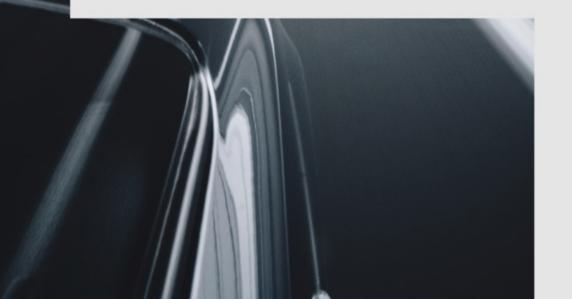


CORPORATE OVERVIEW 2022

TODAY'S FEATURES - TOMORROW'S TECHNOLOGY





WHO WE ARE

- Technology company and long-time supplier of electro-optical products
- Best known for automatic-dimming rearview mirrors and strategic electronic modules that help automakers get new tech in vehicles

Markets:





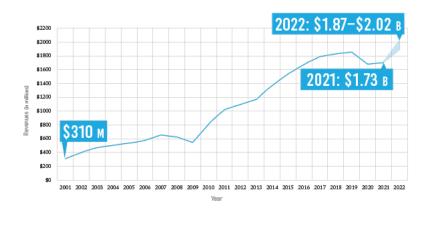
FAST FACTS

- Established: 1974
- Ownership: GNTX NASDAQ Global Select Market





4,998 Full-time Employees



41.8M

Auto-Dimming Mirror Units





650+

Nameplates our Content Appears On

A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A	A
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A	A	A	A	A	A	A	A	A	A	

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STRATEGY



Gentex's strategy is to cultivate emerging technologies that address the industry's macro trends while also acting as innovation platforms for today's vehicles.



In short, we look to introduce features for today based on tomorrow's emerging technology paths.



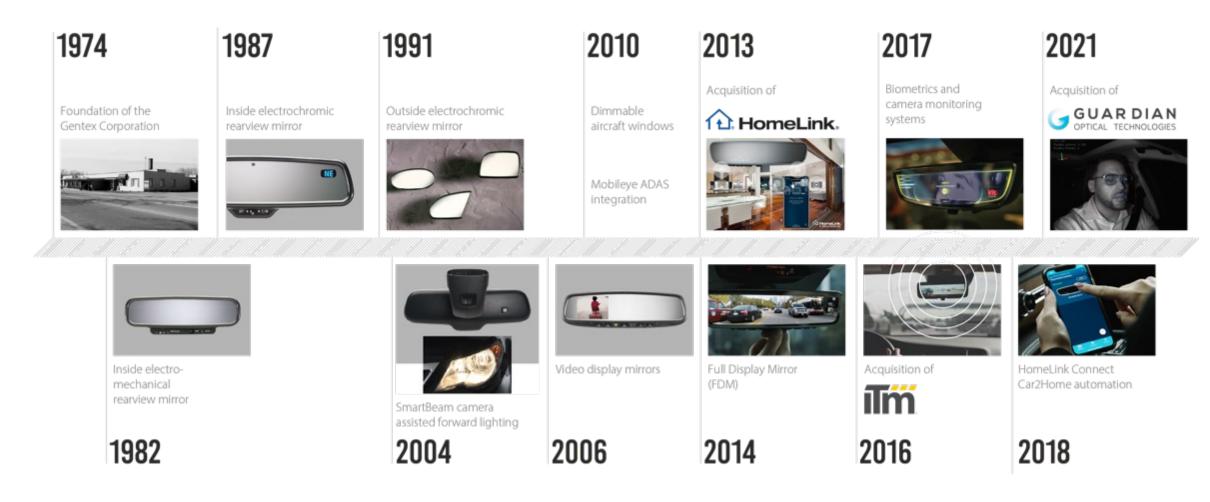
STEVE DOWNING

President & CEO Gentex Corporation

TODAY'S FEATURES, TOMORROW'S TECHNOLOGY



COMPANY HISTORY: MILESTONES





WHY GENTEX



Trusted, long-time supplier of high-quality, innovative, priceable, and OEM-tailored electronic features



