Christie WeatherAll Series

FHD551-W

Frequently Asked Questions (FAQs)

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Why is the Christie WeatherAll Series being introduced?

Businesses are looking to gain the competitive edge and leverage digital signage and display technology out-of-doors and in challenging environments and locations. Standard displays are not designed to endure outdoor weather conditions, extreme temperatures and humidity or impacts.

What is meant when the Christie FHD551-W is referred to as a professional-grade display solution?

Professional-grade means the FHD551-W has been engineered and industry-rated to provide optimal performance and protection against weather and impacts when deployed in an outdoor or public settings. It is built with high-grade components not typically found in consumer-grade products. The Christie FHD551-W has been specifically designed for ProAV applications where extended use, maintenance-free operation and reduced downtime are required.

Who should buy the Christie FHD551-W?

This Christie FHD551-W is targeted to the commercial public display market segment, including key verticals such as design and architecture, live events, entertainment, media (out-of-home), hospitality (restaurants, hotels, resorts) and government. It is suited to the rental staging market, commercial deployments and any application in locations where high-quality visuals in demanding environments are required.

What are the top features customers need to know about?

- **Weatherproof features** (including the IP56/NEMA4 ratings) give customers the increased flexibility to extend messaging to harsh outdoor environments and public settings
- **Optical bonding and ruggedized nature** enable customers to deploy technology in public event locations with confidence
- **Easy to maintain design** including the DACS filtration and cooling system with a lifetime filter membrane ensures no additional work is required when used in outdoor environments
- **All-in-one, easy to set-up package and sleek design** provides more professional look than display technologies requiring additional enclosures
- **Christie support and service** provides peace of mind

What are the main differences between the Christie FHD551-X and the Christie FHD551-W?

- **Weatherproof features** eliminate the need for an enclosure, providing customers increased flexibility to extend messaging to harsh outdoor environments
- **Optical bonding and ruggedized nature of glass** enable customers to deploy technology in public event locations with confidence
- **Higher brightness and contrast ratio** ensures that the display can be used in settings where ambient light may be an issue (a visor is recommended for direct sun/outdoor conditions)
- **DACS cooling & filtration system** allows for use in environments with dust and air particles, extending the operating range

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- **Deployed independently** – due to performance requirements, the FHD551-W has a wider bezel and is not recommended for tiled displays

What makes the Christie FHD551-W weatherproof?

The Christie FHD551-W's water and dust resistant exterior, optically-bonded glass, sophisticated cooling and filtration system and high-brightness all contribute to making it weatherproof. The exterior is able to withstand impacts, harsh weather and dust conditions in a way that does not hinder performance. The exterior is sealed to protect it from weather and water and includes IP and NEMA ratings (globally recognized water and object protection rating systems) while high-brightness ensures pristine visibility in almost any weather. These weatherproof features give customers the increased flexibility to extend promotions to harsh outdoor environments.

What does an IP56 rating mean?

IP stands for Ingress Protection Rating. IP classifies and rates the degree of protection provided against the intrusion of solid objects, dust, impacts and water. The Christie FHD551-W has an IP56 rating – which provides enhanced protection against water and dust. The "5" in the rating means the display is protected against contact from solid objects, including protection to ensure that dust will not enter the unit in sufficient quantity to interfere with operation. The "6" refers to the level of liquid protection – specifically protection from powerful water jets (12.5mm nozzle) against the enclosure from any direction.

What does a NEMA 4 rating mean?

A NEMA4 rating means that the Christie FHD551-W is watertight (weatherproof) and meets requirements for IP56. The exterior can endure and continue operating with 65 GPM of water from 1" nozzle delivered from a distance no less than 10 ft. for 5 minutes. It is waterproof enough to be used in wet environments such as recreation facilities, ship docks, dairies, breweries and many more.

What is optical bonding and what benefits does it provide?

Optical bonding involves affixing glass to the top surface of a display with an optical-grade adhesive. Benefits include:

- Elimination of condensation (fog) on the display
- Drastic reduction of reflection, increasing sunlight readability compared to non-treated displays
- Greatly improved display color saturation and contrast
- Increased impact and scratch resistance
- Increased protection against vibration, extreme temperatures, water and dust

With optical bonding, the failure costs incurred by particles and moisture/vapor can be fully eliminated.

By removing the air-gap, a tighter and tougher LCD stack is created to protect against:

- Vibration during shipment
- Finger pressure and impacts during user operation

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What is the DACS Cooling & Filtration System?

Our proprietary DACS Cooling & Filtration System provides a thermostatically-controlled active cooling/filtration system that protects sensitive electronics from temperature extremes, moisture and dust, for superior reliability in the most demanding environments. DACS uses thermostatically-controlled, active cooling to keep display temperatures lower and more stable than other solutions, resulting in greater reliability and longer product life. The DACS proprietary two stage filter system includes a removable, cleanable dust filter that removes particles from incoming air. It also has a second, lifetime membrane filter removes moisture from incoming air, keeping electronics cool and dry. The lifetime membrane filter offers an easy-clean solution, eliminating the need for core filter replacement.

Are there any special mounting considerations?

Due to the wide variety of applications, a mount is not included with the product. There are no special mounting considerations for this product as it has the standard VESA configuration. When choosing a mount, ensure it is properly rated for the weight of the unit.

Why in some installations is an overhang/visor recommended?

The product is designed for settings with high ambient and indirect sunlight. Where the product is placed in direct sunlight, a visor is recommended due to the intense heat which can cause the LCD to go isotrophic.

What happens when the ambinet temperature goes beyond product capabilities?

The product includes a sophisticated heating and cooling system, designed to operate in a wide temperature range (-4 to 114°F (-20 to 45°C); humidity <95%). Should the temperature drop below or above this threshold, the unit's failsafe will automatically shut the unit off. The "winter mode" option ensures performance in cold conditions.

How does one protect it from theft?

Theft management can include mounts with locking parts to prevent removal. Alternatively, a display space designed to prevent access to the LCD may be appropriate for some venues.

When will the product ship and what markets is it approved for?

The product will ship by the end of January 2013. Approved markets include: FCC, CE (EU), TUV (EU); GoST-R (Russia); cTUVus (USA & Canada); VCCI (Japan); C-Tick (Australia & New Zealand); NOM-NYCE (Mexico); Saudi Arabia; South Africa; UKR-Sepro (Ukraine); Kuwait.
Argentina, Korea and China are anticipated to receive approval by February production (March delivery).