



	Part Number	LQ0228UD05	LQ025Q3DW02	LS02887UX01	LQ030B7DD01	LQ035Q306xx	LQ035Q30G01	LQ035Q7DB02R	LQ035Q7DB03F	LQ035Q7DB05	LQ035Q7DH06	LQ035Q7DH07	LQ036Q1DA01	LS037V7DW01	LS037V7DW03	LQ038Q3DC01	LQ038Q7DB03R	
Key Features	Resolution	QCIF+	WQVGA	WQVGA	WQVGA	QVGA	QVGA	QVGA	QVGA	QVGA	QVGA	QVGA	QVGA	QVGA/VGA	QVGA/VGA	QVGA	QVGA	
	Status	A	A	A	B	MP 1Q09	A	A	A	A	Upgraded DH01	B	A	A	A	No TS	A	
	Comments	Portrait Mode		Portrait	Square No TS	TS	No TS	TS	No TS	No TS	TS	No TS	No TS	TS	No TS	No TS	No TS	Outdoor Panel Use
	Panel Mode	Transflective	Transmissive	Transflective	Transflective	Transmissive	Transmissive	Transflective	Transflective	Transflective	Transflective	Transflective	Transmissive	Transflective	Transflective	Transmissive	Transflective	
RoHS	Pb - Free	RoHS	RoHS	RoHS	RoHS	No	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	
Mechanical	Nominal Diagonal	Inch	2.2" (xx cm)	2.5" (6.3 cm)	2.75"	2.99" (7.60 cm)	3.5" (8.8 cm)	3.5" (8.8 cm)	3.52" (8.88 cm)	3.52" (8.88 cm)	3.52" (8.9 cm)	3.52" (8.9 cm)	3.6" (9.10 cm)	3.7" (9.4 cm)	3.7" (9.4 cm)	3.8" (9.6 cm)	3.78" (9.54 cm)	
	Outline Dimensions	mm	42.1 × 56.6 × 4.2	56.8 × 48.8 × 3.5	41.8 × 70.5 × 2.3	66.6 × 68.5 × 3.6	76.9 × 63.9 × 4.5	63.9 × 76.9 × 3.5	65.0 × 85.0 × 4.5	65.0 × 85.0 × 3.4	65.0 × 85.0 × 3.4	65.0 × 86.2 × 4.0	65.0 × 86.2 × 3.2	82.8 × 69.7 × 3.3	65.0 × 89.2 × 4.4	65.0 × 89.2 × 3.6	90.6 × 79.9 × 9.9	69.0 × 88.6 × 3.4
	Active Area	mm	34.848 × 43.56	49.92 × 37.44	36.00 × 60.00	53.76 × 53.76	70.56 × 52.92	70.56 × 52.92	53.64 × 71.52	53.64 × 71.52	53.64 × 71.52	53.64 × 71.52	53.64 × 71.52	72.5 × 54.4	56.16 × 74.88	56.16 × 74.88	76.80 × 57.60	57.6 × 76.8
	Pixel Format		176 × 220	320 × 240	240 × 400	320 (×3) × 320	320 (×3) × 240	320 (×3) × 240	240 (×3) × 320	240 (×3) × 320	240 (×3) × 320	240 (×3) × 320	240 (×3) × 320	320 (×3) × 240	480 × 640	480 × 640	320 (×3) × 240	240 (×3) × 320
	Pixel Pitch	mm	0.066 × 0.066	0.156 × 0.156	0.050 × 0.050	0.056 × 0.056	0.2205 × 0.2205	0.2205 × 0.2205	0.2235 × 0.2235	0.2235 × 0.2235	0.2235 × 0.2235	0.2235 × 0.2235	0.2235 × 0.2235	0.076 × 0.076	0.039 × 0.039	0.039 × 0.117	0.24 × 0.24	0.24 × 0.24
	Weight	g	12.1	25	10	37	43	33	50	40	40	45	34	37	48	38	105	42
	Surface Treatment		AG	3H	Clear HC	AG 2H	AG	3H	3H	3H	2H	3H	3H	3H	3H	3H	3H	
Environmental	Operating Temp	°C	-10 to +60	-10 to +60	-10 to +60	-10 to +60	-10 to +70	-20 to +70	-10 to +60	-10 to +60	-10 to +60	-10 to +70	-10 to +70	-10 to +60	-10 to +60	-10 to +60	-30 to +70	0 to +50
	Storage Temp	°C	-20 to +70	-25 to +70	-30 to +70	-20 to +70	-30 to +85	-30 to +80	-25 to +70	-25 to +70	-25 to +70	-25 to +70	-25 to +70	-20 to +70	-20 to +70	-20 to +70	-30 to +80	-25 to +70
Electronics	Response Time (TYP.)	ms	63	30	40	80	60	28	80	80	80	80	45	35	35/20	28	80	
	Clock Frequency (TYP.)	Mhz	6.8	5.0		8.2	5.0	5.0	6.8	6.8	6.8	6.8	6.8				6.8	6.8
Optical	Display Mode		Normally White	Normally Black	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally Black	Normally Black	Normally White	Normally White