Vertically integrated in a wide range of core competencies



Scalable products for OEM integration, accessory programs, and the automotive aftermarket







CORE COMPETENCIES

- Gentex is highly vertically integrated to drive innovation
- We're skilled in:



PRIMARY MARKETS 2,017





715 US Patents 1169 Foreign Patents



60 US Patents 43 Foreign Patents

18 US Patents

12 Foreign Patents



31 US Trademarks 341 Foreign Trademarks

8 US Trademarks 16 Foreign Trademarks





SUSTAINABILITY



CLIMATE CHANGE

SUSTAINABILITY INITIATIVES

SOCIAL RESPONSIBILITY

Carbon neutral by 2049

Energy Waste Stewardship Water Management Transportation Environmental

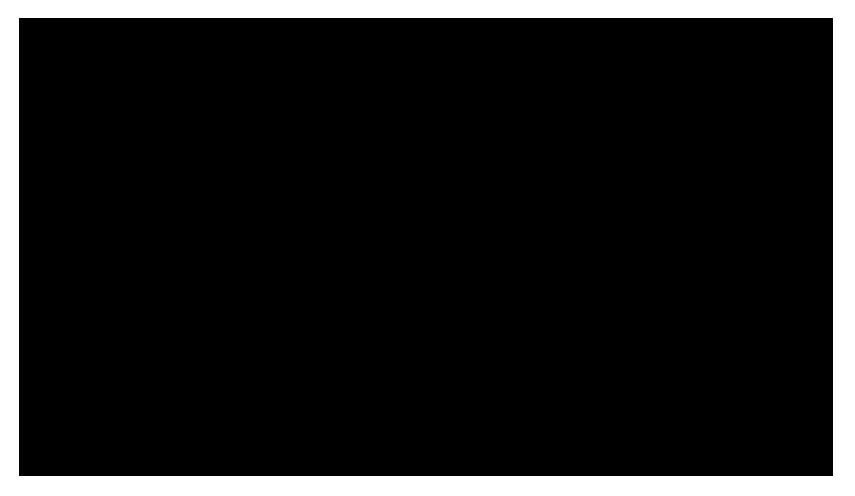
Diversity, Equity and Inclusion Council

Spanish-Speaking Production Lines

Business Resource Groups like 'Women@Gentex'



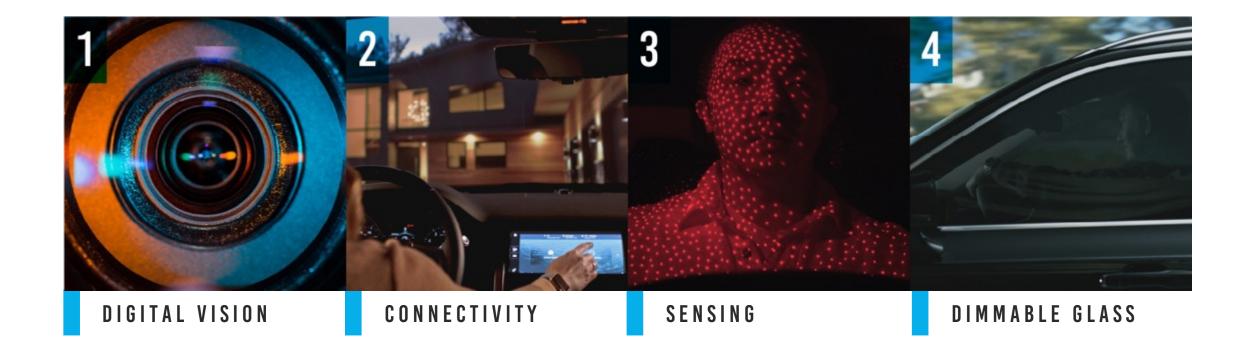
GENTEX CORPORATE OVERVIEW



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PRODUCT PORTFOLIO - AUTOMOTIVE

