STURDIGLASS - Videowall

The Sturdiglass option for Easy-4K video wall displays improves screen durability without compromising viewing experience. GPO Display uses the latest in optical bonding technology to affix high-grade, durable protective glass to the LCD surface. This ensures a strong, long-term bond that won't "bubble" or peel, even in the most demanding of applications.

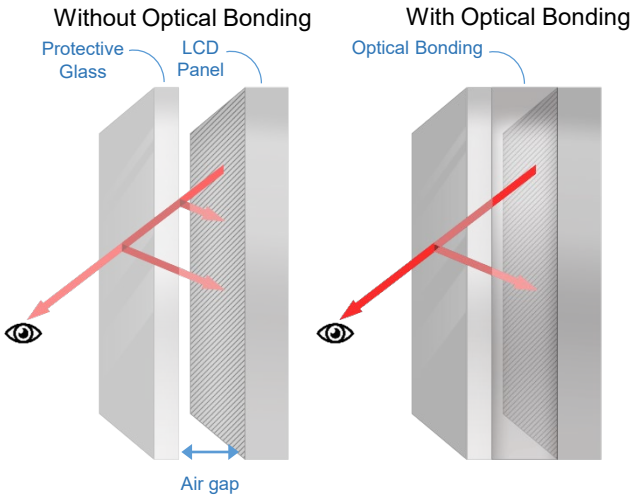
Sturdiglass is ideal for displays placed in high-traffic, public settings where there is a high risk of impact. Touch video walls also benefit from Sturdiglass technology, with none of the internal reflection or parallax error that comes with installing separate pieces of protective glass in front of LCD panels. Optical bonding also prevents dust and moisture buildup associated with separate protective glass.

GPO DISPLAY

Features

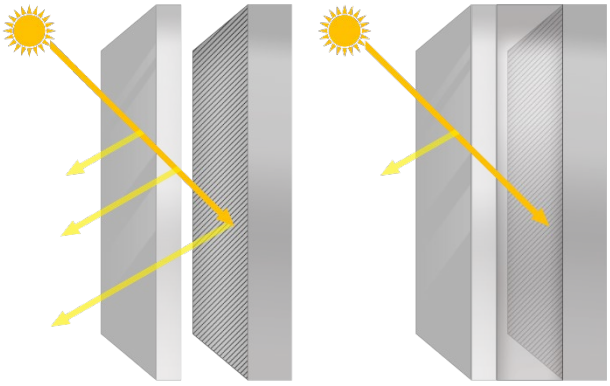
Clarity Increase ↑

When separate protective glass is used, there is a small gap between the LCD panel and glass. This means that light bends when it passes through the air gap. This results in a loss in its intensity, affecting the screen's readability. Sturdiglass eliminates this issue entirely, providing unparalleled clarity.



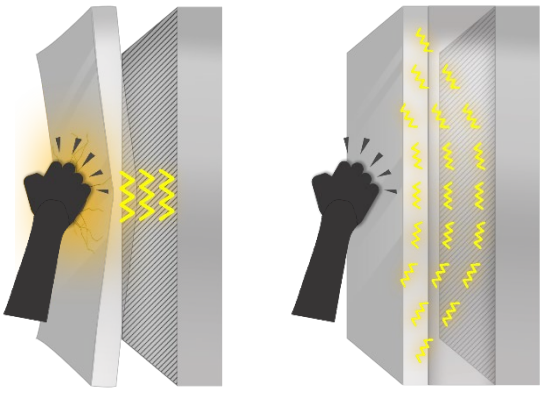
Glare Reduction ↓

Sturdiglass video walls feature Anti-Glare (AG) coating, allowing for their placement in a wider range of environments than other protective glass solutions. The elimination of the air gap between glass and LCD panel also means you will never have to contend with any *internal* reflection issues, either.



Durability Increase ↑

The additional resin layer in Sturdiglass' optical bonding provides increased physical durability to the LCD screen. Eliminating the gap between the LCD module and the panel increases the screen's resistance to scratches, dust, and fluids.



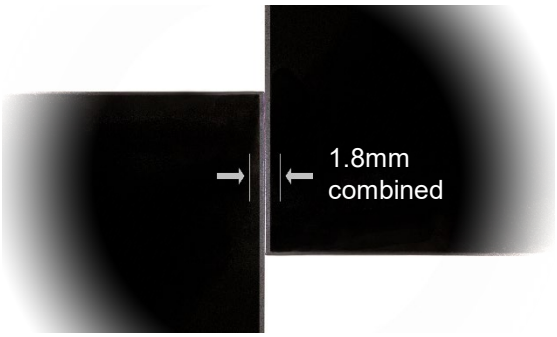
Impact force is distributed with the support of the optical bonding layer.