	Display Orientation			UD/LR			UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR		U/D L/R	U/D L/R	U/D L/R	UD/LR
	Optimum View Angle		Symmetrical	Symmetrical	Symmetrical	6:00	6:00	6:00	12:00	12:00	12:00	12:00	12:00	12:00	Symmetrical	Symmetrical	6:00	Symmetrical
	Viewing Angle - side to side		60	160	160	100	90	140	80	80	80	80	80	160	160	160	140	80
	Viewing Angle - 12 o'clock		30	80	80	40	20	60	50	50	50	50	50	80	80	80	60	40
	Viewing Angle - 6 o'clock		30	80	80	50	55	65	40	40	40	40	40	50	80	80	70	40
	Bits per Color		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Transmissive CR		60	500	400	70	300	500	70	85	85	80	80	500	200	200	450	75
	Brightness	nits	125	350	300	110	400	450	50	55	160	225	250	280	165	160	200	90
	Reflective CR		NA	NA	13	5	NA	NA	8	15	15	3	3	NA	2	2	NA	8
Reflectance	%	11%	NA	2.5%	6	NA	NA	11%	13%	13%	4%	4%	NA	4%	4%	NA	11%	
Electrical	Display Voltages (TYP.)	VDC	+3.0	+3.3	3.3, 5.0	+3.0, +5.0, +15.0	1.8, 3.3	3.3	+5.0, +3.3, +15.0, -10.0	+5.0, +3.3, +15.0, -10.0	+5.0, +3.3, +15.0, -10.0	3.3, 5.0, 15.0	3.3, 5.0, 15.0, -12	3.3, 5.0, 15.0, -12	3.3, 5.0	3.3	3.3	3.3, 5.0, 15.0, -15.0
	Display Power (TYP.)	Watts	0.0225	0.00231	0.033	0.259	0.292	0.292	0.02285	0.02285	0.02285	0.020	0.020	0.022	0.1485	0.1485	0.429	0.0844
	Backlight System		Serial (4-LED)	Serial (4-LED)	Serial (5-LED)	Serial (5-LED)	Serial (7-LED)	Serial (7-LED)	Serial (6-LED)	Serial (6-LED)	Serial (6-LED)	Serial (6-LED)	Serial (6-LED)	Serial (7-LED)	Serial (7-LED)	Serial (7-LED)	2 Series (7-LED)	Series (9-LED)
	Backlight Life	Hrs					10000		10,000	10,000	10000	10000	5,000				40,000	50,000+
	Backlight Power (TYP.)	Watts	0.123	0.256	0.350	0.4	0.538	0.448	0.324	0.384	0.384	0.384	0.384	0.440	0.446	0.446	0.300	0.486
	Total Power (TYP.)	Watts	0.1455	0.25831			0.5672	0.4772	0.34685	0.40685	0.40685	0.404	0.404	0.462	0.5945	0.5945	0.729	0.5704
	CCFT Part Number		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	none	None	None
	LED Part Number		(Nichia) N5S008CT	(Sharp) GM48WB4318A	Unknown	Unknown	(Nichia) N5S006T	(Nichia) N5S008C	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Interface	Signal Type		Digital RGB		Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	
	LED Type		LED on FPC		LED on FPC	(LED) 4-pin FPC	LED on FPC	LED on FPC	(LED) 5-pin FPC	(LED) 5-pin FPC	(LED) 5-pin FPC	LED on FPC	LED on FPC	LED on FPC	LED on FPC	LED on FPC	LED thru CN1	LED on FPC
Support ICs	ASIC	Source: LR38825			LZ9FD534	LZ9FC23		LZ9FC23	LZ9FC23	LZ9FC23	LZ9FC23	LZ9FC23	LZ9FC23	Not needed	Not needed		LZ9FC23	
	GSIC	Gate: LH169CH			IR3E3126	Included		Included	Included	Included	Included	Included	IR3E3146	Not needed	Not needed		IR3E3076 (Pb-free)	
Specifications	Number	LCP-05032A	LD-19X15B	LCP-2707023	LCP-03033		LCY-W-07X04	LCP-05011	LCP-04044	LCP-2506033	LCP-05020C	LCP-06012	LCP-04030B	LCP-06008A	LCP-06014A	LA1-06049A	LCP-05007	
	Date	10/20/05	3/7/08	6/27/07	7/9/03		10/24/07	6/16/05	10/5/04	6/25/07	10/13/05	5/15/06	9/10/04	3/1/06	7/20/06	8/23/06	5/20/05	