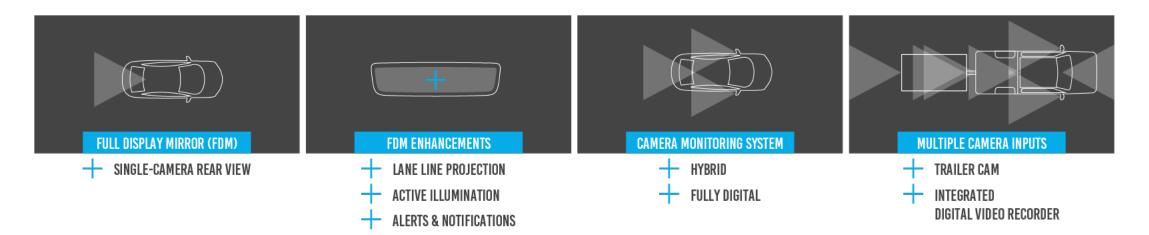




DIGITAL VISION

Gentex is helping the auto industry manage the **evolution** from analog **to digital rear vision**.

Product portfolio:





FULL DISPLAY MIRROR® (FDM®)

- Intelligent rear-vision system
- Custom camera streams live video to unique mirrorintegrated LCD display

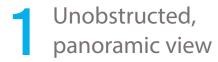
The Camera Feature Drivers Are Looking For!

 Highest feature desirability score in the JD Power 2021 Tech Experience Index StudySM (TXI)

The Industry Benchmark!

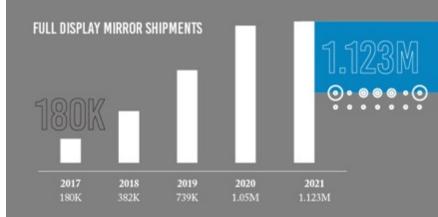
- Shipping for over 60 vehicle models on 16 different brands
- From luxury to mass market; from cars to trucks to SUVs

+ B E N E F I T S









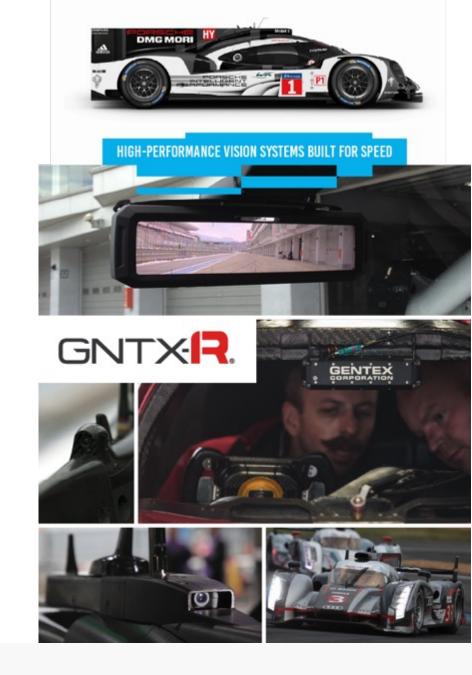




DIGITAL VISION FOR RACE TEAMS

- Gentex provides custom racing FDMs for OEM-sponsored race teams
- Over the years, Gentex has provided digital rear vision systems for:
 - Audi
 - Nissan
 - Toyota Gazoo Racing
 - Toyota Motorsports GmbH
 - Porsche Motorsports
 - Cadillac Wayne Taylor Racing
 - Mercedes Safety Cars
 - CUPRA e-Racer
 - Peugeot

FDM-equipped cars have won the 24 Hours of Lemans, Rolex 24 at Daytona, the 12 hours of Sebring, and other top races



FDM ENHANCEMENTS

- Active Illumination
 - Infrared emitters illuminate rearward scene to improve nighttime vision
- Lane Projection
 - Rearward scene overlaid with dynamic, digitally generated lane lines to improve lane awareness/lane keeping

Possible

customization

- Information Delivery
 - Display alerts and notifications related to the driving task

