UNICEL ARCHITECTURAL | Defining the Space Within®

An ALLEGION Brand

The Clear Advantage

Insulating Glass with Integrated Cord-Free Louvers

unicelarchitectural.com

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Canada & International: 1.800.668.1580
unicel.general@allegion.com

VISION® CONTROL

Freedom to Live Beyond Glass

Vision Control® is a patented, hermetically sealed glass unit combining louvers (operable or fixed) within glass that can be customized to virtually any shape for interior and exterior glazing applications.

Its advanced louvered glazing technology eliminates strings and cords, ensures alignment, requires no maintenance and provides the ideal daylighting or privacy solution for healthcare, commercial, educational, institutional and any non-residential environments. When installed in exterior applications, Vision Control® can significantly reduce energy consumption.

Provides Unprecedented Control

- Heat
- Daylight
- Vision
- Sound

Hospital design and architecture can play an important role in patients' recovery when it comes to privacy and tranquility.

Similarly in school and office design, creating focused spaces for meetings and fostering a sense of well-being without compromising privacy or security is of paramount importance. Integrated louvers meet these requirements for interior partitions, borrowed lites, sidelites, swing doors, sliding doors, and more.

Louvered Glazing Solution

For Unmatched Function and Performance

Infection control

Vision Control's patented technology is an industry leader in providing solutions to control the spread of infections and increase safety for building occupants.

Cord- and string-free design

Ensures perfectly aligned extruded aluminum louvers and eliminates the gradual wear and tear of strings associated with traditional blinds.

Safety

Attack and impact-resistant glazing and adaptable ligature-resistant operators offer enhanced protection.

No maintenance

Eliminates cleaning and maintenance costs.

Dust-free

Hermetically sealed for improved hygiene and reduced allergy risk.

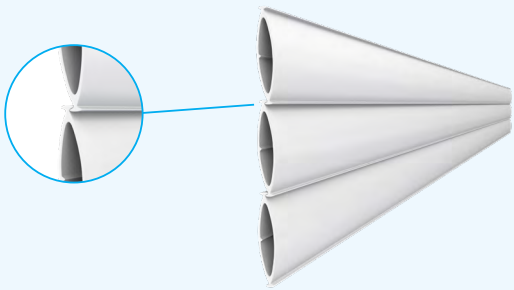
Multi-purpose applications

Eliminates the need for curtains, shades, or blinds for swing doors, sliding doors, sidelights, windows, interior partitions, skylights, and curtain walls.

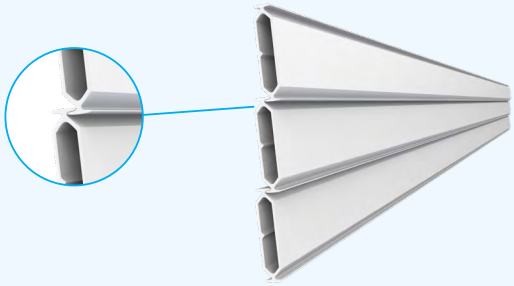
Customize Louvers

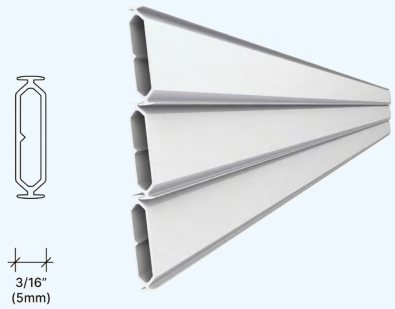
Vision Control® and Vision Control® Mini glass panels are made with unique interlocking hollow-chambered louvers available in different shapes and sizes to suit a wide range of interior and exterior applications.

Vision Control®



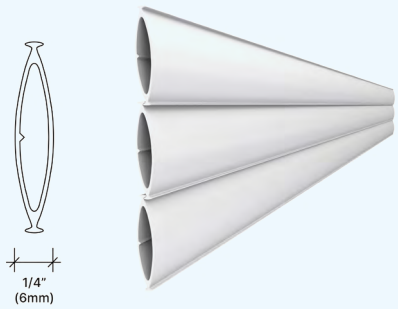
Vision Control® Mini





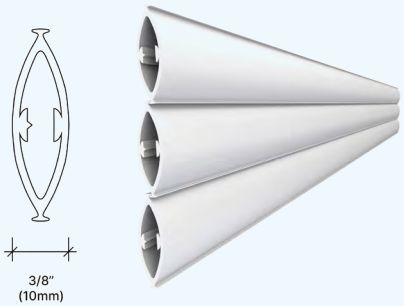
3/16" (5mm)

7/8" x 3/16"
(22mm x 5mm) thick to a maximum glass width of 48" (1,219mm)



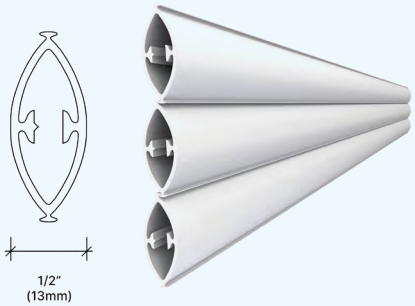
1/4" (6mm)

1 3/8" x 1/4"
(35mm x 6mm) thick to a maximum glass width of 48" (1,219mm)



3/8" (10mm)

1 3/8" x 3/8"
(35mm x 10mm) thick to a maximum glass width of 58" (1,473mm)

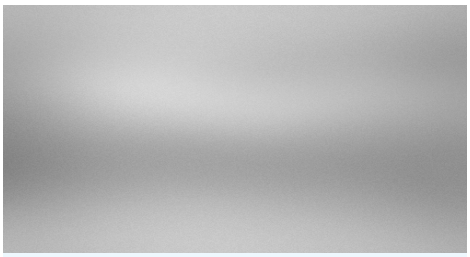


1/2" (13mm)

1 3/8" x 1/2"
(35mm x 13mm thick to a maximum glass width of 68" (1,727mm)

Vision Control® Louver Color Options

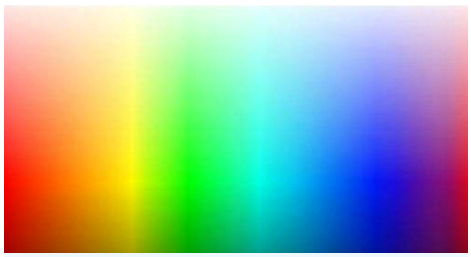
Vision Control® and Vision Control® Mini louvers are made of standard baked-enameled Duracron, available in the following colors:



Duracron Metallic Grey K-20794

Duracron Glossy White K-1285

Best suited for exterior applications.



