

☆New product
★Under development



■ LCD Modules

<For industrial appliances (middle size)>

	Display size (cm) ["]	Model No.	Dot format H x V (dot)	Pixel pitch H x V (mm)	Active area H x V (mm)	Input signal system	Input video signal	Back-light	Luminance (cd/m ²) (TYP.)	Power consumption (mW) (TYP.)	Overall dimensions* ⁵ W x H x D (mm) (TYP.)	Weight (g) (TYP.)	Remarks				
STN	12 [4.6]	LM046QB1S02	320 x 240	0.295 x 0.295	94.4 x 70.8	4-bit parallel	4-bit parallel		100	140/920* ⁷	134.0 x 100.0 x 8.5	140	Transflective type STN, Black & white display				
	14 [5.7]	LM32019T		0.36 x 0.36	115.2 x 86.4						166.0 x 109.0 x 7.5 (MAX.)	160	Transmissive type STN, Blue mode display				
	21 [8.1]	LM081HB1T01B	640 x 240	0.30 x 0.30	192.0 x 72.0	8-bit parallel	8-bit parallel	Built-in 1CCFT	150	1 605	249.0 x 99.4 x 8.5	260	Transmissive type STN, Black & white display				
	22 [8.5]	☆LM085YB1T01	800 x 480	0.231 x 0.231	184.8 x 110.9						T.B.D.	T.B.D.	222.7 x 134.0 x 8.5	T.B.D.	Transmissive type black & white STN, Crosstalk reduction using Sharp addressing technology		
	22 [8.9]	LM089HB1T04	640 x 240	0.33 x 0.33	211.2 x 79.2						250	2 300	258.8 x 109.8 x 10.0	320	Transmissive type STN, Blue mode display		
CSTN	13 [5.0]	LM050QC1T01	320 x RGB x 240* ¹	0.315 x 0.315	100.8 x 75.6	8-bit parallel	8-bit parallel	Built-in 1CCFT	100	1 740	134.0 x 100.0 x 8.5	145	Transmissive type Color STN, Long life B/L				
	20 [7.7]	☆LM077VS1T01	640 x RGB x 480* ²	0.246 x 0.246	157.4 x 118.1						Built-in 2CCFT	T.B.D.	T.B.D.	195.2 x 137.5 x 7.1	T.B.D.	Transmissive type Color STN, Crosstalk reduction using Sharp addressing technology	
	22 [8.5]	★LM085YS1T01	800 x RGB x 480* ⁴	0.231 x 0.231	184.8 x 110.9									222.7 x 134.0 x 8.5			
TFT	14 [5.7]	LQ057Q3DC12	320 x RGB x 240* ¹	0.360 x 0.360	115.2 x 86.4	6-bit digital RGB	6-bit digital* ⁶	Built-in 1CCFT	500	3 879	144.0 x 104.6 x 13.0	220±20	Transmissive type TFT, High luminance, Wide viewing angle, Long life B/L, 260K-color display				
	16 [6.4]	LQ064V3DG01	640 x RGB x 480* ²	0.204 x 0.204	130.6 x 97.9						Built-in 2CCFT		350	3.3 V: 4 657 5 V: 4 700	161.3 x 117.0 x 12.0	280 (MAX.)	Transmissive type TFT, High luminance, Wide viewing angle, Long life B/L, AG coat, Easily replaceable B/L, 260K-color display, Wide temperature range, 3.3V/5V drive
	21 [8.4]	LQ084V1DG21		0.267 x 0.270	170.9 x 129.6												Built-in 1CCFT
		LQ084S3DG01	800 x RGB x 600* ³	0.213 x 0.213	170.4 x 127.8						Built-in 2CCFT		350	6 019	199.5 x 149.5 x 11.6	405 (MAX.)	

*1 Number of Pixels: 76 800

*2 Number of Pixels: 307 200

*3 Number of Pixels: 480 000

*4 Number of Pixels: 384 000

*5 Excluding FPC for connection and other excessing parts.

