XTOOL

xTool F2 Ultra

The First 60W MOPA + 40W Diode Dual Laser with AI



tec
Technology Education Concepts
www.TECedu.com | 800-338-2238
info@TECedu.com

The Most Powerful Dual Laser with AI

F2 Ultra is a powerful dual-laser engraver and cutter (60W MOPA + 40W Diode) — a true all-in-one solution for all materials. The 60W MOPA laser enables advanced techniques like color engraving, embossing, and thick metal cutting with precise control. 40W diode laser enables finer processing of non-metal materials and cuts thicker materials effortlessly. AI takes it further by streamlining every part of your workflow — making production faster, smarter, and more efficient.

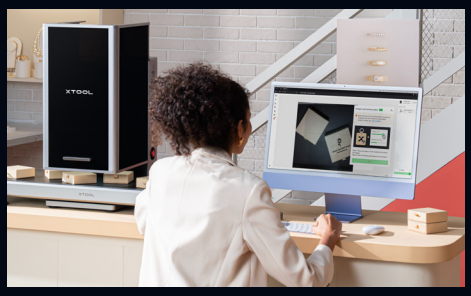














One Powerful Machine Does It All

F2 Ultra is the ultimate dual laser for any material. It's built for powerful metalwork—perfect for color engraving, deep carving, relief, and cutting.
It also handles wood, acrylic, glass, and more with high precision.

AI-Powered. Simple. Safe

Powered by AI and dual 48MP cameras, F2 Ultra is easy, efficient, and safe to use. It auto-detects materials and sets the best parameters for you. With a fully enclosed, smoke-free system, anyone can operate it with ease.

The Ultimate ROI Machine

With 15,000 mm/s speed and Auto Streamline™ Production, F2 Ultra streamlines batch work with an 8.6" × 19.6" conveyor workspace — ideal for industrial-grade output. Built for metal and jewelry creators, studios, and sellers ready to scale.

Specificaitons

Type	Details	
Laser type	F2 Ultra Dual Laser: 60W MOPA & 40W Diode	F2 Ultra Single Laser: 60W MOPA Only
Weight	F2 Ultra Dual Laser: 21.6kg	F2 Ultra Single Laser: 20.8kg
Processing Mode	Laser Engraving & Laser Cutting	
Supported Materials	Stainless Steel, Brass, Aluminum, Wood, Leather, Acrylic, Paper & More	
Max. Laser Cutting Capacity	2mm Metal/23mm Basswood/20mm Acrylic in Multiple Passes	
Max. Working Speed	15,000 mm/s	
Working Area	220 mm × 220 mm, 220 mm × 500 mm with conveyor	
Built-in Camera	48 MP Dual Cameras	
Preview Method	Smart Camera Preview	
Accuracy	Positioning Precision: 0.2 mm, Motion Accuracy: 0.00482 mm	
Product Size	294 mm x 429 mm x 521 mm	
Supported Software	Atomm & xTool Creative Space	
Operating System	Windows & macOS	

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