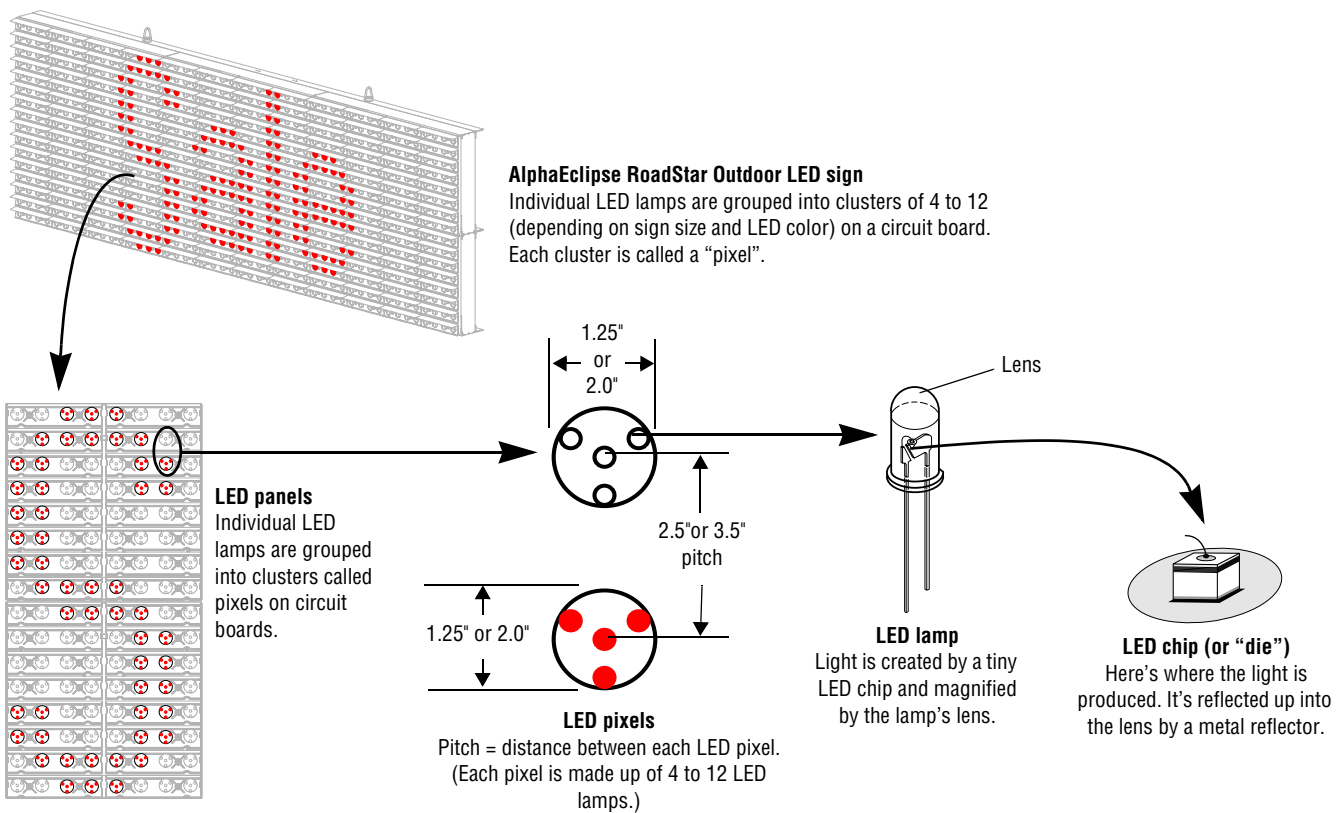


FYI

- LED signs are more readable, both day and night, than incandescents (US Dept. of Transportation 1998 study).
- LEDs will last far longer than incandescent lights. For example, with the AlphaEclipse sign, after 100,000 hours (over 11 years) of continuous use, we can be 98.33% certain that all the sign's LEDs will still be working.
- LEDs use much less power than incandescent lights. A pixel on an AlphaEclipse sign uses only 40% as much power as a comparable incandescent bulb.

