Miami-Dade Removal and Replacement of Seating Bowl LED Displays and Control Systems

Scope of Work - Arena-2-10-2023-B

Miami-Dade seeks the services of a specialized, and highly qualified and experienced vendor to procure advanced Daktronics Seating Bowl LED Displays and related Content Management System and provide all services necessary for the successful assembly and delivery of the equipment and systems to the Arena, including, but not limited to:

- 1. Daktronics LED Display Systems (per attached specifications)
 - a. Center Hung Hoist Systems
 - b. Cable Reel Systems
 - c. Center Hung Main Video and Ring Assemblies
 - d. Flame Ball Assembly
 - e. Corner Displays and Corner Display Structures
- 2. Content Management System, including any required multi-image processors, routers, scalers, etc., that is fully compatible with specified Daktronics LED displays.
- 3. Sound system modifications to accommodate the new Center Hung scoreboard system, including audio system recalibration of existing DAS audio equipment.
- 4. Review the current Manager design and verify that it will meet the expectations created by the Manager. Live mockup and redesign if necessary.
- 5. Identification and coordination for relocation of electronic systems that may be disrupted by the new LED displays, including security cameras, NBA environmental monitoring systems, IT access points, DAS antennas & supporting equipment, Arena/NBA sports lighting, and Speaker Hoist Controls.
- 6. Removal and disposal of existing equipment.

GENERAL REQUIREMENTS:

- A. Furnishing all labor, operations, materials, accessories, incidentals, services and equipment (exclusive of prepurchased or Manager provided materials, accessories and/or equipment) indicated, specified, mentioned, scheduled or implied in this Scope of Work.
- B. Supply Daktronics LED Displays including controllers, processors, cabling, etc.
- C. Provide Content Management System, including any required multi-image processors, routers, scalers, etc.
- D. Removal and disposal of existing equipment as designated by Arena management.
- E. Provide detailed procurement and delivery timeline to the Project Management Team.
- F. Vendor must have the ability to provide the highest quality of display technology, comprehensive project management that guarantees a fully commissioned system, and long-term local technical service and support.
- G. Warrant to the Arena in writing that the materials and equipment furnished will be high quality and free of defects and equipped to sustain South Florida weather.
- H. Vendor submitting a proposal agrees that all data, records and information which proposer, its agents and employees obtain access to, create, and which are the subject of this proposal, remain at all times exclusively the property of the Arena. It is also agreed that all such data, records and information constitute, at all times, proprietary information of the Arena and that proposer will not disclose, provide or make available any such proprietary information in any form to any person or entity. In addition, vendor submitting a proposal further agrees that it will take reasonable steps and the same protective precautions to protect Arena's proprietary information from disclosure to third parties as with the proposer's own proprietary and confidential information.

APPROXIMATE PROJECT COST:

TIMELINE:

- Procurement of equipment and delivery of same must be completed within sixty (60) days of vendor approval.
- Vendor must coordinate delivery of equipment with the Special Project Team.
- Vendor must submit a detailed delivery timeline to the Special Project Team for approval.

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WARRANTY:

• Manufacturer to provide a limited warranty of eight (8) years from date of receipt.

QUALIFICATIONS:

- The proposed Vendor must have the following experience and certifications:
 - Must be a firm with at least ten (10) years of experience in the broadcast, and audiovisual technology field.
 - The Vendor shall be a member of a recognized professional broadcast and audiovisual communications systems integrators organization.
 - Vendor shall provide documentation of a minimum of five (5) professional sports facilities (facility, contact name, title, address, and current phone number) where the Vendor has successfully delivered and implemented LED Displays and Systems of equivalent size and scope within the last five (5) years.
 - Capacity to meet all deadlines to ensure successful implementation.

INSURANCE:

 Vendor shall purchase and maintain during the entire project and for two years after project completion insurance with the minimum limits and coverage shown below from insurance companies acceptable to ("BPL").
 BPL has the right to reject unacceptable insurance carriers.

