

5 : 7 :
 9 : 11 :
 13 : 15 : /
 17 :

LCD 가

LCD
 AD , AD
 (R,G,B) (H/V Sync)
 RGB RGB

가

가

3) , 5 IC(53) IC(5
 (DATA), (CNT) (VDD), (GND),
 (3) 가 (55) 가

(55) IC(53)가 , XGA(1024
 $\times 768)$ 8 8 IC , { IC $\times (8 \times R, G, B \times$
 536 + + +)} , $8 \times (8 \times 3 \times 2 + 9 + 8 + 2) =$

IC 가

가

가

가 , / , ,

가 / ,

가 / ,

RGB

가 가

1

2 가 2 가 (3a) (3b) 3 (3c)

(3a) (3) (9), (11), (13) / (5) (15)

(9) (11) 가 (3, 3a, 3b..) (13)

(15) 가 가

(3) (Max. # of Data),

(# of Bit), (Gamma Data: 1,2,3,4..,n)

(3)

(17)

(3) 가 가 가

(5) 가 (3)

()

2 1 (11) 가 가 / (15) 가

/ 가 가 가

(5)

3 (11), (13) / (15) 가 (9),

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graph TD
    S1[13-bit input] --> S1_1[Shift left by 1]
    S1_1 --> S1_2[Shift left by 5]
    S1_2 --> S1_3[Shift left by 8]
    S1_3 --> S1_4[Shift left by 13]
    S1_4 --> S1_5[Shift left by 18]
    S1_5 --> S1_6[Shift left by 23]
    S1_6 --> S1_7[Shift left by 28]
    S1_7 --> S1_8[Shift left by 33]
    S1_8 --> S1_9[Shift left by 38]
    S1_9 --> S1_10[Shift left by 43]
    S1_10 --> S1_11[Shift left by 48]
    S1_11 --> S1_12[Shift left by 53]
    S1_12 --> S1_13[Shift left by 58]
    S1_13 --> S1_14[Shift left by 63]
    S1_14 --> S1_15[Shift left by 68]
    S1_15 --> S1_16[Shift left by 73]
    S1_16 --> S1_17[Shift left by 78]
    S1_17 --> S1_18[Shift left by 83]
    S1_18 --> S1_19[Shift left by 88]
    S1_19 --> S1_20[Shift left by 93]
    S1_20 --> S1_21[Shift left by 98]
    S1_21 --> S1_22[Shift left by 103]
    S1_22 --> S1_23[Shift left by 108]
    S1_23 --> S1_24[Shift left by 113]
    S1_24 --> S1_25[Shift left by 118]
    S1_25 --> S1_26[Shift left by 123]
    S1_26 --> S1_27[Shift left by 128]
    S1_27 --> S1_28[Shift left by 133]
    S1_28 --> S1_29[Shift left by 138]
    S1_29 --> S1_30[Shift left by 143]
    S1_30 --> S1_31[Shift left by 148]
    S1_31 --> S1_32[Shift left by 153]
    S1_32 --> S1_33[Shift left by 158]
    S1_33 --> S1_34[Shift left by 163]
