深圳力先电子有限公司

液晶显示模块使用手册

型号：LX12864B 系列

版本：1.1

客户确认			
客户确认：		盖章	
客户建议：			

编制		
拟制	确认	批准

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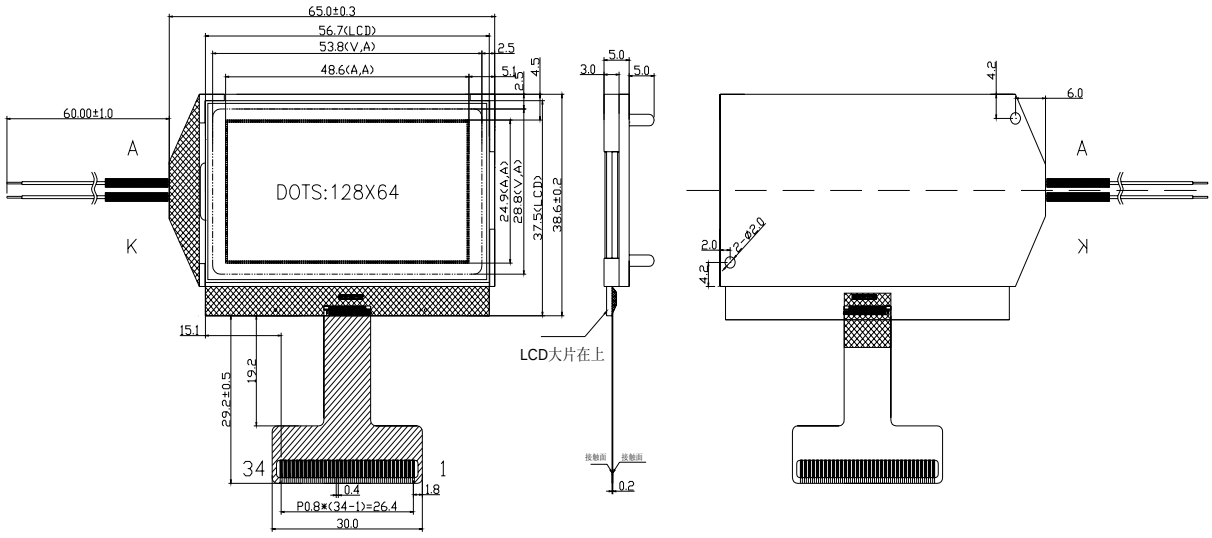
RECORD OF REVISION

Version	Revision Date	Contents	Editor
1.0	2012-11-20	New Release	YOU
1.1	2013-01-30	修改驱动电压和LCD BIAS	YOU

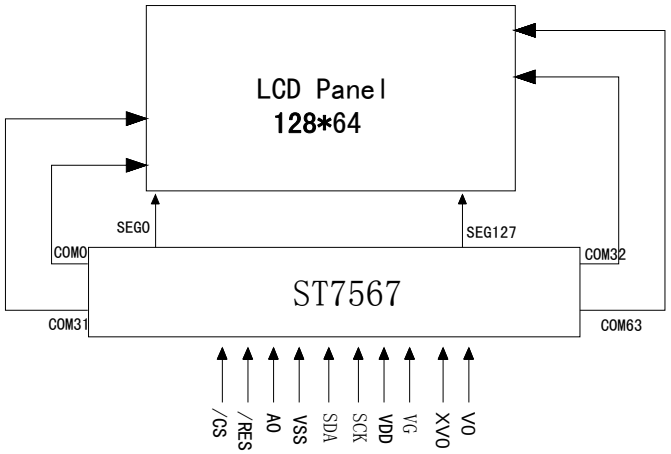
1. PHYSICAL DATA

Item	Contents	Unit
LCD type	STN	---
LCD duty	1/65	---
LCD bias	1/7	---
Viewing direction	6	o'clock
Module size (W×H×T)	65.0×38.6×5.0	mm
Number of dots(W×H)	128 × 64	dots
Dot Size(W×H))	0.35×0.36	mm
Dot Pitch(W×H))	0.38×0.39	mm

2. EXTERNAL DIMENSIONS



3. BLOCK DIAGRAM



PIN NO.	Symbol	Level	Description
1-10	NC	--	Not Used
11	VG	--	LCD driving voltage for segment circuits.
12-15	NC	--	Not Used
16	XV0	H	LCD driving voltage for common circuits at positive frame.
17	V0	H	LCD driving voltage for common circuits at negative frame.
18	NC	--	Not Used
19	VSS		GND
20	VDD		POWEN 3.0V
21	SDA	H/L	serial data input (SI)
22	SCL	H/L	serial clock input (SCL).
23-30	NC	--	D0 to D5 should be connected to VDD or floating.
31	A0	H/L	A0="H": data. A0="L": Instruction command.
32	RST	H/L	Reset pin.
33	CS	H/L	Chip select.
34	NC	--	Not Used

4. ABSOLUTE MAXIMUM RATINGS

(1)Electrical Absolute Ratings

Item	Symbol	Min.	Max.	Unit	Note
Power Supply for Logic	V_{DD}-V_{SS}	0	3.47	Volt	Note 1
Power Supply for LCD	V_{LCD}	0	13.0	Volt	
Input Voltage	V_I	0	V_{DD}	Volt	

Note 1 : Operator should be grounded during handling LCM

（2）Environmental Absolute Maximum Ratings

Item	Normal Temperature				Wide Temperature			
	Operating		Storage		Operating		Storage	
	Min.	Max,	Min.	Max,	Min.	Max,	Min.	Max,
Ambient Temperature	0℃	+50℃	-10℃	+60℃	-20℃	+70℃	-30℃	+80℃
Humidity(without condensation)	Note 2,4		Note 3,5		Note 4,5		Note 4,6	

Note 2 Ta≦50℃: 80% RH max
Ta>50℃: Absolute humidity must be lower than the humidity of 85%RH at 50℃
Note 3 Ta at -20℃ will be<48hrs at 70℃will be <120hrs when humidity is higher than 75%.
Note 4 Background color changes slightly depending on ambient temperature. This phenomenon is reversible.
Note 5 Ta≦70℃: 75RH max
Ta>70℃: absolute humidity must be lower than the humidity of 75%RH at 70℃
Note 6 Ta at -20℃ will be <48hrs, at 80 ℃ will be <120hrs when humidity is higher than 75%.