Custom Colors, Color Matching

For exterior applications, color must remain light, not dark, to avoid heat build-up inside the units.

Vision Control® Glass Types

Available in double or triple glazed units and custom-manufactured with any of these glazing types:

Tempered glass	Laminated tempered glass
Low-E glass	Fire-rated glass
Radiation protection Lead glass	Laser protective glass
Security glass	One-way mirror glass
Tinted glass	Glass-clad polycarbonate / ballistic or detention glazing
Printed glass	Ceramic frit or translucent glass

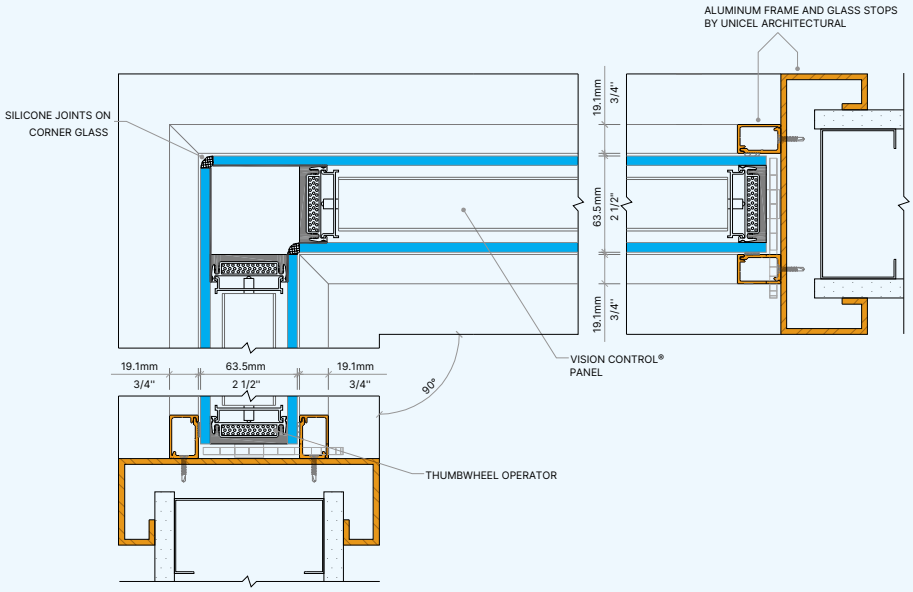
Standard Polycarbonate and scratch-resistant polycarbonate

Vision Control®
Interior Wall Applications

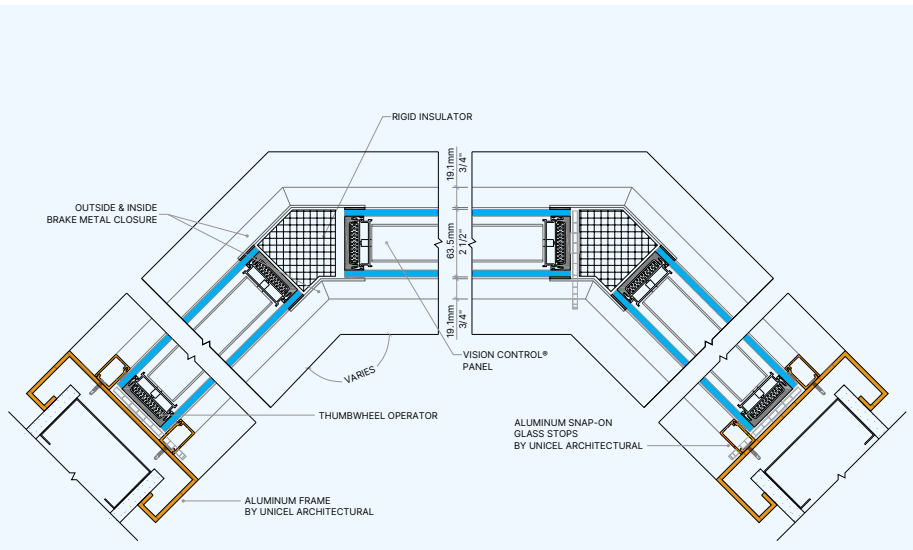
Transform your space with our patented Vision Control® glazing solution, designed to enhance both functionality and aesthetics.

Ideal for healthcare facilities and institutional environments (schools, museums, auditoriums, banks, offices and more), Vision Control® provides unlimited design options for interior use and adapts to a multitude of applications.

Two-panel Alcove



Three-panel Alcove

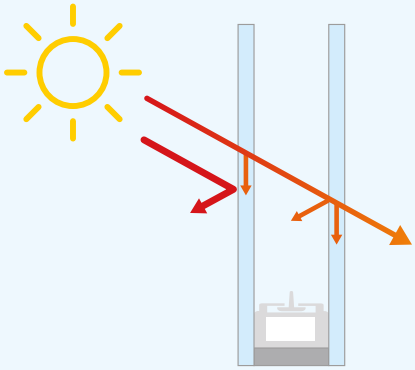


How the System Works

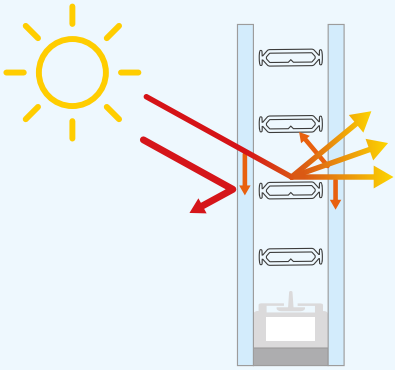
Daylighting design

Blocks unwanted glare, heat and harmful UV rays while maximizing entry of light further into the space to reduce the need for artificial lighting.

