# Creality Falcon A1C AI 5W Laser Engraver

Model: 1005010377

Manufacturer: CREALITY

EAN: 6977905744398

Product Code: 1746319

## R7,151

### Creality Falcon A1C AI 5W Laser Engraver

The Creality Falcon A1C 5W combines the capabilities of a precision laser engraver with a compact, portable design, making it ideal for home workshops, studios, classrooms, and small service centers. Interchangeable laser modules allow you to adapt the device to various materials and projects, while automatic focusing simplifies setup. A Class 1 enclosed housing, a flame detection system, and additional safety features enhance safety during use. The package is complemented by the free FDS Studio software with AI features that streamline graphic preparation, design, and the production of larger batches. This model features a built-in camera that assists with positioning, as well as AI-powered smart filling and layout.

### One machine, many possibilities

The Falcon A1C’s modular design allows you to swap out the laser source in seconds without using any tools. The kit includes a 5 W diode laser, and the device can also be used with an optional 10 W

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diode module or a 1.2 W infrared module. The 5 W and 10 W lasers are ideal for working with wood, bamboo, paper, cork, cardboard, stone, leather, glass, and fabrics. The 1.2 W IR module expands the capabilities to include brass, gold, silver, platinum, acrylic, plastics, aluminum, and stainless steel. You can also expand the Falcon A1C with additional holders, and the right accessories allow you to engrave mugs, tumblers, spherical ornaments, and other items with curved and cylindrical surfaces.

## Full Control Over Every Detail

The 150 × 150 mm work area provides ample space for practical projects. You can create items such as coasters, leather goods, small decorations, and personalized gifts. An engraving speed of up to 15,000 mm/min streamlines the execution of your ideas, while the high precision of the motion system ensures smooth, clean lines. The rigid construction minimizes vibration during operation, and the small laser spot helps reproduce sharp edges and fine details. Material preparation also requires no tedious adjustments—autofocus automatically selects the appropriate working height once the object is placed in the machine.

## Safety During Operation

The enclosed Class 1 design effectively limits exposure to harmful laser radiation while keeping the work area visible. As a result, there is no need to wear safety glasses during standard use. The built-in flame detection system automatically stops the device upon detecting a hazard, triggers an audible alarm, and sends an immediate notification to the app and the desktop software. Tilt Protection shuts down the engraver if an abnormal tilt is detected, while the USB safety lock helps prevent accidental startup of the device.

## From Idea to Design with AI

The free FDS Studio offers a clean interface, intuitive operation, and real-time design preview, making its features accessible even to those new to engraving. Integrated AI tools further shorten the path from artwork to a finished project. AI Filter Lab lets you change the appearance of materials using various professional styles, while AI Background Removal automatically recognizes object edges and prepares a smooth, high-quality graphics with a transparent background, while AI Contour Extraction detects colors, separates layers, and converts the image into colorful vector layers useful for multicolor engraving. The AI Smart Fill & Layout feature recognizes identical materials and

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automatically selects an optimized pattern layout, which can speed up batch engraving by up to 60%.

## Convenient Day-to-Day Use

The Falcon A1C can be controlled from both a computer and an app, and its intuitive software makes it easy to get started even without prior experience. Its lightweight, portable design allows you to easily move the device between your living room, garage, workshop, studio, classroom, or store counter and start working wherever you need to. It’s just as easy to keep the equipment clean—the fan with a quick-release mechanism streamlines regular maintenance and the removal of accumulated debris.

## More Expansion Options

The Falcon A1C’s design allows for customization of the workstation for future applications. The flexible mounting system enables the use of additional mounts and extensions. An optional air purifier filters out smoke and unpleasant odors generated during engraving, which is particularly useful when using the device at home or in other indoor spaces. Combined with interchangeable laser modules and accessories for cylindrical and spherical objects, this allows you to expand your setup as your needs grow and take on increasingly diverse projects.

## Included in the set

- Creality Falcon A1C laser engraver
- power supply
- power cable
- exhaust tube
- USB-A to USB-C cable
- cleaning brush
- cutting plate
- M2/M2.5 Allen wrench
- USB-A to USB-C adapter
- cable tie
- cleaning cloth

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- material clamping screws x2
- safety keys x2
- linden wood boards x3
- photo paper for laser engraving x7
- user manual

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|---|---|
| **Manufacturer** | Creality |
| **Model** | Falcon A1C |
| **Supported laser modules** | 5 W diode \| 10 W diode \| 1.2 W infrared |
| **Interchangeable laser modules** | Yes (5 W module included) |
| **Engraving area** | 150 × 150 mm |
| **Maximum workpiece height** | 148 mm |
| **Laser Safety** | Class 1 laser, flame detection system, tilt detection, USB safety lock |
| **Maximum Speed** | 15,000 mm/min |
| **Focusing Mode** | Automatic focusing |
| **Camera** | Built-in |
| **Camera-assisted positioning** | Supported |
| **AI-powered smart filling and nesting** | Supported |
| **Optional accessories** | Rotary kit, air purifier |
| **IoT control** | Wi-Fi + BLE, IoT control |
| **App control** | Wireless app control |
| **Device dimensions** | 336 × 377 × 341 mm |
| **Package dimensions** | 470 × 395 × 410 mm |
| **Weight (device only)** | 9.8 kg |

Information about data generation: https://dataact.innpro.pl/CREALITY/6977905744398, GPSR Link: https://psr-assets.innpro.pl/creative_technologies/sg_creative_technologies_laser_engravers_and_cutters.pdf, PPWR: https://ppwr.innpro.pl/en/creality, Gross weight: 13300, Net weight: 9800, Box length: 47,00,

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Box width: 39,50, Box height: 41,00

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