

xTool F2

The Best Portable Laser For
Starting A Business.

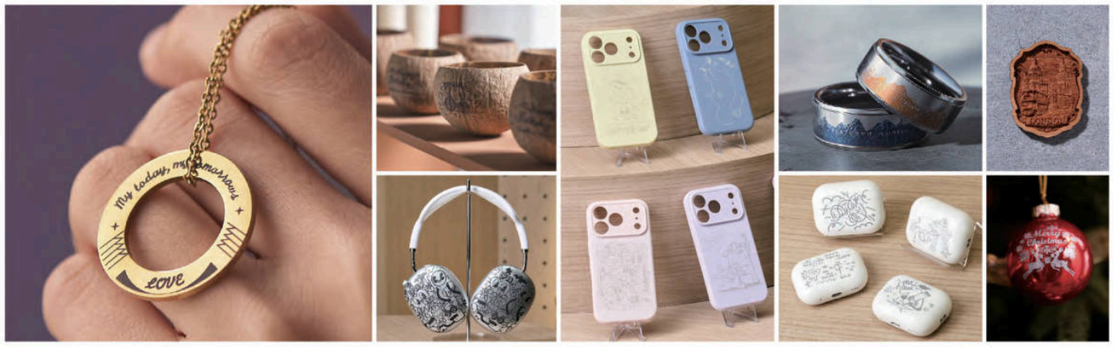


XTOOL

Specifications		xTool F2	
Processing Capacity	Laser Type	15W Diode Laser+ 5W 1064nm Infrared Laser	
	Processing Mode	Laser Engraving	Laser Cutting
	Supported Materials	Paper, Wood, Leather, Some Dark Opaque Acrylic, Plastic, Gold, Silver Platinum, Brass, Stainless Steel, etc.	
	Working Area	4.53" × 4.53"(115mm × 115mm) 15.75" × 4.53"(400mm × 115mm) with Extension	
	Max. Working Speed	236.22ips (6000mm/s)	
	Max. Laser Cutting Capacity	0.59"(15mm) Basswood in Multiple Pass 0.47"(12mm) Acrylic in Multiple Pass	
Easy Operation	Built-in Camera	50 MP Smart Camera	
	Positioning Method	Camera Positioning	Framing Positioning
	Focus Mode	Auto Focus	Manual Focus (Two dots alignment)
	Preview Method	Smart Camera Preview	High-speed Light Live Preview
	Supported Software	xTool Studio	
Smart Software	Operating System	Windows/macOS	
	Connection Method	Wi-Fi/USB/IP	
	Supported Files	SVG/DXF/JPG/JPEG/PNG/BMP, etc.	
Accuracy & Precision	Laser Spot Size	15W Diode Laser: 0.00315" × 0.00236" (0.08mm × 0.06mm) 5W Infrared Laser: 0.00118" × 0.00118" (0.03mm × 0.03mm)	
	Motion Accuracy	0.000078" (0.00199 mm)	
General Information	Max. Machine Input	24V 6.0A 150W	
	Product Weight	10.14 lb (4.60kg)	
	Product Dimensions	6.89" × 9.33" × 13.15" (175mm × 237mm × 334mm)	
	Safety Certification	Class 4 Laser Safety	

The Most Powerful Portable Dual Laser

xTool F2's 15W diode and 5W infrared lasers let you engrave over 300 materials with precision and speed. 5W infrared laser delivers darker, finer metal engravings, while 15W diode laser cuts thick wood and acrylic with ease—even creating wood and stone reliefs. Create more, faster, and easier than ever.



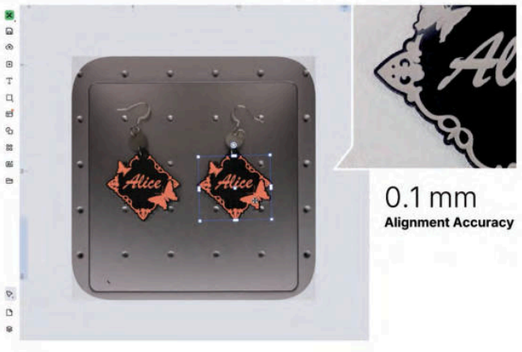
Revolutionary 50MP Smart Camera Simplifies Your Workflow

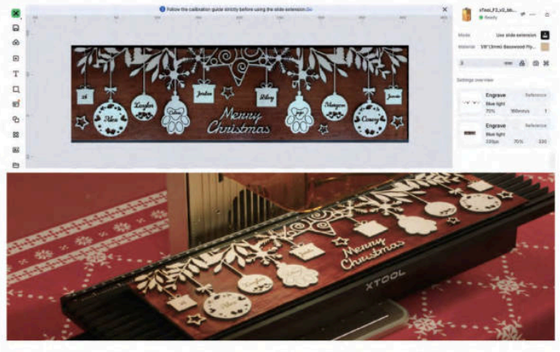
Always Align Perfectly on the First Try

F2's 50MP camera visualizes your workspace with 0.1 mm precision, ensuring perfect alignment and less waste every time.