Increase

safety





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+BENEFITS

Ease the

driving task

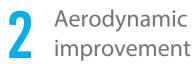


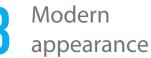
CAMERA MONITORING SYSTEM

- Three cameras provide digital rear and side vision
- Hybrid:
 - Side-view cameras integrated into downsized exterior mirrors with video streamed to inside mirror
- Fully digital:
 - Exterior mirrors replaced with side-view camera pods and curved interior OLED displays

+ BENEFITS



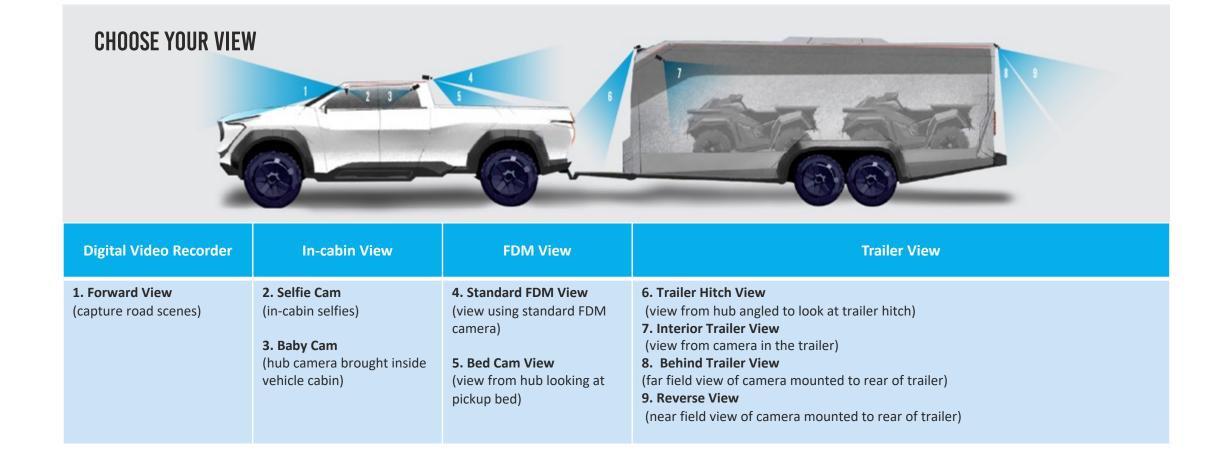








MULTIPLE CAMERA INPUTS

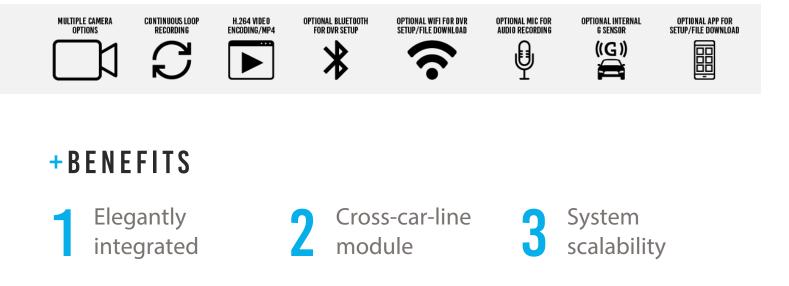


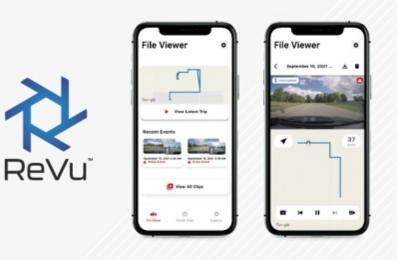


DIGITAL VIDEO RECORDER

- Mirror-integrated digital video recorder (DVR)
- Capable of recording from front, rear and interior cameras
- Scalable product line with core recording functionality and a host of value-added options



