



## ■ LCD Modules

### <For industrial appliances> (1)

Display size	Model No.	Number of pixels (dot) H × V	Pixel pitch (mm) H × V	Display colors	Luminance (cd/m <sup>2</sup> )	Input video signal	Power consumption (W)	Outline dimensions (mm) W × H × D	Weight (g)	Backlight	Remarks	
28.3" (72cm)	LQ283G1TW11	2 560 × RGB × 2 048	0.219 × 0.219	16.77 M	225	4ch TMDS	103.2	640.0 × 530.0 × 60.0	Max. 15 000	18CCFT	Built-in inverter Advanced Super V	
28.1" (71cm)	LQ281L1LW14	2 048 × RGB × 2 048	0.246 × 0.246	16.77 M	225	4ch LVDS	96.0	594.0 × 594.0 × 83.0	15 000	18CCFT	Built-in inverter Advanced Super V	
23.1" (59cm)	☆LQ231U1LW31	1 600 × RGB × 1 200	0.294 × 0.294	16.77 M	500	LDI 8 bit RGB	T.B.D.	530.0 × 431.5 × 32.5	(Max. 4 500)	LED	Advanced Super V LED backlight	
20.1" (51cm)	LQ201U1LW11Z	1 600 × XYZ × 1 200	0.255 × 0.255	256 (gray scales)	700	2ch LVDS 8 bit XYZ	32.9	436.0 × 335.0 × 27.5	Max. 3 800	6CCFT	Advanced Super V	
	LQ201U1LW21	1 600 × RGB × 1 200		16.77 M	250	2ch LVDS 8 bit RGB	33.8	432.0 × 331.5 × 25.0	3 200			
19.0" (48cm)	LQ190E1LW02	1 280 × RGB × 1 024	0.294 × 0.294	16.77 M	300	2ch LVDS 8 bit RGB	(25.5)	404.2 × 330.0 × 20.0	Max. 2 800	4CCFT	Advanced Super V	
	☆LQ190E1LW43						400	404.2 × 330.0 × 22.0	Max. 3 200	6CCFT		
	☆LQ190E1LX51						1 000	404.2 × 330.0 × 34.0	Max. 2 600	LED		Advanced Super V LED backlight
15.0" (38cm)	LQ150X1LGB1	1 024 × RGB × 768	0.297 × 0.297	16.19 M	600	1ch LVDS 8 bit RGB (6 bit + 2FRC)	16.0	331.6 × 254.76 × 12.5	1 200±50	4CCFT	Advanced Super V	
	LQ150X1LG55				350		9.6	326.5 × 253.5 × 11.2		Max. 1 000		2CCFT
	LQ150X1LG81				350		9.8	326.0 × 252.0 × 11.2	Max. 1 200			LED
	LQ150X1LG82				250		10.8	326.0 × 252.0 × 13.7		Max. 1 300		4CCFT
	LQ150X1LW71N				350		18.1	331.6 × 254.76 × 12.5	Max. 1 350			
	LQ150X1LW72									T.B.D.		
	☆LQ150X1LW73											
12.1" (31cm)	LQ121K1LG11	1 280 × RGB × 800	0.204 × 0.204	16.19 M	370 TYP.	1ch LVDS 8 bit RGB	7.7	278.0 × 184.0 × 11.3 TYP.	640	2CCFT	12.1" wide XGA	
	LQ121S1DG42/LG42	800 × RGB × 600	0.3075 × 0.3075	260 k	370	CMOS 6 bit RGB/ 1ch LVDS 6 bit RGB	8.3	276.0 × 209.0 × 11.0	Max. 660		Strong LCD2	
	LQ121S1DG61/LG61				450				Max. 800			
	☆LQ121S1LG62				450	(5.3)	Max. 750		Strong LCD2 Long-life LED backlight			
	LQ121S1LW01				250	8.5	Max. 800		Advanced Super V			
10.4" (26cm)	LQ104S1DG2A/LG2A	800 × RGB × 600	0.264 × 0.264	260 k	350	CMOS 6 bit RGB/ 1ch LVDS 6 bit RGB	6.5/6.6	246.5 × 179.4 × 15.5	Max. 620	2CCFT	Strong LCD2	
	LQ104S1DG61/LG61				420		8.0	246.5 × 179.4 × 13.7	Max. 620			
	LQ104V1DG21	640 × RGB × 480	0.330 × 0.330		350	CMOS 6 bit RGB	6.4	265.0 × 195.0 × 11.5	Max. 700	2CCFT	Strong LCD2	
	LQ104V1DG5A				450			6.3	246.5 × 179.4 × 15.5			Max. 620
	LQ104V1DG61/LG61				550	CMOS 6 bit RGB	5.2	246.5 × 179.4 × 12.5	Max. 580			LED
	LQ104V1DG62											