Extended Workspace, Fully Visualized

F2 extends visualization to the Slide Extension, merging the bed and extended area into one seamless preview for effortless, precise placement.





Speed up to 6000mm/s Fastest of Its Kind

xTool F2 engraves at up to 6000 mm/s — 50% faster than before. Complete custom orders in minutes and boost efficiency at craft fairs, pop-ups, and in-store events.



Coconut
Time: 32s /pcs
Size: 32mm × 50mm

Bottle cap
Time: 21s /pcs
Size: 33mm × 40mm

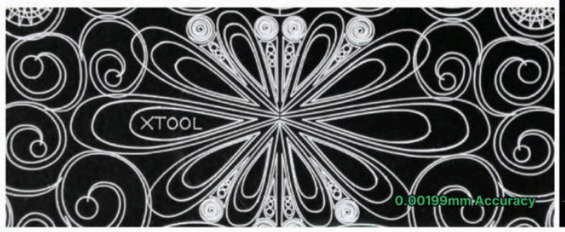
Festival Card
Time: 3s /pcs
Size: 71mm × 95mm

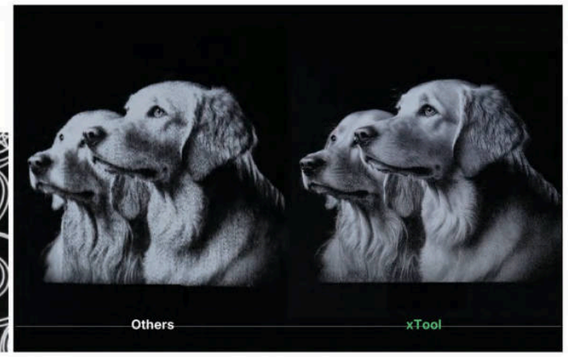
Necklace
Time: 49s /pcs
Size: 13mm × 13mm

Acrylic Earrings
Time: 18s /pcs
Size: 30mm × 38mm

Charger
Time: 13s /pcs
Size: 25mm × 30mm

High-Resolution Engraving 100% Reprint Accuracy





Ultra-fine Engraving Lines for Breathtaking Details

Zoom in and the precision holds. Showing ultra-fine, uniform lines with clean edges.

Engraving Every Photo Clearly and Vividly

Compared with others, F2 delivers visibly cleaner micro-contrast—crisper fur texture, punchier highlights, and richer shadows.

Expand Your Engraving Possibilities

Portable and HandHeld

Compact and lightweight, F2 travels anywhere with you, from your studio to outdoor fairs. Engrave any shape, at any angle, freely and effortlessly.







4X Expand Your Working Area

Fast & Easy Process. Long enough to do all the projects. It helps you achieve batch production and improve efficiency.

Make Any Round Surface Your Canvas

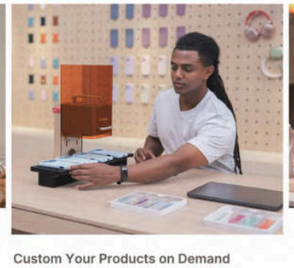
Suitable for daily use cylinders and spheres, such as tumbler, mug, Christmas ball, ring, etc. Plus, unlock full-wrap engraving.

Safe Yet Powerful Boost All Types of Business

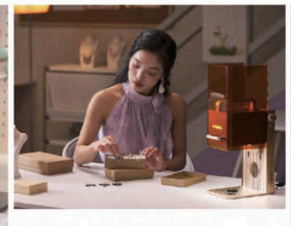
F2's fully enclosed design blocks smoke and laser leakage for a clean, safe experience anywhere — in stores, studios, offices, or at home. Perfect for instant, on-site customization that boosts sales and foot traffic.



Add Style to Your Home



Custom Your Products on Demand



Personalized Jewelry Creation



Stand Out at Craft Fair