5. ELECTRICAL CHARACTERISTICS

DC Characteristics (VDD=3.0V;VSS=0V； Ta=-20～70℃)

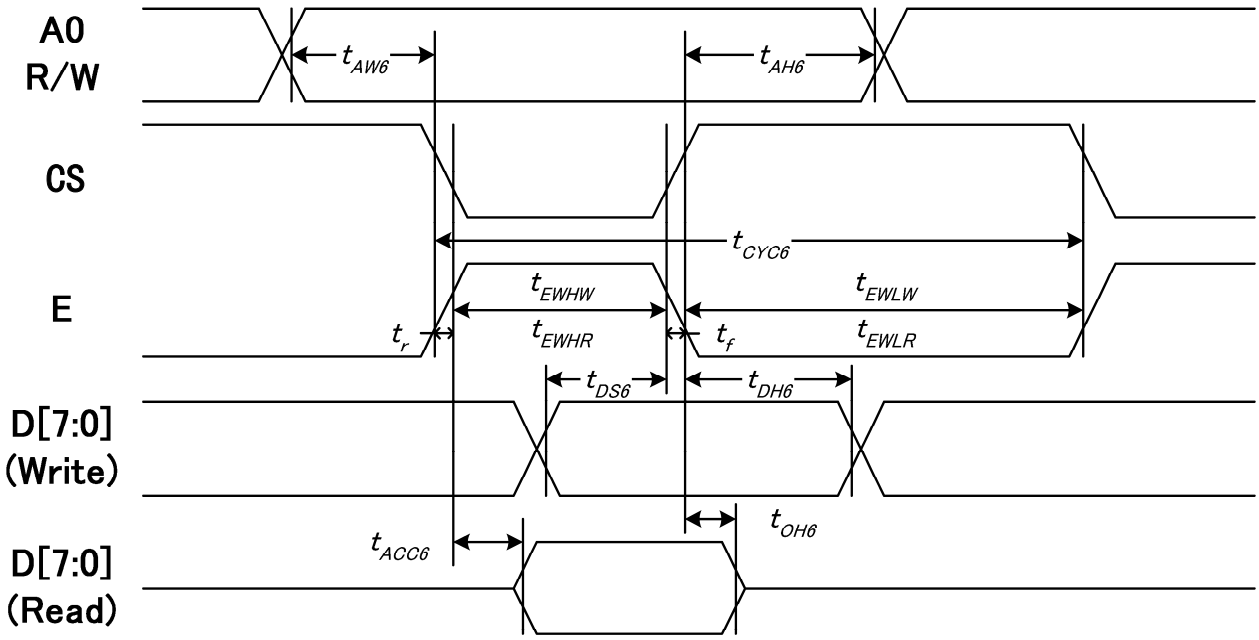
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Power Supply for Logic	V_{DD}-V_{SS}	---	2.8	3.0	3.5	Volt
Input Voltage	V_{IL}	---	VSS	---	0.2V_{DD}	Volt
	V_{IH}	---	0.8V_{DD}	---	V_{DD}	Volt
Output Voltage	V_{OH}	I_{OL} =-0.5mA	0.8V_{DD}	---	V_{DD}	Volt
	V_{OL}	I_{OL} = +0.5mA	VSS	---	0.2V_{DD}	Volt
LCM Recommend LCD Module Driving Voltage	V_{LCD}	T_a＝0℃	---	---	---	Volt
		T_a＝25℃	8.5	8.7	8.9	
		T_a＝50℃	---	---	---	
Power Supply Current for LCM	$I_{DD(B/L\ OFF)}$	---	---	---	TBD	mA

AC Characteristics

System Bus Timing for 6800 Series MPU

(VDD=3.3V, Ta=25℃)

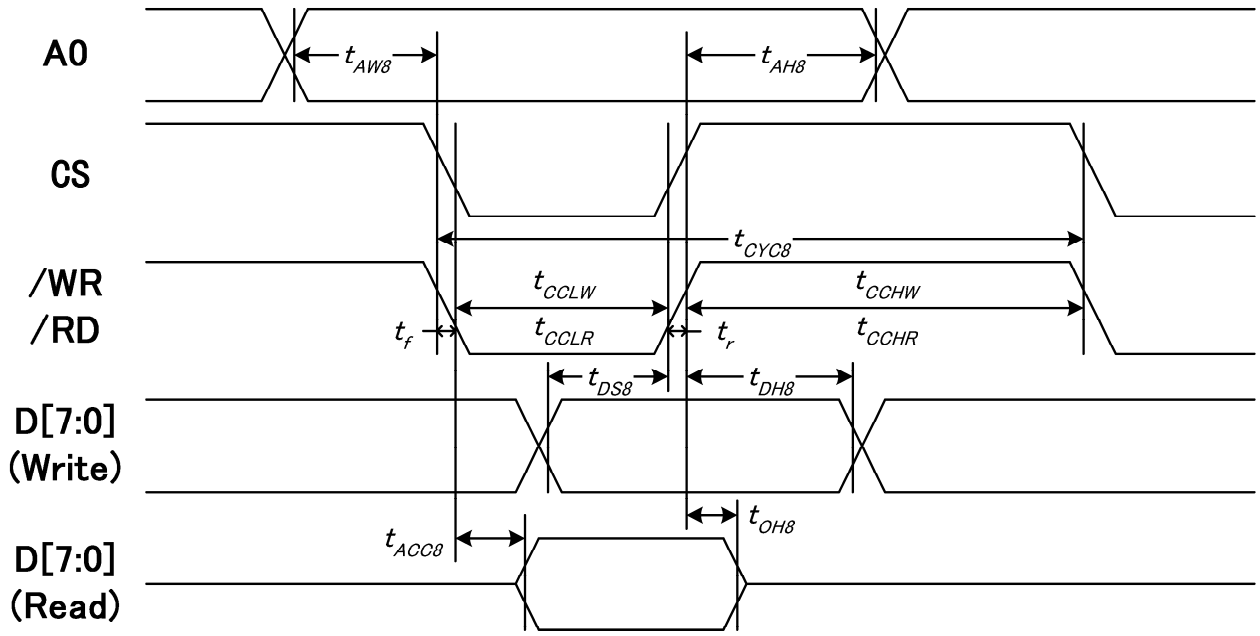
Item	Signal	Symbol	Condition	Min.	Max.	Unit
Address setup time	A0	tAW6		0	—	ns
Address hold time		tAH6		0	—	
System cycle time	E	tCYC6		240	—	
Enable L pulse width (WRITE)		tEWLW		80	—	
Enable H pulse width (WRITE)		tEWHW		80	—	
Enable L pulse width (READ)		tEWLR		80	—	
Enable H pulse width (READ)		tEWHR		80		
Write data setup time	D[7:0]	tDS6		30	—	
Write data hold time		tDH6		10	—	
Read data access time		tACC6	CL = 100 pF	—	70	
Read data output disable time		tOH6	CL = 100 pF	10	50	