(Note) The following models listed on this page are not sold in the United States.  
 LQ283G1TW11, LQ281L1LW14, LQ231U1LW31, LQ201U1LW11Z, LQ201U1LW21,  
 LQ190E1LW02, LQ190E1LW43, LQ190E1LX51, LQ150X1LW71N, LQ150X1LW72,  
 LQ121S1LW01

#### Notice

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<For industrial appliances> (2)

Display size	Model No.	Number of pixels (dot) H × V	Pixel pitch (mm) H × V	Display colors	Luminance (cd/m <sup>2</sup> )	Input video signal	Power consumption (W)	Outline dimensions (mm) W × H × D	Weight (g)	Backlight	Remarks
8.4" (21cm)	LQ084S3DG01	800 × RGB × 600	0.213 × 0.213	260 k	350	CMOS 6 bit RGB	6.0	199.5 × 149.5 × 11.6	Max. 405	2CCFT	Strong LCD2
	LQ084S3LG01	800 × RGB × 600		16.19 M	400	1ch LVDS 8 bit RGB	5.9				
	LQ084V3DG01	640 × RGB × 480	260 k	CMOS 6 bit RGB		5.7	Max. 400				
	LQ084V3DG02					4.6			LED	Long-life LED backlight	
	LQ084V1DG41		0.270 × 0.270	300	CMOS 6 bit RGB	4.9	221.0 × 152.4 × 12.0		Max. 430	1CCFT	
6.4" (16cm)	LQ064V3DG01	640 × RGB × 480	0.204 × 0.204	260 k	350	CMOS 6 bit RGB	4.7	161.3 × 117.0 × 12.0	Max. 280	2CCFT	
5.7" (14cm)	LQ057V3DG01	640 × RGB × 480	0.180 × 0.180	260 k	400	CMOS 6 bit RGB	4.1	144.0 × 104.6 × 12.3*	Max. 250	1CCFT	Strong LCD2
	LQ057V3DG02				400		4.5				
	☆LQ057V3LG11			16 M	350	1ch LVDS 8 bit RGB	2.3	144.0 × 104.6 × 12.3	Max. 190	LED	LED backlight
	LQ057Q3DC12	320 × RGB × 240	0.360 × 0.360	260 k	500	CMOS 6 bit RGB	3.9	144.0 × 104.6 × 13.0	Max. 240	1CCFT	
	☆LQ057Q3DG01				320		1.4	144.0 × 104.6 × 13.8	230	LED	LED backlight with resistive-film touch panel
	☆LQ057Q3DG02				400			144.0 × 104.6 × 12.3	190		LED backlight
4.3" (12cm)	LQ043T3DG01	480 × RGB × 272	0.198 × 0.198	260 k	400	CMOS 6 bit RGB	0.6	105.5 × 67.2 × 5.05	65		LED backlight
	LQ043T3DG02				480			105.5 × 67.2 × 3.95	55		
3.8" (10cm)	LQ038Q3DC01	320 × RGB × 240	0.240 × 0.240	260 k	240	CMOS 6 bit RGB	0.7	90.6 × 79.9 × 9.9	Max. 105	LED	
3.5" (9cm)	LQ035Q3DG01			260 k	450		0.48	76.9 × 63.9 × 3.5	33		
	☆LQ035Q3DG03			16 M	(450)	T.B.D.	76.9 × 63.9 × 4.7	T.B.D.	Long-life LED backlight		
	LQ035Q3DW02			260 k	450	CMOS 6 bit RGB	0.5	76.9 × 63.9 × Max. 3.5	33		
2.5" (6cm)	LQ025Q3DW02			260 k	350 TYP.	CMOS 6 bit RGB	0.28	56.8 × 48.8 × Max. 3.5	Max. 25		

\* Protrusions such as backlight harnesses and positioning bosses are not included.