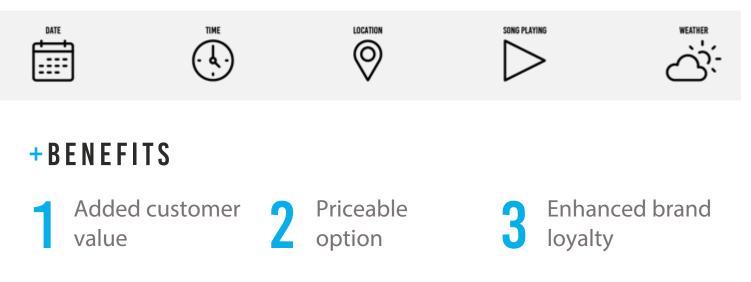






SELFIE CAM

- Mirror-integrated RGB camera facing the cabin for
 - In-cabin selfies
 - Video calls
- Capture the Moment function
 - Combines selfie cam with metadata from vehicle bus (computer network) into social media posts

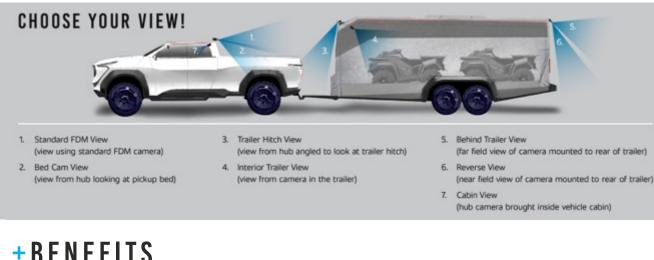






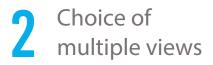
MULTI-VIEW TRAILER CAM

The system relays the video signal from multiple cameras via a trailer-mounted WiFi hub to a WiFi enabled Full Display Mirror





Enhanced vision



System J scalability





CONNECTIVITY

Gentex is **connecting the car** to the surrounding infrastructure through comprehensive, robust, **V2I features** and solutions for the **transactional vehicle**.

Product portfolio:





HOMELINK®

- With HomeLink, users can control
 - garage doors
 - gates
 - lights and more
- Vehicle-integrated programmable buttons operate virtually any type of home automation device
- HomeLink Connect adds additional Wi-Fi-enabled device control via the HomeLink Connect App, allowing users to operate a variety of technologies from their phone.

Secure

connection

+BENEFITS 1 Vehicle integrated 2 Great compatibility 3

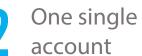




INTEGRATED TOLL MODULE

- Integrated Toll Module[®] (ITM[®]) is a nationwide toll collection technology for factory integration into new vehicles
- Uses a vehicle-integrated, multi-protocol toll tag to provide access to toll roads across the United States, Canada, and Mexico
- Mirror- and dash-integrated versions available
- Eliminates toll-tag windscreen clutter and the need to manage multiple toll accounts
- Shipping for Audi and Mercedes











TRANSACTIONAL VEHICLE

- PayByCar[™]
 - Uses ITM module to detect when a user pulls into a gas station and provides touch-free payment via text.

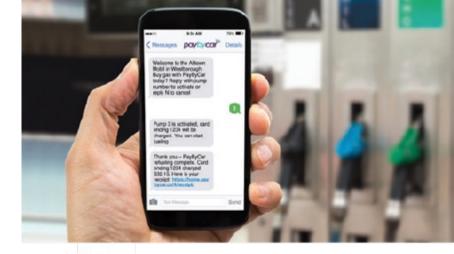


- Simplenight[®]
 - Access a variety of bookable events, hotels, restaurants, and experiences from your connected device.

Growing list

of partners





MOBILE PAYMENT AND E-CONCIERGE TECHNOLOGIES FOR IMMEDIATE IMPLEMENTATION





SENSING

Gentex is shaping the future with it's innovative **sensing technologies** for today's vehicles though the **autonomous age** keeping passengers safe and vehicles up and running.