STANDARD INSURANCE REQUIREMENTS	
Coverage Type	Limits
General Liability	 \$1,000,000 Per Occurrence; \$2,000,000 General Aggregate; \$2,000,000 Completed Operations Aggregate \$1,000,000 Personal & Advertising Injury
Auto Liability (All Hired Non-Owned)	\$1,000,000 for all jobs
Umbrella	\$5,000,000 Per Occurrence; \$5,000,000 Aggregate;
Worker's Compensation	Statutory Limits; \$1,000,000 Employers Liability
Risk of Loss	Full replacement value of all Goods
	F.O.B. Arena

- Vendor shall carry standard ISO General Liability coverage, written on an occurrence basis including Completed Operations. Coverages on an occurrence basis shall be maintained without interruption from date of commencement of the Vendor's Work until date of final payment or date coverage is required to be maintained after final payment to the Vendor, whichever is later. The coverage must be endorsed to name Basketball Properties, Ltd., City of Miami, and Miami-Dade County as additional insureds on a primary and non-contributory basis.
- Umbrella coverage, each occurrence and aggregate. Coverage must be excess of the Commercial General Liability, Automobile Liability and Employers Liability and must be written on a follow form basis. Umbrella coverage shall be at least as broad as the primary Commercial General Liability Policy.
- Risk of Loss Insurance Vendor shall provide, pay for and maintain insurance coverage, including transportation
 and casualty insurance, which insures the risks of loss, damage, or destruction in an amount not less than the
 total value of the Goods purchased. The risk of any loss, damage or destruction to any of the materials or Goods
 provided for in this Scope of Work from any casualty or cause shall be borne by and remain with vendor until
 successful delivery of the Goods to Miami-Dade Arena and acceptance of the Goods by Arena or Arena's
 authorized contractor.

		Location:	Centerhung Main Vid	eo
Daktronics, Inc.		Model:	DVN-3001-2.5MN-14 2100x3600-AUTOBR- SBB-CRMP	
Overall Display Size (measured fr	om		Fractional Units (e.g.	18.5')
physical pixel to physical pixel;				,
including cabinet)				
	Vertical	17.23	Feet 2100) Pixels
	Horizontal		Feet 3600	
	Horizontai	29.33	reel 5000	J FIXEIS
		7 5		
	Total Number of Physical LEDS			Ds/each display
	Total Number of Physical Pixels	7,50	50,000 Pixe	ls/each display
OEM LED Module and Processor				
Manufacturer(s)		Daktronics, Inc.	
, , , , , , , , , , , , , , , , , , ,	,		,	
	Vertical		17.23	Feet
	Horizontal		29.53	Feet
	Horizontai	29.33		Feel
PHYSICAL Pixel Pitch (not "lines")	•		2.5	millimeters
	Horizontal/Horizontal		2.5	millimeters
Physical Pixel Density (not "lines"	•		14858.43508	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		2.5	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness	5		1400	Nits
	Brightness Level adjustment	Full Scale		
	Gradation Method	Pulse Wid	th Modulation (PWM)	
	Tonal Gradation	16-Bit		
	Color Temperature	3,000º-10,0	00º kelvin (adjustable)	°K
	Color Temperature adjustability			
	IP Rating			
Viewing Angles	s Vertical degrees	+80/-800	UP	Dn
	-		160	DII
Dower Consumption	Horizontal degrees			
Power Consumption	Average (entire display)			
	Maximum (entire display)	,	33566.4	
	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con				
	<u>for entire Display</u>	g	3.2 amps @ 208Y/120	v 3P

(Include internal structure) 3402 lb

End of Section

		Location: Centerhung Underbelly		
Daktronics, Inc.		Model:	odel: DVN-3001-2.5MN-1400-BR-NM- 1200x2600-AUTOBR-LT-SR-FOR- SBB-CRMP	
Overall Display Size (measured fr	om		Fractional Units (e.	g. 18.5′)
physical pixel to physical pixel;				
including cabinet)				
	Vertical	9.84	Feet 12	00 Pixels
	Horizontal	21.33	Feet 26	
	Total Number of Physical LEDS	3 1 2	.0,000 L	EDs/each display
	Total Number of Physical Pixels			xels/each display
	Total Number of Thysical Tixels	5,12	.0,000 11	
OEM LED Module and Processor				
Manufacturer(s)		Daktronics, Inc.	
	Vertical		9.84	Feet
	Horizontal	21.33		Feet
	Honzontar	21.55		Teet
<u>PHYSICAL</u> Pixel Pitch (not "lines")	Vertical/Vertical	ıl 2.5		millimeters
	Horizontal/Horizontal		2.5	millimeters
Physical Pixel Density (not "lines")		14865.12755	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		2.5	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness	5		1400	Nits
-	Brightness Level adjustment	Full Scale		
	Gradation Method		h Modulation (PWN	1)
	Tonal Gradation		•	
			00º kelvin (adjustabl	e) °K
	Color Temperature adjustability			
	IP Rating			- /
Viewing Angle	s Vertical degrees	+80/-80º	UP	Dn
	Horizontal degrees		160	
Power Consumption	Average (entire display)		3463.2	
	Maximum (entire display)			
Normal Power re	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con				
	for entire Display		8.5 amps @ 208Y/12	20v 3P
			, , ,	