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## <Large-size LCD Module>

Display size (cm) ["]	Model No.	Number of pixels*1	Dot format H × V (dot)	Active area H × V (mm)	Number of colors (color)	Outline dimensions*2 W × H × D (TYP.) (mm)	Backlight	Interface (Input signal)	Remarks
207.2 [81.6]	★LK816D3LA19	2 073 600	1 080 × 1 920 × RGB	1 015.7 × 1 805.8	16.77M	1 094.0 × 1 879.0 × (81.9)	CCFL Built-in	2ch-LVDS*3 (8-bit digital)	Portrait/Landscape free-setting Advanced Super V High luminance: (1 500 Max.)*4 cd/m <sup>2</sup> Wide viewing angle: L/R 176°/ U/D 176° High contrast: (1 500:1) High-speed response [G to G]: (6) ms (Ave.)
	★LK816D3LA29	2 073 600	1 080 × 1 920 × RGB	1 015.7 × 1 805.8	16.77M	1 094.0 × 1 879.0 × (81.9)		2ch-LVDS*3 (8-bit digital)	Portrait/Landscape free-setting Advanced Super V High luminance: (700) cd/m <sup>2</sup> Wide viewing angle: L/R 176°/ U/D 176° High contrast: (1 500:1) High-speed response [G to G]: (6) ms (Ave.)
152.5 [60]	★LK600D3LA38	2 073 600	1 920 × RGB × 1 080	1 329.1 × 747.6	1.06B (8-bit + 2FRC)	(1 401.1 × 820.4 × 43.0)		2ch-LVDS*3 (10-bit digital)	Ultraviolet induced multi-domain Vertical Alignment LCD High luminance: 500 cd/m <sup>2</sup> Wide viewing angle: L/R 176°/ U/D 176° High contrast: (5 000:1) 120 Hz drive compatible
132.2 [52]	★LK520D3LA5X	2 073 600	1 920 × RGB × 1 080	1 152.0 × 648.0	1.06B (8-bit + 2FRC)	(1 219.0 × 706.7 × 36.6)		2ch-LVDS*3 (10-bit digital)	Advanced Super V High luminance: 500 cd/m <sup>2</sup> Wide viewing angle: L/R 176°/ U/D 176° High contrast: (2 000:1) High-speed response [G to G]: (6) ms (Ave.)
116.8 [46]	★LK460D3LA2X	2 073 600	1 920 × RGB × 1 080	1 018.1 × 572.7	1.06B (8-bit + 2FRC)	(1 083.0 × 624.7 × 32.5)		2ch-LVDS*3 (10-bit digital)	Advanced Super V High luminance: 500 cd/m <sup>2</sup> Wide viewing angle: L/R 176°/ U/D 176° High contrast: (3 000:1) High-speed response [G to G]: (6) ms (Ave.)
101.6 [40]	★LK400D3LA14	2 073 600	1 920 × RGB × 1 080	885.6 × 498.2	1.06B (8-bit + 2FRC)	(952.0 × 551.0 × 35.0)		2ch-LVDS*3 (10-bit digital)	Advanced Super V High luminance: 500 cd/m <sup>2</sup> Wide viewing angle: L/R 176°/ U/D 176° High contrast: (2 500:1) High-speed response [G to G]: (6) ms (Ave.)
80.0 [31.5]	★LK315T3LA5X	1 049 088	1 366 × RGB × 768	697.7 × 392.3	16.77M	(760.0 × 450.0 × 32.5)		1ch-LVDS*3 (8-bit digital)	Advanced Super V High luminance: 500 cd/m <sup>2</sup> Wide viewing angle: L/R 176°/ U/D 176° High contrast: (2 500:1) High-speed response [G to G]: (7) ms (Ave.)