*6 Video interface: CMOS

*7 Reflective mode: 140 mW Lit mode: 920 mW

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



LM089HB1T04



LM050QC1T01



LQ064V3DG01



LQ084S3DG01

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<For industrial appliances (large size)>

	Display size (cm) ["]	Model No.	Number of pixels*1	Dot format H x V (dot)	Active area H x V (mm)	Number of colors (color)	Overall dimensions*2 W x H x D (TYP.) (mm)	Backlight	Video interface (Input video signal)	Remarks		
TFT	26 [10.4]	☆LQ104V1DG61/LG61	307 200	640 × RGB × 480	211.2 × 158.4	262 144	246.5 × 179.4 × 13.7	Built-in (2CCFT)	CMOS (DG61) LVDS*3 (LG61)	Wide temperature range*5, High luminance (450 cd/m ²), Easily replaceable B/L (slide type), Supply voltage (+3.3 V/+5 V)		
		LQ104V1DG51	307 200	640 × RGB × 480	211.2 × 158.4		246.5 × 179.4 × 15.5		CMOS (6-bit)	Wide temperature range*4, High luminance (350 cd/m ²), Easily replaceable B/L (slide type), Supply voltage (+3.3 V/+5 V)		
		LQ104S1DG21/LG21	480 000	800 × RGB × 600	211.2 × 158.4		246.5 × 179.4 × 15.5		CMOS (DG21) LVDS*3 (LG21) (6-bit)	Wide temperature range*4, High luminance (350 cd/m ²), Easily replaceable B/L (slide type), Supply voltage (+3.3 V/+5 V)		
		LQ104V1DW02	307 200	640 × RGB × 480	211.2 × 158.4		246.5 × 179.4 × 15.5 (MAX.)		CMOS (6-bit)	Top/bottom and left/right angle of view 160° (CR>0), High luminance (380 cd/m ²), Easily replaceable B/L (slide type), Supply voltage (+3.3 V/+5 V)		
	31 [12.1]	☆LQ121S1DG61/LG61	480 000	800 × RGB × 600	246.0 × 184.5		276.0 × 204.0 × 11.0		CMOS (DG61) LVDS*3 (LG61)	Wide temperature range*5, High luminance (450 cd/m ²), Easily replaceable B/L (slide type), Supply voltage (+3.3 V/+5 V)		
		LQ121S1DG41/LG41	480 000	800 × RGB × 600	246.0 × 184.5		276.0 × 209.0 × 11.0		CMOS (DG41) LVDS*3 (LG41) (6-bit)	Wide temperature range*4, High luminance (370 cd/m ²), High contrast (450:1) Narrow frame, Easily replaceable B/L (slide type), Supply voltage (+3.3 V/+5 V)		
		☆LQ121S1LW01	480 000	800 × RGB × 600	246.0 × 184.5		276.0 × 209.0 × 11.0		LVDS*3	Top/bottom and left/right angle of view 170° (CR>10), High contrast (800:1) Easily replaceable B/L (slide type), Supply voltage (+3.3 V/+5 V)		
	38 [15]	LQ150X1LGB1	786 432	1 024 × RGB × 768	304.1 × 228.1		16 194 277		331.6 × 254.8 × 12.5	Built-in (4CCFT)	LVDS*3 (6-bit + 2-bit FRC)	High luminance (600 cd/m ²), High contrast (350:1) Easily replaceable B/L (slide type), Supply voltage (+3.3 V)
		LQ150X1LW71N							331.6 × 254.76 × 12.5			Top/bottom and left/right angle of view 170° (CR ≥ 10), High contrast (400:1) Easily replaceable B/L (slide type)

*1 Pixel means a set of each RGB dot. Figures may be rounded up if necessary.

*2 Excluding FPC for connection and other excessing parts.

*3 LVDS: Low Voltage Differential Signaling

*4 Wide temperature range specifications (Operating temperature range: -10 to +65°C (ambient), storage temperature range: -30 to +70°C)

*5 Wide temperature range specifications (Operating temperature range: -30 to +80°C (panel surface), storage temperature range: -30 to +80°C)

