

JKUAT Multimedia Lab Hardware and Software Recommendations

Introduction

This report presents recommended hardware and software tools for the new JKUAT Multimedia Lab, designed to support effective communication of research and student projects both within the university community and with external stakeholders.

Hardware Recommendations

Input Devices

Device Type	Recommended Model	Specifications	Purpose
Document Scanner	Epson DS-30000	70ppm scan speed, 4200 dpi max resolution, ADF capacity 120 sheets	Digitizing research papers and student assignments
Graphics Tablet	Wacom Cintiq Pro 27	27" display, 4K resolution, 99% Adobe RGB coverage, 10-point multi-touch	Digital art, design work, and precision editing
Webcam	Logitech Brio 4K Pro	4K resolution, 90fps, 5x digital zoom, auto light correction	High-quality video recording and streaming
Microphone	Blue Yeti X Professional	4 pickup patterns, 24-bit/192kHz, high-pass filter, built-in LED meter	Audio recording for voiceovers and interviews
360° Camera	Insta360 X3	5.7K 360° video, FlowState stabilization, AI editing features	Creating immersive virtual tours of campus facilities
Motion Capture	Rokoko Smartsuit Pro II	19 sensors, 100Hz refresh rate, wireless, 8-hour battery life	Animation projects and interactive applications

Output Devices

Device Type	Recommended Model	Specifications	Purpose
Monitor	Dell UltraSharp UP3221Q	32" 4K, built-in colorimeter, 100% Adobe RGB, HDR	Color-accurate design and video editing
3D Printer	Ultimaker S5	Dual extrusion, 330 x 240 x 300mm build volume, 20-micron precision	Prototyping and physical model creation
VR Headset	Meta Quest 3	4K+ resolution per eye, 6DOF, wireless, hand tracking	Testing immersive experiences and VR applications
Audio Monitors	KRK Rokit RP7 G4	7" bi-amped drivers, Built-in DSP-driven EQ, flat frequency response	Audio mixing and mastering
Large Format Printer	Canon imagePROGRAF PRO-4100	44" width, 12-color LUCIA PRO pigment ink system, 2400 x 1200	dpiPoster printing and large visual displays