GPO DISPLAY

Features

Uniform Bezel

Extreme Narrow Bezel (ENB) displays feature a tiled gap of 1.8mm (1.15mm on top/left, 0.55mm on bottom/right). This is the slimmest possible bezel gap with LCD technology on the market.



Easy-4k daisy-chaining

Expanding 4K/Ultra-HD content across large video wall arrays is made simple via support of HDMI 2.0 daisy-chaining. 4K content can be shown on video wall arrays of up to ten displays using a single HDMI cable without signal amplification, making stunning 4K video walls possible without the added cost of video wall processors or multi-output computers. Full-HD (1920x1080) content can be carried through up to 25 displays without signal amplification. With distribution amplifiers in place, arrays of up to 256 displays are possible.

Optically-bonded "Sturdiglass" protective glass

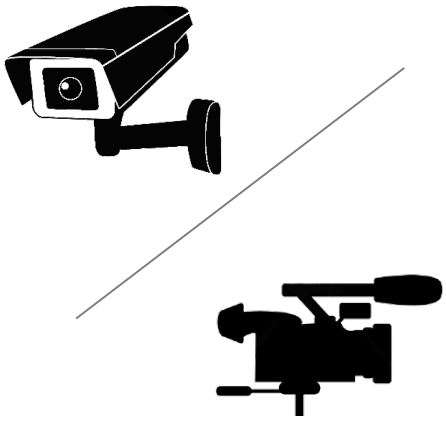
Our "Sturdiglass" video walls feature an anti-glare, anti-streak, and fingerprint-resistant protective glass. Each piece of glass is bonded to the LCD panel surface for safe use in virtually any indoor environment. This durable, optically-bonded glass eliminates parallax issues and faint reflections between the glass and panel surface.
This durable glass also features anti-glare and smudge-resistant coating

"Studiglass"

Options

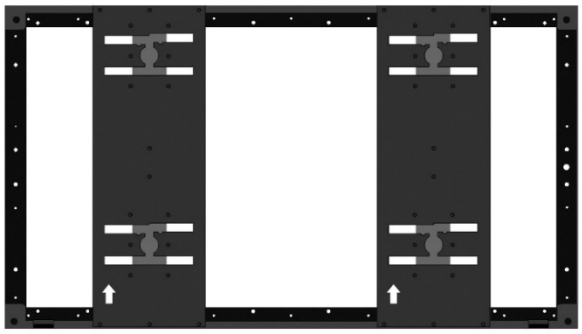
HD-SDI In/Out

Easy-4K displays bring users expanded connectivity in the form of a daisy-chainable HD-SDI input. Broadcast engineers have long known the benefits of HD-SDI over HDMI, such as significantly longer run distance (~300m), instantaneous switching, locking connectors, and signal reliability. These displays' HD-SDI daisy-chain capability also eliminates the need for conversion, which can increase cost and serve as an additional point of failure.



Auto-Aligning H- Mount

GPO Display's new & improved H-Mount video wall mounting system ensures quick, easy installation with virtually automatic alignment. The H-Mount frame matches the outline dimensions of the display, making for less measuring & re-measuring during the installation process. The unique channel system allows for access to individual displays without the dismounting of neighboring displays. H-Mounts even come with side covers/trim at no additional cost. Most importantly, H-Mounts prevent shifts in alignment over time- an issue commonly associated with front-accessible mounting solutions. For video wall arrays with three or fewer rows of displays, the H-Mount is the ideal solution.



EK55MLE-SG

Panel Attributes

Screen Size (Diag.)	55”
Panel Technology	Commercial-grade IPS / Direct-LED backlight
Resolution	1920 x 1080
Pixel Pitch (mm)	0.53025 (H) x 0.53025 (V)
Surface Treatment	Hard coating (3H), Anti-glare treatment of front polarizer
Brightness (Typ.)	500nit
Contrast Ratio (Typ.)	1,400:1 / 500,000:1 (DCR)
Displayable Colors	10bit(D), 1.07 Billion colors
Viewing Angle	178° (min) / 178° (min)
Response Time (Typ. GTG)	12ms
Aspect Ratio	16:9
Tiled Bezel Width	1.8 mm (combined)
Refresh rate	60Hz

