

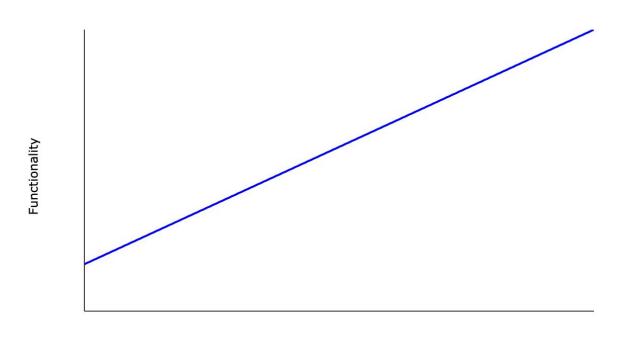
The next big thing in AR

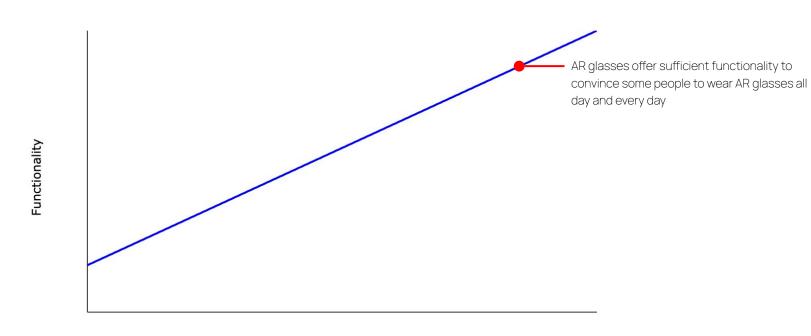
**Prescription Augmented Reality glasses** 

# Why Prescription is Key

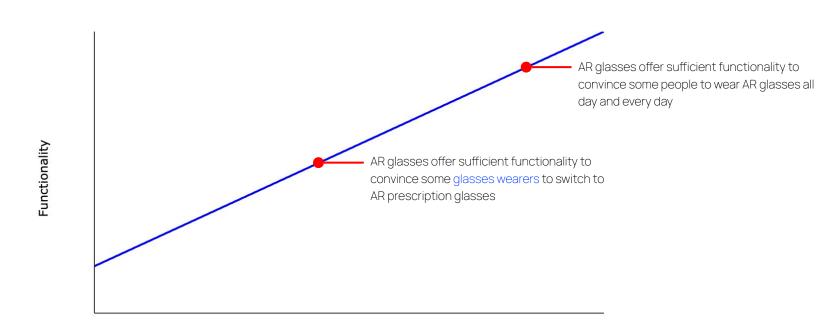


of people in Western countries require vision correction

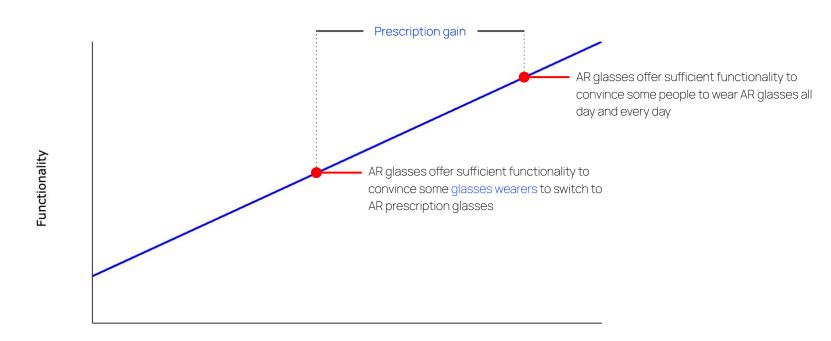




Time



Time



Time

## First full time adopters of AR will be individuals that wear eyeglasses

AR glasses without a prescription solution can only be used by people who don't wear glasses.

Glasses wearers are most likely to be first to adopt AR glasses full time, as they already wear a device on their face, all day, every day.



#### AddOptics' Mission

Accelerate the transition to a world where augmented reality is a part of everyday life

Our novel, revolutionary lens manufacturing technology will be key in facilitating this transition



# Currenct Prescription Solutions

#### Aftermarket Rx solutions

Prescription can be changed / swapped.

Makes it possible for multiple users to use
the same device.







Inserts Double glasses Clip-ons

#### Prescription First

Current, aftermarket solutions don't result in glasses that consumers feel confident wearing in public, all day, every day.

Integrated prescription is key to tackle this hurdle. This is commonly referred to as the prescription first approach.



#### Prescription First

The prescription first approach comes with a tradeoff between form factor and usability

Just like with regular glasses, prescription first AR glasses are unique, and personalised to one user



#### Prescription First Performance benefits

Key benefits of integrated prescription:

- Aesthetics
- Image quality
- Weight and thickness



## Challenges with integrated prescription

Building AR glasses with personalised prescription is a challenge not seen before

We need to build a complex electronic device that is completely unique to each user. Or at least, the lenses must be.