	Part Number	LQ038Q5D0R1	LQ043T1D601	LQ043T3D0X2	LQ043T3D601	LQ043T3D602	LQ050Q5D0R1R	LQ057Q3D0C12	LQ057V3D601	LQ057V3D602	LQ640343	LQ064V3D601	LQ065Y5D602	LQ070Y3D61A	LQ070Y3D62B	LQ075V3D601	LQ080V3D601	
Key Features	Resolution	QVGA	WQVGA	WQVGA	WQVGA	WQVGA	QVGA	QVGA/VGA	VGA	VGA	VGA	VGA	WVGA	WVGA	WVGA	VGA	VGA	
	Status	Not New Designs	A	A	MP Aug 2008	MP Aug 2008	A	A	A		A	A	A	MP Sep 2008	MP 1Q 2009	A	A	
	Comments	Hi Temp, WVA	TS	16.9 AR	16.9 AR TS	No TS	Hi Temp, WVA, No TS	Hi Temp, WVA, No TS	Hi Temp, WVA, No TS		Use LQ064V3D601	Low Cost No TS	No TS	No TS	TS Samsung Dropin	Kyocera Mech Match		
	Panel Mode	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive		Transmissive	Transmissive	
RoHS	Pb - Free	No	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	
Mechanical	Nominal Diagonal	Inch	3.8" (9.6 cm)	4.3" (10.9 cm)	4.3" (10.9 cm)	4.3" (10.9 cm)	4.96" (12.6 cm)	5.7" (14.4 cm)	5.7" (14.4 cm)	5.7" (14.4 cm)	6.4" (16 cm)	6.4" (16 cm)	6.5" (16.4 cm)	7.0" (17.8 cm)	7.0" (17.8 cm)	7.5" (19.0 cm)	8.0" (20.3 cm)	
	Outline Dimensions	mm	117.5 × 69.45 × 13.45	105.5 × 67.2 × 5.05	105.5 × 67.2 × 3.95	105.5 × 67.2 × 5.05	105.5 × 67.2 × 3.95	119.4 × 89.1 × 12.7	144.0 × 104.6 × 13.0	144.0 × 104.6 × 12.3	144.0 × 104.6 × 12.3	175.0 × 126.5 × 12.0	161.3 × 117.0 × 12.0	160.0 × 94.0 × 8.2	163.2 × 104.0 × 6.2		184 × 139.8 × 12.7	183.0 × 141.0 × 14.0
	Active Area	mm	78.72 × 53.64	95.04 × 53.856	95.04 × 53.856	95.04 × 53.856	95.04 × 53.856	101.28 × 74.76	115.2 × 86.4	115.2 × 86.4	115.2 × 86.4	130.6 × 97.0	130.56 × 97.92	144.0 × 78.24	152.4 × 91.4	152.4 × 91.44	151.68 × 113.76	162.2 × 121.7
	Pixel Format		320 (×3) × 240	480 (×3) × 272	480 (×3) × 272	480 (×3) × 272	480 (×3) × 272	320 (×3) × 240	320 (×3) × 240	640 (×3) × 480	640 (×3) × 480	640 (×3) × 480	640 (×3) × 480	800 × 480	800 (3) × 480	800 (3) × 480	640 (×3) × 480	640 (×3) × 480
	Pixel Pitch	mm	0.082 × 0.082	0.198 × 0.198	0.198 × 0.198	0.198 × 0.198	0.198 × 0.198	0.1055 × 0.1055	0.360 × 0.360	0.180 × 0.180	0.180 × 0.180	0.204 × 0.202	0.204 × 0.204	0.06 × 0.06	0.1905 × 0.1905	0.1905 × 0.1905	0.237 × 0.237	0.2535 × 0.2535
	Weight	g	125	62	50	65	55	170	220	250	TBD	290	280	185	TBD	TBD	365	390
	Surface Treatment		AG + LR	AG, 2H		AG, 2H	AG	AG + LR	3H	AG	AG	AG 3H	AG	AG	AG	AG 2H		AG 3H
Environmental	Operating Temp	°C	-30 to +85	-10 to +70	-10 to +50	-10 to +70	-10 to +70	-30 to +85	-30 to +80	-30 to +80	TBD	0 to +55	-30 to +80	-30 to +85	-10 to +70	-10 to +70	-30 to +80	0 to +70
	Storage Temp	°C	-40 to +95	-30 to +85	-25 to +60	-30 to +85	-30 to +85	-40 to +95	-30 to +80	-30 to +80	TBD	-25 to +70	-30 to +80	-30 to +85	-30 to +80	-30 to +80	-30 to +80	-25 to +70
Electronics	Response Time (TYP.)	ms	80	60	60	29	29	80	29	29	29	60	29	80	TBD		26	80
