



AF-2113, 5110 & 5310 Series

OUTDOOR — PROSTAR VIDEO DISPLAYS



Malaysian Rubber Board
Kuala Lumpur, Malaysia
192x256 matrix 23 mm RGB

ProStar® Full-Color Outdoor Video Displays

- Daktronics is the world leader in providing flexible and reliable LED video and advertising displays.
- Daktronics makes significant investments in ongoing research and development to provide products and features that meet customers' needs.
- More than 1,000 Daktronics full-color LED displays have been installed worldwide.
- Display video or animated advertisements as well as graphic text messages.
- Modular display construction allows for virtually any size or shape of display.
- Remove modules from the front or rear of the display for easy maintenance and servicing.

Unparalleled Picture Quality

- Images in up to 4.3 trillion color shades will dazzle any audience.
- Daktronics unique calibration process ensures consistent module intensity across the entire display; this avoids the "patchwork" effect common with other manufacturers' displays.
- Daktronics uses the highest quality red, green and blue LEDs to provide wide-viewing angles and maximum brightness.
- A patented module design with louvered pixels provides better contrast and less glare from the face of the display.
- Daktronics uses time-proven cabinet weather-proofing methods.
- Display brightness levels are easily adjusted to achieve the best possible viewing for various lighting conditions.
- Various pixel pitches are available to design a video display with the right resolution and viewing distance to fit any application.

Complete Control

- Daktronics is the clear choice for customers exploring unique applications of LED technology.
- Design and control non-traditional display shapes.
- ProStar display systems eliminate the constraints associated with other LED video display systems.
- Daktronics has more than 35 years of experience controlling displays of all types.
- Manage numerous displays over LAN or WAN.
- Download display content over the Internet.
- Receive and display live news updates, sports scores and stock quotes.
- Send event triggers to external equipment.
- Adjust color, gamma and brightness settings for each module or the entire display.
- Log advertising messages and give proof-of-performance reports as customers demand.
- Use scripting commands to control display operation.
- Work with a seasoned team of applications engineers to help maximize results.



Dixie Stampede
Branson, Missouri
208x288 matrix 16.5 mm RGB

DAKTRONICS



Southern California Racing at Santa Anita Park - Breeders' Cup
Santa Anita, California
 112x512 matrix 23 mm RGB

4.3 Trillion Colors

AF-2113 Technical Specifications			
Pixel pitch (c-c)	16.5 mm	20 mm	23 mm
Pixel arrangement (red/green/blue LEDs)	1R/1G/1B	1R/1G/1B	1R/1G/1B
Module configuration (pixels H x pixels W)	16x16	16x16	16x16
Module size (H x W)	10.4"x10.4" 264 x 264 mm	12.5"x12.5" 317 x 317 mm	14.4"x14.4" 365 x 365 mm
Display weight per module	11 lb 4.99 kg	14 lb 6.35 kg	16 lb 7.26 kg
Minimum viewing distance	37.22' 11.34 m	45.11' 13.75 m	51.88' 15.81 m
Minimum character height	4.5" 115 mm	5.5" 140 mm	6.3" 161 mm
Watts per module	77	99	132
Intensity (nits)	5,000		
Horizontal viewing angle	140 degrees		
Vertical viewing angle	60 degrees		
LED lifetime	100,000 hours		

1 Billion Colors

AF-5110/AF-5310 Technical Specifications				
Pixel pitch (c-c)	AF-5110		AF-5310	
	23 mm	34 mm	46 mm	89 mm
Pixel arrangement (red/green/blue LEDs)	1R/1G/1B	1R/1G/1B	2R/2G/2B	8R/8G/8B
Module configuration (pixels H x pixels W)	16x16	8x8	8x8	8x8
Module size (H x W)	14.4"x14.4" 36.58x36.58 cm	10.64"x10.64" 27.03x27.03 cm	14.4"x14.4" 36.58x36.58 cm	28"x28" 71.12x71.12 cm
Display weight per module	16 lb 7.26 kg	11 lb 4.99 kg	16 lb 7.26 kg	41 lb 18.52 kg
Minimum viewing distance	51.88' 15.81 m	76.70' 23.38 m	104' 31.63 m	200.76' 61.19 m
Minimum character height	6.3" 161 mm	9.4" 238 mm	12.7" 322 mm	25" 623 mm
Watts per module	79	34	55	215
Intensity (nits)	5,000		5,000	
Horizontal viewing angle	140 degrees		90 degrees	
Vertical viewing angle	60 degrees		40 degrees	
LED lifetime	100,000 hours		100,000 hours	