Product portfolio:





BIOMETRIC AUTHENTICATION

- In-vehicle biometrics system that authenticates the driver
- Cases for authentication:
 - Preset parameters/user modes
 - Driver and vehicle personalization
 - Secure authorization for in-vehicle transactions
- Iris scan
 - Most secure forms of biometric identification, with a false acceptance rate as low as one in 10 million







DRIVER MONITORING

- Mirror-integrated cameras and emitters monitor the driver to:
 - Detect drowsiness
 - Identify distractions
 - Detect sudden sickness
 - Manage transition from automated to manual control in autonomous vehicles level 3







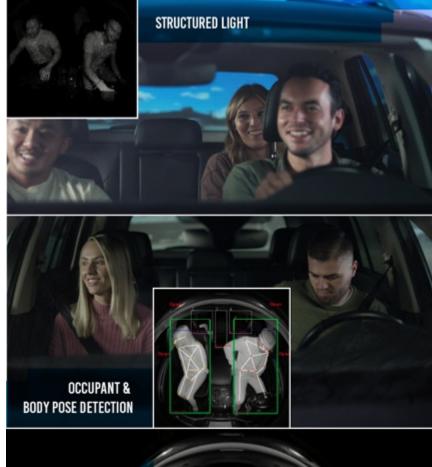
+BENEFITS





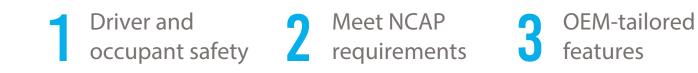
IN-CABIN MONITORING

- 2D, 3D and structured-light-based analytics for determining:
 - Occupant detection/behavior/classification/identification
 - Hands on wheel/vehicle interaction
 - Object left behind
 - Body pose/position/posture detection
 - Micro-vibrations/presence of life





+BENEFITS





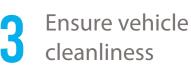
IN-CABIN SENSING

- Particulate sensing
 - In-vehicle smoke detector to detect smoke or vape
- Chemical sensing
 - Nanofiber sensors tuned to detect target chemicals, including explosives, drugs, VOCs, toxic industrial chemicals, amines, and more



+ BENEFITS



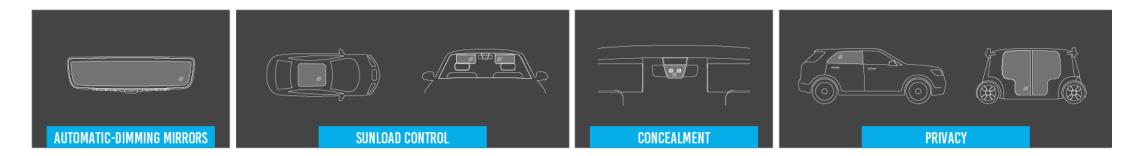




DIMMABLE GLASS SYSTEMS

Gentex is the world's **leading supplier** of **dimmable smart glass**, shipping nearly 42 million dimmable devices annually.

Product portfolio:





AUTOMATIC-DIMMING MIRRORS

- Auto-dimming mirrors are active safety features that eliminate dangerous rearview mirror glare
- Electro-optical components darken the mirrors to the precise level necessary:
 - Sophisticated light sensors
 - Proprietary gels
 - Microprocessor-based algorithms

+BENEFITS





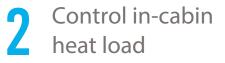


SUNLOAD CONTROL

- Electrochromic glass and film-based solutions
- Manual or automatic switching modes
- Industry-leading dynamic range:
 - > 55% to < 1% visible light transmission</p>
 - Full gray scale control throughout range
- Extremely low haze
- Neutral gray color
- Blocks up to 88% of total solar energy in dark state