	Clock Frequency (TYP.)	Mhz	7.5	9.0	9	8.54	9.0	6.3	25.18	25.2	25.2	25.2	25.2	33.2	33.3		25.2	25.18
Optical	Display Mode		Normally White	Normally White	Normally Black	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White		Normally White	Normally White
	Display Orientation			UD/LR	U/D L/R	U/D L/R	U/D L/R	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR	UD/LR		UD/LR	UD/LR
	Optimum View Angle		6.00	6.00	Symmetrical	6.00	6.00	6.00	12.00	12.00	12.00	6.00*	6.00*	1	0		6.00*	6.00*
	Viewing Angle - side to side		130	120	160	160	160	130	130	160	160	140	140	130	130	130	140	130
	Viewing Angle - 12 o'clock		40	40	80	60	60	55	65	80	80	40	40	65	50	50	60	65
	Viewing Angle - 6 o'clock		65	60	80	80	80	65	40	70	70	70	70	60	60	60	65	55
	Bits per Color		6	8	8	6	6	6	6	6	6	6	6	6	6	6	6	12
	Transmissive CR		100	300	400	900	900	100	350	600	600	250	350	100	TBD	300	600	250
	Brightness	nits	450	500	165	400	480	380	500	400	400	300	350	500	300	300	400	380
	Reflective CR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reflectance	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Electrical	Display Voltages (TYP.)	VDC	3.3	3.3, 5.0	2.5, 5.0	3.15	3.15	3.3	3.3	3.3	3.3	5.0	3.3 or 5.0	3.3, 5.0, 15.0, -17.4	3.30		3.30	3.3 or 5.0
	Display Power (TYP.)	Watts	0.46	0.0416	0.053	0.0425	0.726	0.462	0.429	0.726	0.726	1.25	1.0 @ 5V	0.20	1.96			
	Backlight System		1 × CCFT	Series (9-LED)	Series (7-LED)	Series (9-LED)	Series (9-LED)	1 × CCFT	1 × CCFT	1 × CCFT	LED	2 × CCFT	2 × CCFT	2 × CCFT	3 parallel (8-LED)	LED	1 × CCFT	1 × CCFT
	Backlight Life	Hrs	20,000	TBD	TBD	TBD	TBD	20,000	50,000	50,000	50,000	50,000	50,000	TBD	10,000 min	10,000 min	50,000	10,000
	Backlight Power (TYP.)	Watts	2.9	0.576	0.54	1.107	1.107	3.69	3.40	3.45	3.6	5.30	3.70	TBD	TBD		5.10	
	Total Power (TYP.)	Watts	3.36	0.6176	0.593	1.1495	1.1796	4.152	3.829	4.176	4.326	6.55	4.70	TBD	TBD			
	CCFT Part Number		TBD	NA	NA	NA	NA					LQ0B197						
LED Part Number		NA	Unknown	(Nichia) NESW008B	(Nichia) NSSW006T	(Nichia) NSSW006T					Unknown	NA	NA	NA	Unknown	Unknown	NA	NA
Interface	Signal Type		Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB on FPC	Digital RGB	Digital RGB	Digital RGB	Digital RGB	
	LED Type			LED on FPC		LED in FPC	LED in FPC				PWM LED Dimmer			Gate Driver FPC				
Support ICs	ASIC		NA	Not needed	Not needed	Not needed						NA	NA	NA	NA	NA	NA	
	GSIC		NA	Not needed	Not needed	Not needed												
Specifications	Number		LCY-00044D	LCY-W-06602A	LCM-05042	LD-20311B	LD-20503A	LCY-02002A	LA1-05016B	LA1-07014A	LA1-19754A	LCY-00030D	LA1-04032E	LCY-05033	LD-19X68E	Product Brief	LCY-03094B	LCY-02131A
	Date		8/4/05	7/21/06	12/28/05	5/13/08	5/13/08	8/11/05	9/26/06	5/29/07	9/12/07	7/13/05	11/2/06	6/8/05	3/12/08		3/29/05	7/13/05