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

<For LCD TV>

	Display size (cm) ["]	Model No.	Number of pixels*1	Dot format H x V (dot)	Active area H x V (mm)	Number of colors (color)	Overall dimensions*2 W x H x D (TYP.) (mm)	Backlight	Video interface (Input video signal)	Remarks
TFT	64.8 [26]	LQ255T3LZ44	1 049 088	1 366 × RGB × 768	564.8 × 317.6	16 777 216	626.0 × 373.0 × 48.0	Built-in	LVDS*3 (8-bit digital)	ASV*4 LCD, Wide viewing angle, High luminance, High contrast, Built-in inverter
	80 [32]	LQ315T3LZ44	1 049 088	1 366 × RGB × 768	697.69 × 392.26		760.0 × 450.0 × 48.0			
	94 [37]	LK370T3LZ51	1 049 088	1 366 × RGB × 768	819.6 × 460.8		877.0 × 514.6 × 56.0			
		LQ370D3LZ14	2 073 600	1 920 × RGB × 1 080	819.4 × 460.9		877.0 × 516.0 × 56.0			

*1 Pixel means a set of each RGB dot.

*2 Excluding FPC for connection and other excessing parts.

*3 LVDS: Low Voltage Differential Signaling

*4 ASV: Advanced Super View

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

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<For automotive applications> (1)

- LQ065T9DR51U/52U, LQ070T5GG30, LQ080T5GG01C, LQ088H9DR01U:

operating temperature (panel surface temperature) -30 to +85°C storage temperature -30 to +85°C

All others: -40 to +85°C

	Display size (cm) ["]	Model No.	Dot format H x V (dot)	Pixel pitch H x V (mm)	Active area H x V (mm)	Input signal system	Input video signal	Back-light	Luminance (cd/m ²) (TYP.)	Power consumption (mW) (TYP.)	Overall dimensions* ⁹ W x H x D (mm) (TYP.)	Weight (g) (TYP.)	Remarks	
TFT	7.8 [3.1]	☆LQ031B5DG01	270 x RGB x 96* ¹	0.273 x 0.273	73.7 x 26.2	6-bit digital RGB	6-bit digital	Built-in 9LED	350	700	85.4 x 38.8 x 10.2	44	Wide viewing angle, 260K-color display, LED backlight, RoHS compliant	
	8.3 [3.3]	★LQ033B5DG02	160 x RGB x 176* ²	0.351 x 0.349	56.2 x 61.4			290	1 800	73 x 78.3 x 12.5	90	Wide viewing angle, 260K-color display, High-speed response (low temperature), Portrait, RoHS compliant		
	13 [4.9]	LQ049B5DG04	320 x RGB x 96* ³	0.375 x 0.375	120.0 x 36.0			Built-in 1CCFT	350	2 800	142 x 54 x 13	110	260K-color display, Wide screen (10:3)	
	15 [5.8]	LQ058T5GG06	400 x RGB x 234* ⁴	0.318 x 0.307	127.2 x 71.8	NTSC/PAL* ¹⁰	TFT specific analog RGB* ¹¹	470	3 900	142 x 83.5 x 8.5	140 (Max)	140 (Max)	Thin, Wide screen (16:9)	
		LQ065T5GG61	400 x RGB x 234* ⁴	0.359 x 0.339	143.4 x 79.3								400	3 300
		☆LQ065T5CGxx	400 x RGB x 234* ⁴	0.359 x 0.339	143.4 x 79.3	6-bit digital RGB	6-bit digital	Composite analog RGB	Built-in 2CCFT	635	6 000	157.2 x 91.9 x 18.5	281	High luminance, Wide screen (16:9), All in one, RoHS compliant
	16 [6.5]	LQ065T9DR51U/52U	400 x RGB x 240* ⁵	0.359 x 0.331	143.4 x 79.3			Built-in 1CCFT	220	5 200	155 x 89.2 x 12.5	205 (Max)	Advanced TFT (Transmissive/reflective), 260K-color display, Wide screen (16:9)	
		LQ065Y5DG02	800 x RGB x 480* ⁶	0.18 x 0.163	144.0 x 78.2	500	5 100	160 x 94 x 8.2	185 (Max)	High resolution (W-VGA), High luminance, 260K-color display, Thin, Wide screen (17:9), RoHS compliant				

*1 Number of Pixels: 25 920

*4 Number of Pixels: 93 600

*7 Number of Pixels: 112 320

*9 Excluding FPC for connection and other protruding parts.

*10 MBK-PAL system is adopted as PAL. The LCD panel has 234 (240) scanning lines, and displays a picture of 273 (274) virtual scanning lines.