Anatomy of an AlphaEclipse RoadStar sign



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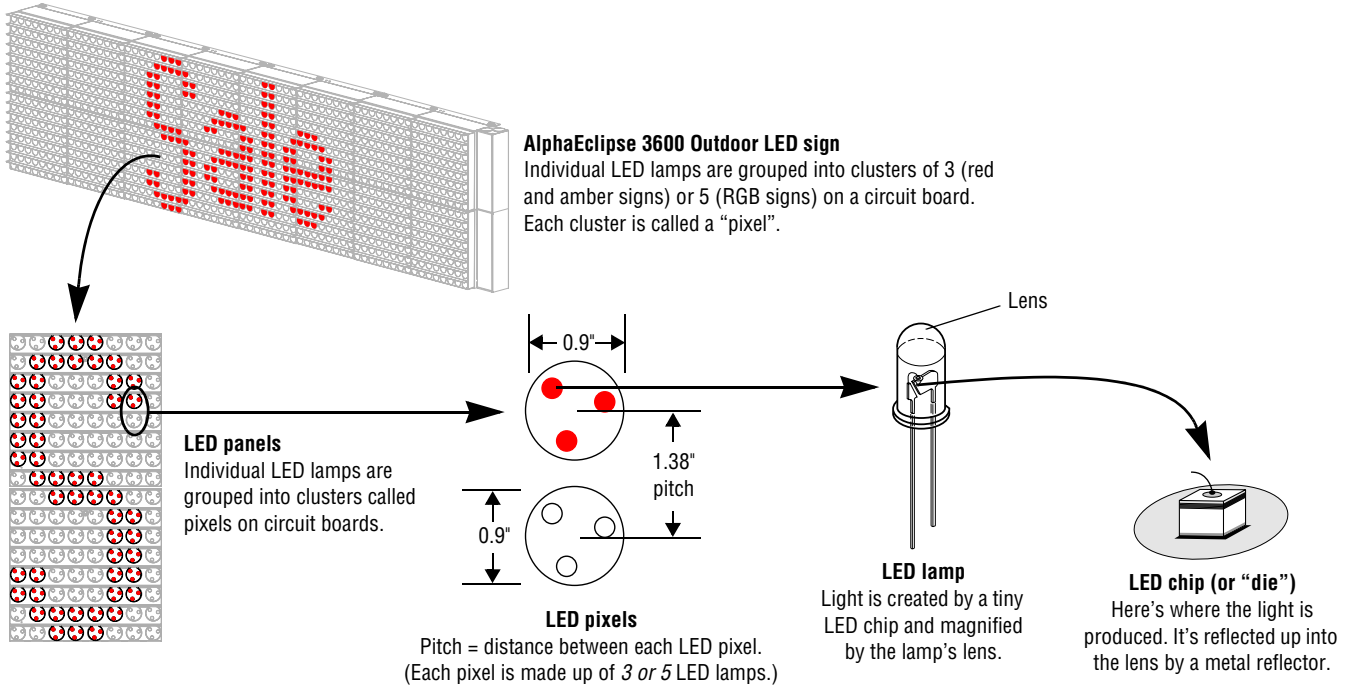
Adaptive Micro Systems • 7840 North 86th Street • Milwaukee, WI 53224 USA • 414-357-2020 • 414-357-2029 (fax) • <http://www.adaptivedisplays.com>