(Include internal structure) 1404 lb

End of Section

		Location: Centerhung Rings		
Daktronics, Inc.		Model:	del: DVN-3051-3.9MN-1400-BR-MA- 256x14848-AUTOBR-LT-SR-FOR- SBB-CRMP-Single Curve - Convex	
Overall Display Size (measured fro physical pixel to physical pixel; i including cabinat)			Fractional Units (e.g	. 18.5′)
including cabinet)	Vertical	3.28	Feet 256	5 Pixels
	Horizontal	190.3	Feet 1484	
	Honzontar	150.5	1661 140-	10 1 1/213
	Total Number of Physical LEDS	3 8(1,088 LE	Ds/each display
	Total Number of Physical Pixels			els/each display
	Total Number of Physical Pixels	5,00	1,000	eis/each display
OEM LED Module and Processor				
Manufacturer(s)		Daktronics, Inc.	
	Vertical		3.28	Feet
	Horizontal		190.3	Feet
<u>PHYSICAL</u> Pixel Pitch (not "lines")	Vertical/Vertical	al 3.906		millimeters
	Horizontal/Horizontal	3.	906	millimeters
Physical Pixel Density (not "lines")		6089.691501	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		3.9	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness	5		1400	Nits
_	Brightness Level adjustment	Full Scale		
	Gradation Method	Pulse Wid	h Modulation (PWM)	
	Tonal Gradation	16-Bit	· · · · ·	
	Color Temperature	3,000º-10,0	00º kelvin (adjustable) °K
	Color Temperature adjustability			
	IP Rating	NA	· ·	
Viewing Angles	S Vertical degrees	+60/-80º	UP	Dn
	Horizontal degrees		160	
Power Consumption	Average (entire display)			
	Maximum (entire display)		41203.2	
Normal Power red	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con	ditioning allowed) requirements			
	<u>for entire Display</u>	1	L4.5 amps @ 208Y/12	0v 3P

(Include internal structure) 4176 lb

End of Section

		Location:	Flame Ball	
Daktronics, Inc.		Model:	DVN-3001-3.9MN-14 3328x2304-AUTOBR- SBB-CRMP	
Overall Display Size (measured fro	om		Fractional Units (e.g.	18.5')
physical pixel to physical pixel;				
including cabinet)				
5 ,	Vertical	42.65	Feet 3328	Pixels
	Horizontal		Feet 2304	
	Total Number of Physical LEDS	7.66	57,712 LED	s/each display
	Total Number of Physical Pixels			s/each display
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		o, caon anopia,
OEM LED Module and Processor			Delter de les	
Manufacturer(s)		Daktronics, Inc.	
	Vertical		42.65	Feet
	Horizontal		29.53	Feet
<u>PHYSICAL</u> Pixel Pitch (not "lines")	Vertical/Vertical	3.	906	millimeters
	Horizontal/Horizontal	3.	906	millimeters
Physical Pixel Density (not "lines")		6088.121484	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		3.9	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness	5		1400	Nits
	Brightness Level adjustment	Full Scale		
	Gradation Method	Pulse Widt	h Modulation (PWM)	
	Tonal Gradation	16-Bit		
	Color Temperature	3,000º-10,0	00º kelvin (adjustable)	°K
	Color Temperature adjustability	3,000º-10,0	00º kelvin (adjustable)	
	IP Rating	NA		
Viewing Angles	S Vertical degrees	+60/-80º	UP	Dn
	Horizontal degrees		160	
Power Consumption	Average (entire display)	,	20779.2	
	Maximum (entire display)		83116.8	
Normal Power red	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con				
	for entire Display		30.9 amps @ 208Y/120	v 3P
	F-*/			

