

flō Optics Visiōn100 Digital Coating Platform Technical Sheet



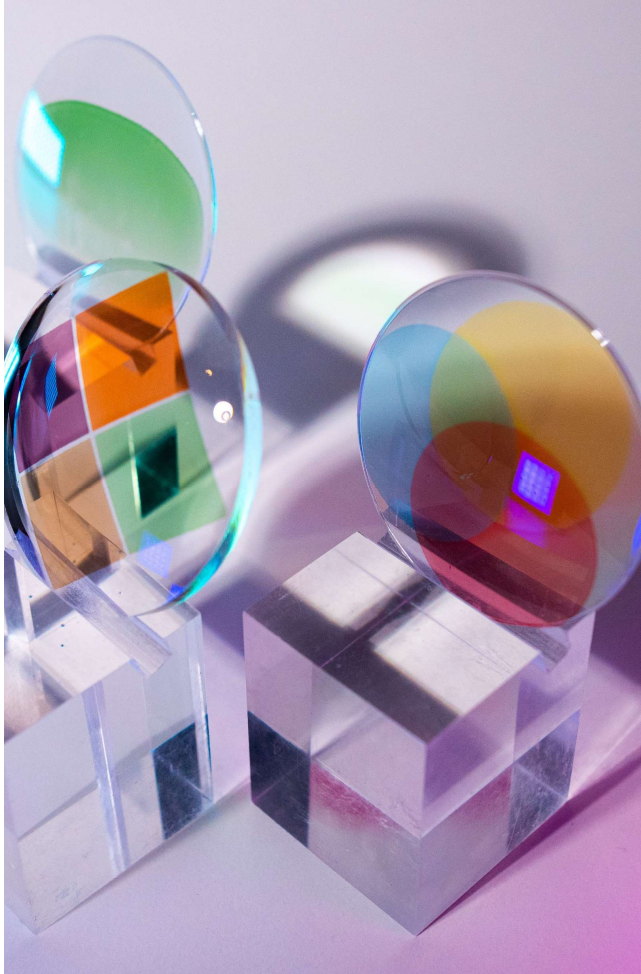
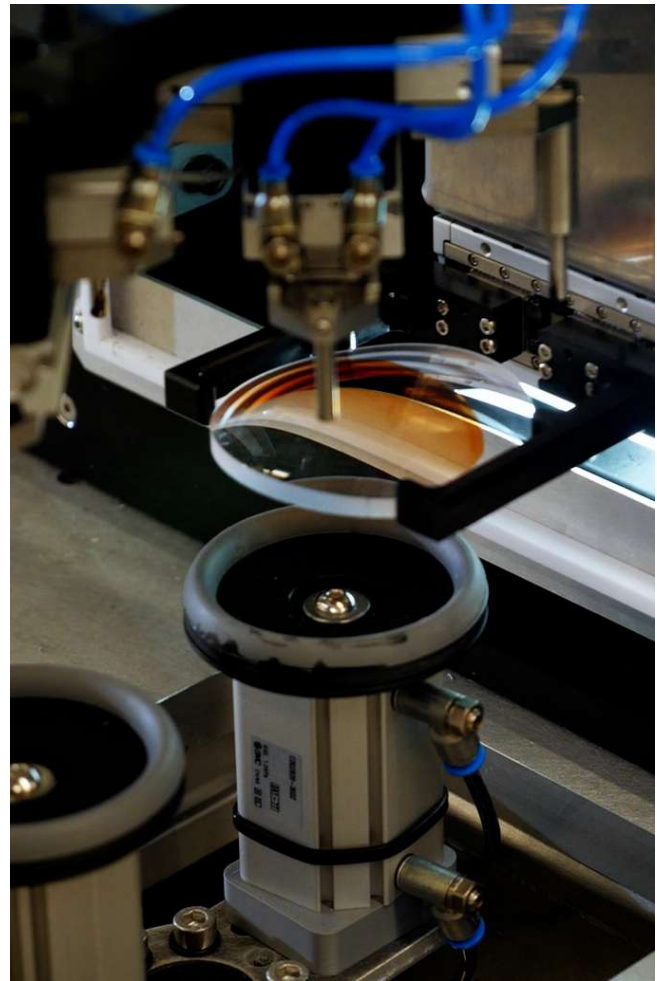
Visiōn100: The Future of Digital Coating

Introducing **Visiōn100**, the first Digital Coating Platform from flō Optics, available Q1 2026. This innovative, modular system redefines coating technology, offering on-demand, high precision lens customization - all within a single, scalable platform.