	Part Number	LQ084V1D621	LQ084S3D601	LQ084S3L601	LQ084V3D601	LQ085Y3D606	LQ10D368	LQ10D421	LQ104S1D621	LQ104S1D631	LQ104S1D661	LQ104S1L621	LQ104S1L631	LQ104S1L661	LQ104V1D621	LQ104V1D651	LQ104V1D661		
Key Features	Resolution	VGA	SVGA	SVGA	VGA	WVGA	VGA	VGA	SVGA	SVGA	SVGA	SVGA	SVGA	SVGA	VGA	VGA	VGA		
	Status	A	A	A	A	MP Aug 2008	A	B	A	(Equiv)	MP Aug 2008	A	MP Aug 2008	MP Aug 2008	A	A	A		
	Comments	LQ084V3D601								NEC NL8060BC26			LVDS Input	LVDS Input	Digital Input	Small form, high bright	Strong 2 Tech		
	Panel Mode	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive					Transmissive	Transmissive	Transmissive		
RoHS	Pb - Free	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS		
Mechanical	Nominal Diagonal	Inch	8.4" (21 cm)	8.4" (21 cm)	8.4" (21 cm)	8.4" (21 cm)	8.5" (21.6 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)		
	Outline Dimensions	mm	216.0 × 152.4 × 12.0	199.5 × 149.5 × 11.6	199.5 × 149.5 × 11.6	199.5 × 149.5 × 11.6	212 × 134 × 12.5	246.5 × 179.4 × 11.0	265.0 × 195.0 × 11.5	246.5 × 179.4 × 15	243.0 × 183.8 × 11.5	246.5 × 179.4 × 15	246.5 × 179.4 × 15.5	243.0 × 183.8 × 11.5	246.5 × 179.4 × 15.5	265.0 × 195.0 × 11.5	246.5 × 179.4 × 14.2	246.5 × 179.4 × 13.7	
	Active Area	mm	170.9 × 129.6	170.4 × 127.8	170.4 × 127.8	170.9 × 128.16	184.8 × 110.88	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4
	Pixel Format		640 (×3) × 480	800 (×3) × 600	800 (×3) × 600	640 (×3) × 480	800 (3) × 480	640 (×3) × 480	640 (×3) × 480	800 (×3) × 600	800 (×3) × 600	800 (×3) × 600	800 (×3) × 600	800 (×3) × 600	800 (×3) × 600	640 (×3) × 480	640 (×3) × 480	640 (×3) × 480	
	Pixel Pitch	mm	0.267 × 0.267	0.213 × 0.213	0.213 × 0.213	0.267 × 0.267	0.231 × 0.231	0.330 × 0.330	0.330 × 0.330	0.264 × 0.264	0.264 × 0.264	0.264 × 0.264	0.264 × 0.264	0.264 × 0.264	0.264 × 0.264	0.330 × 0.330	0.330 × 0.330	0.330 × 0.330	
	Weight	g	410	405	TBD	TBD	370	520	635	620	600	620	620	600	620	700	600	620	
	Surface Treatment		AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	
	Environmental	Operating Temp	°C	0 to +63	-30 to +80	-30 to +80	-30 to +80	0 to +75	-10 to +65	0 to +55	-10 to +65	-30 to +80	-30 to +80	-10 to +65	-30 to +80	-30 to +80	-10 to +65	-10 to +65	-30 to +80
Storage Temp		°C	-25 to +70	-30 to +80	-30 to +80	-30 to +80	-25 to +75	-30 to +70	-25 to +70	-35 to +70	-30 to +80	-30 to +80	-30 to +70	-30 to +80	-30 to +80	-30 to +70	-30 to +70	-30 to +80	
Electronics	Response Time (TYP.)	ms	60	30	30	29	29	60	60	60	35	35	35	35	35	60	60	35	
	Clock Frequency (TYP.)	Mhz	25.18	40.0	40.0	25.18	33.26	25.2	25.2	40.0	40.0	40.0	40.0	40.0	40.0	25.2	25.2	25.2	
Optical	Display Mode		Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White	Normally White		
	Display Orientation		R/L; U/D		U/D	R/L; U/D		R/L; U/D	R/L; U/D	R/L; U/D	U/D L/R	U/D L/R	U/D L/R	U/D	U/D R/L	R/L; U/D	R/L; U/D	R/L; U/D	
	Optimum View Angle		12.00*	6.00*	6.00*	6.00		6.00*	6.00*	6.00*	6.00*	6.00*	6.00*	6.00*	6.00*	6.00*	6.00*	6.00*	
	Viewing Angle - side to side		110	160	120	120	110	140	140	140	140	140	140	140	140	140	140	140	
	Viewing Angle - 12 o'clock		55	45	55	55	40	40	40	40	50	50	40	50	50	40	40	50	
	Viewing Angle - 6 o'clock		40	80	65	60	60	70	70	70	60	60	70	60	60	70	70	60	
	Bits per Color		6	6	8	6	6	6	6	6	6	6	6	6	6	6	6	6	
	Transmissive CR		250	320	600	600	250	300	300	300	500	500	300	500	500	300	300	600	
	Brightness	nits	300	350	400	400	260	200	300	350	350	420	350	350	420	350	350	450	
	Reflective CR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Reflectance	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Electrical	Display Voltages (TYP.)	VDC	3.3 or 5.0	3.3	3.3	3.3	3.3	3.3/5	3.3/5.0	3.3/5.0	3.3, 5.0	3.3, 5.0	3.3	3.3, 5.0	3.3, 5.0	3.3/5.0	3.3/5.0	3.3/5.0	
	Display Power (TYP.)	Watts	1.35	1.42	TBD	TBD	0.99	1.40	1.40	2.20			1.03	1.03	1.03	1.40	1.16	TBD	
	Backlight System		1 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	1 × CCFT	1 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	
	Backlight Life	Hrs	50,000	50,000	50,000	50,000	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	
	Backlight Power (TYP.)	Watts	4.1	4.6	4.6	4.6	4.8	3.0	5.6	5.6	5.6	7.0	5.6	5.6	7.0	5.6	5.6	5.6	
	Total Power (TYP.)	Watts	5.45	6.02		TBD	5.79	4.40	7.00	7.80			6.63	6.63	8.03	7.00	6.76	TBD	
	CCFT Part Number		LQ0DD80004	LQ0DD80013	LQ0DD80013	LQ0DD80004		LQ0DD85368	LQ0DD85369	LQ0DD85367						LQ0DD85367	LQ0DD85337	TBD	
	LED Part Number		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Interface	Signal Type	Digital RGB	Digital RGB	LVDS	Digital RGB	Digital RGB on FPC	Digital RGB	Digital RGB	Digital RGB	Digital RGB	Digital RGB	LVDS	LVDS	LVDS	Digital RGB	Digital RGB	Digital RGB		
Support ICs	ASIC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	GSIC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Specifications	Number		LCY-02131A	LCY-03115D	LA1-06073A	LA1-06061A	LA-19950A	LD-12610B	LD-14304D	LD-18561A	LD-19603A	LD-18203A	LD-18766A	LD-19Y02A	LD-19604A	LD-13708D	LD-18316A	LD-17Y59A	
	Date		7/13/05	4/11/06	2/9/07	2/20/07	9/5/07	12/11/05	9/27/05	6/23/06	6/08/07	2/7/06	7/20/06	11/16/07	6/8/07	12/13/05	4/03/06	11/16/05	