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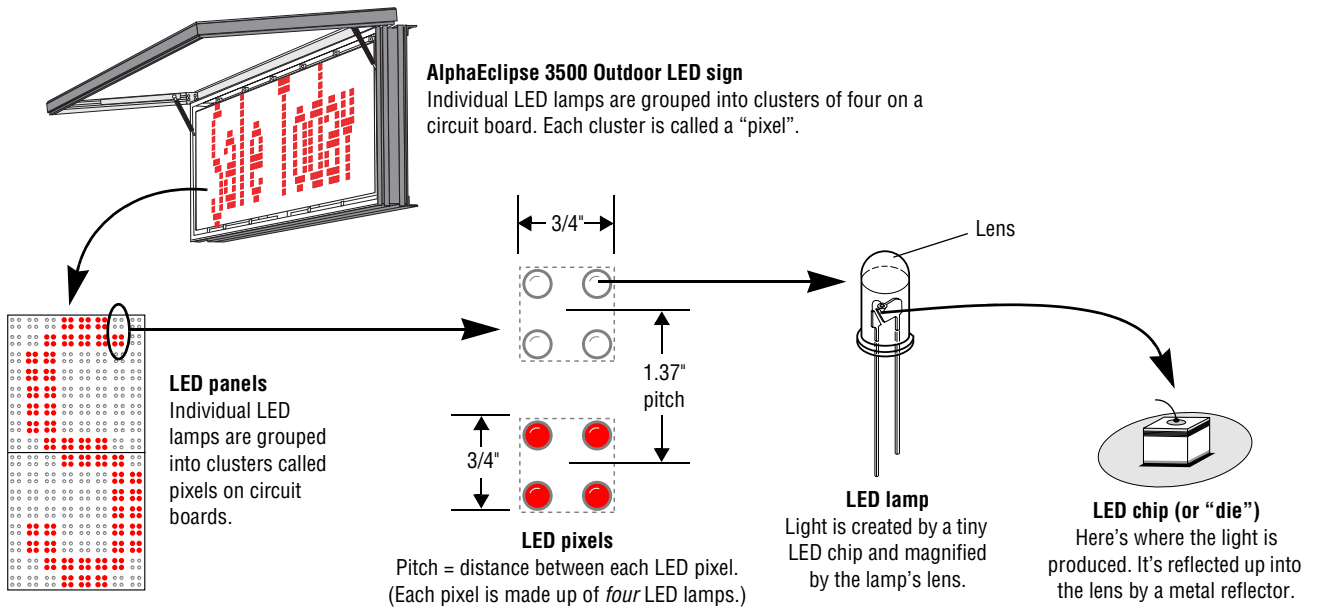
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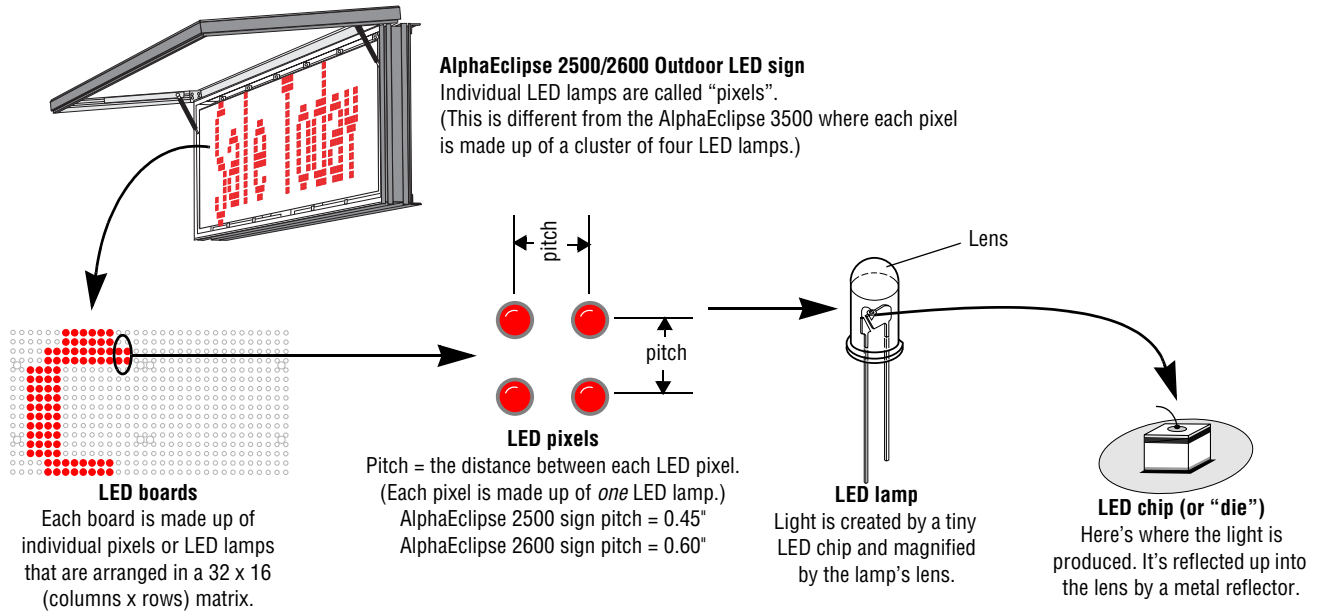
Anatomy of an AlphaEclipse 3600 sign