Normal



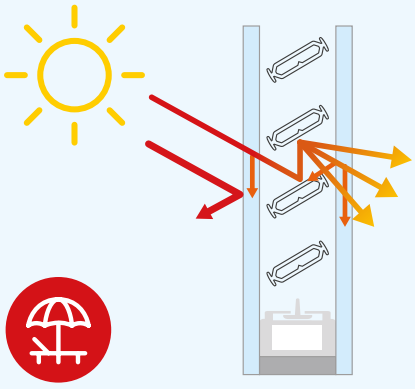
Best view to exterior and daylighting



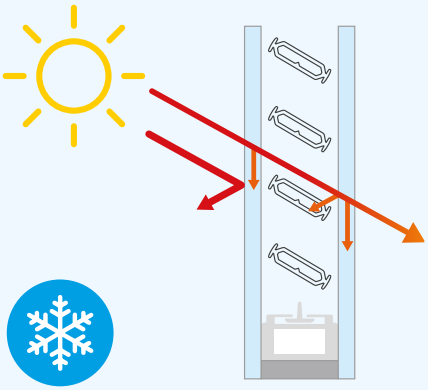
Solar heat control

Ensures optimal thermal performance to reduce HVAC costs and energy consumption.

Summer
Cut off direct sunrays



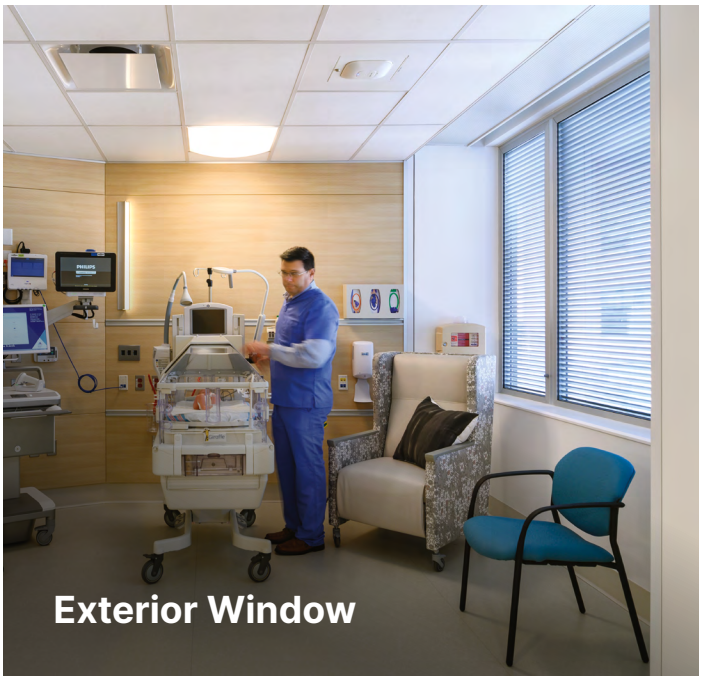
Winter
Maximize solar heat gain

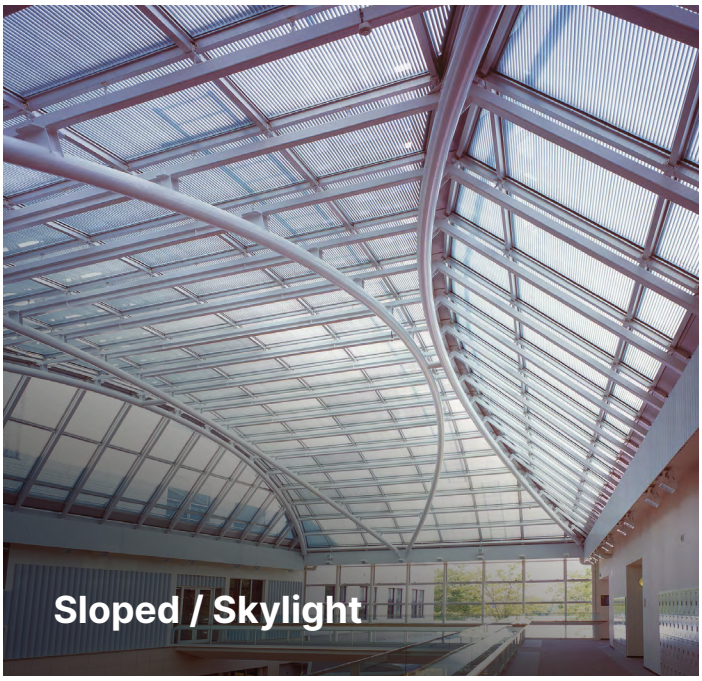


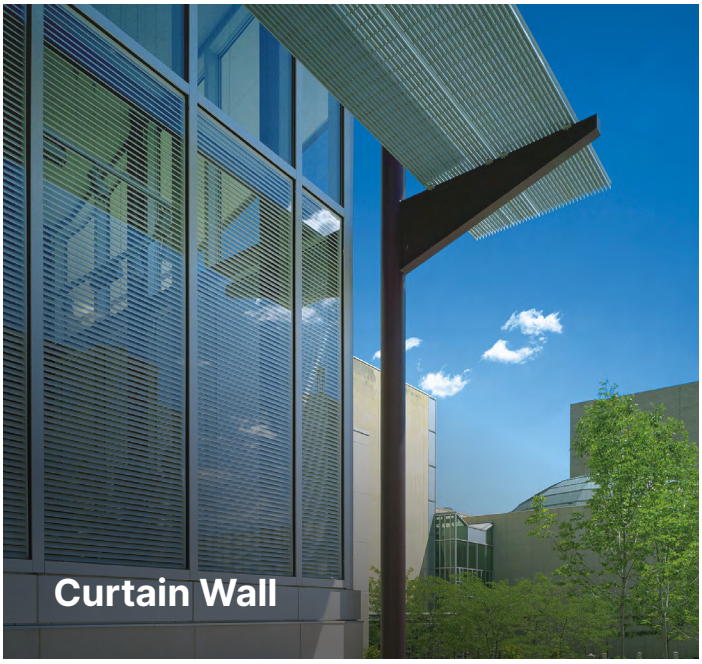
Vision Control® for Exterior Applications

The rigidity and perfect alignment of Vision Control® cordless louvers make it ideal for sloped glazing.

Apart from its aesthetic value, Vision Control® provides significant thermal performance, substantial energy savings, diffused daylighting and reduced glare. Thanks to its high STC ratings, Vision Control® is the ideal louvered glazing product which helps block harmful UV rays and provides effective sound control in exterior windows, curtain walls, skylights, and much more.







Key Benefits

Vision Control® reduces excessive solar heat, thereby reducing air conditioning costs.