Designed for flexibility and continuous evolution, **Visiōn100** integrates multiple coating capabilities, ensuring superior, ready-to-use lenses with minimal operator intervention.

- **Basic Module:** Applies solid tint and/or photochromic coatings, including a durable hard coat on one or both sides of the lens.
- **Advanced Module (Add-On):** Unlocks custom tint matching and expands creative possibilities with gradients, logos, and unique patterns.

Visiōn100 allows for easy integration of additional modules



Features

- **Comprehensive & Versatile Platform:** Supports tint, photochromic, and double-sided hard coat.
- **Micro-Precision Printing:** Multi-jetting technology enables high-definition coating and pattern applications.
- **Proprietary Formulations:** Optimized for all lens substrates, meeting industry standards.
- **Seamless Automation:** Inline inspection

Benefits



Endless Possibilities

Apply solid, gradient, and patterned coatings with precision, including photochromic & hard coatings.



Cost-Effective Productivity

Processes up to 30 lenses per hour, maximizing efficiency.



Sustainable Innovation

Reduces water consumption, eliminates chemical waste, and features a cartridge system for ink preservation.



Future-Proof Investment

A scalable, Industry 4.0-ready system, designed to grow with your business.



Capacity



High Throughput

Processes up to 30 lenses per hour with full automation.



Smart Workflow Integration

LMS-enabled job uploads, continuous monitoring, real-time calibration, and inline cosmetic inspection ensure quality.



Minimal Operator Involvement

Requires only 0.5 FTE lab operator, freeing up resources for other tasks.







Technical Specifications

Input: finished uncoated lenses

Substrates	All organic materials: CR39 (1.49), Polycarbonate (1.59), MR8 (1.6), MR7 (1.67), MR174 (1.74), Trivex (1.53)...
Dimensions	Diameter: (min 65mm) max 75mm Front radius: min 75mm SAG50 Max: 5mm (# Base 8)
Prescription range finished	Base 0 to 8D Sphere: -6.00D to +3.00D Cylinder: up to 2.00D
Specific requirements	Post Curing in an oven like for the hardcoat today

Output: finished ready-to-go lenses

flō Optics' proprietary inks are designed for compatibility with all substrates while meeting the specific requirements of optical lenses. They ensure industry-standard performance. Lenses coated with these digital formulations are ready for immediate edging or seamless processing in an AR vacuum chamber.

Coatings	Performances / Features	Basic Module	Advanced Module
Tint	From 80% to 15% transmission UVA / UVB Blocking: 100%	Cartridges: Gray, Brown, Gray Green 	Plus: Mix any tint on-demand: match for any sample or specify 
Photochromic	Clarity: 87% transmission at clear stage Darkness: 20% transmission fully activated UVA / UVB Blocking: 100% Activation speed: activation to Tv75% in 30 sec Fading speed T70%: 2min	Classic: Gray, Brown, Gray Green 	Plus: Fashion colors 
Hardcoat	Single or double sided Industry standard performances	Immediate edging possible Compatible with all conventional AR processes	
Application	Controlled droplet deposition ensures uniform coating distribution with minimal material wastage	Solid uniform layout 	Plus: Patterns (gradients, logo...) in any part of the lens 

Technical Specifications

Characteristics/Requirements	Values (EU / US)
Dimensions (W/D/H)	200/650/200 cm – 79/256/79 in
Weight	2900 kg / 6400 lb
Electricity	44KW / 400V / 64 A / 3-Phase
Air	6 bar, constant supply

flō Optics Digital Coating Platform



Endless Possibilities



Consistent Quality



Cost Saving



Sustainability

Contact Us