Dimensions, Power & Other

Dimension (W x H x D), Weight	47.71” x 26.88” x 3.51” / 62Ibs
VESA Pattern (mm)	600 x 400
Electrical Ratings	AC 100 - 240V (50/60Hz)
Power Consumption (Typ.)	170W / 2A
BTU rating (Typ.)	581
Sturdiglass	2mm **Optically-bonded protective glass**
Operating Temperature	32°F - 104°F
Operating Humidity Range	10~90%
Possible Display Type	Landscape and Portrait-Compatible
Industrial Reliability	60,000+ Hours
Warranty	Two Years (parts & labor)

Connectivity

DisplayPort	1 x Input
HDMI (up to 3840 x 2160)	1 x Input, 1 x output
HD-SDI (optional)	1 x Input, 1 x output
RS-232	1 x Input, 1 x output
Ethernet (RJ45 for control & monitoring)	1 x Input
USB (for service only)	1 x Input

Project-based Factory Color Calibration

All Easy-4K displays are assembled-to-order on a project basis. This allows for more accurate color calibration prior to shipment.

By pre-calibrating and ensuring a match between displays associated with a single deployment, GPO Display reduces the need for post-installation calibration and adjustments.

Optically-bonded “Sturdiglass” protective glass

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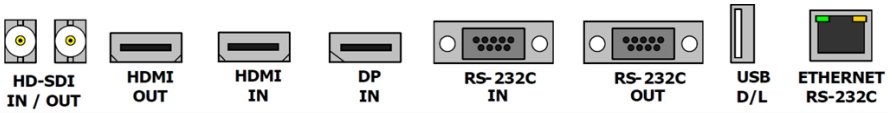
Easy-4K daisy-chaining

4K content can be shown on video wall arrays of up to ten displays using a single HDMI cable without signal amplification, making stunning 4K video walls possible without the added cost of video wall processors or multi-output computers.

- 24/7/365-Rated
- Built-in Video Wall Processor (up to 11x11 Natural Mode)
- Color temperature preset (3200k/5600k/6500k/7800k/9300k)
- Includes Video Wall Control Software
- Includes necessary cables for daisy-chain of both control and video signals