Provides incomparable comfort and higher energy-saving performance throughout the year. Low-E glass

Vision Control® is the ideal louvered glazing solution for sound control in applications where street noise and air traffic are a problem.

The rigidity of the Vision Control® louvers — whether horizontal or vertical, is ideal for any glazing/skylight applications. It eliminates sagging or bending often seen with blinds and roller shades.

Vision Control® for Door Applications

Sliding Door

Vision Control® Mini is ideal in healthcare environments where sliding doors move incessantly.

Ensures perfectly aligned louvers that deliver blade position uniformity and precision regardless of activity.

Swing Door

Vision Control® can be installed as vision lights in wood, steel, and aluminum doors of 1 ¾" (44mm) or 2" (51mm) in thickness.

Operable on one or both side(s), it eliminates curtains, shades or any other type of Venetian blinds that flap continuously or get damaged by the closing and opening of the door.

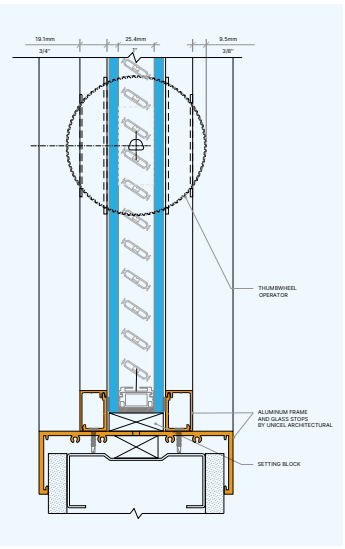
New Door trims

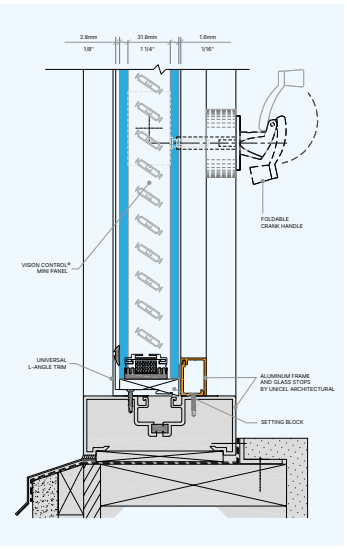
Offers more sleek, contemporary design to suit project design requirements and spend less time cleaning.

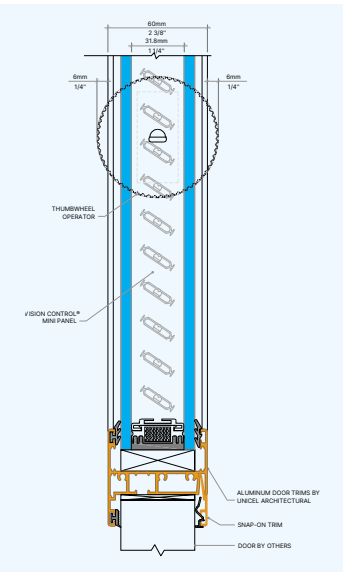
Vision Control® Mini for Limited Glazing Depth Applications

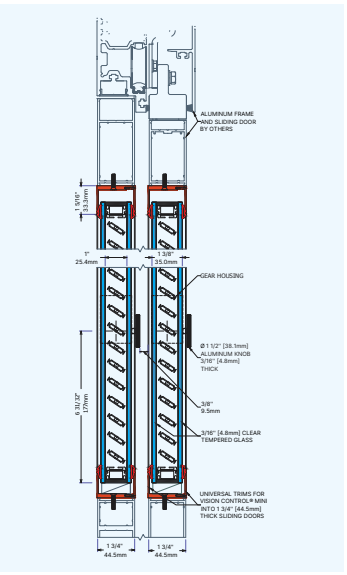
In glazing applications where glass pocket depth is limited, Vision Control® Mini is ideal.

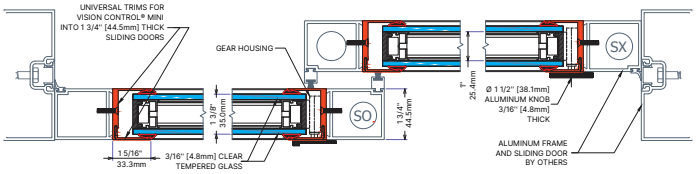
It is also completely customizable – featuring multiple high-speed, self-reversing control mechanisms, including ligatureresistant and automated programmable options — for sliding doors, swing doors, interior windows, and other interior or exterior applications.











Behavioral & Mental Health

Creating a Safe and Secure Environment

Unicel Architectural has a strong track record of supplying Vision Control systems to many behavioral and mental health centers across the USA and Canada.

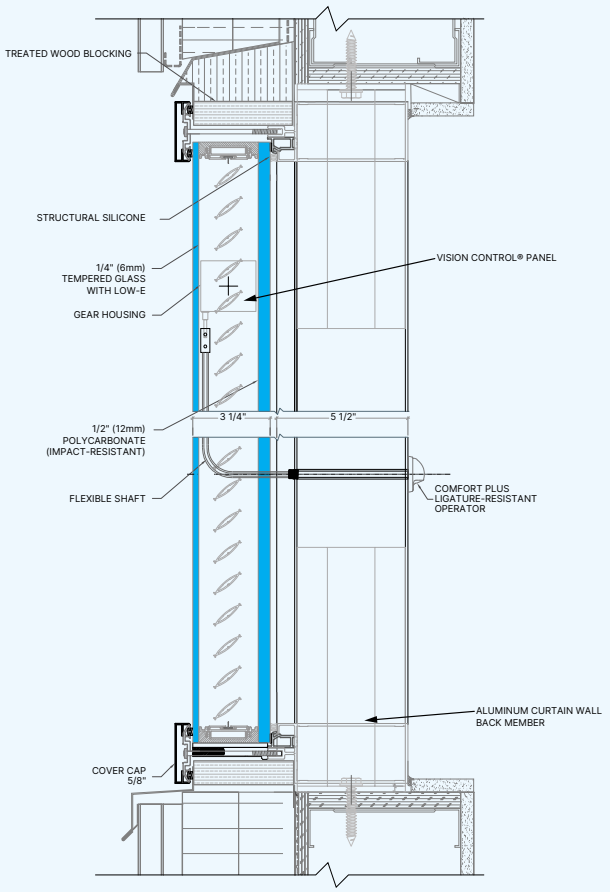
It is now the gold standard in cord-free integrated louvered glazing that provides safety, comfort and natural light along with control of vision, temperature, light, and sound.