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

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

*2 Number of Pixels: 28 160

*5 Number of Pixels: 96 000

*8 Number of Pixels: 153 600

*3 Number of Pixels: 30 720

*6 Number of Pixels: 384 000

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<For automotive applications> (2)

● LQ065T9DR51U/52U, LQ070T5GG30, LQ080T5GG01C, LQ088H9DR01U:

operating temperature (panel surface temperature) -30 to +85°C storage temperature -30 to +85°C

All others: -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 ²) (TYP.)	Power consumption (mW) (TYP.)	Overall dimensions* ⁹ W × H × D (mm) (TYP.)	Weight (g) (TYP.)	Remarks
TFT	18 [7]	LQ070T5GG12	480 × RGB × 234* ⁷	0.326 × 0.352	156.2 × 82.4	NTSC/PAL* ¹⁰	TFT specific analog RGB* ¹¹	Built-in 1CCFT	400	3 500	167 × 93 × 6.9	195 (Max)	Thin, Wide screen (17:9), RoHS compliant
		LQ070T5CRxx	480 × RGB × 234* ⁷	0.321 × 0.372	154.1 × 87.0		Composite analog RGB	Built-in 2CCFT	500	11 400	192.4 × 109.5 × 19.4	370	High luminance, Wide screen (16:9), All in one
		LQ070T5GG30	480 × RGB × 234* ⁷	0.321 × 0.372	154.1 × 87.0		TFT specific analog RGB* ¹¹	Built-in 1CCFT	400	3 600	164.4 × 99.5 × 8.2	240 (Max)	Equipped with transmissive touch panel, Thin, Wide screen (16:9), RoHS compliant
		LQ070Y5DR04	800 × RGB × 480* ⁶	0.191 × 0.191	152.4 × 91.4		6-bit digital RGB		6-bit digital	400	6 000	165 × 105.5 × 12	240
		☆LQ070Y5DG05	800 × RGB × 480* ⁶	0.195 × 0.1725	156.0 × 82.8	460				3 600	167 × 93 × 7.2	196 (Max)	High resolution (W-VGA), 260K-color display, Thin, Wide screen (17:9), 7-inch (GG12) vertical/horizontal compatible, RoHS compliant
	20 [8]	LQ080T5GG01C	480 × RGB × 234* ⁷	0.368 × 0.424	176.4 × 99.2	NTSC/PAL* ¹⁰	TFT specific analog RGB* ¹¹	400	5 800	193.3 × 116.5 × 8.8	250	Thin, Wide screen (16:9), RoHS compliant	
		LQ080Y5DR02	800 × RGB × 480* ⁶	0.218 × 0.218	174.0 × 104.4	6-bit digital RGB	6-bit digital	Built-in 2CCFT	625	6 200	190 × 120 × 13	385	High resolution (W-VGA), High luminance, 260K-color display, Wide screen (15:9)
	22 [8.8]	LQ088H9DR01U	640 × RGB × 240* ⁸	0.327 × 0.327	209.3 × 78.5				220	7 000	231.6 × 103.25 × 14.4	370 (Max)	Advanced TFT (Transmissive/reflective), 260K-color display, Wide screen (8:3)
	24 [9.5]	LQ095Y5DR01	800 × RGB × 480* ⁶	0.258 × 0.258	206.4 × 123.8			Built-in 4CCFT	380	9 300	229 × 149 × 13.9	475 (Max)	High resolution (W-VGA), 260K-color display, Wide screen (15:9)

*1 Number of Pixels: 25 920

*4 Number of Pixels: 93 600

*7 Number of Pixels: 112 320

*9 Excluding FPC for connection and other protruding parts.

*10 MBK-PAL system is adopted as PAL. The LCD panel has 234 (240) scanning lines, and displays a picture of 273 (274) virtual scanning lines.

