The XSEED®plus Imaging System



MSS-34 Rev B

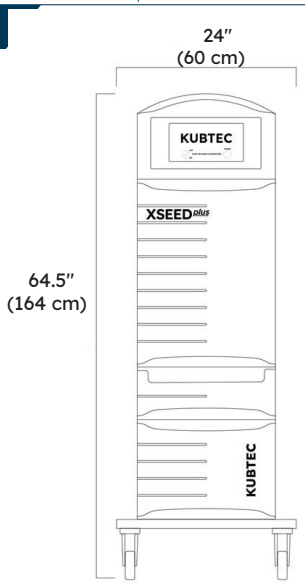
KUBTEC® SCIENTIFIC

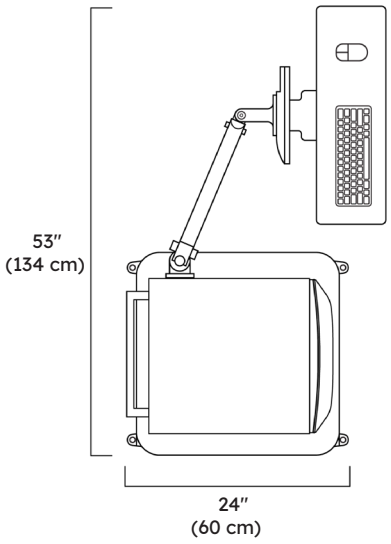
KUBTEC® SCIENTIFIC

THE XSEED®plus Imaging System

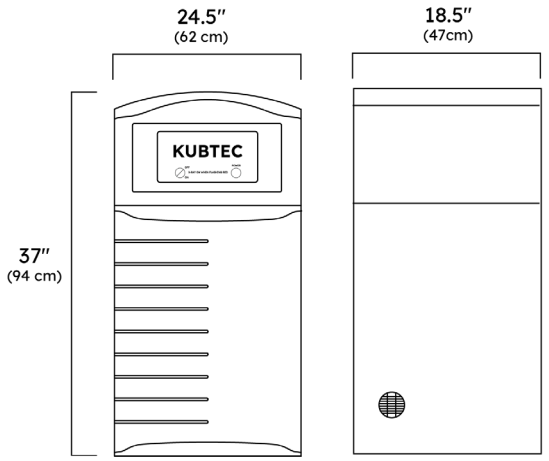
SYSTEM SPECIFICATIONS

System Diagram





Benchtop Configuration



Electrical Requirements	
Input Line Voltage	120 VAC ±10%, 220 VAC ±10%
Peak Input Power	500 W
Frequency	50/60 Hz
Physical	
External Dimensions	24.0" W x 24.0" D x 64.5" H (60 cm x 60 cm x 164 cm)
Internal Cabinet Dimensions	20.00" W x 14.75" D x 15.62" H (50.80 cm x 37.47 cm x 39.69 cm)
Benchtop Dimensions	24.5" W x 18.5" D x 37.0" H (62 cm x 47 cm x 94 cm)
Weight with Cart	310 lbs (140 kg)
Weight without Cart	205 lbs (93 kg)
Digital Image Receptor	
Active Imaging Area	10" x 12" (24 cm x 30 cm)
Output Image	16-bit image data
Acquisition Workstation	
CPU	Multi-core Intel
Memory	16 GB
Hard Drive	1 TB
Display Monitor	LED Blacklit LCD monitor, diagonal 27"
Operating System	Windows 11 Enterprise
Network Connection	1 Ethernet hardwire connection Wireless: 5 GHz, 802.11ac Protocol, 48 Net Channel, and WPA2-Personal Security Type
Storage Formats	DICOM, TIFF, JPEG
DICOM Services	Worklist, storage, query, and retrieve
User Interface	Keyboard, mouse, voice and gesture commands
Image Display	
Image Processing	Enhanced display of seed and agricultural samples with preset and manual window/level and invert
Magnification Tools	Zoom and magnifying glass
Annotations and Image Management	Text, left and right marker, ruler, erase tool, arrows, multi-level views, flip, rotate, crop, contrast, and brightness adjustment

X-ray Source	
Energy Range	20–50 kV
Anode Type	Tungsten
Tube Current	Up to 2 mA
Focal Spot Size	50 µm nominal
Filtration	0.127 mm Be
Exposure Modes	
Manual	User selects kV and µA
Auto/AEC	System determines optimum kV and µAs
Cabinet	
Safety Features	Fully-shielded cabinet, multiple interlocks, and password-protected system settings
Indicators	Power, X-ray ready, X-ray active, interlock status, voice commands active
Magnification	Level 1 (1.0x Magnification) Contact Mode (No Mag rail) Level 2 (1.3x Magnification) (1st Mag rail) Level 3 (1.7x Magnification) (2nd Mag rail) Level 4 (2.0x Magnification) (3rd Mag rail) Level 5 (3.0x Magnification) (4th Mag rail)
Other	Lighted cabinet with optical camera, locking/swivel wheels, and stainless steel interior

Software and Proprietary Features
The DIGICOM® Specimen Radiography Software
The DIGISEED® Seed Analysis Software
Optical Camera
The Image Blender™
Accessories & Resources
Optional Well Plate Holder Insert
Magnification Tray
Benchtop Configuration
System Manual (IFU)
Quick Reference Guide (QRG)

KUBTEC®
111 Research Drive
Stratford, CT 06615 USA
www.kubtecscientific.com
T: +1.203.364.8544

Contact Support
+1.203.364.8544, press option 3 for service
service@kubtec.com