+ BENEFITS

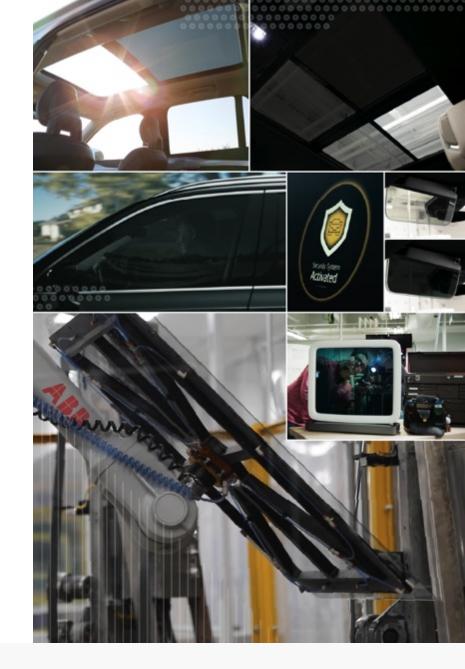




Enhanced vehicle aesthetics

PECIFICATIONS

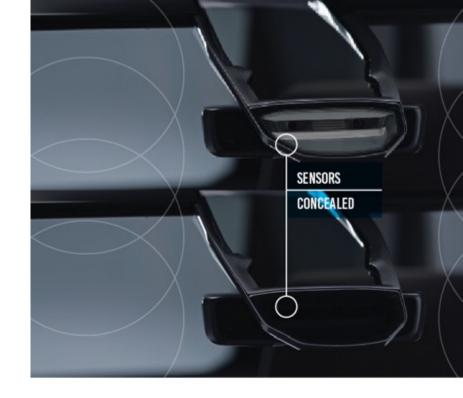
S





CONCEALMENT

- Sensor Shrouds
 - Small, dimmable panels that conceal cameras and sensors for enhanced aesthetics
- Pillar displays
 - Vehicle pillar-integrated display behind dimmable glass
 - Conceals cameras and displays





+BENEFITS





Customer surprise and delight

J



PRIVACY CONTROL

- For the autonomous age, Gentex is working to provide largearea dimmable panels for privacy control
- Demonstrated on the Rinspeed microSNAP, a "last-mile" autonomous concept vehicle for commuting or localized delivery









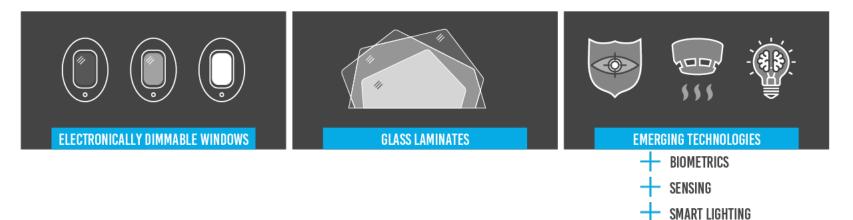




PRODUCT PORTFOLIO - AEROSPACE

Gentex is the world's **leading supplier** of **electronically dimmable windows** (EDWs) for the **aerospace** industry is working to evolve its core technologies to enhance **security**, **comfort**, and **convenience**.

Product portfolio:



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AIRCRAFT WINDOWS & CONTROLS

- Electronically dimmable windows (EDWs) are an electrochromic-based sunlight and heat control solution
- Gentex designs and manufactures all electronics (controller, switch) to ensure robust performance and flawless integration



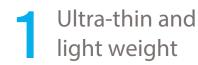




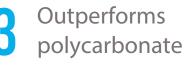
LAMINATES

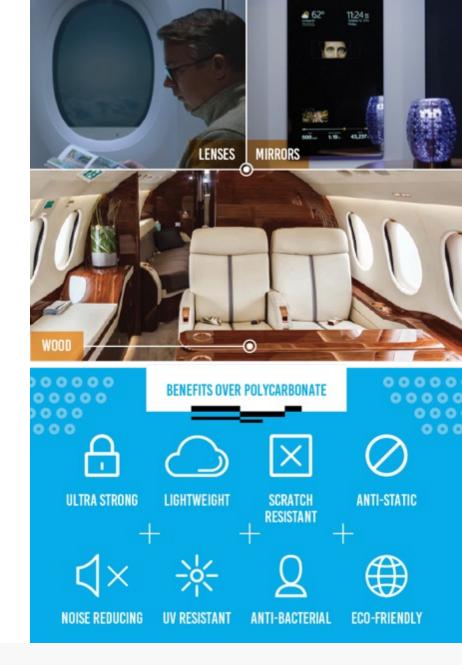
- Glass laminates using a special laminating technique to produce strong, ultra-thin laminated glass sheets
- Meets the rigorous standards set by the
 - Federal Aviation Administration (FAA)
 - European Aviation Safety Agency (EASA)
 - International Civil Aviation Organization (ICAO) and
 - [–] the airline industry.
- Meets and exceeds aircraft specifications in terms of preventing smoke, fire, toxicity, and other potential effects.

