Whale4 Ultra

Lab-scale. Efficient and Stable

The Whale4 Ultra is a large-format dental 3D printer designed to advance digital workflows. It combines high precision, a spacious build area, and user-friendly operation.

High-Capacity Printing: One build plate can accommodate 12 orthodontic models, 6 full-arch surgical guides, or 4 full-arch implant models.

Large-Build Efficiency: With an expansive build area 221x118x220mm, Whale4 Ultra prints 8~12 orthodontic models or 6 full–arch guides per plate, tripling productivity for lab–scale workflows.

Speed Meets Precision: Its ultra–HD exposure system (15120×6230 resolution) delivers ±25μm dimensional accuracy at high speeds, ideal for full range of dental scene requirements.

Industrial Reliability: Industrial–grade ball screws, linear rails, and closed–loop temperature control guarantee 24/7 precision and zero downtime, even under heavy workloads.

Whale4 Ultra Specifications

Model	Whale4 Ultra	Technology	MSLA/UV LCD
Light Source	Light Source		7th–gen COB + Light homogenizer, 4th–gen integrated air–cooling system
	Optical Power Intensity		5000uw/cm^2
	UV Wavelength		405nm
Exposure System	Resolution		15120*6230
	Pixel Size		14*19um
	Build Volume		221*118*220mm
Speed	Layer Thickness		20um~200um (20μm increments)
	Printing Speed		100mm/h
Motion System	Lead Screw		Industrial ball screw
	Motor		Industrial Stepper Motor
Power	Input		100–240V ~ 50/60Hz 2A
	Output		24VDC/6.25A
3D Printer	Printer Dimensions		358*379*473mm
	Packing Dimensions		502*512*642mm
	Net Weight		24kg
	Gross Weight		28kg
	Operating Temp		20–30°C (68–104°F)
Software	Slicers		NovaMaker, ChituBox Lychee Slicer, Tango Slicer
	File Format		.stl, .obj