\*1 Pixel means a set of each RGB dot.

\*2 Excluding FPC for connection and other protruding parts.

\*3 LVDS: Low Voltage Differential Signaling

\*4 With cooling module prepared by user.

(Note) Please note that the specifications are subject to change without prior notice for product improvement.

(Note) The following models listed on this page are not sold in the United States.  
LK816D3LA19, LK816D3LA29, LK520D3LA5X, LK460D3LA2X, LK400D3LA14, LK315T3LA5X

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☆New product  
★Under development

### <For automotive applications> (1)

- LQ065T9DZ03A: operating temperature (panel surface temperature) -40 to +85°C / storage temperature -40 to +95°C
- Other models: operating temperature (panel surface temperature) -30 to +85°C / storage temperature -40 to +85°C

	Display size (cm) ["]	Model No.	Dot format H × V (dot)	Pixel pitch H × V (mm)	Active area H × V (mm)	Input signal system	Input video signal	Back-light	Luminance (cd/m <sup>2</sup> ) (TYP.)	Power consumption (mW) (TYP.)	Outline dimensions*1 W × H × D (mm) (TYP.)	Weight (g) (TYP.)	Remarks
TFT	7.6 [3]	★LQ030T5DG01	480 × RGB × 240	0.13925 × 0.153	66.84 × 36.72	6-bit digital RGB	6-bit digital	Built-in LED	400	T.B.D.	77 × 48 × 6.0	T.B.D.	Wide QVGA (16:9), Thin, LED backlight, 260K-color display, Wide viewing angle
	8.9 [3.5]	LQ035Q5DG02	320 × RGB × 240	0.222 × 0.222	71.0 × 53.3	6-bit digital RGB	6-bit digital	Built-in LED	500	T.B.D.	86.4 × 84 × 6.7	65	"Compact LCD" suitable for display in meter, LED backlight, High luminance, Thin, High-speed response (low temperature), 260K-color display, Wide viewing angle, RoHS compliant
	11 [4.3]	☆LQ043T5DG02	400 × RGB × 234	0.2385 × 0.2275	95.4 × 53.24	6-bit digital RGB	6-bit digital	Built-in LED	500	1 200	107.7 × 65.5 × 8.15	65	Wide QVGA (16:9), LED backlight, Digital I/F, 260K-color display, High luminance, Wide viewing angle, RoHS compliant
	12.7 [5]	☆LQ050T5DG01	400 × RGB × 240	0.27 × 0.27	108 × 64.8	6-bit digital RGB	6-bit digital	Built-in LED	600	840	120.6 × 75.2 × 9.0	110	Wide QVGA (16:9), LED backlight, Thin, 260K-color display
	15 [5.8]	☆LQ058T5DG02	480 × RGB × 240	0.268 × 0.297	128.4 × 70.92	6-bit digital RGB	6-bit digital	Built-in LED	420	994	139 × 82.7 × 6.0	120 (Max.)	Wide QVGA (16:9), LED backlight, Thin, 260K-color display
		LQ058Y5DG01	800 × RGB × 480	0.1605 × 0.1505	128.4 × 72.24	6-bit digital RGB	6-bit digital*2	Built-in LED	450	3 100	141.1 × 82.9 × 7.2	140 (Max.)	High resolution (wide VGA/16:9), LED backlight, Thin, Digital I/F, 260K-color display, Wide viewing angle, RoHS compliant
	16 [6.5]	☆LQ065T5GG64	400 × RGB × 234	0.3585 × 0.339	143.4 × 79.326	NTSC/PAL	TFT specific analog RGB*2	Built-in LED	900	1 220	155 × 89.2 × 6.5	140 (Max.)	Wide QVGA (16:9), Thin, High luminance, LED backlight, 260K-color display, Wide viewing angle, RoHS compliant
		LQ065T5DG02	400 × RGB × 240	0.359 × 0.331	143.4 × 79.3	6-bit digital RGB	6-bit digital*2	Built-in 1CCFT	620	4 100	155 × 89.2 × 9.1	170	Wide QVGA (16:9), Digital I/F, 260K-color display, High luminance, Wide viewing angle, RoHS compliant
		LQ065T9DZ03A	400 × RGB × 240	0.359 × 0.331	143.4 × 79.3	6-bit digital RGB	6-bit digital	Built-in 1CCFT	250	5 200	155 × 89.2 × 12.5	205 (Max.)	"Super Mobile LCD" with high visibility under bright ambient light, Wide QVGA (16:9), Wide viewing angle, Gray-scale inversion free, 260K-color display, RoHS compliant
		LQ065Y5DG03	800 × RGB × 480	0.18 × 0.165	144.0 × 79.2	6-bit digital RGB	6-bit digital*2	Built-in 1CCFT	500	3 600	157.4 × 89.7 × 7.5	180 (Max.)	High resolution (wide VGA/16:9), digital I/F, 260K-color display, High luminance, Wide viewing angle, RoHS compliant

