

## Company Facts

- Founded early 2000 in France
- Headquartered in Montreal since 2003
- R&D Team of Optical and Software Engineers
- Worldwide patents on panomorph optics and image correction (dewarping)
- Global Ecosystem of Certified Suppliers: Lens, Software, OEM/ODM, Sensors and

## The 360-degree Video Standard

Leading innovation in 360-degree panoramic imaging, ImmerVision licenses its patented panomorph optical and software technology to global lens producers, product manufacturers and software developers. Panomorph lenses are the only ones that can be adapted to any camera, any sensor, and any consumer, commercial and government market. ImmerVision Enables is the recognized standard for 360-degree solutions and applications.

## Panomorph Technology

ImmerVision's Panomorph Technology is at the leading edge of today's innovative 360° panoramic imaging field. Recent breakthroughs in this field have made the user experience an exciting immersion in both hardware and software evolutions – a unique foray into the future. As part of their unique offering, Panomorph Technology is a result of expertise and focused R&D in wide angle optic design and software algorithms.

## Panomorph Lenses

ImmerVision has created a revolutionary new panomorph lens design that outperforms by far any conventional wide angle lenses (such as catadioptric/mirror or fisheye).



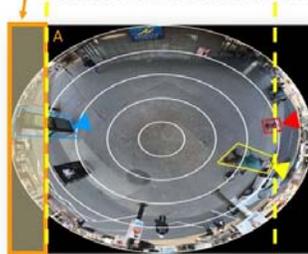
Panomorph Lenses are developed using patented ANAMORPHOSIS or/and TARGETED DISTORTION INCREASE approaches.

This means that one or either patented features can be utilized during the optical design to achieve optimal 360-degree performance for the specific application.

### Patented features:

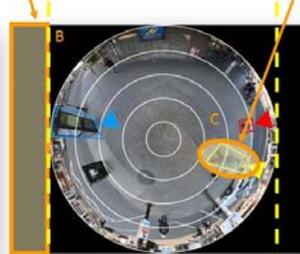
1. Object size magnification in area of interest compared to standard fisheye lenses
2. More pixels coverage on camera sensors compared to standard fisheye lenses

Feature 2. Anamorphosis  
More sensor surface covered on A than B

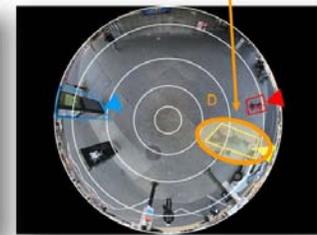


Panomorph: Anamorphosis

Feature 1. Targeted Distortion  
Object D bigger than Object C



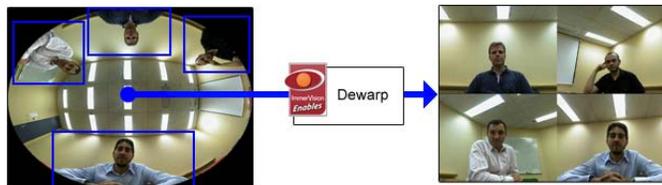
Fisheye: Linear Distortion



Panomorph: Increased Distortion Periphery

## Software Algorithms

Since 2000, ImmerVision has been invested in creating and optimizing high-performing algorithms that allow even the weakest electronic devices to display panoramic content. Today, these powerful imaging algorithms (dewarping) are used in various certified ImmerVision Enables solutions and products from some of the most renowned brands, allowing fast and undistorted viewing of still pictures and live or playback video streams.



*Never miss anything again!*



- Total 360° viewing, recording and playback
- Multiple simultaneous views with a single panomorph camera
- Full digital 360° navigation functionality



*See everyone in the picture!*



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## ImmerVision Enables 360° Products and Solutions

Manufacturers around the world benefit from ImmerVision's leading-edge panomorph technology, allowing them to bring their own innovative panoramic solutions to market. ImmerVision today delivers its customisable technology through three business units: Video Surveillance Applications, Consumer Electronic Applications, and Custom Panoramic Applications.

### Video Surveillance Applications

To address today's security challenges in achieving complete video coverage of public and private areas, ImmerVision with some of the leading lens manufacturers, have developed a set of unique panomorph lenses for this industry that enables 360° panoramic surveillance with IP and traditional CCTV equipment.



### Consumer Electronic Applications



ImmerVision's panomorph technology can simultaneously capture 360° of real-time video, allowing all participants seated at a table, standing nearby a laptop computer or walking on the street to be visible during a video call. ImmerVision Enables dewarping functionality can easily be integrated with most popular communication software applications, providing global and/or individualized navigation control and personalized panoramic views.

### Custom Panoramic Applications

ImmerVision further customises its Panomorph Technology to meet the most demanding niche industry such as medical devices, the automotive industry, aerospace, machine vision technology and entertainment. While its customers invent, design and manufacture their panoramic applications, ImmerVision provide them its leading edge panomorph technology to their specifications.

ImmerVision provides a royalty free Software Development Kit (SDK) and at no cost, required to integrate the immersive viewing functionality to any computing device at no cost, in order to enable their customers with digital 360° navigation functionality (dewarping). This panoramic functionality can be found in products worldwide displaying the "ImmerVision Enables®" logo.



### Senior Management

**Pascale Nini**, President and Chief Executive Officer

**Alessandro Gasparini**, Chief Commercial Officer