System Bus Timing for 8080 Series MPU

(VDD=3.3V, Ta=25℃)

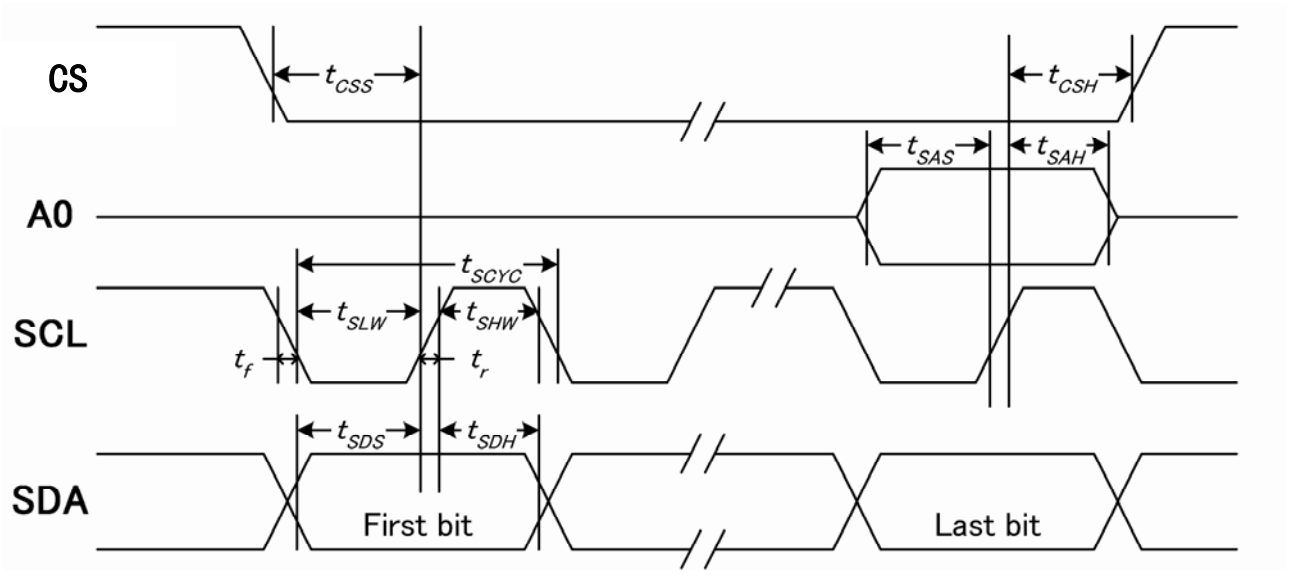
Item	Signal	Symbol	Condition	Min.	Max.	Unit
Address setup time	A0	tAW8		0	—	ns
Address hold time		tAH8		0	—	
System cycle time	/WR	tCYC8		240	—	
/WR L pulse width (WRITE)		tCCLW		80	—	
/WR H pulse width (WRITE)		tCCHW		80	—	
/RD L pulse width (READ)	RD	tCCLR		80	—	
/RD H pulse width (READ)		tCCHR		80		
WRITE Data setup time	D[7:0]	tDS8		30	—	
WRITE Data hold time		tDH8		10	—	
READ access time		tACC8	CL = 100pF	—	70	
READ Output disable time		tOH8	CL = 100pF	5	50	



System Bus Timing for 4-Line Serial Interface

(VDD=3.3V, Ta=25℃)

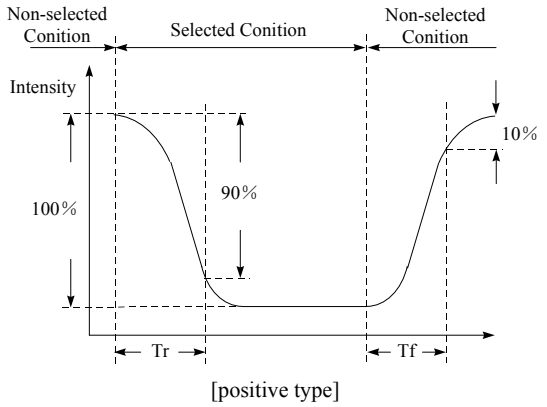
Item	Signal	Symbol	Condition	Min.	Max.	Unit
Serial clock period	SCLK	tSCYC		50	---	ns
SCLK “H” pulse width		tSHW		25	---	
SCLK “L” pulse width		tSLW		25	---	
Address setup time	A0	tSAS		20	---	
Address hold time		tSAH		10	---	
Data setup time	SDA	tSDS		20	---	
Data hold time		tSDH		10	---	
CS-SCLK time	CS	tCSS		20	---	
CS-SCLK time		tCSH		40	---	



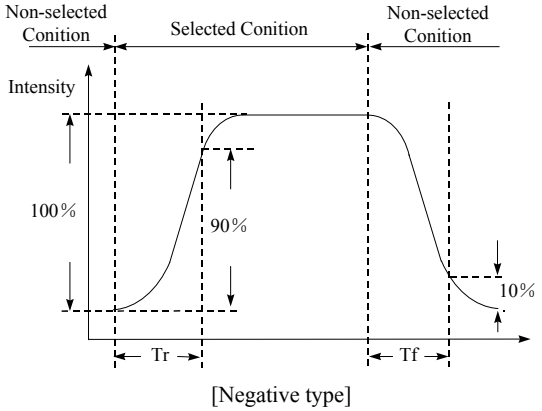
6. ELECTRO-OPTICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	note
Viewing angle range	θ_f (12 o'clock)	When Cr≧2	35	---	---	Degree	Note 2 Note 3 Note 4
	θ_b (6 o'clock)		30	---	---		
	θ_l (9 o'clock)		30	---	---		
	θ_r (3 o'clock)		30	35	---		
Rise Time	T_r	V_{DD}-V_0=8.7V Ta=25℃		112		mS	Note 1
Fall Time	T_f			250			
Contrast	Cr		---	5. 4	---		