    S1_34 --> S1_35[Shift left by 168]
    S1_35 --> S1_36[Shift left by 173]
    S1_36 --> S1_37[Shift left by 178]
    S1_37 --> S1_38[Shift left by 183]
    S1_38 --> S1_39[Shift left by 188]
    S1_39 --> S1_40[Shift left by 193]
    S1_40 --> S1_41[Shift left by 198]
    S1_41 --> S1_42[Shift left by 203]
    S1_42 --> S1_43[Shift left by 208]
    S1_43 --> S1_44[Shift left by 213]
    S1_44 --> S1_45[Shift left by 218]
    S1_45 --> S1_46[Shift left by 223]
    S1_46 --> S1_47[Shift left by 228]
    S1_47 --> S1_48[Shift left by 233]
    S1_48 --> S1_49[Shift left by 238]
    S1_49 --> S1_50[Shift left by 243]
    S1_50 --> S1_51[Shift left by 248]
    S1_51 --> S1_52[Shift left by 253]
    S1_52 --> S1_53[Shift left by 258]
    S1_53 --> S1_54[Shift left by 263]
    S1_54 --> S1_55[Shift left by 268]
    S1_55 --> S1_56[Shift left by 273]
    S1_56 --> S1_57[Shift left by 278]
    S1_57 --> S1_58[Shift left by 283]
    S1_58 --> S1_59[Shift left by 288]
    S1_59 --> S1_60[Shift left by 293]
    S1_60 --> S1_61[Shift left by 298]
    S1_61 --> S1_62[Shift left by 303]
    S1_62 --> S1_63[Shift left by 308]
    S1_63 --> S1_64[Shift left by 313]
    S1_64 --> S1_65[Shift left by 318]
    S1_65 --> S1_66[Shift left by 323]
    S1_66 --> S1_67[Shift left by 328]
    S1_67 --> S1_68[Shift left by 333]
    S1_68 --> S1_69[Shift left by 338]
    S1_69 --> S1_70[Shift left by 343]
    S1_70 --> S1_71[Shift left by 348]
    S1_71 --> S1_72[Shift left by 353]
    S1_72 --> S1_73[Shift left by 358]
    S1_73 --> S1_74[Shift left by 363]
    S1_74 --> S1_75[Shift left by 368]
    S1_75 --> S1_76[Shift left by 373]
    S1_76 --> S1_77[Shift left by 378]
    S1_77 --> S1_78[Shift left by 383]
    S1_78 --> S1_79[Shift left by 388]
    S1_79 --> S1_80[Shift left by 393]
    S1_80 --> S1_81[Shift left by 398]
    S1_81 --> S1_82[Shift left by 403]
    S1_82 --> S1_83[Shift left by 408]
    S1_83 --> S1_84[Shift left by 413]
