DAKTRONICS INSTALLATION SITE READINESS

This worksheet is designed to help ensure a successful display fire up, a reliable finished product, a validated warranty, and credibility to your customer.

How Can I Prepare for the New Display?

•	Determine it person available to assist auting installation.							
	A.	IT Contact:	Phone:					
	В.	Provide the following of	locument to the customer's IT individual to prep their system	:				

- Provide the following document to the customer's IT individual to prep their system:

 Daktronics Galaxy GS6 Installation Guidelines
- If software will be cloud-based (Daktronics hosted) follow steps 2A or if downloaded (Customer hosted) to a local computer, follow steps 2B.
 - A. CLOUD-BASED (DAKTRONICS HOSTED)
 - Verify the system and network requirements below are met.
 - Installed browser:
 - Google Chrome (Preferred)
 - Internet Explorer (IE) 11 or higher
 - Firefox
 - Safari (mobile)
 - Ensure Internet connection is established.
 - o Computer is connected to router/hub and not directly to the display.
 - o Display is connected to the router/hub and not directly to the computer.
 - o Ensure ports: 80 and: 443 are available.
 - Daktronics displays ship out DHCP enabled.
 - DHCP Name:
 - o *** If a Static IP address is required, change IP address using Daktronics configuration utility.
 - Static IP Address:
 - o Have end user log into venus.daktronics.com to view their account dashboard and display status. (The end user will receive credentials from softwareactivation@daktronics.com).
 - Display shows green: Everything is connected and running.
 - **Display shows red**: There is a communication error, and the display isn't connected to the software. Please review network setup, ensure ports: 80 and: 443 are available, or refer to Daktronics Online Knowledgebase articles for help with troubleshooting.
 - Encourage end user to begin learning the software and creating content. Send them for Daktronics.com/venuslearning for more tutorials.
 - B. LOCAL INSTALLATION
 - Verify the system and network requirements below are met.
 - Make sure the computer meets the following system requirements:
 - Windows 7, 8, 10, or server 2012 or higher with 64 bit and current updates applied.
 - 1.6+ GHz processor
 - 1.5+ GB RAM
 - 1GB of free hard drive space
 - Ports 8810, 8811, and 44300 need to be open for locally hosted
 - Static IP address available for the computer.
 - Static IP Address:



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3. Ensure communication networking is ready to go

- Internet connection type (i.e. ethernet bridge radios, wire ethernet, etc.):
- Everything is in place for installation of communication (refer to system riser diagram)
- Determine locations for signal converters, boxes, radios, etc.
- Fiber Optic cable is 62.5 micron multimode with a minimum of 2 conductors and uses ST style connectors
- 120 VAC outlet to supply the power is available (certain communication systems Ethernet Bridge Radio and Fiber Ethernet will require a DC injector inside the building)

4. Prepare power at the sign installation site

- o Dedicated circuit of 120 VAC or 120/240 VAC electrical service for Galaxy displays
- Ample power available, consult the shop drawings for the power needed for the particular display purchased
 - NOTE: Most standard displays are sold as multiple lines of 120 VAC
 - The term "120/240" refers to two lines, one neutral, plus service ground.
 - When sizing the proper amperage for a circuit, multiply the listed power requirement by 125% in order to avoid nuisance trips. Consult a qualified electrician and local codes.
 - Power requirements are given in amps and only apply to one face; if the display is a 2V, another circuit or multiple circuits, is required for the second face.
 - Electrical service cannot be on a power management system.

0	Name of	f person	supplyi	ing site	power	hool	kup:		 	
	Phone: _									

NOTE:

It is necessary to be familiar with basic Windows operation.

Downloadable Venus Control Suite is not available for Apple computers or mobile operation.

Networks and/or firewalls may complicate installation.



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INSTALLATION SITE GUIDELINES Is the Display Installed Properly?

Here are some guidelines to keep in mind while installing a Daktronics digital display. Please refer to the Daktronics shop drawing before any final design plans are made. Also, please remember to follow the local installation codes.

PHYSICAL INSTALLATION:

- Sign structure can support the weight and wind load of the digital display as detailed in the shop drawings
- All clip angles were used when attaching to the sign structure (bolt or weld)
- 4 inches of clearance was left behind the display for power communication connections
- Fan hoods are intact (if any)
- Adequate openings were allowed to facilitate ventilation (where applicable)
- Temperature sensor is installed upright and in shade
- Sign is operational: display is running a message and communicating with the computer

ELECTRICAL REQUIREMENTS:

- Power is not shared with any other applications (backlit signs, parking lot lights, etc.)
- Typically four wires are needed per face: two hot lines, a neutral and a service ground (refer to shop drawing to ensure the number of wires needed).
- Earth grounding is complete for each face and communications
- Test read at less than 10 ohms resistance between each face and the earth ground
- Ground rods are at least 8 feet from the concrete footings of the structure
- Ground rods are at least 8 feet from other ground rods
- The service ground will not suffice
- The sign structure or pole is not an acceptable earth ground

COMMUNICATION REQUIREMENTS:

- Distance requirements were followed (1500 feet for Ethernet Bridge Radio, 1.2 miles for Fiber Ethernet, etc.)
- Ethernet Bridge Radios have a clear line of sight between antennas (There can be NO obstructions between the antennas)
- Radios are installed upright
 - Communication boxes that came with ground wire ARE GROUNDED to the earth ground rod

Top 10 Do's and Don'ts when Installing a Digital Display:

DO:

- Fire up the sign in your shop before taking it to the site. Take the time to load content to the display.
- Install a ground rod and test that your earth ground measures 10 ohms or less.
- 3. Use a dedicated circuit for each display face.
- 4. Maintain the integrity of the display.
- Make sure modules are fully latched and ribbon cables are not pinched.
- 6. Allow adequate ventilation.
- 7. Install the temperature sensor properly.
- 8. Install antennas with a clear line of sight.
- 9. Figure out power responsibility ahead of time.
- Involve company IT representative for network communication conversations.

DON'T:

- Install the display without turning it on before leaving to ensure it is working properly.
- 2. Use the sign pole as a ground measurement at the circuit box.
- 3. Share power with other devices.
- 4. Drill holes in the display cabinet when attaching shrouding.
- 5. Remove modules unless it is necessary for installation purposes.
- 6. Block ventilation with shrouding.
- 7. Install the temperature sensor at an angle or upside down.
- 8. Install radios upside down.
- 9. Assume someone else is responsible for power.
- 10. Install communication without verifying it will work.