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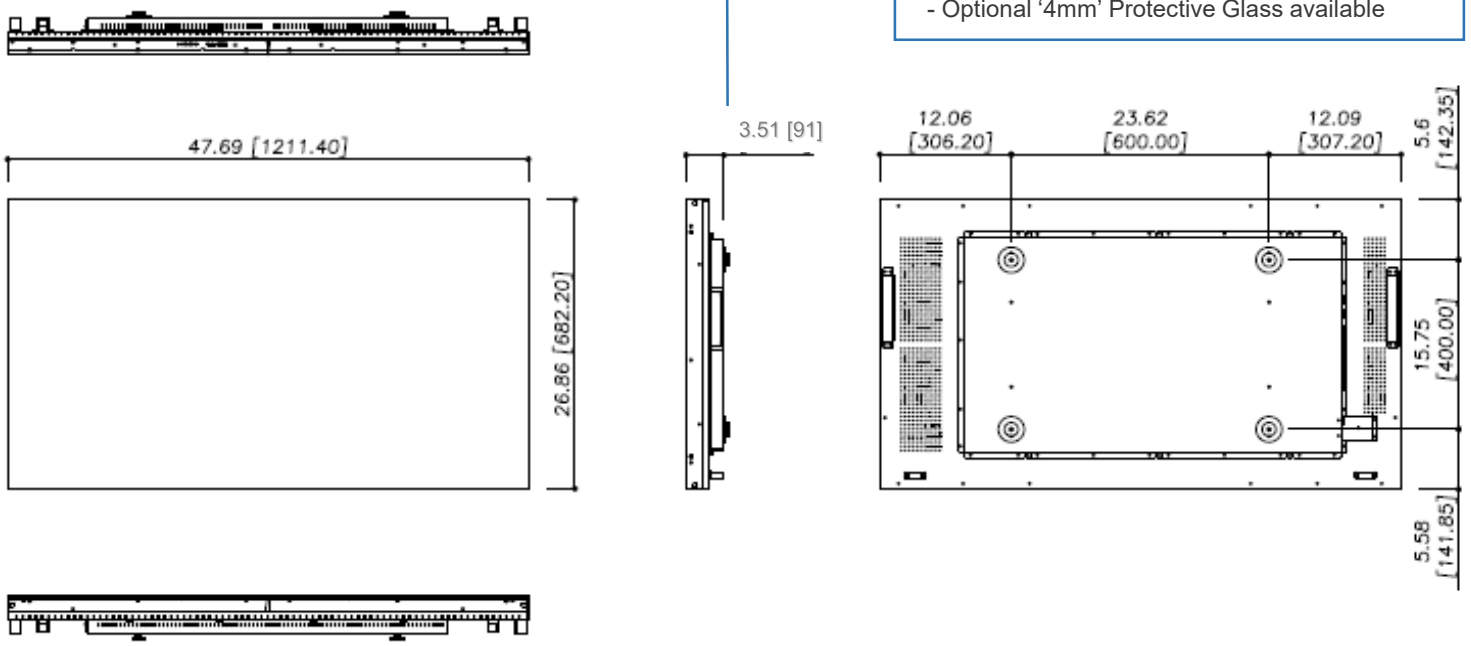
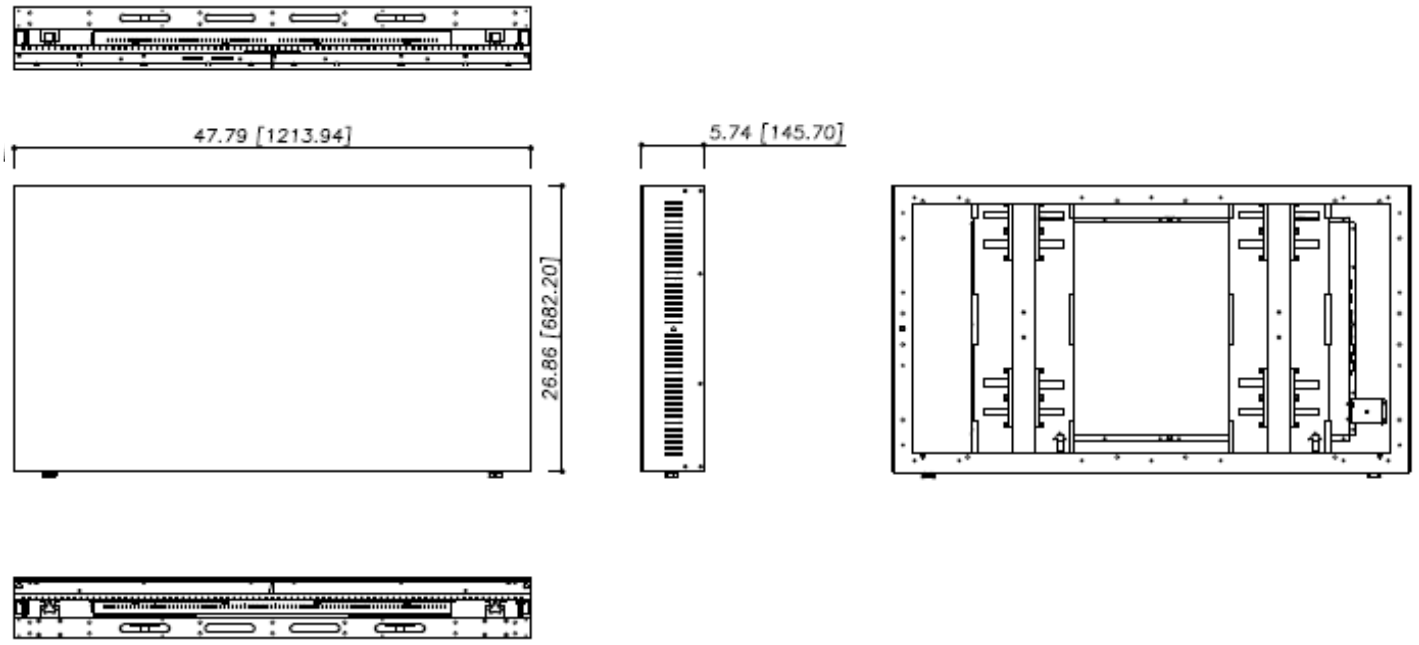
Mechanical Drawing

Set Drawing



Depth
- Optically Bonded Protective Glass '2mm'
- Optional '4mm' Protective Glass available

Set + H-Mount Drawing



Note: *GPO Display* may change specifications and designs without notice

Accessories with product: RS-232 cable, HDMI cable, AC Power Cord, Remote Control, Batteries for remote control, User manual & Software on USB Flash Drive

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