[Note 1] Definition of Response Time (Tr, Tf)



[positive type]



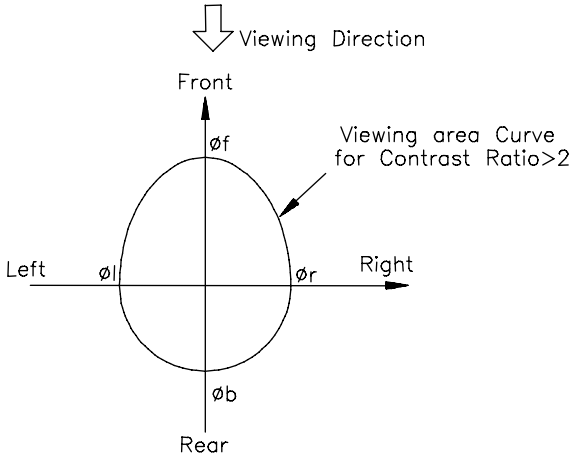
[Negative type]

Conditions:

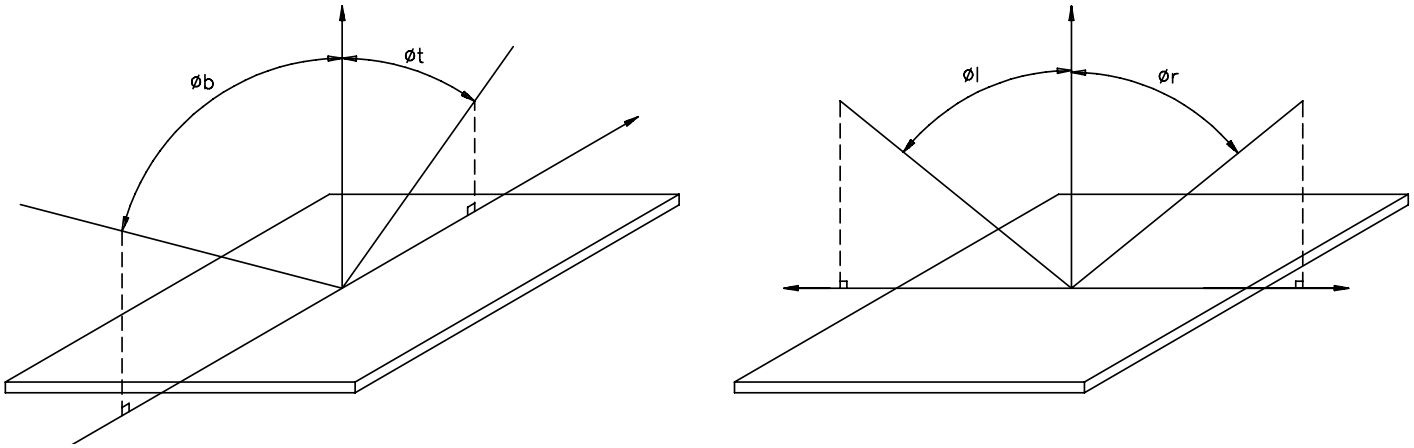
Operating Voltage : Vop — Viewing Angle(θ, φ): 0°, 0°

Frame Frequency : 64 Hz — Driving Wave form : 1/N duty, 1/a bias

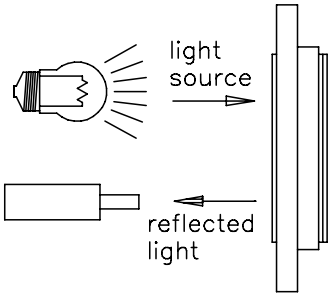
[Note 2] Definition of Viewing Direction



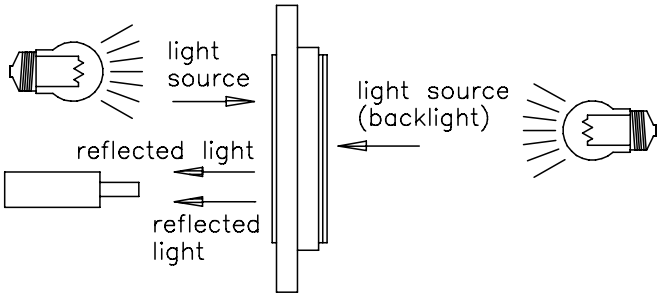
[Note 3] Definition of viewing angle



[Note 4] Description of Measuring Equipment



Reflective type



Transflective type

7. OPERATING PRINCIPLES & METHODS

INSTRUCTION	A0	R/W	COMMAND BYTE								DESCRIPTION
			D7	D6	D5	D4	D3	D2	D1	D0	
(1) Display ON/OFF	0	0	1	0	1	0	1	1	1	D	D=1, display ON D=0, display OFF
(2) Set Start Line	0	0	0	1	S5	S4	S3	S2	S1	S0	Set display start line
(3) Set Page Address	0	0	1	0	1	1	Y3	Y2	Y1	Y0	Set page address
(4) Set Column Address	0	0	0	0	0	1	X7	X6	X5	X4	Set column address (MSB)
	0	0	0	0	0	0	X3	X2	X1	X0	Set column address (LSB)
(5) Read Status	0	1	0	MX	D	RST	0	0	0	0	Read IC Status
(6) Write Data	1	0	D7	D6	D5	D4	D3	D2	D1	D0	Write display data to RAM
(7) Read Data	1	1	D7	D6	D5	D4	D3	D2	D1	D0	Read display data from RAM
(8) SEG Direction	0	0	1	0	1	0	0	0	0	MX	Set scan direction of SEG MX=1, reverse direction MX=0, normal direction
(9) Inverse Display	0	0	1	0	1	0	0	1	1	INV	INV =1, inverse display INV =0, normal display
(10) All Pixel ON	0	0	1	0	1	0	0	1	0	AP	AP=1, set all pixel ON AP=0, normal display
(11) Bias Select	0	0	1	0	1	0	0	0	1	BS	Select bias setting 0=1/9; 1=1/7
(12)Read-modify-Write	0	0	1	1	1	0	0	0	0	0	Column address increment: Read:+0 , Write:+1
(13) END	0	0	1	1	1	0	1	1	1	0	Exit Read-modify-Write mode
(14) RESET	0	0	1	1	1	0	0	0	1	0	Internal reset
(15) COM Direction	0	0	1	1	0	0	MY	-	-	-	Set output direction of COM MY=1, reverse direction MY=0, normal direction
(16) Power Control	0	0	0	0	1	0	1	VB	VR	VF	Control built-in power circuit ON/OFF
(17) Regulation Ratio	0	0	0	0	1	0	0	RR2	RR1	RR0	Select regulation resistor ratio
(18) Electronic volume mode set Electronic volume register set	0	0	1	0	0	0	0	0	0	1	Set the V0 output voltage electronic volume register
	0	0	0	0	EV5	EV4	EV3	EV2	EV1	EV0	
(19) Static indicator ON/OFF	0	0	1	0	1	0	1	1	0	0/1	0: OFF, 1: ON
Static indicator Register set	0	0	0	0	0	0	0	0	0	Mode	Set the flashing mode
(20) Page Blink	0	0	1	1	0	1	0	1	0	1	P7 - 0: 1 - blinking page 0 - no blinking, normal display
Page selection	0	0	P7	P6	P5	P4	P3	P2	P1	P0	
(21). Driving Mode Set Mode selection	0	0	1	1	0	1	0	0	1	0	Set the driving mode register Driving capability (D0): (1)>(0)
	0	0	0	0	0	0	0	0	0	D0	
(22) Power Save	0	0	Compound Command								Display OFF + All Pixel ON
(23) NOP	0	0	1	1	1	0	0	0	1	1	No operation
(24) Test	0	0	1	1	1	1	-	-	-	-	Do NOT use. Reserved for testing.
	0	0	1	1	0	1	0	1	0	0	
(25) Oscillator Frequency selection	0	0	1	1	1	0	0	1	0	0/1	20KHz/33KHz (Default) 16.4KHz/ 27.06KHz