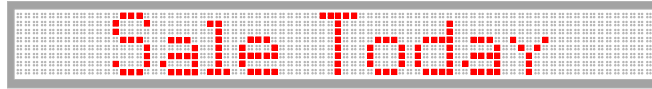
Anatomy of an AlphaEclipse 3500 sign



Anatomy of an AlphaEclipse 2500/2600 sign



Character sizes on AlphaEclipse signs

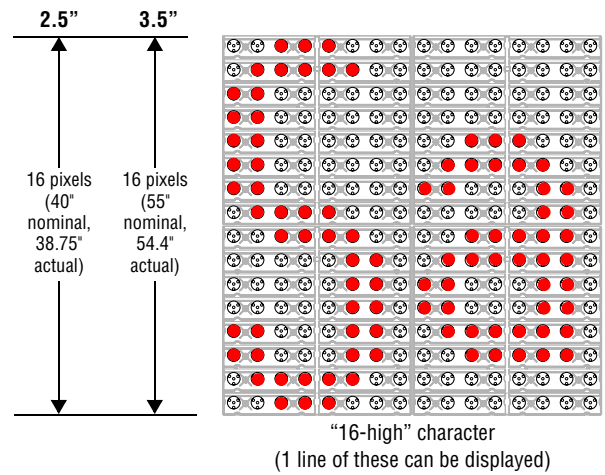
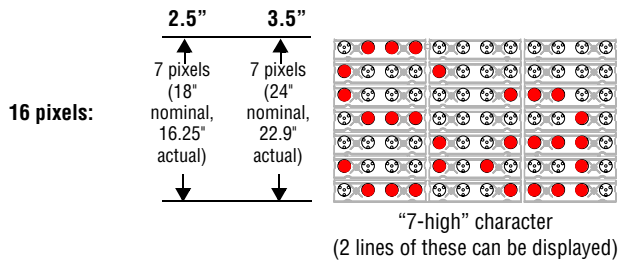
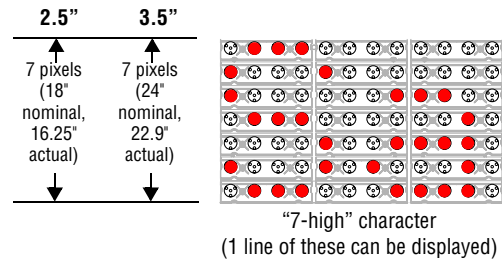
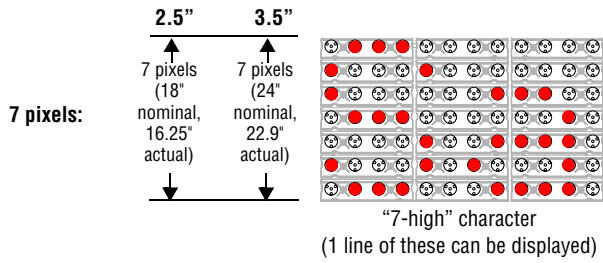


AlphaEclipse RoadStar 2.5 and 3.5-inch pitch sign character sizes:

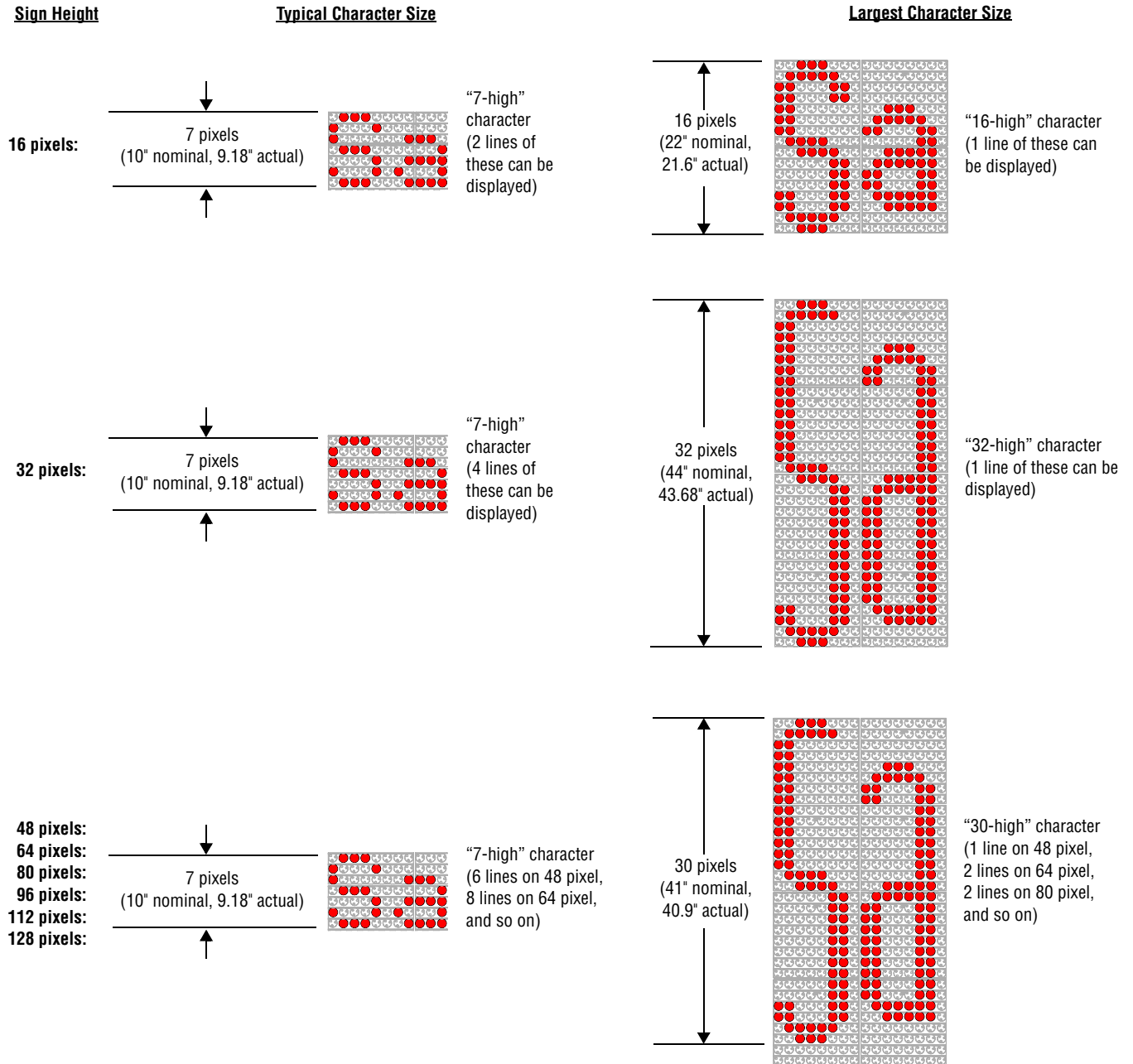
Sign Height

Typical Character Size

Largest Character Size



AlphaEclipse 3600 sign character sizes:

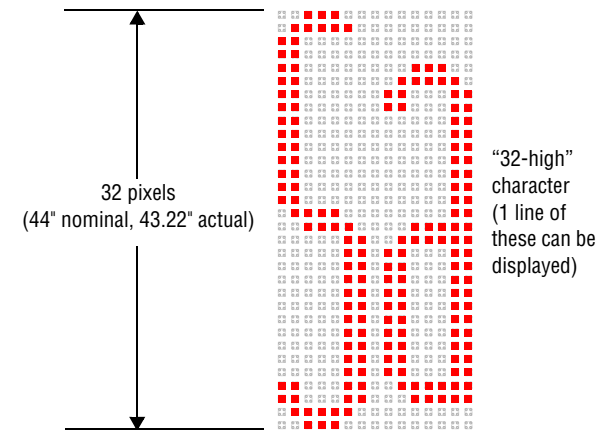
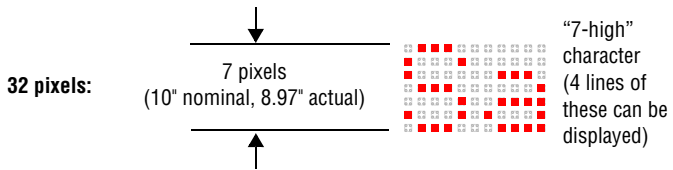
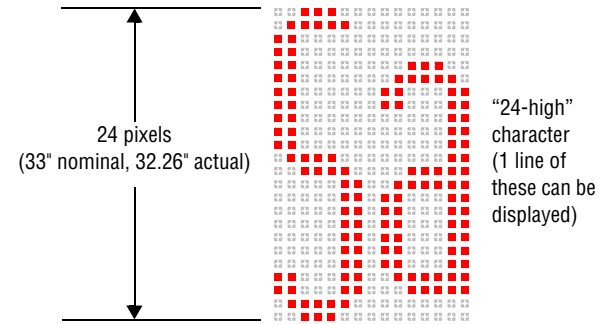
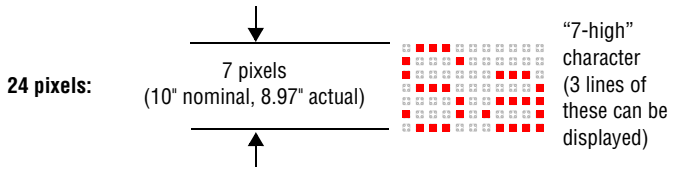
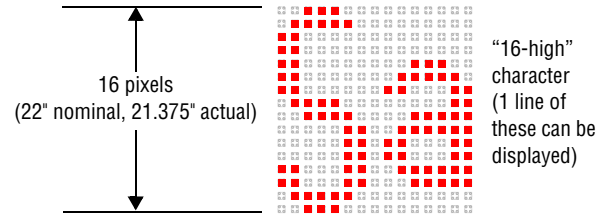
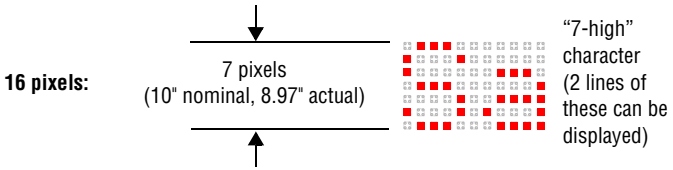
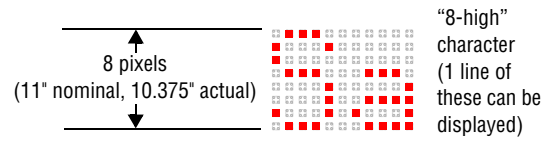
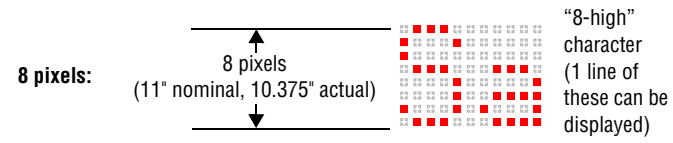