Grand Casino
Gulfport, Mississippi
 144x272 matrix 23 mm RGB



Gulf Coast Medical Center
Biloxi, Mississippi
 72x96 matrix 34 mm RGB



Cobb Galleria Centre
Atlanta, Georgia
 112x272 matrix 34 mm RGB



AF-2113, 5110 & 5310 Series

OUTDOOR — PROSTAR VIDEO DISPLAYS



Venus® 7000 controller



V-Link® video processor



ProStar® 16.5 mm outdoor module

Model Number Guide

AF-2113-80x112-23-RGB

Matrix	LED Outdoor	Series Number	Pixel Pitch	Matrix Height	Matrix Length	Red, Green and Blue LEDs
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DAKTRONICS



16.5 mm (.65") AF-2113 Model Specifications

(All Specifications are Approximate)

Matrix Size	Approx. Cabinet Dimensions Ft-In (H x W)	Approx. Cabinet Dimensions Meters (H x W)	Approx. Weight Pounds (kg)	Total Pixels	Max. Power Usage Watts/Face
80x112	5'4" x 7'1"	1.63 x 2.16	385 (175)	8,960	2,695
96x128	6'2" x 7'11"	1.89 x 2.42	528 (240)	12,288	3,696
112x128	7'1" x 7'11"	2.16 x 2.42	616 (280)	14,336	4,312
128x176	7'11" x 10'6"	2.42 x 3.20	968 (439)	22,528	6,776
144x192	8'2" x 11'5"	2.49 x 3.48	1,188 (539)	27,648	8,316
160x208	9'4" x 12'3"	2.84 x 3.74	1,430 (649)	33,280	10,010
160x320	9'4" x 18'4"	2.84 x 5.59	2,200 (999)	51,200	15,400
160x384	9'4" x 21'2"	2.84 x 6.65	2,694 (1,999)	61,440	18,480
176x224	10'6" x 13'2"	3.20 x 4.00	1,694 (769)	39,424	11,858
192x256	11'5" x 14'2"	3.48 x 4.53	2,112 (959)	49,152	14,784
192x352	11'5" x 20'1"	3.48 x 6.12	2,904 (1,318)	67,584	20,328
192x448	11'5" x 25'3"	3.48 x 7.70	3,696 (1,678)	86,016	25,872
208x272	12'3" x 15'3"	3.74 x 4.65	2,431 (1,104)	56,576	17,017
224x288	13'2" x 16'5"	4.00 x 5.06	2,772 (1,258)	64,512	19,404
256x352	14'2" x 20'1"	4.32 x 6.12	3,872 (1,758)	90,112	27,104
288x384	16'5" x 21'2"	5.06 x 6.45	4,752 (2,157)	110,592	33,264
320x416	18'4" x 23'6"	5.59 x 7.17	5,720 (2,597)	133,120	40,040
352x480	20'1" x 27'0"	6.12 x 8.23	7,260 (3,296)	168,960	50,820
384x512	21'2" x 28'3"	6.45 x 8.76	6,798 (3,086)	196,608	47,586
416x544	23'6" x 30'6"	7.17 x 9.29	9,724 (4,415)	226,304	68,068
432x576	24'5" x 32'2"	7.44 x 9.80	10,692 (4,854)	248,832	74,844
448x592	25'3" x 33'1"	7.70 x 10.08	11,396 (5,174)	265,216	79,772

Additional matrix sizes are available

Measurements are approximate. For precise measurements, request a Daktronics shop drawing.



