Selecting Monitors and Enclosures for NoPileups

VERSION 3.3 | REVISED 03/2021

Overview

NoPileups requires that a screen (referred to as the NoPileups Load-on Display) be installed near the entrance of the tunnel so that load-on operators can quickly see the NoPileups Live view from their station. From this screen they can see the status of all vehicles that are in the tunnel. When a stop occurs, they can see which car caused the stop and an instant replay of what caused the conveyor to stop, as well as interact with the car in NoPileups.

Installation Options

NoPileups can use any screen with an HDMI port as the NoPileups Load-on Display. There are three common installation scenarios:

- Install a standard TV in the load-on area, inside a waterproof enclosure.
- Install a waterproof outdoor TV in the load-on area.
- Install a waterproof monitor (or a standard monitor in a waterproof case) mounted near the send station.

NoPileups does not recommend installing the display in a manager's office or other area away from the load-on area, because doing so will increase the amount of time it takes staff to respond to tunnel stops and can increase self-induced collisions. Full-service washes may opt to install the monitor at the tunnel exit if that area is **constantly manned while the wash is open**.

NoPileups does not recommend using an iPad or other mobile device as a Load-on Display. If it is selected, a wired network adapter should be purchased to allow the device to connect to a wired network.

Hardware Requirements

To install NoPileups, the customer will need to purchase the following hardware which is **<u>not</u>** included with NoPileups:

- A TV or monitor with HDMI port.
- A waterproof enclosure if the display is not outdoor rated.
- Display mounting hardware.
- 1 Power outlet for the TV or monitor
- 1 Power outlet for the Display Interface
- 1 Wired network connection (CAT5/6 Ethernet) that connects to where the NoPileups server will be installed.
- 4 button controller cover (recommended, not required)

TV or Monitor Requirements

The NoPileups Load-on Display must have:

- A resolution of 720p or higher (720p/1080p/2k/4k UHD/8k are compatible)
- At least one HDMI port

TVs should be at least 42 inches in size. Monitors being attached to a send station should be at least 17 inches in size.

NoPileups does not require or use "Smart" TV functionality, or HDR.

NoPileups can utilize touchscreen functionality, but it is not required.

Waterproof Enclosure Options

Standard TVs should be installed inside a waterproof outdoor enclosure. NoPileups customers have had great results with Display Shield products. Verify that the enclosure being bought supports the size of the TV being purchased.

- The Display Shield by Protective Enclosures Company

For more information and to get the best pricing available, contact Kimberley Viola, Executive Accounts Manager at Display Shield:

- (321) 280-3971
- kimberly@protectiveenclosures.com

TV Mounting Hardware

When using a TV, in addition to the waterproof enclosure, mounting hardware will be required. An articulating mount is recommended as it allows for easy viewing adjustment and is more forgiving when mounting the display.

4 Button Controller Covers

NoPileups recommends installing a waterproof cover to house the NoPileups Remote near the display. The following cover works well:

- Taymac MG420CS 1- Gang Horizontal or Vertical Mount Waterproof Extra Duty at Home Depot/Lowes

NoPileups Display Interface Mounting

NoPileups provides a small (3.6" long x 2.6" wide x 1.4" high) computer (referred to as the "Display Interface") that needs to be installed near the Load-on Display in a ventilated enclosure to protect it from the elements. If purchasing a waterproof TV enclosure, the Display Interface can normally fit inside of it. If the Display Interface does not fit or there is no waterproof enclosure for the monitor, a conduit box will need to be installed with at least one opening for power, network, HDMI and the NoPileups remote.

Example Hardware Packages

The following are examples of possible purchase combinations.

Standard TV, Mount and Enclosure

Approximate Cost: $1,100

Samsung 50" Class NU6900 LED 4k TV ($299.99)

https://www.bestbuy.com/site/samsung-50-class-nu6900-series-led-4k-uhd-smart-tizen-tv/6268403.p?skuId=6268403

The Display Shield (40" - 50" TV) Anti-Glare Display Enclosure ($719.99)

https://www.thedisplayshield.com/the-display-shield-40-50-anti-glare-outdoor-display-enclosure/

Mounting Dream Full Motion VESA Dual Arms Mount MD2617-24K (42'" - 70") ($64.99)
https://www.amazon.com/Mounting-Dream-Bracket-MD2296-Upgraded/dp/B08FC6F5SG

Taymac MG420CS 1 ($23.97)

https://www.lowes.com/pd/Hubbell-TayMac-1-Gang-Rectangle-Plastic-Weatherproof-Electrical-Box-Cover/50411098

Outdoor TV and Mount

Approximate Cost: $1,700

Sunbright 43" Veranda Outdoor LED HDR TV (Direct Outdoor Placement) SB-V-43-4KHDR-BL (No Mount) ($1,499.00)

https://www.sunbritetv.com/products/televisions/veranda-patio-outdoor-4k-tv/43-outdoor-tv-4k-uhd-veranda-series-sb-v-43-4khdr-bl

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Contacting NoPileups Support

Questions about the NoPileups Display or enclosure? Contact NoPileups support by phone at (833) 667-4538 or (208) 789-0405; or by email at support@NoPileups.com.

Installation support is available Monday - Friday, 9 AM to 7 PM Eastern Standard Time (EST).

General software support is available Monday - Friday 7 AM to 9 PM Eastern Standard Time (EST). and Saturday and Sunday 9 AM to 6 PM EST.