8. RELIABILITY

Environmental Test				
No.	**Test Item**	**Content of Test**	**Test Condition**	**Applicable Standard**
1	High temperature storage	Endurance test applying the high storage temperature for a long time.	80 °C 200 hrs	------
2	Low temperature storage	Endurance test applying the low storage temperature for a long time.	-30 °C 200 hrs	------
3	High temperature operation	Endurance test applying the electric stress (Voltage & Current) and the thermal stress to the element for a long time.	70 °C 200 hrs	------
4	Low temperature operation	Endurance test applying the electric stress under low temperature for a long time.	-20 °C 200 hrs	------
5	High temperature / Humidity storage	Endurance test applying the high temperature and high humidity storage for a long time.	70 °C , 90 %RH 96 hrs	MIL-202E-103B JIS-C5023
6	High temperature / Humidity operation	Endurance test applying the electric stress (Voltage & Current) and temperature / humidity stress to the element for a long time.	50 °C , 90 %RH 96 hrs	MIL-202E-103B JIS-C5023
7	Temperature cycle	Endurance test applying the low and high temperature cycle. -10°C 30min ⇌ 25°C 5min. ⇌ 60°C 30min ⟷ 1 cycle	-10°C / 60°C 10 cycles	------
Mechanical Test				
8	Vibration test	Endurance test applying the vibration during transportation and using.	10~22Hz → 1.5mmp-p 22~500Hz → 1.5G Total 0.5hrs	MIL-202E-201A JIS-C5025 JIS-C7022-A-10
9	Shock test	Constructional and mechanical endurance test applying the shock during transportation.	50G half sign wave 11 msedc 3 times of each direction	MIL-202E-213B
10	Atmospheric pressure test	Endurance test applying the atmospheric pressure during transportation by air.	115 mbar 40 hrs	MIL-202E-105C
Others				
11	Static electricity test	Endurance test applying the electric stress to the terminal.	VS=800V , RS=1.5 kΩ CS=100 pF 10 time	MIL-883B-3015.1

Inspection after test: Inspection after 2～4 hours storage at room temperature ,the sample shall be free from defects:

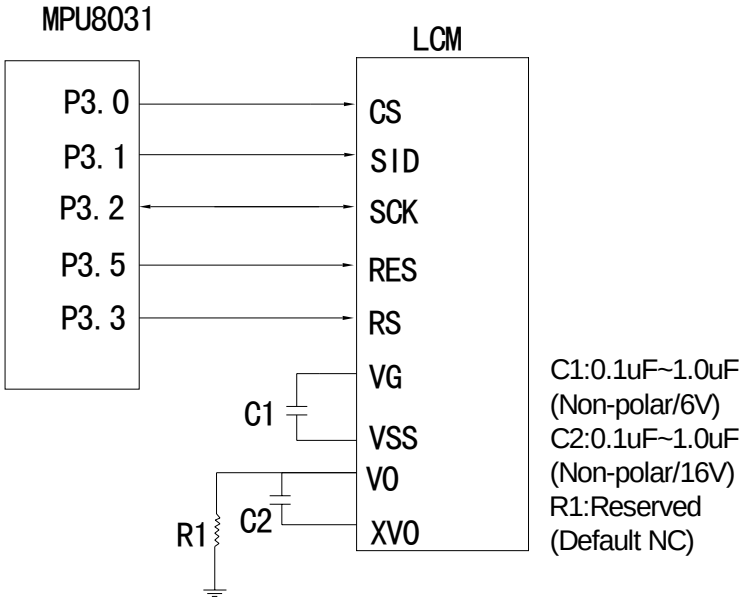
1. Air bubble in the LCD.
2. Sealleak
3. Non-display.
4. Missing segments.
5. Glass crack.
6. Current Idd is twice higher than initial value.