23 mm (.90") AF-2113 Model Specifications

(All Specifications are Approximate)

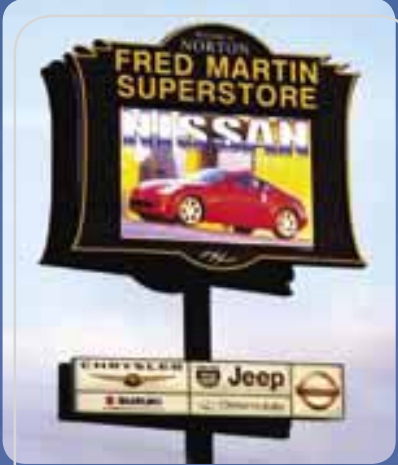
Matrix Size	Approx. Cabinet Dimensions Ft-In (H x W)	Approx. Cabinet Dimensions Meters (H x W)	Approx. Weight Pounds (kg)	Total Pixels	Max. Power Usage Watts/Face
80x112	7'0" x 9'5"	2.13 x 2.87	560 (254)	8,960	4,620
96x128	8'2" x 10'7"	2.49 x 3.23	768 (349)	12,288	6,336
112x144	9'5" x 11'10"	2.87 x 3.61	896 (407)	16,128	8,316
128x176	10'7" x 14'2"	3.23 x 4.32	1,408 (639)	22,528	11,616
144x192	11'10" x 15'5"	3.61 x 4.70	1,728 (785)	27,648	14,256
160x208	13'0" x 16'5"	3.96 x 5.00	2,080 (944)	33,280	17,160
160x320	13'0" x 25'0"	3.96 x 7.62	3,200 (1,453)	51,200	26,400
160x384	13'0" x 29'10"	3.96 x 9.09	3,840 (1,743)	61,440	31,680
176x224	14'3" x 17'10"	4.34 x 5.44	2,464 (1,119)	39,424	20,328
192x256	15'5" x 20'2"	4.70 x 6.15	3,072 (1,395)	49,152	25,344
192x352	15'5" x 27'5"	4.70 x 8.36	4,224 (1,918)	67,584	34,848
192x448	15'5" x 34'7"	4.70 x 10.54	5,376 (2,441)	86,016	44,352
208x272	16'7" x 21'5"	5.05 x 6.53	3,536 (1,605)	56,576	29,172
224x304	17'10" x 23'10"	5.44 x 7.26	4,032 (1,831)	68,096	35,112
256x336	20'2" x 26'2"	6.15 x 7.98	5,632 (2,557)	86,016	44,352
288x384	22'7" x 29'10"	6.88 x 9.09	6,912 (3,138)	110,592	57,024
320x416	25'0" x 32'2"	7.62 x 9.80	8,320 (3,777)	133,120	68,640
352x480	27'5" x 37'0"	8.36 x 11.28	10,560 (4,794)	168,960	87,120
384x512	29'10" x 39'5"	9.09 x 12.01	12,288 (5,579)	196,608	101,376
416x544	32'2" x 41'10"	9.80 x 12.75	14,144 (6,421)	226,304	116,688
432x576	33'5" x 44'2"	10.19 x 13.46	15,552 (7,061)	248,832	128,304
448x592	34'7" x 45'5"	10.54 x 13.84	16,576 (7,526)	265,216	136,752

Additional matrix sizes are available

Measurements are approximate. For precise measurements, request a Daktronics shop drawing.



**Lamar Outdoor Advertising
Cincinnati, Ohio**
112x208 matrix 34 mm RGB



**Fred Martin SuperStore
Norton, Ohio**
160x240 matrix 23 mm RGB



**Little River Casino Resort
Manistee, Michigan**
96x128 matrix 34 mm RGB



**Uptown Park
Houston, Texas**
112x192 matrix 23 mm RGB



34 mm (1.33") AF-5110 Model Specifications

(All Specifications are Approximate)

