

I.B.O. Associates

LED Electronic Message Centers

20mm Pitch



IBO Associates **Traditional Series** 20mm outdoor displays offer two to twelve lines of content and are ideal for close to mid-range viewing while providing dynamic text, graphics and animations. This common display application will bring you great image resolution with increased distance viewability and advertising value. According to the US Small Business Administration outdoor LED displays can increase sales 15 to 150% while costing a tenth of other advertising media.

Standard Features:

- Ultra-bright LEDs—uses the brightest LED technology available
- Front access with windowless design that is brighter and easier to maintain.
- Long-life 100,000 hour LEDs are up to 90% more efficient.
- 100% solid state - no moving parts.
- Beautifully styled aluminum cabinetry with 30% gloss black polyurethane finish for cost saving thermal control.
- Easy-to-use, software.
- All electronics are assembled in a state-of-the-art facility, featuring computerized assembly and computerized testing.
- Rugged Traditional aluminum cabinet and modules to ensure your sign continues to work for you, year after year.
- Worry-free access security – the only messages you see are the ones you authorize ... from the sign, the office, your home, or the other side of the world.
- 5 Year Manufacturer's Parts Warranty, including a designated laptop with operating software.

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Model	Height	Width	Power Ratings	4" Text	5.5" Text	13" Text	Weight
Cabinet			(SS/DS)	(readable from 200ft.)	(readable from 275ft.)	(readable from 650ft.)	(SS/DS)
e20- 16x32	1'-4"	2'-5"	44/88 W max	2 lines of 6	2 lines of 5	1line of 3	49/92 lbs.
e20- 16x64	1'-4"	4'-6"	76/152 W max	2 lines of 12	2 lines of 10	1line of 7	76/140 lbs.
e20- 16x80	1'-4"	5'-7"	95/190 W max	2 lines of 16	2 lines of 13	1line of 8	93/174 lbs.
e20- 16x96	1'-4"	6'-7"	114/228 W max	2 lines of 19	2 lines of 16	1line of 10	107/199 lbs.
e20- 16x112	1'-4"	7'-8"	139/278 W max	2 lines of 22	2 lines of 18	1line of 12	122/225 lbs.
e20- 16x128	1'-4"	8'-8"	158/316 W max	2 lines of 25	2 lines of 21	1line of 14	136/251 lbs.
e20- 16x144	1'-4"	9'-9"	183/366 W max	2 lines of 28	2 lines of 24	1line of 16	155/285 lbs.
e20- 32x32	2'-5"	2'-5"	82/164 W max	5 lines of 6	4 lines of 5	1line of 3	69/127 lbs.
e20- 32x64	2'-5"	4'-6"	164/328 W max	5 lines of 12	4 lines of 10	1line of 7	114/206 lbs.
e20- 32x80	2'-5"	5'-7"	202/404 W max	5 lines of 16	4 lines of 13	1line of 8	138/249 lbs.
e20- 32x96	2'-5"	6'-7"	240/480 W max	5 lines of 19	4 lines of 16	1line of 10	157/283 lbs.
e20- 32x112	2'-5"	7'-8"	278/556 W max	5 lines of 22	4 lines of 18	1line of 12	181/326 lbs.
e20- 32x128	2'-5"	8'-8"	316/632 W max	5 lines of 25	4 lines of 21	1line of 14	201/361 lbs.
e20- 32x144	2'-5"	9'-9"	354/708 W max	5 lines of 28	4 lines of 24	1line of 16	225/404 lbs.
e20- 48x64	3'-6"	4'-6"	240/480 W max	6 lines of 12	6 lines of 10	2 lines of 7	150/268 lbs.
e20- 48x80	3'-6"	5'-7"	297/594 W max	6 lines of 16	6 lines of 13	2 lines of 8	180/320 lbs.
e20- 48x96	3'-6"	6'-7"	354/708 W max	6 lines of 19	6 lines of 16	2 lines of 10	210/373 lbs.
e20- 48x112	3'-6"	7'-8"	411/822 W max	6 lines of 22	6 lines of 18	2 lines of 12	240/425 lbs.
e20- 48x128	3'-6"	8'-8"	468/936 W max	6 lines of 25	6 lines of 21	2 lines of 14	266/470 lbs.
e20- 48x144	3'-6"	9'-9"	537/1074 W max	6 lines of 28	6 lines of 24	2 lines of 16	297/524 lbs.
e20- 64x64	4'-6"	4'-6"	316/632 W max	10 lines of 12	8 lines of 10	3 lines of 7	186/330 lbs.
e20- 64x80	4'-6"	5'-7"	392/784 W max	10 lines of 16	8 lines of 13	3 lines of 8	222/392 lbs.
e20- 64x96	4'-6"	6'-7"	468/936 W max	10 lines of 19	8 lines of 16	3 lines of 10	259/455 lbs.
e20- 64x112	4'-6"	7'-8"	556/1112 W max	10 lines of 22	8 lines of 18	3 lines of 12	295/518 lbs.
e20- 64x128	4'-6"	8'-8"	632/1264 W max	10 lines of 25	8 lines of 21	3 lines of 14	332/581 lbs.
e20- 64x144	4'-6"	9'-9"	708/1416 W max	10 lines of 28	8 lines of 24	3 lines of 16	368/643 lbs.
e20- 80x80	5'-7"	5'-7"	499/998 W max	13 lines of 16	10 lines of 13	4 lines of 8	270/475 lbs.
e20- 80x96	5'-7"	6'-7"	594/1188 W max	13 lines of 19	10 lines of 16	4 lines of 10	312/546 lbs.
e20- 80x112	5'-7"	7'-8"	689/1378 W max	13 lines of 22	10 lines of 18	4 lines of 12	354/618 lbs.
e20- 80x128	5'-7"	8'-8"	784/1568 W max	13 lines of 25	10 lines of 21	4 lines of 14	397/690 lbs.
e20- 80x144	5'-7"	9'-9"	879/1758 W max	13 lines of 28	12 lines of 24	5 lines of 16	443/770 lbs.
e20- 96x96	6'-7"	6'-7"	708/1416 W max	16 lines of 19	12 lines of 16	5 lines of 10	360/628 lbs.
e20- 96x112	6'-7"	7'-8"	822/1644 W max	16 lines of 22	12 lines of 18	5 lines of 12	413/718 lbs.
e20- 96x128	6'-7"	8'-8"	936/1872 W max	16 lines of 25	12 lines of 21	5 lines of 14	462/799 lbs.
e20- 96x144	6'-7"	9'-9"	1062/2124 W max	16 lines of 28	12 lines of 24	5 lines of 16	515/891 lbs.

Pitch & LED's Per Pixel LED Color Capability	20mm-1 red, 1 green, 1 blue 4.4 Trillion	Graphic Capabilities	JPEG, ANI & AVI
Cabinet	Rugged Traditional Aluminum fully sealed to ensure continued use for years	Special Features	*Front access to all components *Countdown & Countdown & count feature standard for event notice. *Temperature probe & photo sensor *Industry leading horizontal & vertical viewing angles for increased visibility & viewing time *Unique user friendly software that allows you to program and see your message exactly as it will appear *Twist connector communication cable SideA to SideB *Twist connector power cable *3-prong plug for radio *easy rear access for twist connectors
Viewability and Intensity	150 viewing angle 10,000 NIT Brightness		
Communications	RS232, RS485, Wireless Wi-Fi		
Temperature	- 40? to 158?F		
Approvals	UL certified and labeled for outdoor use: 110VAC		
Animation Frame Rate	Cutting edge 60 frames per second		

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