AlphaEclipse 3500 sign character sizes:

Sign Height

Typical Character Size

Largest Character Size

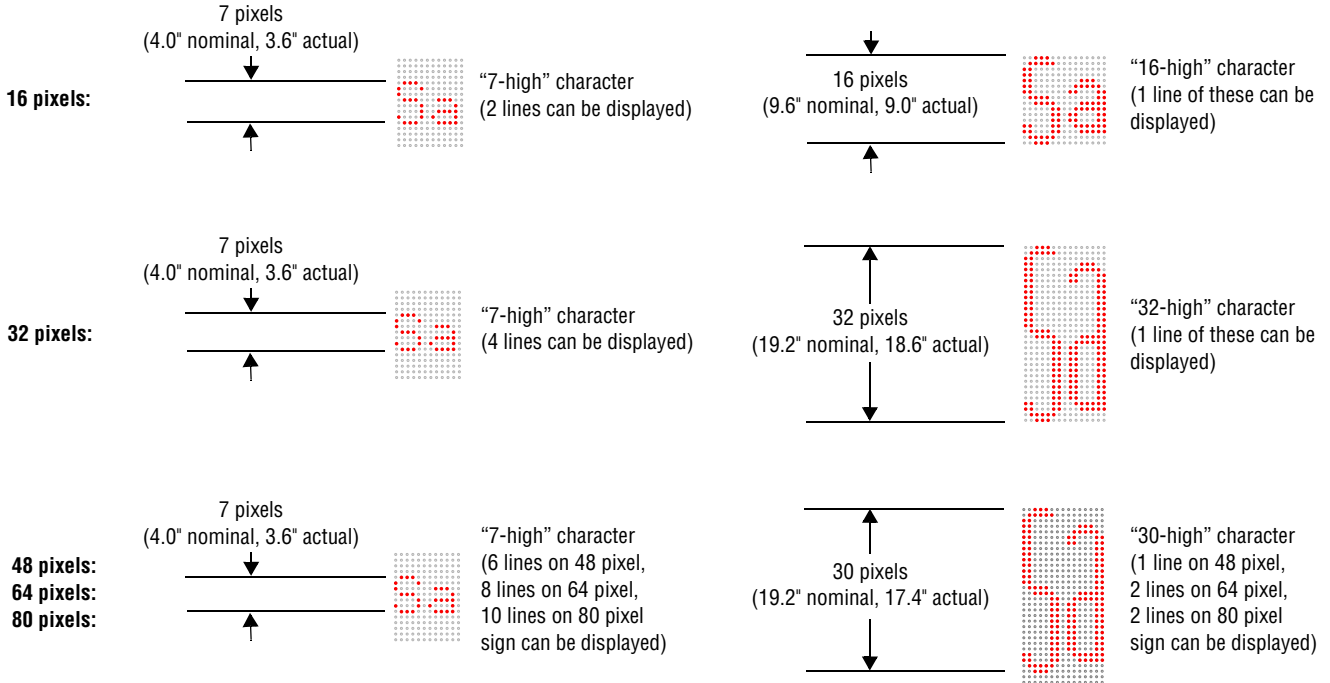


AlphaEclipse 2600 sign character sizes:

Sign Height

Typical Character Size

Largest Character Size

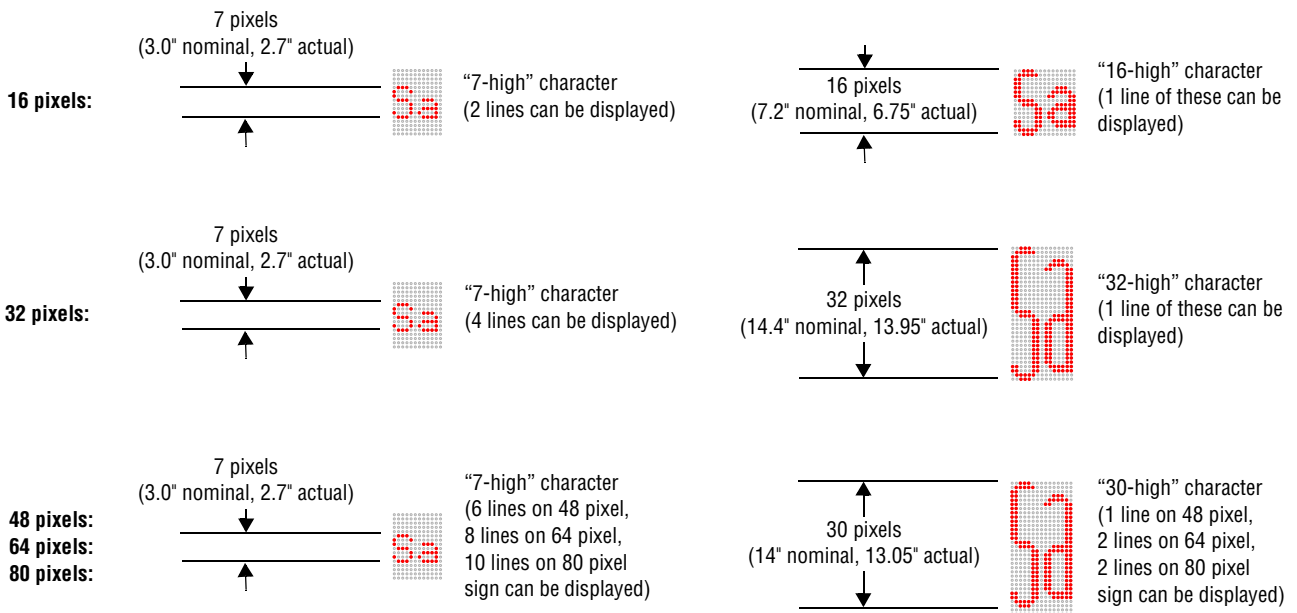


AlphaEclipse 2500 sign character sizes:

Sign Height

Typical Character Size

Largest Character Size

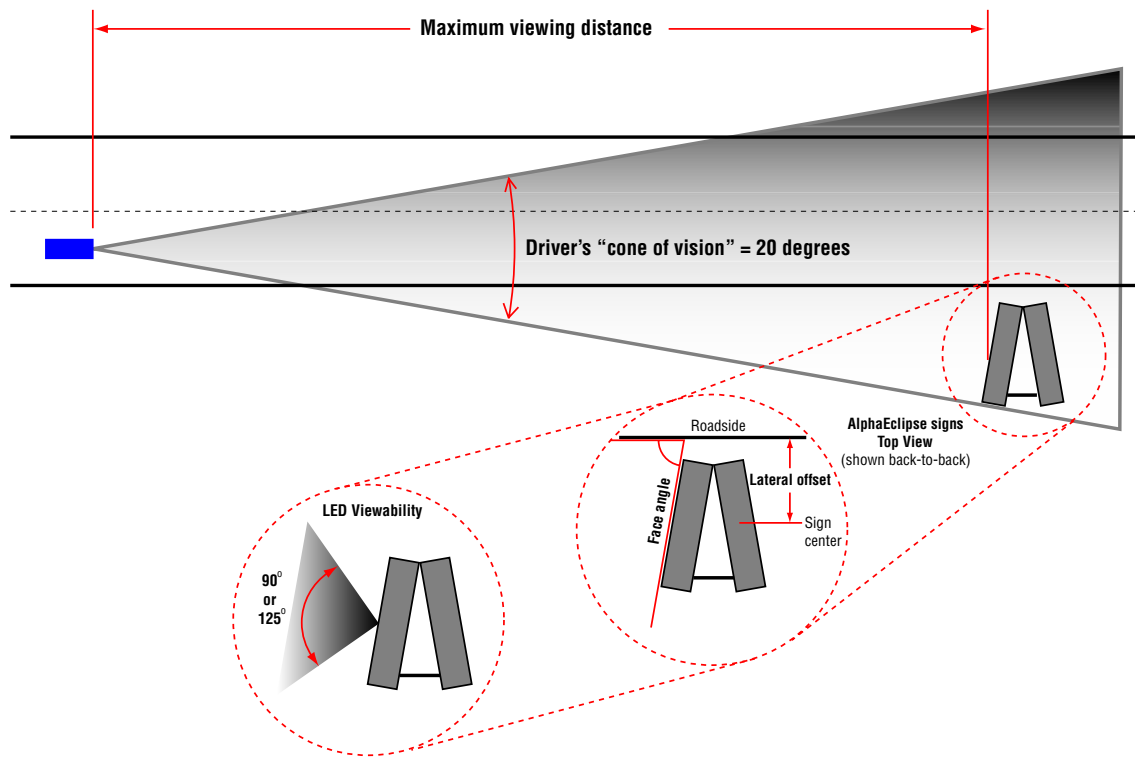


How to select an AlphaEclipse sign

How far must the sign be visible?