Matrix Size	Approx. Cabinet Dimensions Ft-In (H x W)	Approx. Cabinet Dimensions Meters (H x W)	Approx. Weight Pounds (kg)	Total Pixels	Max. Power Usage Watts/Face
56x64	7'2" x 8'1"	2.19 x 2.46	616 (254)	3,584	2,520
72x96	9'0" x 11'8"	2.74 x 3.54	1,188 (349)	6,912	4,860
80x160	9'10" x 18'3"	3.00 x 5.56	2,640 (407)	12,800	9,000
80x192	9'10" x 22'3"	3.00 x 6.79	2,640 (639)	15,360	10,800
88x112	10'9" x 13'5"	3.27 x 4.08	1,694 (785)	9,856	6,930
96x128	11'8" x 15'2"	3.54 x 4.62	2,112 (944)	12,288	8,640
96x176	11'8" x 20'6"	3.54 x 6.25	2,904 (1,453)	16,896	11,880
96x224	11'8" x 25'10"	3.54 x 7.87	3,696 (1,743)	21,504	15,120
112x144	13'5" x 17'0"	4.08 x 5.16	2,772 (1,119)	16,128	11,340
128x176	15'2" x 20'6"	4.62 x 6.25	3,872 (1,395)	22,528	15,840
144x192	17'0" x 22'3"	5.16 x 6.79	4,752 (1,918)	27,648	19,440
160x208	18'3" x 24'1"	5.56 x 7.33	5,720 (2,441)	33,280	23,400
176x240	20'6" x 27'7"	6.25 x 8.42	7,260 (1,605)	42,240	29,700
192x256	22'3" x 29'4"	6.79 x 8.95	8,448 (1,831)	49,152	34,560
208x272	24'1" x 31'2"	7.33 x 9.49	9,724 (2,557)	56,576	39,780
216x288	24'11" x 32'11"	7.60 x 10.03	10,692 (3,138)	62,208	43,740
240x320	27'7" x 35'6"	8.42 x 11.11	13,200 (3,777)	76,800	54,000

Additional matrix sizes are available

Measurements are approximate. For precise measurements, request a Daktronics shop drawing.



46 mm AF-5310 (1.81") Model Specifications

(All Specifications are Approximate)

Matrix Size	Approx. Cabinet Dimensions Ft-In (H x W)	Approx. Cabinet Dimensions Meters (H x W)	Approx. Weight Pounds (kg)	Total Pixels	Max. Power Usage Watts/Face
56x64	9'5" x 11'2"	2.87 x 3.41	896 (407)	3,584	3,080
72x96	11'10" x 15'5"	3.61 x 4.69	1,728 (784)	6,912	5,940
80x160	13'0" x 25'0"	3.96 x 7.62	3,200 (1,452)	12,800	11,000
80x192	13'0" x 29'10"	3.96 x 9.09	3,840 (1,742)	15,360	13,200
88x112	14'2" x 17'9"	4.32 x 5.43	2,464 (1,118)	9,856	8,470
96x128	15'5" x 20'2"	4.70 x 6.16	3,072 (1,394)	12,288	10,560
96x176	15'5" x 27'5"	4.70 x 8.35	4,224 (1,917)	16,896	14,520
96x224	15'5" x 34'7"	4.70 x 10.55	5,376 (2,439)	21,504	18,480
112x144	17'9" x 22'7"	5.43 x 6.88	4,032 (1,830)	16,128	13,860
128x176	20'2" x 27'5"	6.16 x 8.35	5,632 (2,556)	22,528	19,360
144x192	22'7" x 29'10"	6.88 x 9.08	6,912 (3,136)	27,648	23,760
160x208	25'0" x 32'2"	7.62 x 9.81	8,320 (3,775)	33,280	28,600
176x240	27'5" x 37'0"	8.35 x 11.28	10,560 (4,792)	42,240	36,300
192x256	29'10" x 39'5"	9.09 x 12.01	12,288 (5,576)	49,152	42,240
208x272	32'2" x 41'10"	9.80 x 12.75	14,144 (6,418)	56,576	48,620
216x288	33'5" x 44'2"	10.19 x 13.46	15,552 (7,057)	62,208	53,460
240x320	37'0" x 49'0"	11.28 x 14.94	19,200 (8,712)	76,800	66,000

Additional matrix sizes are available

Measurements are approximate. For precise measurements, request a Daktronics shop drawing.