9. QUALITY GUARANTEE

No	Item	Criteria
1	inclusions (black spot, white spot, dust)	(1)round type diameter mm(a*) no of defect* a≦0.20 neglect 0.20＜a≦0.35 5max 0.35＜a none (2)linear type **length mm(l) width mm(W) no. of defect** na W≦0.03 neglect l≦3 0.03＜W≦0.08 6 3＜l 0.08＜W none
2	scratch	1.scratch on protective film is permitted. 2.scratch on polarizer shall be as follow: (1)round type diameter mm(a*) no of defect a≦0.15 neglect 0.15＜a≦0.20 2 max 0.20＜a none (2)linear type be judged bye 1.-(2) linear type
3	dent	diameter ＜ 1.5mm
4	bubble	not exceeding 0.5mm average diameter is acceptable between glass and polarizing film
5	pin hole	(a+b)/2 ≦ 0.15mm maximum number: ignored 0.15＜(a+b)/2≦0.20mm maximum number:10
6	dot width	design width ±15%
7	dot defect	(a+b)/2≦0.20mm maximum number: ignored 0.20＜(a+b)/2≦0.30mm maximum number:5 x=width
8	contrast irregularity(spot)	diameter spec no of defect a≦0.50mm neglect 0.50＜a≦0.75 5 0.75＜a≦1.00 3 1.00＜a none
9	color tone and uniformity	obvious uneven color is not permitted