    S1_84 --> S1_85[Shift left by 418]
    S1_85 --> S1_86[Shift left by 423]
    S1_86 --> S1_87[Shift left by 428]
    S1_87 --> S1_88[Shift left by 433]
    S1_88 --> S1_89[Shift left by 438]
    S1_89 --> S1_90[Shift left by 443]
    S1_90 --> S1_91[Shift left by 448]
    S1_91 --> S1_92[Shift left by 453]
    S1_92 --> S1_93[Shift left by 458]
    S1_93 --> S1_94[Shift left by 463]
    S1_94 --> S1_95[Shift left by 468]
    S1_95 --> S1_96[Shift left by 473]
    S1_96 --> S1_97[Shift left by 478]
    S1_97 --> S1_98[Shift left by 483]
    S1_98 --> S1_99[Shift left by 488]
    S1_99 --> S1_100[Shift left by 493]
    S1_100 --> S1_101[Shift left by 498]
    S1_101 --> S1_102[Shift left by 503]
    S1_102 --> S1_103[Shift left by 508]
    S1_103 --> S1_104[Shift left by 513]
    S1_104 --> S1_105[Shift left by 518]
    S1_105 --> S1_106[Shift left by 523]
    S1_106 --> S1_107[Shift left by 528]
    S1_107 --> S1_108[Shift left by 533]
    S1_108 --> S1_109[Shift left by 538]
    S1_109 --> S1_110[Shift left by 543]
    S1_110 --> S1_111[Shift left by 548]
    S1_111 --> S1_112[Shift left by 553]
    S1_112 --> S1_113[Shift left by 558]
    S1_113 --> S1_114[Shift left by 563]
    S1_114 --> S1_115[Shift left by 568]
    S1_115 --> S1_116[Shift left by 573]
    S1_116 --> S1_117[Shift left by 578]
    S1_117 --> S1_118[Shift left by 583]
    S1_118 --> S1_119[Shift left by 588]
    S1_119 --> S1_120[Shift left by 593]
    S1_120 --> S1_121[Shift left by 598]
    S1_121 --> S1_122[Shift left by 603]
    S1_122 --> S1_123[Shift left by 608]
    S1_123 --> S1_124[Shift left by 613]
    S1_124 --> S1_125[Shift left by 618]
    S1_125 --> S1_126[Shift left by 623]
    S1_126 --> S1_127[Shift left by 628]
    S1_127 --> S1_128[Shift left by 633]
    S1_128 --> S1_129[Shift left by 638]
    S1_129 --> S1_130[Shift left by 643]
    S1_130 --> S1_131[Shift left by 648]
    S1_131 --> S1_132[Shift left by 653]
    S1_132 --> S1_133[Shift left by 658]
