

Daktronics recommends powering up and testing all display equipment approximately **four hours** before an event to address any issues. On continuously running control computers, Daktronics recommends restarting the control system once a week.

Startup

It is important to start up each piece of equipment in the proper order so they will communicate and function well.

Note: If these steps are not followed in order every time, components may appear to fail!

1. Turn on power to the display. Verify UPS is on. Verify power to the rack is on.
2. Turn on the Video Image Processor (VIP) or Display Interface (DI) unit.
3. Turn on the Digital Media Player (DMP)/Live Switch unit.
4. Turn on all peripheral equipment such as video production systems, All Sport® controllers, stats computers, signal converters, etc.
5. Turn on the Show Control computer.
6. Open the Display Studio program and ensure the STATUS is green. If it is red, click the button to view any errors and attempt to resolve them before continuing.
7. Play a preconfigured content button and ensure it plays as intended to the display.
8. Play the preconfigured button labeled "Fullscreen Video".
9. Open the Live Switch software and select an input source on the Main PGM bus to verify everything is functioning correctly and content/video appears on the entire display.
10. Check for any working auxiliary feeds (cameras, All Sport®/stat software Real-Time Data feeds, etc.). Look through video sources by selecting them in Live Switch.
11. **Primary/Backup Systems Only:**
 - a. Verify the SyncBack application runs on the backup DMPs, and the backup and primary systems are mirrored.
 - b. Verify the backup system. Use the appropriate user interface (Display Studio buttons) to switch between Primary and Backup equipment.

Note: This will verify the backup DMP playback and VIP/DI only. This does not test the backup Live Switch application, which would require swapping rear cable connections.

Shutdown

1. Blank displays.
2. Turn off power to displays, if possible.
3. Close all programs on the Show Control computer and power it down.
4. Close all programs on the DMP/Live Switch unit and power it down by momentarily (~one second) pressing the power switch.

Note: DO NOT hold the switch down as this will force a hard shutdown of the DMP.

5. Power down the Video Image Processor (VIP) or Display Interface (DI) unit.
6. Turn off any related peripheral equipment.

Routine Maintenance

Do not complete maintenance or upgrades immediately prior to or during an event!

Daily

- Install any anti-virus/anti-spyware definition updates if connected to Internet.
- The “Nucleus Database” is backed up routinely on the local PC and to the rack NAS drive. If desired, make an extra copy of all creative content, either on a separate hard drive or via the cloud.

Weekly

- Perform full system scan with anti-virus/anti-spyware utility.
- Install high-priority Windows updates (not recommended: hardware driver updates).

Activities to Avoid

Daktronics control systems are for display operations only. The following activities can adversely affect the operation of these control systems and should be avoided:

- Checking personal email
- Browsing the web
- Downloading/installing unauthorized applications
- Instant messaging
- Playing games, music, etc.

Additionally, Daktronics recommends to not install the control system on Windows domains as domain policies can adversely affect the performance of the control system.

Uninterruptible Power Supply (UPS)

Daktronics recommends that Uninterruptible Power Supplies remain plugged in and powered on at all times. If powered off, Uninterruptible Power Supplies need powering up monthly to charge the batteries. Additionally, maintain in a climate-controlled environment. Refer to manufacturer's documentation for more information.