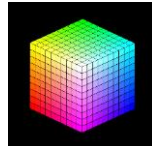
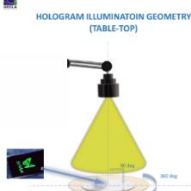
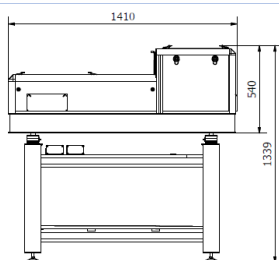
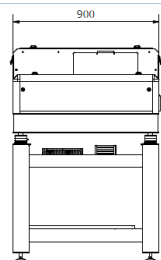
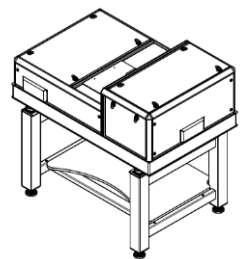


EcHoLas-200 – DIGITAL VOLUME 3D HOLOGRAM PRINTER

Typical specifications*

DESCRIPTION	PARAMETER	NOTES
Laser wavelengths	640nm/532nm/457nm	Different laser wavelengths can be implemented on request
Laser type	CW	Pulsed laser can also be implemented on request
Maximum area printed	~200 × 200mm	Bigger printing area can be extended by implementing pulsed laser on request
Hogel printing resolution (easy tunable)	~100-500µm	Printer is based on hogel recording, which size is simple tunable via GUI The <150 µm hogels are already invisible for naked eye.
Printing speed	~1-3Hz	Master hologram printing speed depends on light sensitive material characteristic
Holographic material type	Photopolymers	Silver Halide emulsion plates could also be applicable
Field Of View (FOV)	~20 ... 120deg	The bigger the FOV the dimmer the hologram !
Digital hologram type	Full color (RGB) Volume 3D reflection: ➤ Single parallax ➤ Full parallax	With possibility also record and individual monochrome or two-color or full-color holograms. Including gradient color creation 
Digital hologram data imprinted	Static or Dynamic (animated)	File sequences made by 3D programs (Blender, 3D StudioMax, etc.) or Live world data capture.
Data preparation program	Blender	Other programs can be also applicable for Single Parallax data sequence preparation
Hologram recording-replay geometry (reference angle/lighting)	~45° or 0°	Table Top 0° (360° view)  ~45° view 
Electrical requirements of machine	220VAC 50/60Hz, ~200W	The 110VAC version can be also manufactured on request
Software provided along with device	1. Printer Control 2. Data processing (preparation) 3. Data Preview	- Software which allows to control digital printer - The "Farmer" software, which allows to prepare data allowing multiple computers ("Cows") use for network rendering. - Software which makes preview of desired data (Single & Full parallax)
Dithering function	YES	Function allowing enhance of grayscales and colors
Size of the machine (preliminary)	900 × 1339 × 1410 mm	  
Warranty	12/3 months	General/Optics respectively

* The parameters marked typical are not specifications. They are indications of typical performance and will vary with each unit we manufacture.