\*1 Excluding FPC for connection and other protruding parts.

\*2 Video interface: External (Device specific external video interface IC is available.)

(Note) Please refer to the latest relevant specification sheets before using these devices.

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## <For automotive applications> (2)

- LQ070Y5DG06/LQ080Y5DG03/LQ080Y5DR04: operating temperature (panel surface temperature) -30 to +85°C / storage temperature -40 to +95°C
- Other models: operating temperature (panel surface temperature) -30 to +85°C / storage temperature -40 to +85°C

	Display size (cm) ["]	Model No.	Dot format H × V (dot)	Pixel pitch H × V (mm)	Active area H × V (mm)	Input signal system	Input video signal	Back-light	Luminance (cd/m <sup>2</sup> ) (TYP.)	Power consumption (mW) (TYP.)	Outline dimensions*1 W × H × D (mm) (TYP.)	Weight (g) (TYP.)	Remarks
TFT	18 [7]	☆LQ070T5DG04	480 × RGB × 240	0.326 × 0.339	156.48 × 81.72	6-bit digital RGB	6-bit digital	Built-in LED	450	1 184	167 × 93 × 6.0	150 (Max)	Wide QVGA (16:9), LED backlight, 260K-color display, RoHS compliant
		☆LQ070T5DG05	480 × RGB × 240	0.321 × 0.363	154.08 × 86.94	6-bit digital RGB	6-bit digital	Built-in LED	450	1 314	164.4 × 99.5 × 6.0	160 (Max)	Wide QVGA (16:9), LED backlight, 260K-color display, RoHS compliant
		LQ070Y5DG06	800 × RGB × 480	0.191 × 0.191	152.4 × 91.4	6-bit digital RGB	6-bit digital*2	Built-in LED	430*3	4 900	170 × 104 × 8.0	210	High resolution (wide VGA/15:9), High color purity (65% of NTSC), High-speed response (low temperature), LED backlight, Thin, 260K-color display, Wide viewing angle, RoHS compliant
		LQ070Y5DG20	800 × RGB × 480	0.195 × 0.1725	156.0 × 82.8	6-bit digital RGB	6-bit digital*2	Built-in 1CCFT	500	3 600	167 × 93 × 7.2	196 (Max)	High resolution (wide VGA/17:9), Thin, W-QVGA (GG21) vertical/horizontal compatible, 260K-color display, Wide viewing angle, RoHS compliant
		LQ070Y5DE03	800 × RGB × 480	0.195 × 0.1725	156.0 × 82.8	6-bit digital RGB	6-bit digital*2	Built-in LED	370*3	6 400	170.8 × 107.95 × 12.6	315 (Max.)	Dual directional viewing LCD, Wide screen (17:9), LED backlight, 260K-color display, Wide viewing angle, RoHS compliant
	20 [8]	LQ080Y5DG03	800 × RGB × 480	0.2175 × 0.2175	174.0 × 104.4	6-bit digital RGB	6-bit digital*2	Built-in LED	430*3	6 200	190 × 120 × 8.0	270	High resolution (wide VGA/15:9), High color purity (65% of NTSC), High-speed response (low temperature), LED backlight, Thin, 260K-color display, Wide viewing angle, RoHS compliant
		LQ080Y5DR04	800 × RGB × 480	0.2175 × 0.2175	174.0 × 104.4	6-bit digital RGB	6-bit digital*2	Built-in LED	480	6 200	190 × 120 × 8.0	290 (Max.)	High resolution (wide VGA/15:9), Thin, LED backlight, 260K-color display, Wide viewing angle, RoHS compliant
		LQ080Y5DGGQ3	800 × RGB × 480	0.222 × 0.207	177.6 × 99.4	NTSC/PAL/PAL (60)	Composite	Built-in 1CCFT	400	10 400	198 × 117 × 17.9	391	High resolution (wide VGA/16:9), All-in-one, Wide viewing angle, RoHS compliant
		☆LQ080Y5DW01	800 × RGB × 480	0.2175 × 0.2175	174.0 × 104.4	6-bit digital RGB	6-bit digital	Built-in LED	625	9 925	190 × 120 × 13.0	385	Wide VGA (15:9), LED backlight, 260K-color display, RoHS compliant
		☆LQ080Y5DW30	800 × RGB × 480	0.2175 × 0.2175	174.0 × 104.4	6-bit digital RGB	6-bit digital	Built-in LED	543	8 632	190 × 120 × 15.0	435	Wide VGA (15:9), LED backlight, 260K-color display, Touch panel, RoHS compliant