Behavioral & Mental Health

Noise, Daylight & Patient Privacy

In behavioral health design, sound attenuation is important to maintain a calm and stress-free healing environment – a crucial feature for the safety and treatment of patients. Vision Control® in both interior and exterior applications provides staff the discreet visual observation of patients while optimizing natural daylight and temperature elements.

Meets HIPAA requirements for doctor-patient privacy

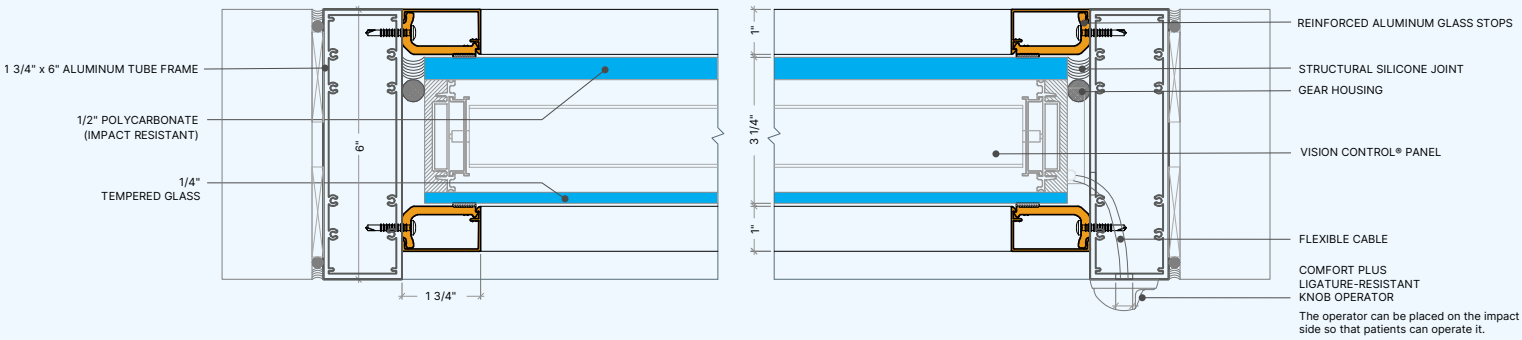


Patient & Staff Safety

Attack-resistant glazing and adaptable ligature-resistant operators are designed to meet the unique requirements of behavioral and mental health facilities to ensure patient and staff safety. Vision Control® has passed the AAMA 501.8 Behavioral Health Tests for 2,000 ft-lbs of human impact on both interior and exterior applications, and is listed in the New York State Office of Mental Health (NYS-OMH) Patient Safety Standards, Materials and Systems Guidelines.

Vertically oriented louvers help ground behavioral health patients, a feature that is only available with Vision Control

Impact Side



Behavioral & Mental Health

Behavioral Health Operators for Vision Control®

Redefine architectural possibilities with these diverse range of ligature-resistant operators designed for behavioral health applications:

Easy to use

Offer better protection to patients and staff in behavioral and mental health hospitals

Sleek designs that deliver precise and effortless control

Ligature-Resistant Comfort+ Knob

Delivers precise and effortless control of louvers.

ADA Compliant	Ligature Resistant	Accessible in one or two-sided behavioral health applications

Ligature-Resistant Parabolic Knob

Delivers precise operation.

ADA Compliant	Ligature Resistant	Accessible in one or two-sided behavioral health applications

Remote Control

Provides quick and precise control for multiple panel and out-of-reach installations.

ADA Compliant	Ligature Resistant	Accessible in one or two-sided behavioral health applications

L.A.S.E.R Radiation Protection

The Ultimate Solution to Protect Medical Professionals

With the increasing use of lasers in the medical field, the need for reliable and effective laser protection is more crucial than ever. Vision Control® provides an innovative and reliable solution that ensures optimal protection against harmful laser exposure.

Our product is ideal for use in various healthcare facilities for diagnostic, cosmetic, preventative, and therapeutic applications such as surgery. It is suitable for use with a wide range of laser systems, including CO2, YAG, Fiber, KTP, Holmium and Excimer lasers, making it an essential component of any laser protective housing scheme.

Patented, Proprietary Technology

Up to 20-Year Warranty

Highly Cost-Effective: Pays for Itself

Germ-Free, Dust-Free and Maintenance-Free

Blocks Lasers Used in Medical Applications

Ensures Hygiene, Privacy and Comfort

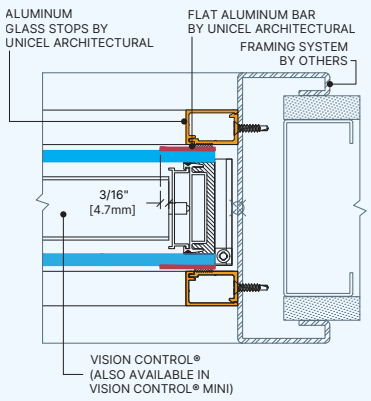
L.A.S.E.R Radiation Protection

The intrinsic nature of the Vision Control® or Vision Control® Mini louvers, being made of extruded aluminum, naturally blocks the following laser types. This eliminates the need for cost-prohibitive laser protective acrylics or films.

Laser type	Wavelength	Output Power	Exposure Duration	Angle from Normal	Measured TΛ	OD
CO2	10.6 um	100W cw	10 sec	0º, +45º, -45º	No transmittance	N/A
YAG	1064 nm	100W cw	10 sec	0º, +45º, -45º	No transmittance	N/A
Fiber	810 nm	100W pk	10 sec	0º, +45º, -45º	No transmittance	N/A
KTP	532 nm	100W cw	10 sec	0º, +45º, -45º	No transmittance	N/A
Holmium	2100 nm	100W pk	10 sec	0º, +45º, -45º	No transmittance	N/A
Excimer	353 nm	100W pk	10 sec	0º, +45º, -45º	No transmittance	N/A

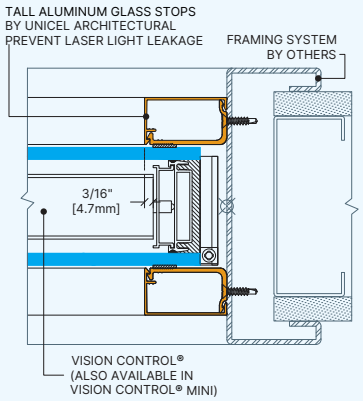
Option 1

Interior partition with flat bar



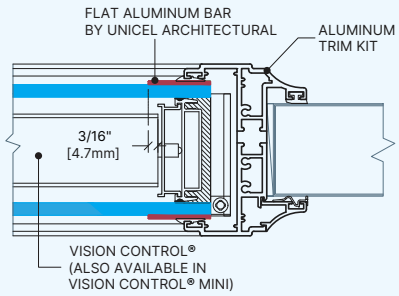
Option 2

With tall glass stops



Option 3

Door trim with flat bar



When the louvers are in closed position, they can block a wide range of lasers used in medical applications, operating in pulsed or continuous mode and up to 100W beam intensity.