10. Interface circuit and driving programme on LCM of dots matrix series .

（1）Interface circuit:




```
//*************************************************************************
//连线表:  CPU=W78E54B                                                    *
//CS=P3.0   SID=P3.1   SCK=P3.2   RS=P3.3   Fosc=12Mhz   RST=P3.5         *
//*************************************************************************
#include <reg52.h>
#include <intrins.h>

#define LcmXPixel 128  //横向宽度
#define LcmYPixel 64   //纵向高度
#define MIN(A,B) ((A)<(B)?(A):(B))
#define Uchar unsigned char
#define Uint  unsigned int

sbit CS  = P3^0;       //片选
sbit SID = P3^1;       //数据
sbit SCK = P3^2;       //Clock 信号
sbit RS  = P3^3;       //数据指令选择
sbit Key = P3^4;       //测试架锁定按键(测试架专用)
sbit RES = P3^5;       //测试架复位是板载 RC 复位,可以不需要 IO 口操作

Uchar code ASCIIchardot[];
Uchar code bmp1[];
Uchar code bmp2[];
Uchar code bmp3[];
Uchar code ComTable[]={3,2,1,0,7,6,5,4,};

//串口模式下只能写不能读,也不能查忙,因此用户要控制好速度不要太快
void WriteCommand( Uchar CommandByte )
{
       Uchar i;
       CS=0;
       RS=0;          //Command
       for(i=0;i<8;i++)
       {       SCK=1;
              SID=( (CommandByte>>(7-i)) &0x01);
              SCK=0;
              _nop_();
              SCK=1;
       }
}

void WriteData( Uchar DataByte )
{
       Uchar i;
       CS=0;
       RS=1;          //Data
       for(i=0;i<8;i++)
       {
              SCK=1;
              SID=( (DataByte>>(7-i)) &0x01);
              SCK=0;
              _nop_();
              SCK=1;
       }
}

void DelayMS(unsigned int MS)
{
       unsigned char us,usn;
```

```
        while(MS!=0)
        {
                usn = 2;        //for 12M
                while(usn!=0)
                {
                        us=0xf6;
                        while (us!=0){us--;};
                        usn--;
                }
                MS--;
        }
}

void DelayKey(unsigned int Second , unsigned int MS100)
{
        unsigned int i;
        for(i=0;i<Second*100+MS100*10;i++)
        {
                if(Key==0)
                {
                        DelayMS(20);
                        while(Key==0) {DelayMS(20);}
                        break;
                }
                else DelayMS(10);
        }
}

void LcmClear( Uchar FillData )
{
        Uint i,j;
        for(i=0;i<8;i++)
        {
                WriteCommand(0xB0|ComTable[i]);      //Set Page Address
                WriteCommand(0x10);   //Set Column Address = 0
                WriteCommand(0x01);   //Colum from S1 -> S128 auto add
                for(j=0;j<128;j++)
                {
                        WriteData( FillData );
                }
        }
}

void LcmInit( void )
{
        WriteCommand(0xAE);   //Display OFF
        WriteCommand(0xA2);   //1/64 Duty 1/9 Bias
        WriteCommand(0xA0);   //ADC select S0->S131(玻璃设计用 S1-S128)
        WriteCommand(0xC0);   //com1 --> com64
        WriteCommand(0x24);   //对某些模块没用,用的外部 Rb/Ra
        WriteCommand(0x81);   //Sets V0
        WriteCommand(48);     //内部电位器调节对比度
        WriteCommand(0x2F);   //voltage follower ON  regulator ON  booster ON
        WriteCommand(0xA6);   //Normal Display (not reverse dispplay)
        WriteCommand(0xA4);   //Entire Display Disable
        WriteCommand(0x40);   //Set Display Start Line = com0
        WriteCommand(0xB0);   //Set Page Address = 0
        WriteCommand(0x10);   //Set Column Address 4 higher bits = 0
        WriteCommand(0x01);   //Set Column Address 4 lower bits = 1 , from IC SEG1 -> SEG128
        LcmClear(0);
        WriteCommand(0xAF);   //Display ON
}

//显示 ASICC 字符的函数
void LcmPutChar(Uchar col,Uchar page,Uchar Order)
{
        Uchar i;
        Uint x;
        x = (Order-0x20)*0x10;                //ASICC 字符从 0x20 开始,每个 16 byte
        WriteCommand(ComTable[page&0x07]|0xB0);      //Set Page Address
        WriteCommand( ((col+1)>>4) | 0x10);  //Set Column Address High Byte
        WriteCommand( (col+1)&0x0F );        //Low Byte  Colum from S128 -> S1 auto add


        for(i=0;i<8;i++)
        {
                WriteData( ASCIIchardot[x] );
                x++;
        }
        page++;                               //下半字符 page+1

        WriteCommand(ComTable[page&0x07]|0xB0);      //Set Page Address
        WriteCommand( ((col+1)>>4) | 0x10);          //Set Column Address High Byte
        WriteCommand( (col+1)&0x0F );                //Low Byte  Colum from S128 -> S1 auto add

        for(i=0;i<8;i++)
        {
                WriteData( ASCIIchardot[x] );
                x++;
        }
        page--;                               //写完一个字符 page 还原
}

//显示字符串的函数
void LcmPutStr(Uchar col,Uchar page,Uchar *puts)
{
        while(*puts != '\0')          //判断字符串时候显示完毕
        {

                if(col>(LcmXPixel-8))         //判断行末空间是否足够放一个字符,自动换行
                {
```

```
                        page=page+2;
                        col=0;
                }
                if(page>(LcmYPixel/8-2))        //到了屏幕最下角,自动返回左上角
                {
                        page=0;
                        col=0;
                }
                LcmPutChar(col,page,*puts);
                puts++;
                col=col+8;              //下一个字符 8 列之后
        }
}

//显示 3 位数的数值(0-255)
void LcmPutNum(Uchar col,Uchar page,Uchar Num)
{
        Uchar a,b,c;
        a=Num/100;
        b=(Num%100)/10;
        c=Num%10;
        if(a==0) ;      //也不写空格,直接跳过去//PutChar(col,page,0x20);
          else LcmPutChar(col,page,a+0x30);

        if(a==0 && b==0) ;      //也不写空格,直接跳过去//LcmPutChar(col,page,0x20);
          else LcmPutChar(col+8,page,b+0x30);

        LcmPutChar(col+16,page,c+0x30);
}

void LcmPutBmp( Uchar *puts )
{
        Uchar i,j;
        Uint X=0;
        for(i=0;i<(LcmYPixel/8);i++)
        {
                WriteCommand(0xB0|ComTable[i]);         //Set Page Address
                WriteCommand(0x10);     //Set Column Address = 0
                WriteCommand(0x01);     //Colum from S1 -> S128 auto add
                for(j=0;j<LcmXPixel;j++)
                {
                        WriteData( puts[X] );
                        X++;
                }
        }
}

void main( void )
{
        Uchar i;
        Uchar contrast=48;                      //对比度=48(根据我们常用的外部电阻参数来的)
        DelayMS(10);
        RES = 0;
        DelayMS(200);
        RES = 1;
        DelayMS(50);
        LcmInit();
        while(1)
        {
                LcmPutBmp(bmp1);
                DelayKey(1,0);

                for(i=(contrast-5);i<(contrast+5);i++)
                {
                        WriteCommand(0x81);     //Sets V0
                        WriteCommand(0x3F&i);  //内部电位器调节对比度
                        LcmPutNum(10,2,i);
                        DelayKey(0,1);
                }

                WriteCommand(0x81);             //Sets V0
                WriteCommand(contrast);         //恢复对比度
                LcmPutNum(10,2,contrast);

                LcmClear(0xff);
                DelayKey(1,0);

                LcmClear(0);
                LcmPutStr(0,0,"CA12864I2 Program");
                LcmPutStr(0,2,"SunSon ELEC-TECH");
                LcmPutStr(0,4,"TEL:755-29970110");
                LcmPutStr(0,6,"By LJ 2009.04.08");
                DelayKey(1,0);
        }
}


/* ASICC 字库代码 8x16 点阵 */
unsigned char code ASCIIchardot[16*96] = {
/*--  文字:     --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,

/*--  文字:  !  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x0E,0x1F,0x1F,0x0E,0x00,0x00,0x00,0x00,0x00,0xB0,0xB0,0x00,0x00,0x00,

/*--  文字:  "  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1C,0x1C,0x00,0x00,0x1C,0x1C,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
```

```
/*--  文字:  #  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x04, 0x1F, 0x1F, 0x04, 0x1F, 0x1F, 0x04, 0x00, 0x40, 0xF0, 0xF0, 0x40, 0xF0, 0xF0, 0x40,

/*--  文字:  $  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x0C, 0x1E, 0x73, 0x71, 0x18, 0x08, 0x00, 0x00, 0x20, 0x30, 0x1C, 0x9C, 0xF0, 0x60, 0x00,