\*1 Excluding FPC for connection and other protruding parts.

\*2 Video interface: External (Device specific external video interface IC is available.)

\*3 Luminosity at eye point

(Note) Please refer to the latest relevant specification sheets before using these devices.

The plants No. 1 and No. 2 (JQA-AU0121) at the Mie site of the Mobile Liquid Crystal Display Group have been certified under the ISO/TS 16949:2002 Quality Management System. [Certifying organization: Japan Quality Assurance Organization (JQA)]

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### <For automotive applications> (3)

● Operating temperature (panel surface temperature) -30 to +85°C / storage temperature -40 to +85°C

	Display size (cm) ["]	Model No.	Dot format H × V (dot)	Pixel pitch H × V (mm)	Active area H × V (mm)	Input signal system	Input video signal	Back-light	Luminance (cd/m <sup>2</sup> ) (TYP.)	Power consumption (mW) (TYP.)	Outline dimensions*1 W × H × D (mm) (TYP.)	Weight (g) (TYP.)	Remarks
TFT	20 [8]	☆LQ080Y5DE30	800 × RGB × 480	0.2175 × 0.2175	174.0 × 104.4	6-bit digital RGB	6-bit digital	Built-in LED	272*3	8 617	190 × 120 × 15.0	439	Dual directional viewing LCD, Wide VGA (16:9), LED backlight, 260K-color display, Touch panel, RoHS compliant

\*1 Excluding FPC for connection and other protruding parts.

\*2 Video interface: External (Device specific external video interface IC is available.)

\*3 Luminosity at eye point

(Note) Please refer to the latest relevant specification sheets before using these devices.

The plants No. 1 and No. 2 (JQA-AU0121) at the Mie site of the Mobile Liquid Crystal Display Group have been certified under the ISO/TS 16949:2002 Quality Management System. [Certifying organization: Japan Quality Assurance Organization (JQA)]

### <For mobile phones>

	Display size (cm) ["]	Model No.	Dot format H × V (dot)	Pixel pitch H × V (mm)	Active area H × V (mm)	Input video signal	Back-light	Contrast ratio (Transmissive/Reflective)	Luminance (cd/m <sup>2</sup> ) (TYP.)	Outline dimensions*2 W × H × D (mm) (TYP.)	Weight (g) (TYP.)	Remarks
TFT	7.2 [2.8]	LQ028Q3UX01	240 × RGB × 320*1	0.18 × 0.18	43.2 × 57.6	16-bit parallel CPU	Built-in LED	500 : 1	250	50.2 × 69.3 × 3.6	T.B.D.	

\*1 Number of Pixels: 76 800

\*2 Excluding FPC for connection and other protruding parts.

(Note) Please refer to the latest relevant specification sheets before using these devices.

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