To block laser beams in medical applications, the interlocking louvers must be at the fully closed position. Flat aluminum plates or tall glass stops must also be installed on the vertical glass edges. This ensures no laser light leakage through the vision panel.

ATTENTION: Laser radiation protection is only guaranteed when unit is installed in accordance with the manufacturer's installation instructions, the unit is in the closed position, and the trim is installed. This product complies with the requirements for protective housing schemes of IEC/EN 60825-4-2009-06.

Vision Control® with X-ray Shielding: Superior Safety and Privacy Experience

Why Choose Vision Control® with X-ray Shielding?

Reliability
Depend on our robust design that guarantees uninterrupted performance and peace of mind.

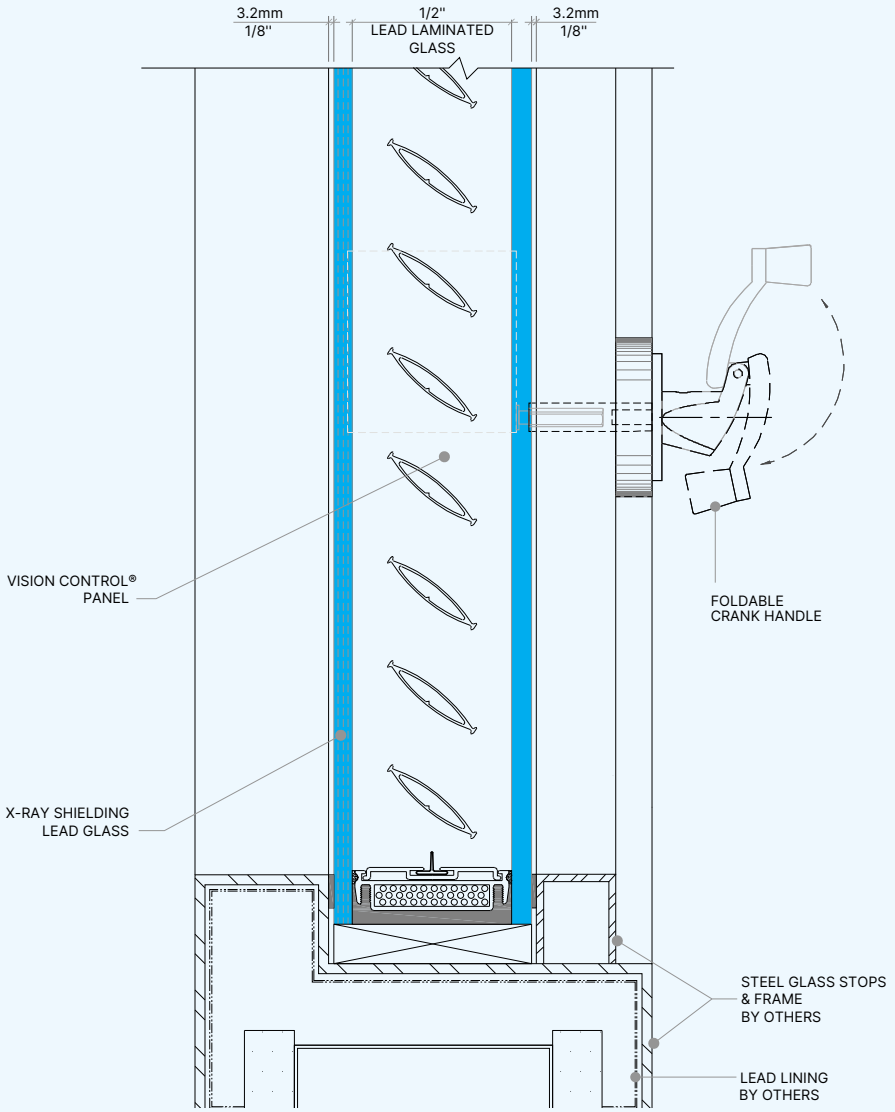
Customizable Solutions
Tailor our product to meet specific needs with a variety of configurations and options.

Expertise and Support
Benefit from Unicel Architectural's decades of experience in delivering high-quality architectural solutions.

Key Benefits

Enhanced Safety
Vision Control® combined with lead glass meets stringent safety standards.

Versatile Applications
Ideal for hospitals, clinics, research facilities, and other environments where radiation shielding is paramount.