AlphaEclipse sign selection criteria include:

- Character size/pixel pitch — 1" = 40' of visibility.
- Sign face angles — Optimum viewing may require the face of the sign to be angled.
- LED visibility/visibility — Viewing angle for both faces of the sign.
- Brightness/contrast/night time dimming — Automatic or scheduled dim times and percentages.
- Maximum and minimum viewing distance — Determines character size, length of sign, and viewing times.
- Lateral offset — This depth determines the face angle. The greater the lateral offset, the greater the face angle that will be required for maximum viewing distance. Consider angles for both faces.



Someone in a car travelling at . . .		Approximate viewing (max)		Then select a sign with . . .	AlphaEclipse sign model (pitch shown below)					
MPH	ft/sec	Secs	Ft	Character size (in)	RoadStar		3600	3500	2600	2500
					89mm (3.5 in)	64mm (2.5 in)	35mm (1.375 in)	35mm (1.375 in)	15mm (0.6 in)	11mm (0.45 in)
75	110	18	1950	36 - 48						
65	95	15	1450	24 - 36						
55	81	12	950	18 - 24						
45	66	11	750	12 - 18						
35	51	9	450	6 - 12						
25	37	8	320	4 - 8						

How much information needs to be displayed?

While an electronic sign could display an endless stream of messages, it's highly desirable to have an entire message displayed in as short a time as possible. Basically, longer messages = a longer sign.

To estimate an average message length, create several messages that would be appropriate for a particular application (e.g., "Tune-up special \$49.85"). Then use the following chart as a guide:

Model	Lines	Columns x Rows (RoadStar)	Maximum Characters per Line for each character size							
			4 x 5	5 x 7	8 x 10	7 x 15	7 x 16	8 x 20	7 x 24	7 x 32
AlphaEclipse RoadStar/3500 sign	1	64 x 8 (7)	13	10	-	-	-	-	-	-
		80 x 8 (7)	16	13	-	-	-	-	-	-
		96 x 8 (7)	19	16	-	-	-	-	-	-
		112 x 8 (7)	22	18	-	-	-	-	-	-
		128 x 8 (7)	26	21	-	-	-	-	-	-
		144 x 8 (7)	29	24	-	-	-	-	-	-
	2	64 x 16	-	10	-	-	7	-	-	-
		80 x 16	-	13	-	-	8	-	-	-
		96 x 16	-	16	-	-	10	-	-	-
		112 x 16	-	18	-	-	12	-	-	-
		128 x 16	-	21	-	-	14	-	-	-
		144 x 16	-	24	-	-	16	-	-	-
	3	64 x 24	12	10	7	7	-	7	7	-
		80 x 24	16	13	8	8	-	8	8	-
		96 x 24	19	16	10	10	-	10	10	-
		112 x 24	22	18	12	12	-	12	12	-
		128 x 24	25	21	14	14	-	14	14	-
	4	64 x 32	12	10	7	7	-	7	-	7
		80 x 32	16	13	8	8	-	8	-	8
		96 x 32	19	16	10	10	-	10	-	10
112 x 32		22	18	12	12	-	12	-	12	
128 x 32		25	21	14	14	-	14	-	14	
AlphaEclipse 3600/2600/2500 sign	1	96 x 16	19	16	10	-	10	-	-	-
		128 x 16	25	21	14	-	14	-	-	-
		160 x 16	32	26	17	-	17	-	-	-
		192 x 16	38	32	21	-	21	-	-	-
	2	96 x 32	19	16	10	10	-	10	-	10
		128 x 32	25	21	14	14	-	14	-	14
		160 x 32	32	26	17	17	-	17	-	17
		192 x 32	38	32	21	21	-	21	-	21
	3	96 x 48	19	16	10	10	-	10	-	10
		128 x 48	25	21	14	14	-	14	-	14
		160 x 48	32	26	17	17	-	17	-	17
		192 x 48	38	32	21	21	-	21	-	21
	4	96 x 64	19	16	10	10	-	10	-	10
		128 x 64	25	21	14	14	-	14	-	14
		160 x 64	32	26	17	17	-	17	-	17
		192 x 64	38	32	21	21	-	21	-	21
	5	96 x 80	19	16	10	10	-	10	-	10
		128 x 80	25	21	14	14	-	14	-	14
		160 x 80	32	26	17	17	-	17	-	17
		192 x 80	38	32	21	21	-	21	-	21

NOTE: Many additional sign sizes are available. Please consult your AlphaEclipse dealer.

