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# Why Choose ABC?

Safety Goggles Side Shields Smith & Wesson Safety Glasses Uvex Safety Glasses ► Safety Posters ► Safety Racks ► Safety Vests ► Swine Flu Facemasks ► Welding Helmets ► Work Gloves

"Received products in a timely manner. Will use again if I need Safety Items Thanks"









Vision Care | Products & Services • Eyeglass Lenses Coatings & Colored Lenses Instruments Other ZEISS Brand Products

Products / Coatings & Colored Lenses / Sun & Filter Lenses / Self-tinting Lenses / PhotoF

### ZEISS PhotoFusion®

The self-tinting lenses that react fast to changing light.

PhotoFusion was created by ZEISS experts to meet consumers' expectation of self-tinting lenses that darken and turn clear faster\*. The introduction of PhotoFusion in 2011 has revolutionized the market for these kinds of



> PhotoFusion

**Self-tinting Lenses** 

#### Contacts

Are you interested in a ZEISS Partnership or do you have questions you would like to ask?

- > Contact for ECPs
- > Contact for Patients



#### **Optical Knowledge**

Here you get background information on eyeglass lenses: Basics of ophthalmic optics, surface geometry and progressive lenses, lens materials, lens production and coatings.

> more

Design Benefits Details

# State-of-the-art technology for strong performance



### Fast dark. Fast clear.

Comfortable vision.

 Clear state: 92% T\*\* dark state: 11% T\*\*

PhotoFusion lenses adapt quickly to changing light conditions. The high- and mid-index lenses react up to 2 times faster\* from dark to clear and up to 20% faster\* from clear to dark than previous photochromic lenses by ZEISS.

- Lenses darken to 15% T\*\* in 15-30 seconds\*
- Lenses fade back to 70% T\*\* in 5-10 minutes\*

Indoors the PhotoFusion lenses are very clear whereas outside they turn very dark in the sunlight.

# PhotoFusion® high- and mid-index lenses\*\*

Existing photochromics by ZEISS\*\*

darken

fade back



# T = transmission based on AR coated lenses.

- \* Source: Global consumer study for Carl Zeiss Vision International July 2010, based on national representative samples in US, Brazil, Germany, Italy, UK, Australia and China.
- \*\* Average performance for 1.67, 1.6 and polycarbonate self-tinting lenses. Performance will vary according to material, temperature and light conditions.

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61 Results Sort By

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UA Nitro L Sunglasses \$64.99

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② Customer Service

₩ About Under Armour



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#### Home Company Products Services Licensing Ordering Education News Promotions Fun SEARCH | REQUEST INFO Anti-Reflective Coatings Fusion Ice fusion Standard Mirror Coating Hard Coating Fusion Ice provides extreme protection against harmful sun rays and back surface reflections. Mirror Coatings Fusion Ice mirror coating, the latest development from iCoat Company, is manufactured using Ice dielectric process technology and meets the growing consumer demands for sun protection, innovative design and excellent performance. • Fusion Ice Inscribe™ Digital Lenses Fusion Ice can be applied to virtually all types of lenses. It can be applied to lenses in both uncut and edged forms and results in excellent sun wear with both polarized or tinted lenses. In Sfirex™ 3D addition to the flexibility of being available on any lens substrate, it come with a backside AR with LUV™ (Low UV reflection) technology that helps reduce bothersome backside reflections and provides maximum protection against UV reflections. Industrial Coatings Anti-Fog Coating Like our premium Vivix Ice mirror coating, Fusion Ice mirror combines some of the latest technological advancements resulting in a durable, anti-static, slick and easy to clean performance lens. Fusion Ice mirrors are great for activities that require high contrast and protection from the elements such as golf, skiing, snowboarding, sailing and fishing. Fusion Ice mirror colors are available in solid and flash densities. Solid mirror coatings have higher percentage of luminous reflectance than their corresponding flash mirror colors. The flash mirror generally have a hint of the color whereas a solid mirror shows a higher density of the Fusion Ice Mirrors Hot Fashion - Cool Looks • Black • Blue Cobalt Gold • Green Orange

Click to Download iCoat Mirror Colors

Why Fusion Ice?

<u>Pink</u><u>Red</u><u>Silver</u>



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Home AR Coatings Equipment Lab & Coating Supplies Services Resources Store > Blog

You are here: Home > Equipment > FusionM

# Equipment

> Fusion<sup>M</sup>

**FusionM** 

- > FusionHC
- > DeBlocker
- > Fusion<sup>XI</sup>
- > Super Hydrophobic Chamber
- > AR Parts
- > Equipment Refurbishment
- > B12 Stainless Steel Bell Jar Upgrade
- > B12 Water Manifold Upgrade



Our apologies, but fusionadvantage.net is offline until the development of our new website and ecommerce platform is completed. Until then, here is some information about the FusionM system, please contact us to learn more.

The Fusion<sup>M</sup>® In-Line Coating System is the newest innovation from Quantum. Referred to as a "disruptive technology", the Fusion-M is poised to redefine the coating process in the ophthalmic industry.

The Fusion<sup>M</sup>® provides the ultimate flexibility of applying a process on one lens at a time; AR on the front of the lens, as an example and then a completely different process (Mirror on front and AR on back) on the next lens due to the revolutionary in-line coating process. This

allows a lab to process any coating request without the need to wait until enough orders have accumulated to fill a large batch.

Another unique feature of the Fusion<sup>M</sup>® is its quick startup and shutdown time. Production can begin less than seven minutes after powering the machine on. In addition to faster start times, this also allows the Fusion<sup>M</sup>® to be more efficient and requires far less energy consumption, which may provide additional cost savings.

The benefits of the Fusion<sup>M</sup>® are many. Some of the high points are:

#### Micro Batch Size:

- · Dramatic reduction in WIP and inventory.
- · Increased production on a per sku basis.
- · Greatly reduced product loss when outside interference (power loss, etc.) occurs.
- · Increased flexibility in coating colors offered, as the process can be changed for each fixture.

#### Fast Cycle Time:

· Can process a fully coated (both sides) pair of lenses in less than 10 minutes

## Other Benefits Worth Mentioning:

- Quick start After power-up, Fusion™® is ready to start process in less than 8 minutes.
- Easy maintenance Minimal chamber cleaning due to load/lock system.
- · Reduced power consumption (compared to box coater).
- Small footprint (36"d x 40"w x 70"h)

A micro-batch system that provides this kind of flexibility AND produces lenses at this speed is an incredible combination.



Fusion M® In-Line Coating System is the newest innovation from Quantum. Referred to as a "disruptive technology", a phrase coined by Harvard Business School professor Clayton M. Christensen to explain "a new technology that unexpectedly displaces an established technology," the Fusion M® is poised to redefine the coating process in the ophthalmic industry.

# **Our Company**

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- > Career Opportunities
- > Internships
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# Contact

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- Email: info@Qtmi.net

# Newsletter

Join our mailing list to stay up to date and get notices about our new releases!

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# Attitude of Servitude

"At Quantum, we have a mindset to serve others. This service can be in our business lives and/or our personal lives. We want to serve our customers and our vendors whether or not it benefits us. We feel that this service will eventually return to us magnified." - Norm Kester