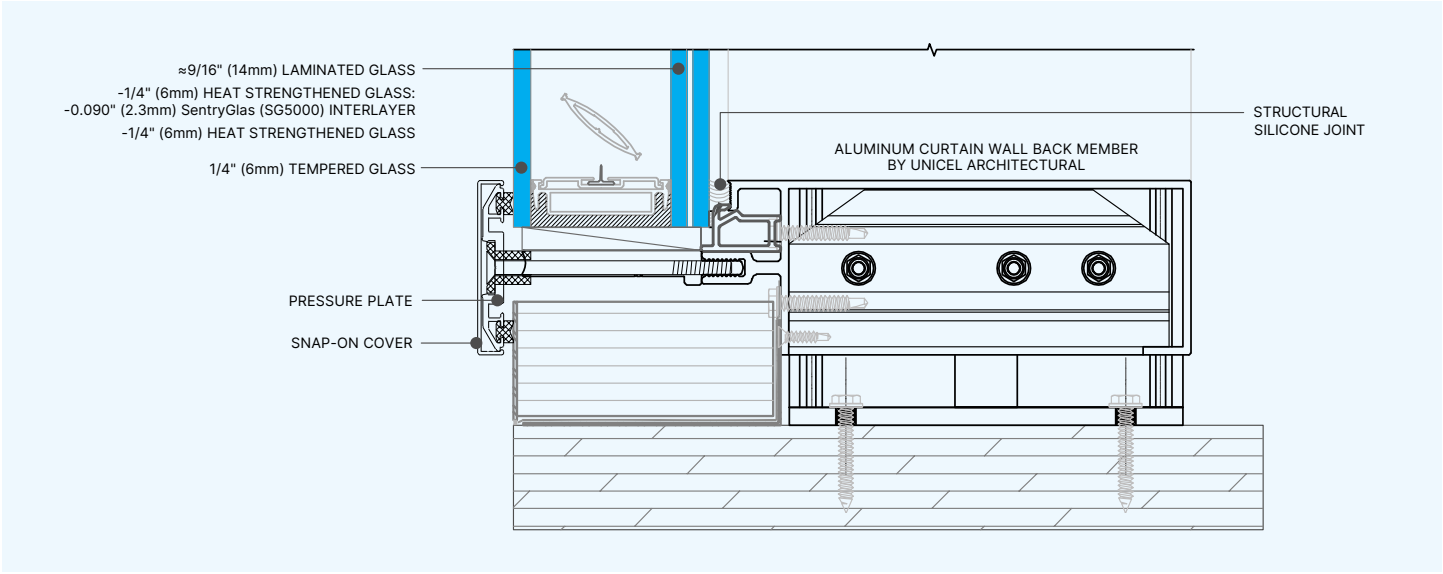


Huricane System

Safeguard Against Dangerous Storms with our NEW Hurricane Rated Insulating Glass Units (IGUs)

With the advent of more frequent and powerful storms, glazing that can resist the punishing high winds of a hurricane or tropical storm has become more important than ever.

The latest edition of Vision Control® advanced louvered glazing are certified to withstand hurricanestrength winds and made from multiple glass panes reinforced with a polymer layer. Impact-resistant hurricane-rated windows do not shatter when broken and do not require building owners to install additional storm shutters or other protective devices.



Protect Property and its Occupants Before Disaster Strikes

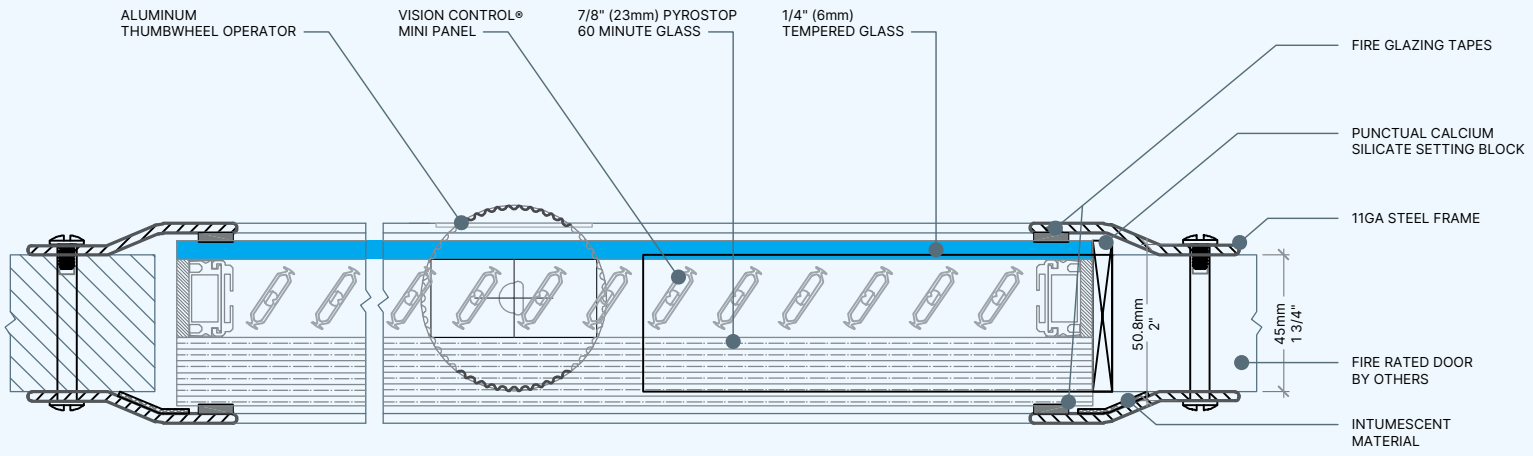
Unicel Architectural's hurricane-rated insulating glass units — including those outfitted with Vision Control® and Vision Control® Mini — have received certification for high-velocity hurricane zone (HVHZ) and wind zone 4 (missile level D). Reference: ASTM E1886 and ASTM E1996

Fire Rated Systems

The Perfect Solution for Safety and Privacy Control

Our fire-rated IGU with integrated, cord-free louvers is the perfect solution for buildings that require both fire protection and privacy control. Vision Control® and Vision Control® Mini made with Pilkington Pyrostop® fire-rated glazing provide unprecedented privacy control with fire ratings of **20, 45, 60, and 90 minutes** for doors, windows, transoms, and sidelights.