	Part Number	LQ104V1L6G1	LQ104V1D6G2	LQ104V1D0W2	LQ106K1LA05	LQ121S1D641	LQ121S1D6G1	LQ121S1L641	LQ121S1L6G1	LQ121S1LW01	LQ150X1L645	LQ150X1L655	LQ150X1L671	LQ150X1L681	LQ150X1L6B1	LQ150X1LW71N	LQ150X1LW72		
Key Features	Resolution	VGA	VGA	VGA		SVGA	SVGA	SVGA-Strong 1	SVGA	SVGA-Strong 2	XGA	XGA	XGA	XGA	XGA	XGA	XGA		
	Status	A	MP Aug 2008	A	MP Aug 2008		A	A	A	A	A	A	A	A	A	A	A		
	Comments	Strong 2 Tech	LED Backlight	ASV	15.9 AR	Strong 1	Strong 2 Tech	LVDS	Strong 2 Tech	LVDS	PSWG Compliant	PSWG Compliant	LVDS (6, 8)	LVDS	ASV	ASV	ASV		
	Panel Mode	Transmissive		Transmissive		Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive	Transmissive		
RoHS	Pb - Free	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS	RoHS		
Mechanical	Nominal Diagonal	Inch	10.4" (26 cm)	10.4" (26 cm)	10.4" (26 cm)	10.6" (27 cm)	12.1" (31 cm)	12.1" (31 cm)	12.1" (31 cm)	12.1" (31 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)	15" (38 cm)		
	Outline Dimensions	mm	246.5 × 179.4 × 13.7	246.5 × 179.4 × 12.5	246.5 × 179.4 × 15.5		276.0 × 209.0 × 11.0	276.0 × 209.0 × 11.0	276.0 × 209.0 × 11.0	276.0 × 209.0 × 11.0	276.0 × 209.0 × 11.0	326.5 × 253.5 × 11.2	326.5 × 253.5 × 11.2	326.0 × 252.0 × 11.2	326.0 × 252.0 × 11.2	331.6 × 254.76 × 12.5	331.6 × 254.76 × 12.5	331.6 × 254.76 × 12.5	
	Active Area	mm	211.2 × 158.4	211.2 × 158.4	211.2 × 158.4	230.4 × 138.2	246.0 × 184.5	246.0 × 184.5	246.0 × 184.5	246.0 × 184.5	246.0 × 184.5	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	304.1 × 228.1	
	Pixel Format		640 (×3) × 480	640 (×3) × 480	640 (×3) × 480	1280 (×3) × 768	800 (×3) × 600	800 (×3) × 600	800 (×3) × 600	800 (×3) × 600	800 (×3) × 600	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	1024 (×3) × 768	
	Pixel Pitch	mm	0.330 × 0.330	0.330 × 0.330	0.330 × 0.330	0.180 × 0.180	0.3075 × 0.3075	0.3075 × 0.3075	0.3075 × 0.3075	0.3075 × 0.3075	0.3075 × 0.3075	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	0.297 × 0.297	
	Weight	g	620	580	620	175	680	800	660	800	800	1000	1050	1000	1000	1200	1300	1350	
	Surface Treatment		AG	AG 3H	AG	AG, 2H, LR	AG	AG	AG	AG	AG	AG 3H	AG	AG	AG 3H	AG	AG 3H	AG	
Environmental	Operating Temp	°C	-30 to +80	-30 to +80	0 to +70	0 to +50	-10 to +65	-30 to +80	-10 to +65	-30 to +80	0 to +50	0 to +60	0 to +80	0 to +50	0 to +60	0 to +60	0 to +50	0 to +50	
	Storage Temp	°C	-30 to +80	-30 to +80	-20 to +70	-20 to +60	-30 to +70	-30 to +80	-30 to +70	-30 to +80	-25 to +60	-20 to +60	-20 to +60	-25 to +60	-25 to +60	-30 to +70	-25 to +60	-25 to +60	
Electronics	Response Time (TYP.)	ms	35	35	25	35	35	45	35	29	8	8	8		30	25	25		
	Clock Frequency (TYP.)	Mhz	25.2	25.2	28.3	81	40.0	40.0	40.0	40.0	40.0	65.0	65.0	65.0		65.0	65.0	65.0	
Optical	Display Mode		Normally White	Normally White	Normally Black		Normally White	Normally White	Normally White	Normally White	Normally Black	Normally White	Normally White	Normally White	Normally White	Normally White	Normally Black	Normally Black	
	Display Orientation			R/L; U/D	R/L; U/D			U/D L/R	U/D L/R	U/D L/R	U/D L/R	U/D	U/D	U/D	U/D				
	Optimum View Angle		6:00*	6:00*	Symmetrical	6:00	6:00*	6:00	6:00	6:00	6:00	6:00	6:00	6:00	6:00		Symmetrical		
	Viewing Angle - side to side		140	140	160	140	140	140	140	140	170	120	120	120	160	120	170	170	
	Viewing Angle - 12 o'clock		50	50	80	50	50	50	50	50	85	45	45	45	55	55	85	85	
	Viewing Angle - 6 o'clock		60	60	80	60	60	60	60	60	85	55	55	55	80	45	85	85	
	Bits per Color		6	6	6	6	6	6	6	6	6	6/8	6/8	6, 8		6/8	8	8	
	Transmissive CR		600	600	450	350	450	600	450	600	800	550	550	550		350	400	600	
	Brightness	nits	450	550	380	280	370	450	370	450	250	250	350	250		600	250	350	
	Reflective CR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reflectance	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Electrical	Display Voltages (TYP.)	VDC	3.3/5.0	3.3/5.0	3.3/5.0	3.3	3.3 or 5.0	3.3 or 5.0	3.3 or 5.0	3.3 or 5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
	Display Power (TYP.)	Watts	TBD	0.66	TBD	1.023	1.42	1.42	1.254/1.15	1.254/1.15	1.452/1.45	1.09	1.09	1.40		1.49	2.08	2.08	
	Backlight System		2 × CCFT	21 × LED	2 × CCFT	45 × LED	2 × CCFT	2 × CCFT	1 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	2 × CCFT	4 × CCFT	4 × CCFT	4 × CCFT	
	Backlight Life	Hrs	50,000	50,000	50,000	10000.00	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000		50,000	50,000	50,000	
	Backlight Power (TYP.)	Watts	5.6	4.464	5.6	2.45	6.6	7.0	3.5	7.0	7.0	8.4	8.4	8.6	8.6	15.0	16.0	16.0	
	Total Power (TYP.)	Watts	TBD	5.12	TBD	3.47	8.02	8.42	4.754/4.65	8.254/8.15	8.452/8.45		9.49	9.49	10.00		16.49	18.08	18.08
	CCFT Part Number		TBD	None	TBD		LQ0DD85399	LQ0DD85399	LQ0DD85399								LQ0DD85438	LQ0DD85387	
	LED Part Number		NA	Unknown	NA	Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Interface	Signal Type		LVDS	Digital RGB	Digital RGB	LVDS	Digital RGB	Digital RGB	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	
Support ICs	ASIC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	GSIC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Specifications	Number		LD-17817A	LD-20209A	LD-17817A	LD-19726B	LD-15604D	LD-18121A	LD-15606C	LD-18123A	LD-18225A	LD-19509A	LD-19512A	LD-19918A	LD-19919A	LD-16Y04	LD-15218A	LD-18322A	
	Date		8/26/05	2/7/08	8/26/05	8/31/07	6/13/05	1/27/06	6/13/05	1/27/06	02/16/06	05/18/07	05/18/07	10/05/07	10/05/07	11/16/04	09/02/05	04/13/06	