(Include internal structure) 8424 lb

End of Section

		Location:	Level 100 Vomitory	
Daktronics, Inc.		Model:	DVN-3001-3.9MN-14 128x384-AUTOBR-LT CRMP	
Overall Display Size (measured fro	om		Fractional Units (e.g.	18.5′)
physical pixel to physical pixel; r	not			
including cabinet)				
	Vertical	1.64	Feet 128	B Pixels
	Horizontal	4.92	Feet 384	Pixels
	Total Number of Physical LEDS			Ds/each display
	Total Number of Physical Pixels	49	9,152 Pixe	els/each display
OEM LED Module and Processor				
Manufacturer(s)		Daktronics, Inc.	
	Vertical		1.64	Feet
	Horizontal	4.92		Feet
			-	
<u>PHYSICAL</u> Pixel Pitch (not "lines")	Vertical/Vertical	al 3.906		millimeters
	Horizontal/Horizontal	3	.906	millimeters
Physical Pixel Density (not "lines")		6091.612136	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		3.9	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness	5		1400	Nits
	Brightness Level adjustment	Full Scale		
	Gradation Method	Pulse Wid	th Modulation (PWM)	
	Tonal Gradation	16-Bit		
	Color Temperature	3,000º-10,0	00º kelvin (adjustable)	°K
	Color Temperature adjustability	3,000º-10,0	00º kelvin (adjustable)	
	IP Rating	NA		
Viewing Angles	s Vertical degrees	+60/-80º	UP	Dn
	Horizontal degrees		160	
Power Consumption	Average (entire display)		133.2	
	Maximum (entire display)		532.8	
	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con	ditioning allowed) requirements			
	for entire Display		1.5 amps @ 208Y/120v	v 3P

(Include internal structure) 54 lb

End of Section

		Location:	Location: Level 100 Vomitory	
Daktronics, Inc.		Model: DVN-3001-3.9MN-1400-BR-MA- 128x768-AUTOBR-LT-SR-FOR-SB CRMP		
Overall Display Size (measured fro	om		Fractional Units (e.g.	. 18.5′)
physical pixel to physical pixel; r				,
including cabinet)				
mendening cubinety	Vertical	1.64	Feet 128	8 Pixels
	Horizontal		Feet 768	
	Honzonta	5.04	100	
	Total Number of Physical LEDS	0	8,304 LEI	Ds/each display
	•			
	Total Number of Physical Pixels	90	8,304 Pixe	els/each display
OEM LED Module and Processor				
Manufacturer(s)		Daktronics, Inc.	
	Vertical		1.64	Feet
	Horizontal	l 9.84		Feet
PHYSICAL Pixel Pitch (not "lines")	Vertical/Vertical	cal 3.906		millimeters
	Horizontal/Horizontal	3	.906	millimeters
Physical Pixel Density (not "lines")		6091.612136	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		3.9	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness			1400	Nits
0	Brightness Level adjustment	Full Scale		
	Gradation Method		th Modulation (PWM)	
	Tonal Gradation			
			000º kelvin (adjustable)) °K
	Color Temperature adjustability			
	IP Rating			
	in ridening			
Viewing Angles	S Vertical degrees	+60/-809	UP	Dn
	Horizontal degrees		160	Dii
Power Consumption	Average (entire display)		266.4	
rower consumption	Maximum (entire display)			
	Maximum (entire display)		1005.0	
Normal Power reg	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con			2 amor @ 200V/120.	20
	for entire Display		3 amps @ 208Y/120v	<u>זר</u>