    S1_133 --> S1_134[Shift left by 663]
    S1_134 --> S1_135[Shift left by 668]
    S1_135 --> S1_136[Shift left by 673]
    S1_136 --> S1_137[Shift left by 678]
    S1_137 --> S1_138[Shift left by 683]
    S1_138 --> S1_139[Shift left by 688]
    S1_139 --> S1_140[Shift left by 693]
    S1_140 --> S1_141[Shift left by 698]
    S1_141 --> S1_142[Shift left by 703]
    S1_142 --> S1_143[Shift left by 708]
    S1_143 --> S1_144[Shift left by 713]
    S1_144 --> S1_145[Shift left by 718]
    S1_145 --> S1_146[Shift left by 723]
    S1_146 --> S1_147[Shift left by 728]
    S1_147 --> S1_148[Shift left by 733]
    S1_148 --> S1_149[Shift left by 738]
    S1_149 --> S1_150[Shift left by 743]
    S1_150 --> S1_151[Shift left by 748]
    S1_151 --> S1_152[Shift left by 753]
    S1_152 --> S1_153[Shift left by 758]
    S1_153 --> S1_154[Shift left by 763]
    S1_154 --> S1_155[Shift left by 768]
    S1_155 --> S1_156[Shift left by 773]
    S1_156 --> S1_157[Shift left by 778]
    S1
```

(57)

1.

가

2.

1 ,

가

3.

1 ,

가

/

4.

3 ,

가

/

/

5.

3 ,

가

/

/

RGB

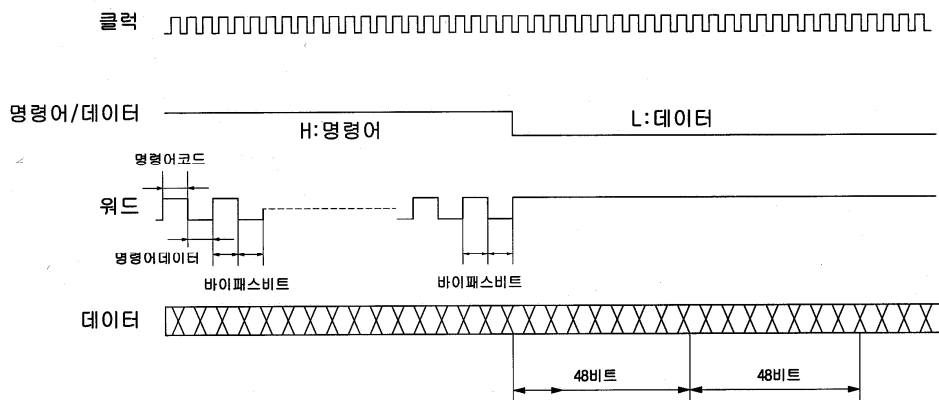
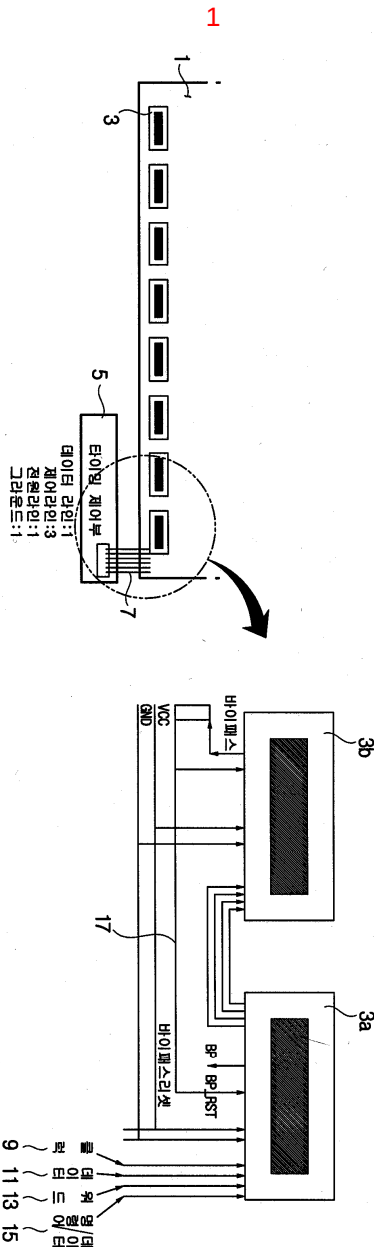
6.

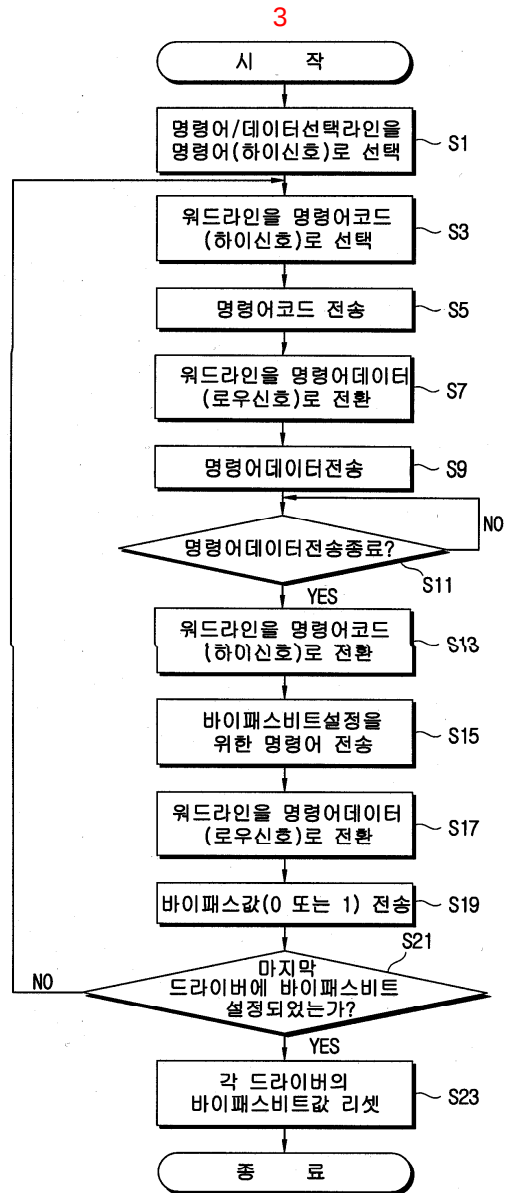
4 5 ,

가

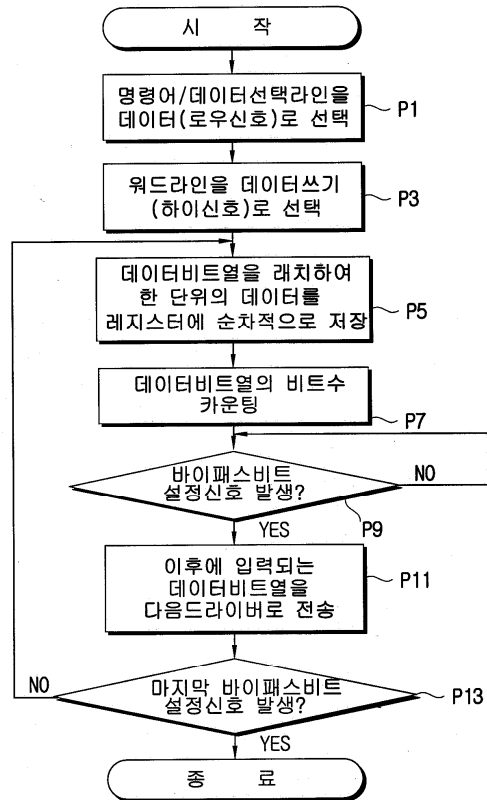
7.

1 6 ,

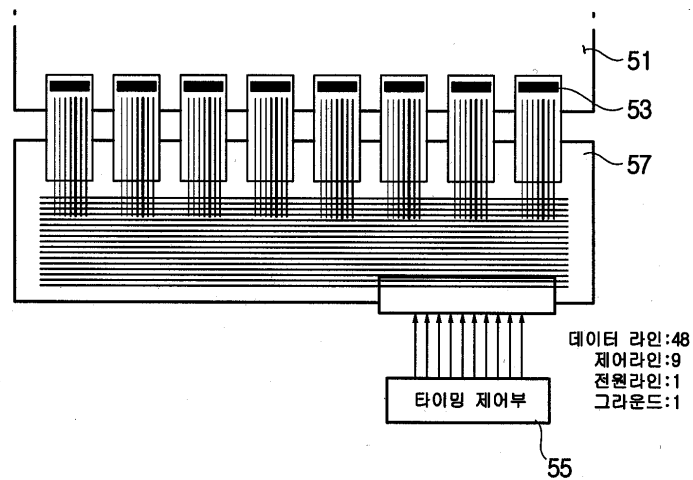




4



5



专利名称(译)	液晶显示装置		
公开(公告)号	KR1020030051054A	公开(公告)日	2003-06-25
申请号	KR1020010081953	申请日	2001-12-20
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	三星电子有限公司		
当前申请(专利权)人(译)	三星电子有限公司		
[标]发明人	JUN SUNGGON 전성곤		
发明人	전성곤		
IPC分类号	G09G3/36 G09G3/20 G09G5/00		
CPC分类号	G09G3/3685 G09G5/006 G09G2310/0275		
代理人(译)	呵呵, SUNG WON		
其他公开文献	KR100435114B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种LCD装置，通过串联连接多个驱动器来减少控制信号线的数量，以便相互控制液晶像素的电压。组成：一个LCD设备包括一个LCD面板（1），具有图像处理部分和多个液晶像素的矩阵阵列，用于将处理后的图像处理部分的视频数据显示到图像。LCD装置还包括一串驱动器（3）和定时控制部分（5）。驱动器串形成有多个液晶像素驱动器，以驱动多个液晶像素。定时控制部分将视频数据转换为分配给每个液晶像素驱动器的串行数据比特流，并执行控制操作以将相应的数据比特流传送到每个液晶像素驱动器。