*11 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 portable AV>

	Display size (cm) ["]	Model No.	Dot format H x V (dot)	Pixel pitch H x V (mm)	Active area H x V (mm)	Input signal system	Input video signal	Back-light	Luminance (cd/m ²) (TYP.)	Power consumption (mW) (TYP.)	Overall dimensions* ⁶ W x H x D (mm) (TYP.)	Weight (g) (TYP.)	Remarks
CG Silicon	6.4 [2.5]	LS025A8GY02	920 x 234* ¹	0.055 x 0.162 (Dot pitch)	50.6 x 37.9	NTSC/PAL* ³	CG Silicon specific analog RGB* ⁴	Built-in LED	260	415	60.8 x 48.1 x 3.8	21	Super Mobile LCD with high outdoor visibility due to transfectivity, Top/bottom and left/right angle of view 160° (CR ≧ 5), High resolution (215,000 pixels), RGB delta configuration, High luminance, RoHS compliant, Lead-free solder compatible
TFT	6.4 [2.5]	★LQ025A3DS01	480 x RGB x 240* ²	0.104 x 0.156	49.87 x 37.44		TFT specific analog RGB* ⁵		250	T.B.D.	60.0 x 44.3 x 2.7	T.B.D.	RGB delta configuration, FPC side positioning, RoHS compliant, Lead-free solder compatible

*1 Number of Pixels: 71 760

*2 Number of Pixels: 115 200

*3 MBK-PAL system is adopted as PAL. The LCD panel has 234 (220) scanning lines, and displays a picture of 273 (256) virtual scanning lines.

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

*5 Video interface: Internal

*6 Excluding FPC for connection and other excessing parts.

* CG Silicon ... Continuous grain silicon technology developed jointly with Semiconductor Energy Laboratory Co. Ltd. is used.

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

<For cellular phones>

	Display size (cm) ["]	Model No.	Dot format H x V (dot)	Pixel pitch H x V (mm)	Active area H x V (mm)	Input video signal	Back-light	Contrast ratio (Transmissive/Reflective)	Luminance (cd/m ²) (TYP.)	Overall dimensions W x H x D (mm) (TYP.)	Weight (g) (TYP.)	Remarks
CG Silicon	5.6 [2.2]	★LS022Q8Axxx	240 x RGB x 320* ¹	0.141 x 0.141	33.84 x 45.12	18-bit Digital RGB/CPU bus	Built-in LED	T.B.D.	180	40.85 x 57.98 x 4.48	T.B.D.	Super Mobile LCD with high outdoor visibility due to transfectivity, Top/bottom and left/right angle of view 160° (CR ≧ 5), High contrast, 260k-color display
CSTN	4.5 [1.8]	★LM18TGFNZ19	128 x RGB x 160* ²	0.219 x 0.219	28.019 x 35.028	CPU bus		30 : 1	180	38.4 x 47.1 x 3.9	T.B.D.	Transmissive type, 65k-color display, Low price, RoHS compliant
	3.9 [1.5]	★LM15TGFNZ24	128 x RGB x 128* ³	0.204 x 0.220	26.097 x 28.145	CPU bus		45 : 1	120	34.8 x 41.31 x 3.8	T.B.D.	Transmissive type, 65k-color display, Low price, RoHS compliant
		★LM15TGFNZ26	128 x RGB x 128* ³	0.204 x 0.220	26.1 x 28.15	CPU bus		45 : 1	160	35.0 x 41.5 x 3.0	T.B.D.	Transmissive type, 65k-color display, Module thickness 3 mm MAX., RoHS compliant
		LM15SGFNZ16	128 x RGB x 128* ³	0.204 x 0.220	25.908 x 28.14	Serial 8-bit CPU bus	20	110	33.4 x 41.6 x 3.3	6.5	Transmissive type, 65k-color display, RoHS compliant	

*1 Number of Pixels: 76 800

*2 Number of Pixels: 20 480

*3 Number of Pixels: 16 384

* CG Silicon ... Continuous grain silicon technology developed jointly with Semiconductor Energy Laboratory Co. Ltd. is used.

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■ EL Display Modules

Display size (cm) ["]	Model No.	Dot format H x V (dot)	Dot pitch H x V (mm)	Active area H x V (mm)	Areal luminance (cd/m ²) (TYP.)	Supply voltage (V)	Power consumption (W) (TYP.)	Operating temperature (°C)	Overall dimensions W x H x D (mm) (TYP.)	Weight (g) (TYP.)	Remarks
23 [8.9]	LJ64H034	640 x 400	0.30 x 0.30	191.9 x 119.9	110*1	+5, +12	11	-5 to +55	246.0 x 175.0 x 19.0	450	High luminance, Wide viewing angle
	LJ089MB2S01				60				246.0 x 158.0 x 26.0	390	Wide viewing angle

*1 In case of frame frequency = 120 Hz
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