AF-671X Series

Field Test Procedure Instructions

DD4561323   Rev: 1— 13 November 2019

DAKTRONICS

DAKTRONICS, INC.

Introduction

This instructions document describes how to complete the field tests for a LED dynamic message sign site for Daktronics Vanguard Displays.

Sign Inspection

S1 Transport-

    A. Visually inspect the outside of the sign for damage from transport and installation. Ensure light sensor is unobstructed.
    B. Inspect the inside of the sign for damage and signs of water intrusion. Check for loose parts, connections and wiring, inside of the sign.
    C. Ensure all is mounted properly with approved mounting hardware.
    D. Check that all conduits that enter the sign are sealed inside at the end that enters the sign.
    E. Verify that doors open and close properly.

S2 Sign Power Termination-

    A. Check that hot (black), neutral (white), and ground (green) wires from 120 VAC power source are properly secured on the main termination block within the display.

S3 Sign Power-

    A. AC Power testing:
        a. Check that all sign Termination Block circuit breakers are off.
        b. Using a safe procedure, measure the AC voltage from the 120 VAC power source at termination block. Also, check the voltage from neutral to earth ground. It should measure less than 10 VAC. Record values.
        c. Apply power to the sign by switching the circuit breaker(s) on at the terminal block.

S4 Peripheral Testing Procedure-

    A. Activate Test Patterns

        a. On each cluster controller turn on address 7.
        b. Each section will run test patterns verify that no pixels are out or swapped. Note: Not all each cluster won't run the same test patterns at same time this is normal.
        c. Turn off address 7 on each cluster and verify the test patterns turn off.
           https://www.daktronics.com/support/kb/Pages/DD3949524.aspx

    B. Diagnostics test

        a. VNC into the SBC.
        b. Go to C:\DAKConfig|Test and run the ILCS2 GUI shortcut.
        c. Once window opens press auto refresh.
        d. Verify that there are no faults reported and all green for the peripherals.

S5 Communications-

    A. Set IP address on the sign.
          Windows 10 https://www.daktronics.com/support/kb/Pages/DD3743568.aspx
          Windows 7 https://www.daktronics.com/support/kb/Pages/DD3214897.aspx

S6 Display a test message using DVS

If using DVS embedded:

    A. Connect laptop to signs ethernet port.
    B. Make sure laptop IP is within range of the signs IP.
    C. Type IP in chrome browser.
    D. Using DVS server create a message that won't miss direct people that will cover entire sign and play it on the sign.
    E. Verify that the sign is displaying correctly.
    F. Verify that there aren't errors reporting in DVS embedded.

If using DVS player:

    A. Connect laptop to signs ethernet port.
    B. Make sure laptop IP is within range of signs IP.
    C. Using DVS server create a message that won't miss direct people that will cover entire sign and play it on the sign.
    D. Verify that the sign is displaying correctly.
    E. Verify that there aren't errors reporting in DVS player.

S7 Display Brightness-

    A. Verify display's brightness level is appropriate for ambient light conditions.
    B. Blank display.

Final check

F1 Close all the doors.

F2 Record firmware and site information.

    A. Record the installed firmware version numbers (from the sign controller "Version Information" page), and the dimensions of the sign. Record the information in the Site Information section:
    B. Make sure site information filled is filled out: serial numbers, site location, phone number, sign dimension, firmware versions, etc.

F3 Verify all test messages are deleted.

    A. Verify that any test messages you created have been deactivated and the sign is blank.