

Standard Display Products



MNR
The HMI Specialists

Standard Character LCD Modules

Model No.	Characters x Lines	Overall Dimensions (mm)			View Area (mm)		Char size (mm)		Char Pitch (mm)		Duty	Bias	Lighting			
		X	Y	Z	X	Y	X	Y	X	Y			None	Side LED	Bottom LED	EL
MNR-MC-1601A	16 x 1	80.0	36.0	10.0	64.5	13.8	3.20	5.95	3.75	5.95	1/16	1/5	•			•
MNR-MC-1602A	16 x 2	122.0	44.0	14.5	99.0	24.0	4.84	9.66	6.00	10.34	1/16	1/5		•		•
MNR-MC-1602B		80.0	36.0	13.0	64.5	16.0	3.00	5.23	3.51	5.75	1/16	1/5		•	•	
MNR-MC-1602C		84.0	44.0	10.0	62.2	17.9	2.95	5.55	3.55	5.95	1/16	1/5	•			•
		84.0	44.0	14.5	62.2	17.9	2.95	5.55	3.55	5.95	1/16	1/5			•	
MNR-MC-1602D		85.0	30.0	10.1	64.5	16.0	2.78	4.89	3.53	6.09	1/16	1/5	•			•
MNR-MC-1602E		90.0	29.5	10.6	64.0	17.9	2.95	5.55	3.55	5.95	1/16	1/5		•		
MNR-MC-1602F	84.0	45.0	15.1	61.0	16.0	2.95	5.55	3.55	5.95	1/16	1/5			•		
MNR-MC-1604A	16 x 4	84.0	45.0	15.1	61.8	25.2	2.95	4.75	3.55	5.35	1/16	1/5	•			•
MNR-MC-2002A	20 x 2	116.0	39.0	14.0	83.0	18.5	3.20	5.55	3.80	6.05	1/16	1/5	•			•
MNR-MC-2002B		116.0	37.0	13.8	83.0	18.6	3.20	5.55	3.80	6.05	1/16	1/5			•	
MNR-MC-2004A	20 x 4	77.0	47.0	14.2	60.0	22.0	2.30	4.03	2.78	4.51	1/16	1/5			•	
MNR-MC-2004B		98.0	60.0	10.0	77.0	25.2	2.95	4.75	3.55	5.35	1/16	1/5	•			•
		98.0	60.0	14.0	77.0	25.2	2.95	4.75	3.55	5.35	1/16	1/5			•	
MNR-MC-2004C		146.0	62.5	13.5	123.5	43.0	3.20	5.55	6.00	9.65	1/16	1/5			•	
MNR-MC-2402A	24 x 2	118.0	36.0	14.0	93.5	15.8	3.20	5.55	3.70	5.95	1/16	1/5			•	
MNR-MC-4002A	40 x 2	182.0	33.5	8.9	154.4	15.8	3.20	5.55	3.75	5.95	1/16	1/5	•			•
		182.0	33.5	12.8	154.4	15.8	3.20	5.55	3.75	5.95	1/16	1/5			•	
MNR-MC-4004A	40 x 4	190.0	54.0	15.0	147.0	29.5	2.78	4.89	3.53	6.09	1/16	1/5			•	

Standard Graphics LCD Modules

Model No.	Dots (H x V)	Overall Dimensions (mm)			View Area (mm)		Dot size (mm)		Dot Pitch (mm)		Duty	Bias	Lighting				
		X	Y	Z	X	Y	X	Y	X	Y			None	Side LED	Bottom LED	EL	CCFL
MNR-MG-12232A	122 x 32	80.2	36.0	13.0	60.5	17.5	0.40	0.43	0.44	0.47	1/32	1/5			•		
MNR-MG-12864A	128 x 64	75.0	52.7	9.0	60.0	32.6	0.40	0.40	0.43	0.43	1/64	1/9		•			
MNR-MG-12864B		78.0	70.0	15.0	62.0	44.0	0.39	0.55	0.44	0.60	1/64	1/9			•		
MNR-MG-12864C		93.0	70.0	13.0	70.5	38.5	0.48	0.48	0.52	0.52	1/64	1/9			•		
MNR-MG-12864D		93.0	70.0	13.0	70.8	39.0	0.48	0.48	0.52	0.52	1/33	1/7			•		
MNR-MG-12864E		93.0	70.0	10.0	71.7	39.0	0.48	0.48	0.52	0.52	1/64	1/9	•				
MNR-MG-16032A	160 x 32	116.2	39.0	12.8	85.0	19.2	0.45	0.45	0.50	0.50	1/32	1/6			•		
MNR-MG-16032B		122.0	44.0	13.2	99.0	24.0	0.55	0.56	0.59	0.60	1/32	1/5			•		
MNR-MG-16032C		116.0	39.0	12.8	85.8	19.2	0.45	0.43	0.50	0.48	1/32	1/6			•		
MNR-MG-19264A	192 x 64	100.0	60.0	15.0	84.0	31.0	0.38	0.38	0.42	0.42	1/64	1/9			•		
MNR-MG-24064A	240 x 64	180.0	65.0	13.6	132.0	39.0	0.49	0.49	0.53	0.53	1/64	1/9			•		
MNR-MG-320240A	320 x 240	160.0	109.0	14.0	122.0	92.0	0.33	0.33	0.36	0.36	1/240	1/16			•		
MNR-MG-320240B		160.0	109.0	12.0	122.0	92.0	0.33	0.33	0.36	0.36	1/240	1/16			•		
MNR-MG-320240C		160.0	109.0	13.0	122.0	92.0	0.33	0.33	0.36	0.36	1/240	1/17			•		
MNR-MG-320240D		167.0	109.0	12.0	120.0	90.0	0.33	0.33	0.36	0.36	1/240	1/16			•		

Standard Transparent Touch Panel Configurations

Structure: ITO film + ITO glass (4-wire resistance type)		Guide to Dimensions						
Tail Material: FPC		Size	5.8"	7.4"	10.4"	12.1"	15.1"	
Linearity: 1.5% or less		Dim (mm)	A	138.0	180.0	234.0	269.0	330.0
Transparency: 70 ~ 80%			B	108.0	137.0	181.0	203.2	255.0
Surface Hardness: 3H or greater			C	118.0	154.0	209.0	246.0	305.0
Operating Temperature: -20°C ~ +60°C			D	89.0	116.0	156.0	184.0	229.0
ITO Glass Thickness: 1.1mm (5.8" and 7.4" models) 1.8mm (10.4", 12.1" and 15.1" models)	E		54.0	68.5	90.5	101.6	127.5	
Note: The tail interconnect can be assembled to ITO film or ITO glass (optional)	L	80.0	80.0	80.0	80.0	80.0		

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