(Include internal structure) 108 lb

End of Section

		Location:	Level 100 Vomitory	
Daktronics, Inc.		Model:	DVN-3001-3.9MN-1 128x896-AUTOBR-L CRMP	
Overall Display Size (measured fro	om		Fractional Units (e.	g. 18.5′)
physical pixel to physical pixel; r				
including cabinet)				
C .	Vertical	1.64	Feet 12	8 Pixels
	Horizontal	11.48	Feet 89	6 Pixels
	Total Number of Physical LEDS	11	4,688 LI	EDs/each display
	Total Number of Physical Pixels			els/each display
	,		,	
OEM LED Module and Processor			Delatranica Inc.	
Manufacturer(s)			Daktronics, Inc.	
	Vertical		1.64	Feet
	Horizontal	al 11.48		Feet
<u>PHYSICAL</u> Pixel Pitch (not "lines")	Vertical/Vertical	3	.906	millimeters
	Horizontal/Horizontal	3	.906	millimeters
Physical Pixel Density (not "lines"			6091.612136	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		3.9	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness			1400	Nits
	Brightness Level adjustment	Full Scale		
	Gradation Method	Pulse Wid	th Modulation (PWM)
	Tonal Gradation	16-Bit		
	Color Temperature	3,000º-10,0	00º kelvin (adjustable	e) °K
	Color Temperature adjustability	3,000º-10,0	00º kelvin (adjustable	e)
	IP Rating	NA		
Viewing Angles	Vertical degrees	+60/-80º	UP	Dn
	Horizontal degrees		160	
Power Consumption	Average (entire display)		310.8	
	Maximum (entire display)			
Normal Power red	uirements (Voltage, Service, Ø)			
Include any ventilation (no air cond				
	for entire Display		3.5 amps @ 208Y/120	Dv 3P
			,	

(Include internal structure) 126 lb

End of Section

		Location:	Level 100 Vomitory	
Daktronics, Inc.		Model: DVN-3001-3.9MN-1400-BR-MA- 128x1024-AUTOBR-LT-SR-FOR-SB CRMP		
Overall Display Size (measured fro	om	Fractional Units (e.g. 18.5')		18.5')
physical pixel to physical pixel; r	not			
including cabinet)	Martin	1.64	E	
	Vertical	<u> </u>	Feet 128 Feet 102	
	Horizontal	15.12	reet 102	4 PIXEIS
	Total Number of Physical LEDS	13	1,072 LEI	Ds/each display
	Total Number of Physical Pixels			els/each display
	Total Number of Enystear Ences	15	1,072 11.0	
OEM LED Module and Processor				
Manufacturer(s)			Daktronics, Inc.	
Manufacturer (5)			Daktionics, inc.	
	Vertical		1.64	Feet
	Horizontal	al 13.12		Feet
PHYSICAL Pixel Pitch (not "lines")	Vertical/Vertical	cal 3.906		millimeters
	Horizontal/Horizontal	3	.906	millimeters
Physical Pixel Density (not "lines"			6091.612136	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		3.9	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness			1400	Nits
	Brightness Level adjustment			
	Gradation Method		th Modulation (PWM)	
	Tonal Gradation			
	•		00º kelvin (adjustable)	
	Color Temperature adjustability		00º kelvin (adjustable)	
	IP Rating	NA		
Viewing Angles	Vertical degrees	+60/-800	UP	Dn
	Horizontal degrees		160	Ы
Power Consumption	Average (entire display)		355.2	
	Maximum (entire display)		1420.8	
	(
Normal Power red	quirements (Voltage, Service, Ø)			
Include any ventilation (no air cond				
	for entire Display		3.9 amps @ 208Y/120 ^v	v 3P

(Include internal structure) 144 lb

End of Section

		Location:	C1 - Centerhung	
Daktronics, Inc.		Model:	DVN-3001-2.5MN-140 2400x3600-AUTOBR-L SBB-CRMP	
Overall Display Size (measured fr	om		Fractional Units (e.g. 2	L8.5')
physical pixel to physical pixel;	not			-
including cabinet)				
	Vertical	19.69	Feet 2400	Pixels
	Horizontal		Feet 3600	Pixels
	Total Number of Physical LEDS	8.6	40,000 LED:	s/each display
	Total Number of Physical Pixels			s/each display
		0,0	+0,000 T IXCI.	by cuch display
OEM LED Module and Processor				
Manufacturer(s)		Daktronics, Inc.	
	Vertical		19.69	Feet
	Horizontal	J	29.53	Feet
	Honzonta	25.55		
<u>PHYSICAL</u> Pixel Pitch (not "lines")	Vertical/Vertical	al 2.5		millimeters
	Horizontal/Horizontal		2.5	millimeters
Physical Pixel Density (not "lines")		14859.51311	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		2.5	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness			1400	Nits
5	Brightness Level adjustment	Full Scale		
	Gradation Method		th Modulation (PWM)	
	Tonal Gradation			
			00º kelvin (adjustable)	°K
	Color Temperature adjustability			<u>. </u>
	IP Rating			
Viewing Angle	s Vertical degrees	+80/-80º	UP	Dn
	Horizontal degrees		160	
Power Consumption	Average (entire display)		9590.4	
	Maximum (entire display)		38361.6	
Normal Power re	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con				
	for entire Display	-	06.6 amps @ 208Y/120	/ 3P