+ B E N E F I T S











EMERGING TECHNOLOGIES

- Biometrics
 - The highly accurate iris scanning system allows for added security and convenience during the flight
- Smart Lighting
 - Intelligent lighting uses a combination of CMOS imagers and focused LED pods to shine light when and where it is needed
- Sensing
 - A comprehensive environmental sensing system using a variety of sensing methods to improve security and health on board













PRODUCT PORTFOLIO - FIRE PROTECTION

Gentex was **founded** as a manufacturer of **fire protection products** and is best-known for introducing the **world's first** dual-cell **photoelectric** smoke alarm.





SMOKE DETECTORS AND SIGNALS

- Gentex supplies the commercial fire protection market with:
 - Photoelectric smoke detectors and alarms
 - Carbon monoxide detectors and alarms
 - Audible/visual signaling appliances
 - Bells and speakers
- Millions of Gentex detectors and signals can be found in schools, dormitories, hotels and hospitals throughout North America and the world



Nearly 50 years of fire protection expertise



Quick to detect slow, smoldering fires



PRODUCT PORTFOLIO - MEDICAL

Gentex is cooperating with several partners in the medical industry by transferring the **expertise in vision systems and manufacturing** from automotive to medical applications.





MEDICAL PARTNERSHIPS



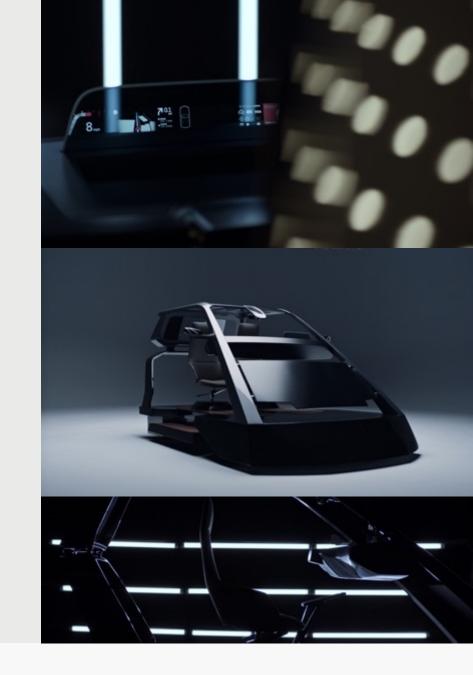
Gentex and eSight are working to develop a wearable vision-assist technology that allows people living with visual impairment to stay on the go while performing daily life tasks. This ongoing development combines our camera and vision systems with advanced lighting components to optimize, control, and direct light within medical and surgical environments.

We are working with Retispec to develop and manufacture tools and systems for early detection of Alzheimer's and other disease biomarkers in the human eye.



FOR MORE INFORMATION

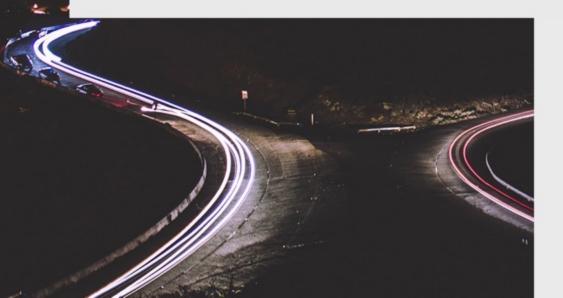
- Check out:
 - <u>www.gentextech.com</u>
 - <u>www.gentex.com</u>
 - www.fulldisplaymirror.com
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- Subscribe to our YouTube channel:
 - <u>https://www.youtube.com/user/GentexCorporation</u>
- Contact your sales representative to schedule a product demonstration or private technology expo







THANK YOU!



GENTEX