Laser technical summary: 10W 355nm UV galvo marker

Used for OSSO: polyimide stencil cutting and PCB blank ablation. Owned lenses: 150 mm field (preferred) and 300 mm field. All values are taken from the two vendor documents (originals in `refs/laser/source_private/`, not published). "Not stated" means neither document gives the value.

Item	Value (as stated)
Machine	10W water-cooling UV laser marking machine
Laser source	CRS UV laser source 10W, model CRS-355-10
Wavelength	355 nm (central emission)
Average output power	10 W nominal; power adjustment 10%–100%
Power stability	< ±3% (average power)
Pulse width	< 15 ns @ 40 kHz
Pulse repetition rate	20 kHz – 150 kHz
Pulse stability	RMS ≤ 3% @ 40 kHz
Beam roundness	> 90%
Beam quality (M^2)	Not stated
Spot diameter	0.4–0.7 mm (see note 2)
Galvo head	RC1001 Sino-Galvo
Marking speed	0 – 7000 mm/s
Lens / marking field	F-theta 150 × 150 mm (supplied); 300 × 300 mm quartz field lens (supplied); 50 × 50 to 300 × 300 mm available (see note 1)
Focal lengths	Not stated
Working distance	Not stated
Z travel	Not stated
Table / bed	Not stated
Repeatability	Not stated
Marking depth / line width	Not stated
Rotary	Not stated (not listed as included)
Cooling	Water cooling
Laser power supply	Taiwan Meanwell
Operating voltage	110 V / 50 Hz; supplied as 110 V with US plug (see note 3)
Average consumption	350 W
Working temperature	0–40 °C
Storage temperature	−15 °C to 50 °C
Dimensions / weight	Not stated
Control	JCZ EzCad marking control card and software; compatible with LightBurn
OS support	WinXP / Win7 / Win10, 32-bit and 64-bit; English operating system
Image formats	"Amp" (as printed), JPG, GIF, TGA, PNG, TIF, etc.

Item	Value (as stated)
Vector formats	AI, PLT, DXF, DST, etc.
Interfaces	Not stated (USB drive supplied for software/settings backup)
Certificates	CE, FDA, RoHS (printed "CEFDA ROHS")
Included accessories (tech)	Foot switch for marking; one pair of protective glasses; USB drive with software and settings backup; training video and instruction book

Notes and conflicts

1. Marking field: both documents list a 150 × 150 mm F-theta lens; the spec sheet also lists the 300 × 300 mm quartz lens and gives a range "50 × 50 to 300 × 300 mm for choice". Neither gives focal length or working distance for any lens, so the 150 mm field lens's focal distance must be measured on the machine.
2. Spot diameter "0.4–0.7 mm" is far larger than a typical focused UV galvo spot. It may refer to the raw beam rather than the focused spot. Treat it as unverified, and measure the kerf on the practice film.
3. Operating voltage is printed as 110 V/50 Hz, while the supply is described as 110 V with a US plug (US mains is 60 Hz). This is probably a typo; check the PSU label.
4. "Detail training video, instruction book" appears twice in the included list (items 9 and 12). This is a duplicate, not a conflict.
5. "Amp" in the image formats is printed as-is (probably BMP).