(Include internal structure)

End of Section

		Location:	C2 - Centerhung	
Daktronics, Inc.		Model:	DVN-3001-3.9MN-14 1536x2304-AUTOBR- SBB-CRMP	
Overall Display Size (measured fr	om		Fractional Units (e.g.	18.5')
physical pixel to physical pixel;				·
including cabinet)				
	Vertical	19.69	Feet 1536	6 Pixels
	Horizontal		Feet 2304	
	Total Number of Physical LEDS	3 53	18,944 LEC)s/each display
	Total Number of Physical Pixels			ls/each display
	Total Number of Physical Pixels	5,50		is/each display
OEM LED Module and Processor				
Manufacturer(s)		Daktronics, Inc.	
			10.00	- ·
	Vertical		19.69	Feet
	Horizontal	l29.53		Feet
<u>PHYSICAL</u> Pixel Pitch (not "lines")	•		906	millimeters
	Horizontal/Horizontal	3.	906	millimeters
	,			
Physical Pixel Density (not "lines"			6086.456569	Pixels/sq ft
Virtual Pixel Pitch	"claimed" pixel pitch		3.9	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness			1400	Nits
	Brightness Level adjustment	Full Scale		
	Gradation Method	Pulse Widt	h Modulation (PWM)	
	Tonal Gradation	16-Bit		
	Color Temperature	3,000º-10,0	00º kelvin (adjustable)	°K
	Color Temperature adjustability	3,000º-10,0	00º kelvin (adjustable)	
	IP Rating	NA		
Viewing Angles	s Vertical degrees	+60/-80º	UP	Dn
	Horizontal degrees		160	
Power Consumption	Average (entire display)		9590.4	
	Maximum (entire display)		38361.6	
Normal Power red	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con				
	for entire Display)6.6 amps @ 208Y/120	lv 3P

(Include internal structure)

End of Section

		Location:	D1 & D2 - Corner Dis	plays
Daktronics, Inc.		Model:	DVN-3001-5.9MN-14 882x2268-AUTOBR-I CRMP	
Overall Display Size (measured fr	om		Fractional Units (e.g.	18.5')
physical pixel to physical pixel;				
including cabinet)				
C <i>i</i>	Vertical	17.23	Feet 882	Pixels
	Horizontal	44.29	Feet 226	8 Pixels
	Total Number of Physical LEDS	2,00)0,376 LEI	Ds/each display
	Total Number of Physical Pixels			ls/each display
OEM LED Module and Processor				
Manufacturer(s			Daktronics, Inc.	
Wandactaren(3	1		Daktronics, inc.	
	Vertical		17.23	Feet
	Horizontal		44.29	Feet
	Homzonital		11.25	
PHYSICAL Pixel Pitch (not "lines")	Vertical/Vertical	5.952		millimeters
<u></u> ,, ,, ,, ,	Horizontal/Horizontal		952	millimeters
Physical Pixel Density (not "lines")		2621.323842	Pixels/sq ft
Virtual Pixel Pitch	, "claimed" pixel pitch		6	millimeters
	3 in 1 SMD LED Supplier		NationStar	
Brightness			1400	Nits
Digities	Brightness Level adjustment	Full Scale	1100	11105
	Gradation Method		th Modulation (PWM)	
	Tonal Gradation			
			00º kelvin (adjustable)	°K
	Color Temperature adjustability			
	IP Rating			
Viewing Angles	s Vertical degrees	+60/-809	UP	Dn
	Horizontal degrees		160	
Power Consumption	Average (entire display)		12587.4	
	Maximum (entire display)		50349.6	
	maximum (churc display)		505 15.0	
Normal Power rea	quirements (Voltage, Service, Ø)			
Include any ventilation (no air con				
	for entire Display		39.9 amps @ 208Y/12	Ov 3P

