

Create 2D & 3D Images Inside Glass & Crystal

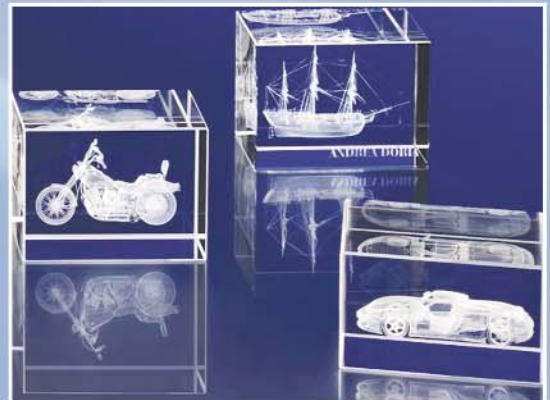
The new Crystal Cube was designed for sub-surface engraving inside glass, crystal, and other surfaces. Vytek has taken what was once a difficult process and made 2D and 3D engraving inside glass and crystal a straightforward and profitable venture.

Compact Performance & Amazing Throughput

Our system offers top performance in the smallest possible space. It was designed for mobile use or installation in your place of business. And be assured you'll still achieve superior dot density along with an ultimate processing speed of up to 3000 points per second.

The Vytek Advantage

We've assembled the right hardware and software to process your 2D and 3D images. And we offer the only system in the U.S.A with the license rights to use the patented process. With our top-notch training program and fantastic technical support, we've made it easy for anyone to become a sub-surface engraver!



Extremely compact and easy to set up



Introducing the Crystal Cube

We offer the only fully-licensed sub-surface Crystal 3D Engraving system in the USA.



Crystal Cube

Intelligent Design

Extremely high peak-pulse outputs of up to 300 kW, in combination with sophisticated optical systems featuring exceptional laser design, make precision engraving possible in hard-to-reach interior surfaces of crystal and glass.



Technical Data

Laser Source

Laser type	Diode-pumped, Q-Switched Nd: YAG laser
Wavelength range	532 nm (green laser)
Pulse repetition rate	5 Hz - 50 kHz
Pulse duration	< 10 ns
Peak pulse power	35 - 300 kW
Modes	Basic mode (TEM ₀₀)
Laser Class	1
Cooling System	Entirely air-cooled

Marking Head

Focusing lens	F-theta 163 flat-field lens (optional F-theta 100, F-theta 254)
Marking field (mm)	110 x 110; 60 x 60; 160 x 160
Focus diameter	min. 20 micron
Pilot laser	Visible, red-beam pilot laser for easy positioning

3D-control of the laser head

Electrical axes	Automatic z axis: height adjustment (focus)
Maximum work area	10 x 10 x 8 inches (crystal)

Control unit; electrical ratings; consumption

Electrical ratings	110... 240V (10%), 16 A, 50... 60Hz
Typical power consumption	<600W
Computer Operating System	WINDOWS XP
Interface	RS 422/485
System weight	Max. 175 lbs., according to equipment provided

Typical Engraving Times

3D portrait in glass	2 x 2 x 3.2 inches, 150,000 points - 2.6 minutes
Key chain in glass	.6 x .8 x 1.2 inches, 40,000 points - .75 minutes
2D multi-layer glass bitmap	2.8 x 3.5 x 0.8 inches - 12 minutes

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Give us a call at 978-342-9800 to learn more about
Sub-surface Crystal Engraving.



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