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PanoraView

for a better view





A Better View?

Operable glass applications are not new. They provide aesthetically pleasing views and access to the great outdoors through kinetic architecture. But they have also come with limitations—until now.

PanoraView represents a new paradigm in retractable door, window, and wall systems. Simply put, it's a better view.

Why?

It's our unique vertical motion. Libart has always meant "motion in architecture." PanoraView extends this legacy with vertical retraction. Imagine a glass wall that virtually disappears or a glass door that slides up and out of the way without taking up floor space. Or, for the integral safety of a glass railing, such as for window systems, PanoraView slides panels down.

In any of these situations, PanoraView provides a **better view** through natural daylighting, a better utilization of floor and ceiling space, and even a better air ventilation scheme.

For extended application flexibility, PanoraView options include integrated and automated screens and shades! Integrated screens help you achieve natural ventilation and airflow without bothersome insects or other pests. And integrated, solar control shades offer protection from too much uncomfortable sunlight and harmful UV radiation.









We have been serving the building construction industry with operable solutions for over 20 years, with manufacturing centers located on 3 continents and dealers in more than 25 countries.

Our corporate mantra is "Motion in Architecture." What that means to you is *Indoor Comfort and Outdoor Freedom*!







About Libart

Libart designs and manufactures kinetic architectural systems for discerning architects and professional clients from around the world.

Our aluminum and glass retractable structures are innovative, functional, and aesthetically attractive. The product offering includes freestanding and lean-to kinetic enclosures, round kinetic enclosures, large span enclosures, retractable roofing systems and skylights, and retractable glass windows, doors, and walls. They are used in restaurants, cafes and hotels, sports venues, commercial and residential pools, patios, and industrial facilities.

The turn-key service we provide covers the entire process of the retractable structure from product design and fabrication, to project engineering, installation, and service. Our carefully engineered designs, with glass or polycarbonate glazing and aluminum framing, are easy to install, easy to use, and durable.

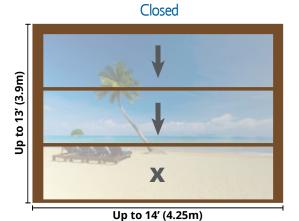
Panora Vie

Operating Modes

Standard sizing parameters are depicted. However, PanoraView can extend beyond these parameters depending on the project-specific applications. Custom designs are available to suit the project requirements, building codes, and wind considerations.

PanoraView Window System

- Operates from top to ground
- Forms a glass railing which can be designed to a requested height
- Uses 1, 2, 3, or 4 panels (Single panel systems recess below floor or into wall.)



Open

PanoraView Door or Wall System

- Operates from bottom to top
- Net opening creates door or wall passageway
- When fully open, bottom panels stack behind the top, fixed panel







Carolina Ale House



University of Cincinatti Nippert Stadium



Dark Hill Hotel - Istanbul



Carolina Ale House



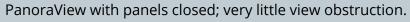
University of Cincinatti Nippert Stadium



Dark Hill Hotel - Istanbul

PanoraView







PanoraView with panels open; no view obstruction.

Vertical Vs.

PanoraView with Vertical Retraction

- No-sacrifice panoramic views
- Optimized space utilization
- Custom control natural ventilation
- Integrated daylighting and insect control
- Integral glass safety railing



Better space utilization than folding



PanoraView with panels open or closed; no restrictions to space usage.



Key Benefits

and Corresponding Features

Application Flexibility

- ❖ Installs as 1, 2, 3, or 4
- Integrates automated screens and shades.

- Panels slide up (or down) and out of the way.
- No need to accommodate folding or horizontal sliding panels.
- Greater window and glass wall seating leads to greater revenue potential.

Quality, Durability & Performance

- * Panels slide up (or down) and out of the way.
- There are no framing crossmembers to obstruct views.

Increased **Space Utilization**

Constructed of insulated glass

aluminum profiles.

with interlocking and thermally broken

Innovative screw drive system eliminates

chains, cables, and counterweights.

o Provides excellent thermal

o Prevents hot or cold spots

and condensation. ❖ 6063-T6 custom aluminum framing is electrocoated in 5 standard and dozens of custom colors.

maintenance intensive belts,

Better Views

Traditional Approaches



Sliding glass panels closed; some view obstruction.



Sliding glass panels open; continued view obstruction.

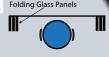
Horizontal Retraction



Folding panels open; restricted space usage (costs you money).

Sliding & Folding Systems

- Obstruct views when closed and limit views when open
- Restrict useable space
- Do little to *control* airflow
- Typically can't integrate both shading and screening
- Requires separate safety railing when open



6 Panora View

Better ventilation control than sliding or folding panels



PanoraView with panels open.



Too much wind? PanoraView can protect from it while regulating the amount of fresh air.



Open or partially closed, sliding panels can't regulate fresh air *and* control for wind.

Horizontal Retraction



Traditional Approaches

Open or partially closed, folding panels can't regulate fresh air *and* control for wind.

Vertical Vs.

Better daylighting and insect control with integrated shades and screens



Too much sun? PanoraView can integrate shading that can operate with the glass panels open or closed.



Insects or other pests? PanoraView can integrate screens to continue the outdoor experience for your interior guests.

Too much sun or too many insects? Sliding and folding systems typically can't integrate both shades and screens.

Sliding & Folding Systems

- Obstruct views when closed and limit views when open
- Restrict usable space
- Do little to *control* airflow
- Typically can't integrate both shading and screening
- Requires separate safety railing when open