Vision Control® for interior fire-rated and smoke barrier doors



Fire Rated Systems

Vision Control for Fire-rated Interior Partitions

Key Benefits

Transparent Fire Shield

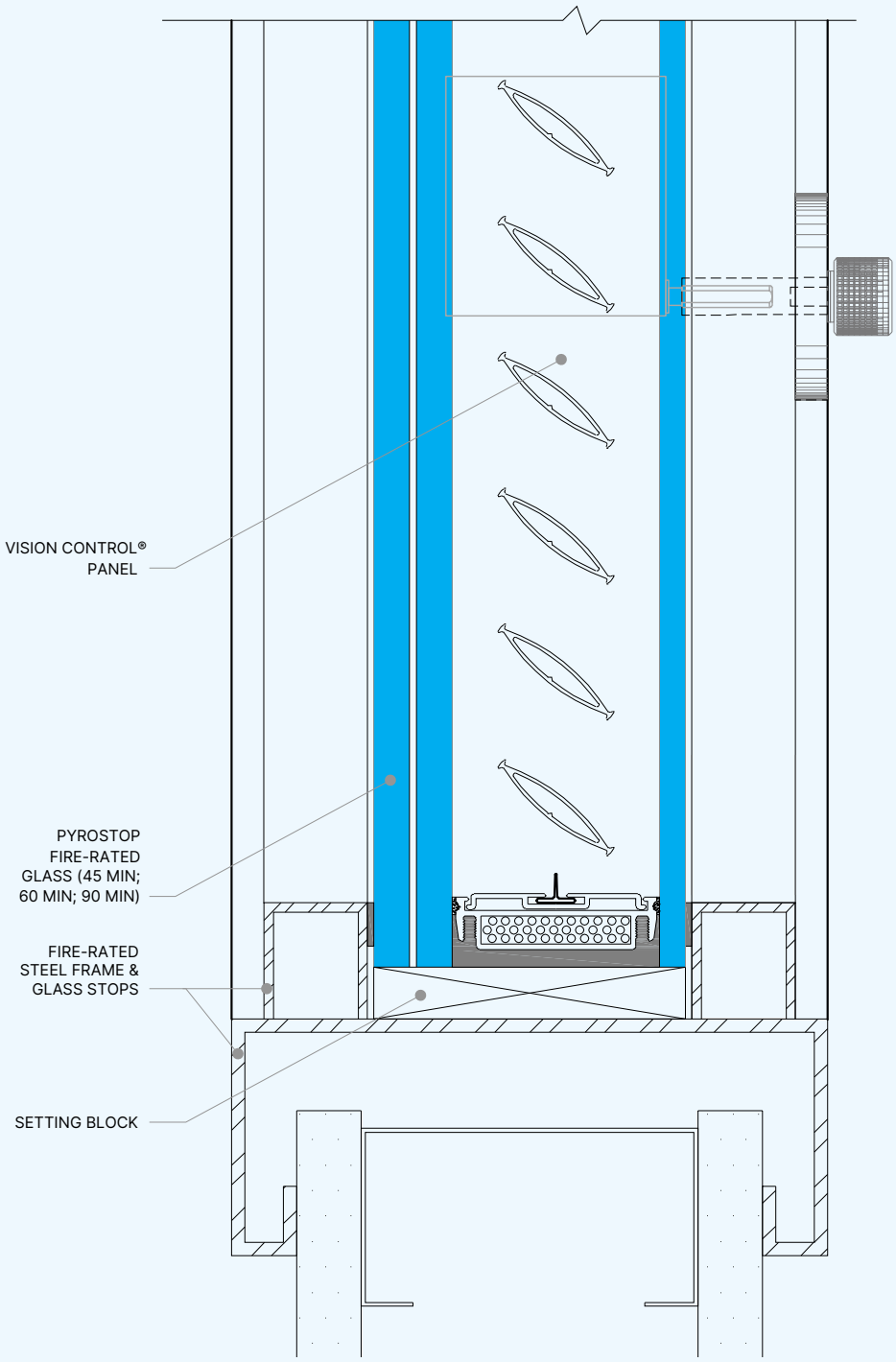
Pilkington Pyrostop® provides clear, unobstructed views while maintaining fire safety, ensuring both visibility and protection.

Integrity and Insulation

The glazing not only stops the passage of flames but also insulates against heat, protecting people and assets on the other side of the glass.

Durability and Longevity

Pilkington Pyrostop® is designed to maintain its fire-resistant properties over time, offering longterm peace of mind.



Operators

Features

Vision Control®'s cord-free design features multiple control mechanisms

Includes ligature-resistant and programmable options

Select operators can be made with long-lasting plastic, zinc, brass, or aluminum

Benefits

Select models provide high-speed and self-reversing mechanisms

Operators can be made accessible from one or both sides of a window

Select models are especially well-suited for areas with limited space

Manual Operators

Various models offering high-speed, self-reversing operation and accessibility in two-sided applications.

Ligature-Resistant Comfort+ Knob

Delivers precise and effortless control of louvers.

- ADA Compliant
- Ligature Resistant
- Accessible in one or two-sided behavioral health applications

Ligature-Resistant Parabolic Knob

Delivers precise operation.

- ADA Compliant
- Ligature Resistant
- Accessible in one or two-sided behavioral health applications

Crank Handle

Easy to grab handle delivers quick operation.

Removable option also available

- ADA Compliant
- Ligature Resistant
- Accessible in one or two-sided applications

QuickGlide™

High-speed, slim design operator delivering precise and effortless control.

- ADA Compliant
- Ligature Resistant
- Accessible in one sided applications

Manual Operators

Various models offering high-speed, self-reversing operation and accessibility in two-sided applications.

Flat Aluminum Knob

Designed for sliding doors.

ADA Compliant | **Ligature Resistant** | **Accessible in one or two-sided applications**

Thumbwheel

High-speed operation suitable for limited spaces.

ADA Compliant | **Ligature Resistant** | **Accessible in one or two-sided applications**

Aluminum Knob (Knurled or Smooth)

Delivers precise operation.

Removable option also available

ADA Compliant* | **Ligature Resistant** | **Accessible in one or two-sided applications**

* Knurled knob is ADA-compliant.

Automated/Programmable Operators

Models offering quick and precise control for multiple panel and out-of-reach installations. Ideal for large-scale projects and intelligent buildings.

Remote Control

Provides quick and precise control for multiple panel and out-of-reach installations.

- ADA Compliant
- Ligature Resistant
- Accessible in one or two-sided applications

PLC Computerized System

Programmable and highly accurate system for large-scale projects and intelligent buildings. Can be connected to energy management systems.

- ADA Compliant
- Ligature Resistant
- Accessible in one or two-sided applications

Ligature-Resistant Touchless Sensor

Ideal for behavioral health applications. Switch finish may vary.

- ADA Compliant
- Ligature Resistant
- Accessible in one or two-sided applications

UNICEL ARCHITECTURAL | Defining the Space Within®

An ALLEGION Brand

Unicel Architectural's Vision Control® advanced glazing with integrated cord-free louvers is the ideal solution for the most discerning architectural projects requiring:

- ✓ **Infection control**
- ✓ **Maximized natural light**
- ✓ **Adjustable privacy**
- ✓ **Control of solar heat gain**

Applications

- Interior / Exterior Walls
- Sliding / Swing Doors
- Behavioral & Mental Health
- Hurricane Rating
- Fire / Smoke Rating
- Laser Rating

Markets

- Healthcare
- Education
- Commercial Institutional
- Correctional Facilities

Scan QR code for quick access to **Vision Control®** product information

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