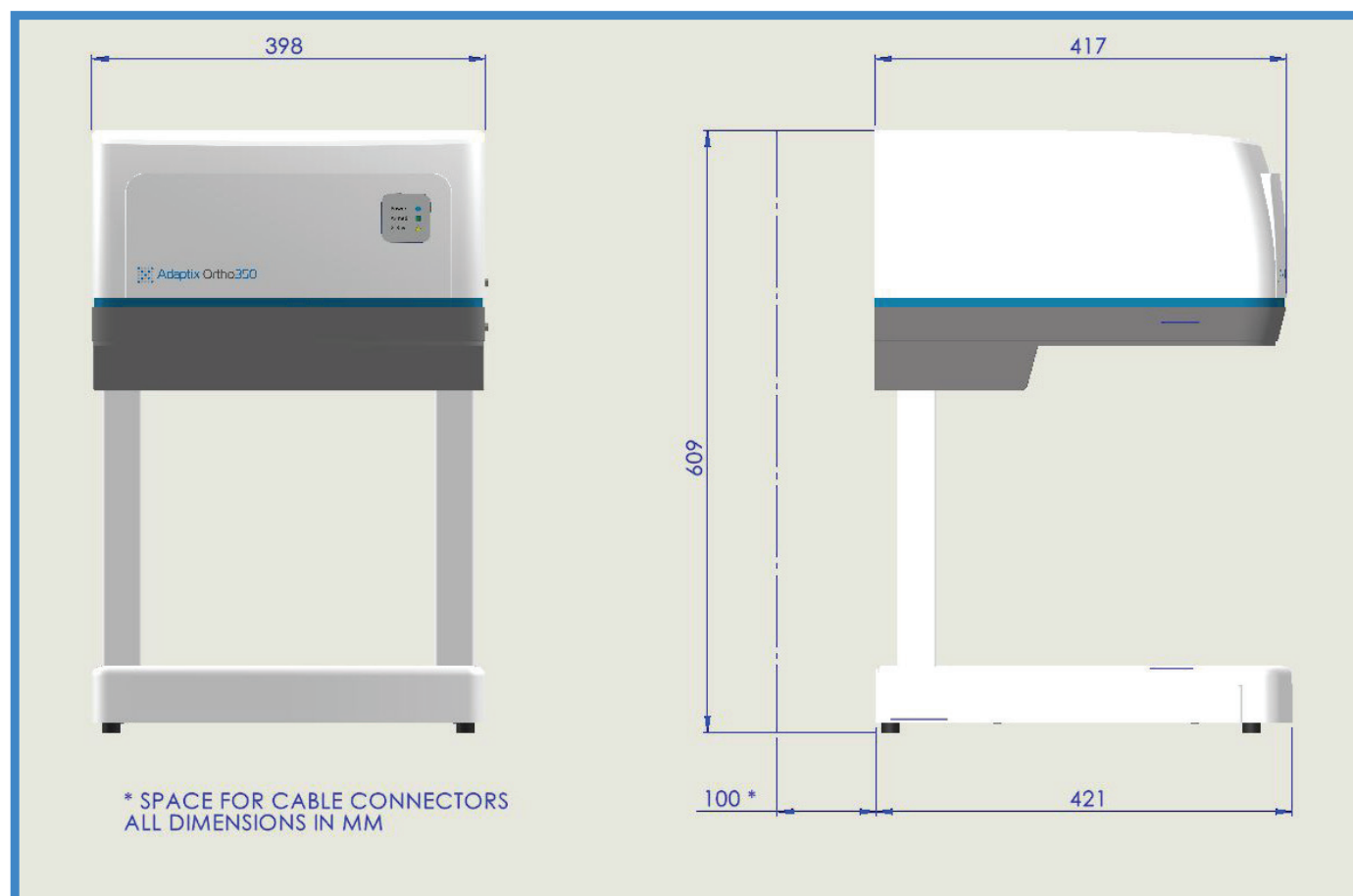
Product Data

Image

Imaging area	16 x 24 cm (6.3 x 9.45 in)
Pixel size	98 µm
Aquisition time (typ)	13 to 20 sec
Reconstruction time (max)	< 20 sec
X-ray voltage	70 kV
Focal spot	300 x 600 µm
Source to image distance (SID)	35 cm (13.8 in)
Total filtration	2.53 mm Al HVL @70 kV
Total current per 3D aquisition	0.18 - 2.14 mAs
Entrance dose per 3D aquisition	0.21 - 1.41 mGy
Reconstructed volume depth (max)	18 cm (7 in)