#### Existing lens manufacturing technology



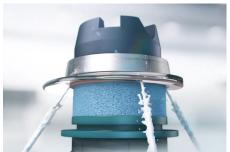
## How current lens manufacturing is done

All prescription lenses in the world are made using essentially the same manufacturing technology.













## How current lens manufacturing is done

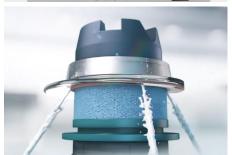
All prescription lenses in the world are made using essentially the same manufacturing technology.

Unfortunately, this technology suffers from a number of fundamental flaws









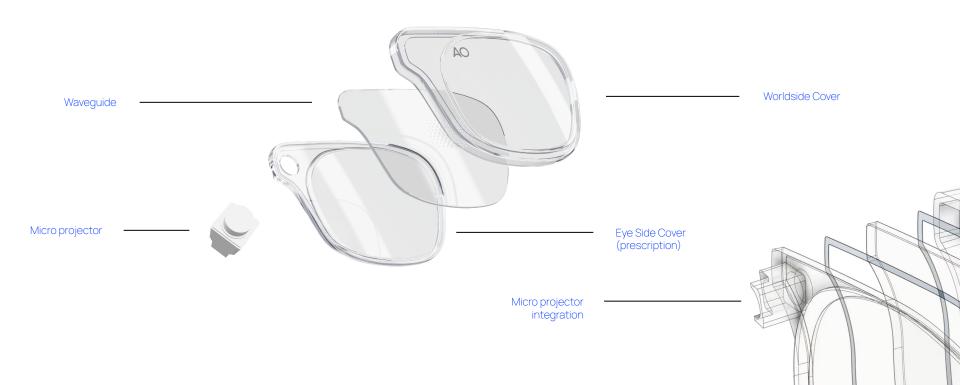








#### Prescription lenses for AR glasses



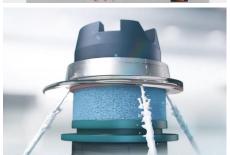
## Challenges with current lens manufacturing technology

Smart glasses will require smart lenses











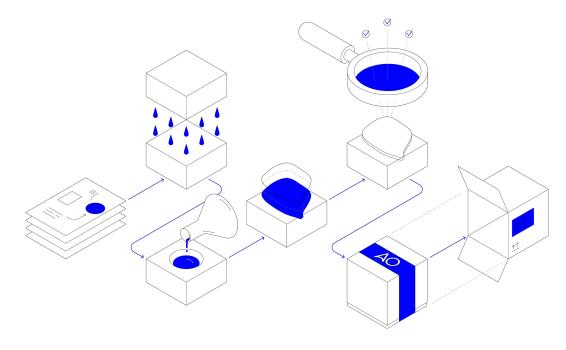




#### AddOptics' finished lens casting technology

The form freedom of injection molding

The level of personalisation associated with traditional lens making

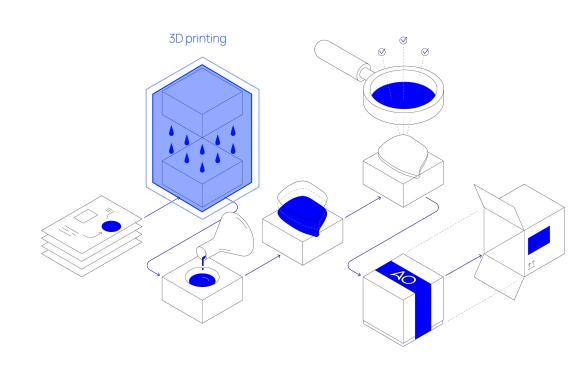


#### AddOptics' finished lens casting technology

Our technology combines 3D printing with traditional casting technology

3D printing is used to create nanometer level smooth, optical grade molds

Traditional casting is used to create the final lens, requiring no edging or polishing



#### AddOptics AR prescription solutions

Our technology allows prescription lenses that include mechanical features, reducing the number of components for the device.

Thinner and lighter than is possible with any traditional lens making method.

Casting (overmolding) of electronics / components into personalised prescription lenses





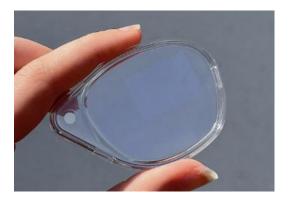


#### **ARx Solution Suite**



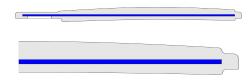


Ultra thin and lightweight plano- convex / concave lenses, flat on one side



Air

Waveguide is placed between two lenses that leave an air gap



#### Monolithic

Overmolding / insert molding of components into the lens

#### Final notes

The future of eyewear is an augmented one

AR glasses are smart glasses, and smart glasses require smart lenses









Learn more?

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