

WITH BONDING

WITHOUT BONDING

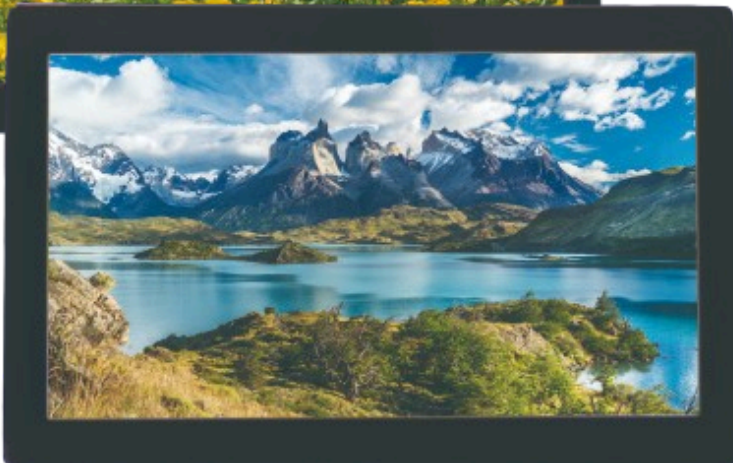
# OPTICAL

## BONDING CAPABILITIES

### FROM CRYSTAL DISPLAY SYSTEMS

With its exclusive materials and innovative reworkable process, CDS offers cutting-edge and economical optical bonding solutions.

These solutions not only enhance sunlight readability and UV protection but also bolster vandal resistance for outdoor displays and portable devices.



## THE TECHNOLOGY

Optical Bonding Technology securely attaches a cover lens, such as anti-reflective glass or a touch panel, directly onto a display, eliminating the air gap between them.

This process reduces reflectance to as low as 0.2%\*, significantly boosting the contrast ratio in high ambient light conditions.

Furthermore, Optical Bonding enhances impact absorption and provides UV protection to the display, ensuring a longer product lifespan even in the harshest environments on Earth.

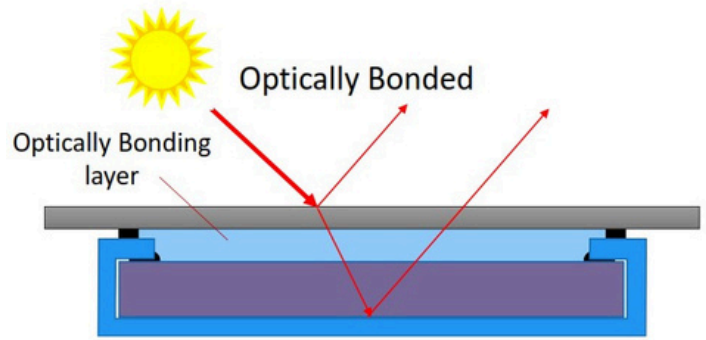
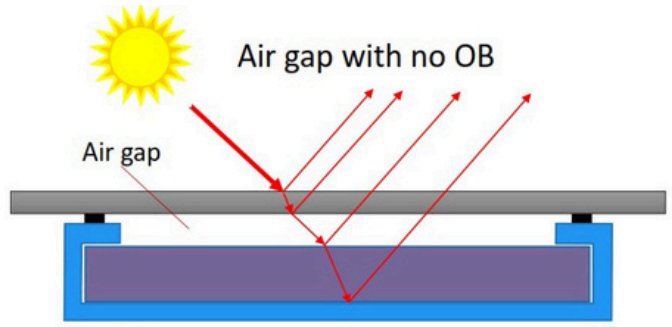
\*Note: Actual reflection rate and contrast ratio may vary depending on the optical properties of each layer.



# CRYSTAL DISPLAY SYSTEMS

## FEATURES & BENEFITS

- Bonding sizes up to 75"
- Fully re-workable
- UV protection (anti-UV, UV cut)
- UV resistance (3,000 hrs +)
- Extended temp range (-50 ~105 °C)
- Waterproof
- Increases ambient contrast ratio and viewing angle for superior sunlight readability
- No water condensation and contamination
- Improves clarity
- Better impact protection, increasing ruggedness of the display
- Eliminates "wash-out" effect
- No "Green House" effect
- Reduces parallax error



Bonding Size  
up to 75"



Better  
Impact  
Protection



Waterproof



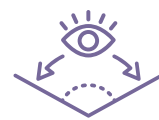
Extended  
Temp Range



UV  
Resistance



UV  
Protection



Increases  
Viewing  
Angle



Sunlight  
Readable

## APPLICATIONS

- Military
- Marine
- Oil and gas
- Avionics
- Medical
- Kiosk
- Automotive / vehicle
- Automotive / vehicle
- Payment terminal
- Navigation / GPS
- Transportation
- Digital signage
- Industrial HMI
- Gaming

## COVER GLASS OPTIONS

- Anti Reflective
- Anti Glare
- Anti Fingerprint
- Anti Viral & Anti-Bacteria
- IR Filter
- EMI Filter
- Touch



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