Unit

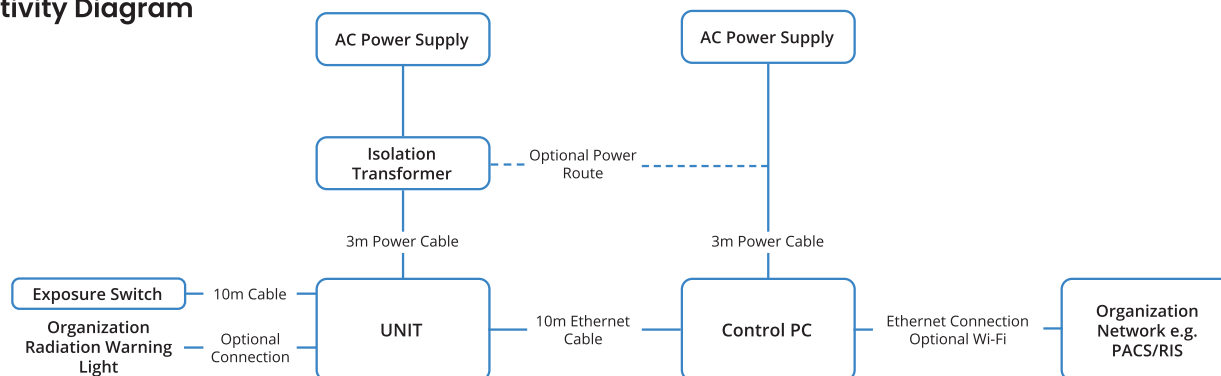
Weight	23.5 kg (51.8 lbs)
Dimensions	609 x 398 x 421 mm (24 x 15.7 x 16.6 in)
Packaged weight	~40 kg (~88 lbs)
Packaged dimensions	800 x 538 x 600 mm (31.5 x 21.2 x 23.6 in)



Connectivity

Power	Rated voltage	120/230 VAC
	Rated input power	188 VA
	Rated frequency	50/60 Hz
Isolation Transformer	Medical grade isolation transformer	90 x 150 x 250 mm (3.5 x 5.9 x 9.5 in)
Connectivity	Control PC	23.8 inch Medical-grade PC, including keyboard and mouse
	Power cable	3 m (9.84 ft) , 5 A
	Control cable	10 m (32.81 ft) CAT6 twisted pair, shielded ethernet
	Continuous Activation Switch cable	10 m (32.81 ft) CAS with hand switch
	External indicator lights	No cable supplied. Optional for customer to wire
DICOM 3.0 Networking	HIS/RIS Interface	DICOM Modality Worklist (SCU)
	Exam status communication	DICOM MPPS (SCU)
	Image send to PACS	DX DICOM Storage (SCU)
	Send Dose values for each study to an archiving system	DICOM Storage commitment (SCU)
	Radiation Dose Structured Report	DICOM RDSR
	Cloud-based Image review and archival	Cloud-based PACS (optional)

Connectivity Diagram



Conditions

Ambient Operating Conditions	Temperature	10 to 35°C (50 to 95°F)
	Relative humidity	30% – 70%
	Air pressure	70 kPa - 106 kPa
	Ingress protection	IP20
Transport Conditions	Temperature	-10 to 55°C (14 to 131°F)
	Relative humidity	30% – 70%
	Air pressure	50 - 106 kPa

Intended Use Statement

The Adaptix Ortho350 Device is intended to be used in hospitals, clinics, imaging centers and/or other healthcare facilities by qualified/ trained doctors or technicians on both adult and pediatric subjects. The device is intended to generate tomosynthesis images of human anatomy for diagnostic purpose of body extremities, upper/lower limbs, and adjacent anatomy in all routine radiography examinations. The device is not intended/indicated for use in imaging of the skull, chest, spinal column, hip, shoulder or in mammography applications.