(Include internal structure) 5103 lb

End of Section

		Location:	E - Centerhung Rings		
Daktronics, Inc. Overall Display Size (measured fro	om	Model:	DVN-3051-2.5MN-1400-BR-NM- 400x23200-AUTOBR-LT-SR-FOR- SBB-CRMP - Single Curve - Convex Fractional Units (e.g. 18.5')		
physical pixel to physical pixel; r	not				
including cabinet)					
	Vertical	3.28	Feet 400		
	Horizontal	190.3	Feet 2320	0 Pixels	
	Total Number of Physical LEDS	0.20	30,000 LEE	LEDs/each display Pixels/each display	
	Total Number of Physical Pixels				
	Total Number of Physical Pixels	9,20	50,000 Fixe		
OFM LED Medule and Processor					
OEM LED Module and Processor Manufacturer(s			Daktronics, Inc.		
Manufacturer (5					
	Vertical		3.28		
	Horizontal		190.3		
PHYSICAL Pixel Pitch (not "lines")	Vertical/Vertical		2.5	millimeters	
	Horizontal/Horizontal		2.5	millimeters	
Physical Pixel Density (not "lines"			14867.41089 Pi		
Virtual Pixel Pitch	"claimed" pixel pitch		2.5	millimeters	
	3 in 1 SMD LED Supplier		NationStar		
Brightness			1400 Nits		
	Brightness Level adjustment				
	Gradation Method	Pulse Width Modulation (PWM)			
	Tonal Gradation				
	-		00º kelvin (adjustable)	°К	
		3,000º-10,000º kelvin (adjustable)			
	IP Rating	NA			
Viewing Angles	Vertical degrees	+80/-809	UP	Dn	
	Horizontal degrees		160		
Power Consumption	Average (entire display)	splay) 10300.8			
·	Maximum (entire display)				
Normal Power red	quirements (Voltage, Service, Ø)				
Include any ventilation (no air cone	ditioning allowed) requirements				
	<u>for entire Display</u>	1	14.5 amps @ 208Y/120)v 3P	

(Include internal structure) 4176 lb

End of Section

		Location:	G - Event Floor		
Daktronics, Inc.		Model:	DVN-3001-3.9MN-1400-BR-MA- 192x384-AUTOBR-LT-SR-FOR-SBB- CRMP		
Overall Display Size (measured fr	om		Fractional Units (e.g. 18	.5')
physical pixel to physical pixel;			· · · · ·	Ū	,
including cabinet)					
	Vertical	2.46	Feet	192	Pixels
	Horizontal			384	Pixels
	Total Number of Physical LEDS			each display	
	Total Number of Physical Pixels			Pixels/each display	
	Total Number of Thysical Tixels	,	5,720	плета	cach display
OEM LED Module and Processor					
Manufacturer(s)		Daktronics, In	IC.	
	Vertical		2.46		Feet
	Horizontal	4.92			Feet
			1192		
<u>PHYSICAL</u> Pixel Pitch (not "lines")	Vertical/Vertical	3	3.906		millimeters
	Horizontal/Horizontal	3	3.906		millimeters
Physical Pixel Density (not "lines")		6091.612136		Pixels/sq ft
Virtual Pixel Pitch	claimed" pixel pitch		3.9		millimeters
	3 in 1 SMD LED Supplier		NationStar		
Brightness			1400		Nits
28	Brightness Level adjustment	Full Scale			
	Gradation Method		th Modulation (PW	/M)	
	Tonal Gradation			,	
	Color Temperature		000º kelvin (adiusta	hle)	°K
	Color Temperature adjustability		· •	-	<u> </u>
	IP Rating			uc)	
	in hating				_
Viewing Angles	s Vertical degrees	+60/-80º	UP		Dn
	Horizontal degrees		160		
Power Consumption	Average (entire display)	ay) 199.8			
	Maximum (entire display)				
			, , , , , , , , , , , , , , , , , , , ,		
Normal Power red	quirements (Voltage, Service, Ø)				
Include any ventilation (no air con					
	for entire Display	2.2 amps @ 208Y/120v 3P			
			- p- C - co //-		