	Part Number	LQ190E1LW02	LQ190E1LW42	LQ200T3LZ14	LQ201U1LW11Z	LQ201U1LW21	LQ231U1LW01	LQ281L1LW14	LK46003LZ19	LK52003LZ19	LQ520D3LZ89	LK64503LZ29	LQ64503LZ69	LK64503LZ2U	
Key Features	Resolution	SXGA	SXGA	WXGA	UXGA Monochrome	UXGA	UXGA	Square Panel	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080	
	Status	MP 3Q 2008	MP 3Q 2008	MP 3Q 2008	B	B	A	A	A	A	Intro Aug 2008	A	Intro 2008	A	
	Comments				LVDS	LVDS	LDI	LVDS	Landscape Mode	Landscape Mode	Replaces LK520D3LZ19	Landscape Mode	Replaces LK64503LZ29	Portrait Mode	
	Panel Mode				Transmissive	Transmissive	Transmissive	Transmissive							
RoHS	Pb - Free	RoHS	RoHS				Yes	Yes							
Mechanical	Nominal Diagonal	Inch	19.0" (48 cm)	19.0" (48 cm)	20.0" (50.89 cm)	20.1" (51 cm)	20.1" (51 cm)	23.1" (59.0 cm)	28.05" (71.2cm)	46.0" (116.809cm)	52.0" (132.174cm)	52.0" (132.174cm)	64.5" (163.9cm)	64.5" (163.9cm)	64.5" (163.9cm)
	Outline Dimensions	mm	404.2 × 330.0 × 20.0	404.2 × 330.0 × 22.0	472.0 × 275.0 × 38.0	436 × 335 × 27.5	432 × 331.5 × 25	530.0 × 432.8 × 32.5	594 × 594 × 60	1083.0 × 627.0 × 65.7	1219.0 × 706.7 × 63.0	1219.0 × 706.7 × 63.0	1553.3 × 907.0 × 100.0	1553.3 × 907.0 × 100.0	907.0 × 1555.3 × 100.0
	Active Area	mm	376.32 × 301.056	376.32 × 301.056	443.6 × 249.4	408.0 × 306.0	408.0 × 306.0	470.5 × 352.8	503.808 × 503.808	1018.08 × 572.67	1152.0 × 648.0	1152.0 × 648.0	1428.48 × 803.52	1428.48 × 803.52	803.52 × 1428.48
	Pixel Format		1280 × 1024	1280 × 1024	1366 × 768	1600 × 1200	1600 × 1200	1600 × 1200	2048 × 2048	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080	1080 × 1920
	Pixel Pitch	mm	0.294 × 0.294	0.294 × 0.294	0.324 × 0.324	0.255 × 0.255	0.255 × 0.255	0.294 × 0.294	0.246 × 0.246	0.53025 × 0.53025	0.600 × 0.600	0.600 × 0.600	0.744 × 0.744	0.744 × 0.744	0.744 × 0.744
	Weight	g	2800	3200	2800	3800	3200	5500	1500	17100	19000		43500		42000
	Surface Treatment		AG	AG	AG	AG	AG	AG	AG	AG	AG LR		AG+LR		AG LR
Environmental	Operating Temp	°C	0 to +60	0 to +60	0 to +50	0 to +50	0 to +50	0 to +45	0 to +40	0 to +50	0 to +50	0 to +50	0 to +50	0 to +50	
	Storage Temp	°C	-25 to +60	-25 to +60	-25 to +60	-25 to +60	-25 to +60	-20 to +60	-25 to +60	-25 to +60	-25 to +60	-25 to +60	-25 to +60	-25 to +60	
Electronics	Response Time (TYP.)	ms	12	12	16	25	20	30	25	6	6	6	6	6	
	Clock Frequency (TYP.)	Mhz	54.0	54.0	82.0	81	81	81	35.0		74.25		74.25	74.25	
	Frame Rate		NA	NA	NA	NA	NA	NA	NA	60	60	60	60	60	
Optical	Display Mode		Normally Black	Normally Black	Normally Black	Normally Black	Normally Black	Normally Black	Normally Black	Normally Black	Normally Black	Normally Black	Normally Black	Normally Black	
	Display Orientation				U/D L/R				U/D L/R	U/D L/R	U/D L/R	U/D L/R	U/D L/R	U/D L/R	
	Optimum View Angle		Symmetrical	Symmetrical		Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical	
	Viewing Angle - side to side		170	170	176	170	176	170	170	176	176	176	176	176	
	Viewing Angle - 12 o'clock		85	85	88	85	88	85	85	88	88	88	88	88	
	Viewing Angle - 6 o'clock		85	85	88	85	88	85	85	88	88	88	88	88	
	Bits per Color		8	8	8	8	8	8	8	8	8	8	8	8	
	Transmissive CR		900	900	1500	1000	500	500	1000	1800	1800	1800	2000	2000	2000
	Brightness	nits	300	450	500	700	250	250	225	450	450	450	450	450	450
	Reflective CR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reflectance	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Electrical	Display Voltages (TYP.)	VDC	5.0	5.0	12.0, 24.0	3.3, 12.0	12.0	5.0, 12.0	12.0	3.3, 12.0, 24.0	3.3, 12.0, 24.0	3.3, 12.0, 24.0	12.0, 24.0	12.0, 24.0	3.3, 12.0, 24.0
	Display Power (TYP.)	Watts	4.50	6.75	3.60	4.68	5.04		15.60					21.00	
	Backlight System		4 × CCFT	6 × CCFT	5 × CCFT	6 × CCFT	6 × CCFT	6 × CCFT		22 × CCFT	24 × CCFT	24 × CCFT	36 × CCFT	36 × CCFT	64 × CCFT
	Backlight Life	Hrs	50,000		50,000	50,000	50,000	50,000	50,000	60,000	60,000	60,000	60,000	60,000	60,000
	Backlight Power (TYP.)	Watts	21.0	31.5	45.0	28.2	28.8		156.0					621.0	
	Total Power (TYP.)	Watts	25.5	38.3	48.6	32.9	33.8		171.6	202.0	257.4	257.4	422.0	422.0	453.6
	CCFT Part Number		LQ0DD85467	LQ0DD85468		LQ0DD85464		LQ0DD85464		Stanley CFL3331A					
	LED Part Number		NA	NA	NA	NA	NA	NA	NA						
	Inverter Voltage		NA	NA	NA	NA	NA	NA	NA	24V	24.00	24.00			
Inverter Current		NA	NA	NA	NA	NA	NA	NA		9.3/10.8	9.3/10.8				
Interface	Signal Type		LVDS	LVDS						LVDS	LVDS	LVDS	LVDS	LVDS	
	Number		LD-19Z57	LD-19Z59	LD-19X06	LD-15Y11	LD-16112	LD-17428	LD-19506A	LD-18Z32	LD-18952		LD-19231		
	Date		12/14/07	12/17/07	10/18/07	11/28/03	01/23/04	04/22/05	07/13/07	12/28/06	10/11/06		02/26/07		05/11/07

TFT LCD Numbering System

TFT Active Matrix LCD Display

LQ:	Thin Film Transistor
LS:	Continuous Grain Silicon(Low Temp Poly)
LK:	TFT Signage Displays

Display Input Type

A:	Analog RGB
B:	TFT Specific with Control and with Backlight
C:	Composite Video
E:	TFT Specific without Control and without Backlight
D:	Digital RGB
F:	TFT Specific with Control and without Backlight
G:	TFT Specific without Control and with Backlight
L:	LVDS
P:	P-Si I/F Analog
U:	QCIF I/F (Memory Bus Type)

Coating Treatment

A:	Anti-reflective Coating with Wide Viewing Angle
B:	Anti-reflective Coating without Wide Viewing Angle
C:	Clear Coat with Wide Viewing Angle
D:	Clear Coat without Wide Viewing Angle
G:	Anti-glare Coating with Wide Viewing Angle
H:	Anti-glare Coating without Wide Viewing Angle
N:	No Polarizer
R:	Anti-reflective and Anti-glare with Wide Viewing Angle
S:	Anti-reflective and Anti-glare without Wide Viewing Angle
W:	Anti-glare and Hard Coat with Wide Viewing Angle

Model No.

L

Q

1

5

0

X

1

L

G

N

2

A

Display Diagonal Screen Size

022:	2.2 inches	084:	8.4 inches
025:	2.5 inches	085:	8.5 inches
028:	2.8 inches	104:	10.4 inches
030:	3.0 inches	106:	10.6 inches
035:	3.5 inches	121:	12.1 inches
036:	3.6 inches	133:	13.3 inches
037:	3.7 inches	150:	15.0 inches
038:	3.8 inches	154:	15.4 inches
043:	4.3 inches	190:	19.0 inches
050:	5.0 inches	200:	20.0 inches
057:	5.7 inches	201:	20.1 inches
064:	6.4 inches	231:	23.1 inches
065:	6.5 inches	281:	28.1 inches
070:	7.0 inches	460:	46.0 inches
075:	7.5 inches	520:	52.0 inches
080:	8.0 inches	645:	64.5 inches

Display Format

A:	Non-PC Format	800 × 480
B:	QCIF	176 × 220
C:	PDA/Cellphone	
D:	HDTV Format	1920 × 1080
E:	SXGA	1280 × 1024
K:	HVGA	480 × 320
K:	Wide PC	1280 × 800
L:		2048 × 2048
M:	WUXGA	1600 × 1200
Q:	QVGA	320 × 240
S:	SVGA	800 × 600
T:	Wide QVGA	480 × 272
T:	Wide WXGA	1366 × 768
U:	UXGA	1600 × 1200
V:	VGA	640 × 480
W:	Wide PC	2048 × 2048
X:	XGA	1024 × 768
Y:	Wide VGA	800 × 480

Display Mode Type

1:	Transmissive OA
2:	Reflective OA
3:	Transmissive AV
4:	Reflective AV
5:	Transmissive AV Automotive
6:	Reflective AV Automotive
7:	Transflective OA
8:	Transflective AV
9:	Transflective AV Automotive
L:	LPS Transmissive 3 panel
M:	LPS Transmissive 3 panel
P:	OHP
Q:	LPS Reflective 1 panel
R:	LPS Reflective 3 panel
T:	AmSi Transmissive 1 panel

Display Model Number

Qxx: Automotive