(Include internal structure) 81 lb

End of Section

		Location:	cation: G1 - Event Floor		
Daktronics, Inc.		Model:	NPN-6200-1.5MN-1200-BR1-HC- 432x768-AUTOBR-LT-RD-F-SBA- CNTLRM		
Overall Display Size (measured fro physical pixel to physical pixel; i including cabinet)			Fractional Units (e.g. 18.5')		
	Vertical	2.25	Feet 432	Pixels	
	Horizontal		Feet 768		
	Horizonta		100		
	Total Number of Physical LEDS	331,776 LEDs,		Ds/each display	
	Total Number of Physical Pixels			Pixels/each display	
	Total Number of Thysical Tixels	331,770		Fixels/each display	
OEM LED Module and Processor			- 1		
Manufacturer(s)	Daktronics, Inc.			
	Vertical		2.25	Feet	
	Horizontal		4	Feet	
<u>PHYSICAL</u> Pixel Pitch (not "lines")	Vertical/Vertical	1	.588	millimeters	
	Horizontal/Horizontal	1	.588	millimeters	
Physical Pixel Density (not "lines")		36864	Pixels/sq ft	
Virtual Pixel Pitch	"claimed" pixel pitch	1.6		millimeters	
	3 in 1 SMD LED Supplier		NationStar		
Brightness	5		1200		
	Brightness Level adjustment	Full Scale			
	Gradation Method				
	Tonal Gradation				
	Color Temperature	3,000º-10,0	00º kelvin (adjustable)	°K	
	Color Temperature adjustability	3,000º-10,000º kelvin (adjustable))	
	IP Rating	NA			
Viewing Angles	s Vertical degrees	+80/-80º	UP	Dn	
	Horizontal degrees		160		
Power Consumption	Average (entire display)				
	Maximum (entire display)				
Normal Power red	quirements (Voltage, Service, Ø)				
Include any ventilation (no air con	ditioning allowed) requirements				
	for entire Display		1.8 amps @ 208Y/120	v 3P	

(Include internal structure) 62.8 lb

End of Section

		Location:	Location: G2 - Event Floor		
Daktronics, Inc.		Model:	NPN-6200-2.5MN-1500-BR1-HC- 270x480-AUTOBR-LT-RD-F-SBA- CNTLRM		
Overall Display Size (measured free	om		Fractional Units (e.g	. 18.5')	
physical pixel to physical pixel;	not				
including cabinet)					
	Vertical	2.25	Feet 270	D Pixels	
	Horizontal	4	Feet 480) Pixels	
				/	
	Total Number of Physical LEDS			LEDs/each display	
	Total Number of Physical Pixels	12	29,600 Pixe	Pixels/each display	
OEM LED Module and Processor					
Manufacturer(s)	Daktronics, Inc.			
	Vertical	2.25		Feet	
	Horizontal	4		Feet	
PHYSICAL Pixel Pitch (not "lines")	Vertical/Vertical	2.541		millimeters	
	Horizontal/Horizontal	2	2.541	millimeters	
Physical Pixel Density (not "lines")	14400 Pi		Pixels/sq ft	
Virtual Pixel Pitch	"claimed" pixel pitch	2.5		millimeters	
	3 in 1 SMD LED Supplier		NationStar		
Brightness	5	1500 N		Nits	
	Brightness Level adjustment	Full Scale			
	Gradation Method				
	Tonal Gradation	n 16-Bit			
	Color Temperature	re 3,000º-10,000º kelvin (adjustable)) °K	
	Color Temperature adjustability	/ 3,000º-10,000º kelvin (adjustable))	
	IP Rating		· •	·	
	-	1			
Viewing Angles	s Vertical degrees	+80/-80º	UP	Dn	
	Horizontal degrees		160		
Power Consumption	Average (entire display)	play) 158.76			
	Maximum (entire display)				
Normal Power red	quirements (Voltage, Service, Ø)				
Include any ventilation (no air con					
	for entire Display	1.8 amps @ 208Y/120v 3P			

(Include internal structure) 62.8 lb

End of Section