/*--  文字:  %  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x18, 0x3C, 0x24, 0x3D, 0x1B, 0x06, 0x0C, 0x00, 0x00, 0x60, 0xC0, 0xB0, 0x78, 0x48, 0x78, 0x30,

/*--  文字:  &  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x0D, 0x1F, 0x12, 0x1E, 0x0C, 0x00, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x90, 0xE0, 0xF0, 0x90,

/*--  文字:  ’  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x00, 0x1C, 0x1C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,

/*--  文字:  (  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x03, 0x0F, 0x1C, 0x10, 0x00, 0x00, 0x00, 0x00, 0xE0, 0xF8, 0x1C, 0x04, 0x00, 0x00,

/*--  文字:  )  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x10, 0x1C, 0x0F, 0x03, 0x00, 0x00, 0x00, 0x00, 0x04, 0x1C, 0xF8, 0xE0, 0x00, 0x00,

/*--  文字:  *  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x01, 0x05, 0x07, 0x03, 0x07, 0x05, 0x01, 0x00, 0x00, 0x40, 0xC0, 0x80, 0xC0, 0x40, 0x00,

/*--  文字:  +  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x01, 0x01, 0x07, 0x07, 0x01, 0x01, 0x00, 0x00, 0x00, 0x00, 0xC0, 0xC0, 0x00, 0x00, 0x00,

/*--  文字:  ,  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x34, 0x3C, 0x38, 0x00, 0x00,

/*--  文字:  -  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x01, 0x01, 0x01, 0x01, 0x01, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,

/*--  文字:  .  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x30, 0x00, 0x00,

/*--  文字:  /  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x00, 0x01, 0x07, 0x1E, 0x18, 0x00, 0x00, 0x18, 0x78, 0xE0, 0x80, 0x00, 0x00, 0x00,

/*--  文字:  0  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x0F, 0x1F, 0x10, 0x16, 0x1F, 0x0F, 0x00, 0x00, 0xE0, 0xF0, 0xD0, 0x10, 0xF0, 0xE0,

/*--  文字:  1  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x04, 0x04, 0x0C, 0x1F, 0x1F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00,

/*--  文字:  2  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x0C, 0x1C, 0x10, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0x30, 0x70, 0xD0, 0x90, 0x10, 0x10, 0x00,

/*--  文字:  3  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x0C, 0x1C, 0x11, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0x60, 0x70, 0x10, 0x10, 0xF0, 0xE0, 0x00,

/*--  文字:  4  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x1F, 0x1F, 0x00, 0x07, 0x07, 0x00, 0x00, 0xC0, 0xC0, 0x40, 0x40, 0xF0, 0xF0, 0x40,

/*--  文字:  5  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x1F, 0x1F, 0x11, 0x11, 0x11, 0x10, 0x00, 0x00, 0x10, 0x10, 0x10, 0x30, 0xE0, 0xC0, 0x00,

/*--  文字:  6  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x03, 0x07, 0x1E, 0x1A, 0x13, 0x01, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0xF0, 0xE0, 0x00,

/*--  文字:  7  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x10, 0x10, 0x11, 0x17, 0x1E, 0x18, 0x00, 0x00, 0x00, 0x70, 0xF0, 0x80, 0x00, 0x00, 0x00,

/*--  文字:  8  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x0E, 0x1F, 0x13, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x90, 0xF0, 0xE0, 0x00,

/*--  文字:  9  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x0F, 0x1F, 0x10, 0x10, 0x1F, 0x0F, 0x00, 0x00, 0x00, 0x90, 0xB0, 0xF0, 0xC0, 0x80, 0x00,

/*--  文字:  :  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x00, 0x06, 0x06, 0x06, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x30, 0x00, 0x00,

/*--  文字:  ;  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x00, 0x00, 0x06, 0x06, 0x06, 0x00, 0x00, 0x00, 0x00, 0x00, 0x34, 0x3C, 0x38, 0x00, 0x00,

/*--  文字:  <  --*/
```

```
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x01,0x03,0x06,0x0C,0x18,0x10,0x00,0x00,0x00,0x80,0xC0,0x60,0x30,0x10,0x00,

/*--  文字:  =  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x02,0x02,0x02,0x02,0x02,0x02,0x00,0x00,0x80,0x80,0x80,0x80,0x80,0x80,0x00,

/*--  文字:  >  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x10,0x18,0x0C,0x06,0x03,0x01,0x00,0x00,0x10,0x30,0x60,0xC0,0x80,0x00,0x00,

/*--  文字:  ?  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x0C,0x1C,0x11,0x13,0x1E,0x0C,0x00,0x00,0x00,0x00,0xB0,0xB0,0x00,0x00,0x00,

/*--  文字:  @  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x0F,0x1F,0x10,0x11,0x13,0x12,0x1F,0x0F,0xE0,0xF0,0x10,0x90,0xD0,0x50,0xD0,0xD0,

/*--  文字:  A  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x0F,0x18,0x18,0x0F,0x07,0x00,0x00,0xF0,0xF0,0x80,0x80,0xF0,0xF0,0x00,

/*--  文字:  B  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x11,0x11,0x1F,0x0E,0x00,0x00,0xF0,0xF0,0x10,0x10,0xF0,0xE0,0x00,

/*--  文字:  C  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x0F,0x1F,0x10,0x10,0x1C,0x0C,0x00,0x00,0xE0,0xF0,0x10,0x10,0x70,0x60,0x00,

/*--  文字:  D  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x10,0x18,0x0F,0x07,0x00,0x00,0xF0,0xF0,0x10,0x30,0xE0,0xC0,0x00,

/*--  文字:  E  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x11,0x11,0x11,0x10,0x00,0x00,0xF0,0xF0,0x10,0x10,0x10,0x10,0x00,

/*--  文字:  F  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x11,0x11,0x11,0x10,0x00,0x00,0xF0,0xF0,0x00,0x00,0x00,0x00,0x00,

/*--  文字:  G  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x0F,0x1F,0x10,0x10,0x1C,0x0C,0x00,0x00,0xE0,0xF0,0x10,0x90,0xF0,0xF0,0x00,

/*--  文字:  H  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x01,0x01,0x1F,0x1F,0x00,0x00,0xF0,0xF0,0x00,0x00,0xF0,0xF0,0x00,

/*--  文字:  I  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x10,0x1F,0x1F,0x10,0x00,0x00,0x00,0x00,0x10,0xF0,0xF0,0x10,0x00,0x00,

/*--  文字:  J  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x00,0x00,0x00,0x1F,0x1F,0x00,0x00,0x60,0x70,0x10,0x10,0xF0,0xE0,0x00,

/*--  文字:  K  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x01,0x07,0x1E,0x18,0x00,0x00,0xF0,0xF0,0x00,0xC0,0xF0,0x30,0x00,

/*--  文字:  L  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x00,0x00,0x00,0x00,0x00,0x00,0xF0,0xF0,0x10,0x10,0x10,0x10,0x00,

/*--  文字:  M  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x04,0x03,0x04,0x1F,0x1F,0x00,0xF0,0xF0,0x00,0x80,0x00,0xF0,0xF0,

/*--  文字:  N  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x06,0x03,0x01,0x1F,0x1F,0x00,0xF0,0xF0,0x00,0x00,0x80,0xF0,0xF0,

/*--  文字:  O  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x0F,0x1F,0x10,0x10,0x1F,0x0F,0x00,0x00,0xE0,0xF0,0x10,0x10,0xF0,0xE0,0x00,

/*--  文字:  P  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x11,0x11,0x1F,0x0E,0x00,0x00,0xF0,0xF0,0x00,0x00,0x00,0x00,0x00,

/*--  文字:  Q  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x0F,0x1F,0x10,0x10,0x1F,0x0F,0x00,0x00,0xE0,0xF0,0x10,0x18,0xFC,0xE4,0x00,

/*--  文字:  R  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x11,0x11,0x1F,0x0E,0x00,0x00,0xF0,0xF0,0x00,0x80,0xF0,0x70,0x00,

/*--  文字:  S  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x0C,0x1E,0x13,0x11,0x18,0x08,0x00,0x00,0x20,0x30,0x10,0x90,0xF0,0x60,0x00,

/*--  文字:  T  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x10,0x10,0x1F,0x1F,0x10,0x10,0x00,0x00,0x00,0x00,0xF0,0xF0,0x00,0x00,0x00,

/*--  文字:  U  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
```

```
0x00,0x1F,0x1F,0x00,0x00,0x1F,0x1F,0x00,0x00,0xE0,0xF0,0x10,0x10,0xF0,0xE0,0x00,

/*--  文字:  V  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x00,0x00,0x1F,0x1F,0x00,0x00,0xC0,0xE0,0x30,0x30,0xE0,0xC0,0x00,

/*--  文字:  W  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x00,0x03,0x00,0x1F,0x1F,0x00,0x80,0xF0,0x70,0x80,0x70,0xF0,0x80,

/*--  文字:  X  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x18,0x1C,0x07,0x03,0x1C,0x18,0x00,0x00,0x70,0xF0,0x00,0x80,0xF0,0x70,0x00,

/*--  文字:  Y  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1E,0x1F,0x01,0x01,0x1F,0x1E,0x00,0x00,0x00,0x00,0xF0,0xF0,0x00,0x00,0x00,

/*--  文字:  Z  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x10,0x10,0x11,0x13,0x1E,0x1C,0x00,0x00,0x70,0xF0,0x90,0x10,0x10,0x10,0x00,

/*--  文字:  [  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x1F,0x1F,0x10,0x10,0x00,0x00,0x00,0x00,0xFE,0xFE,0x02,0x02,0x00,0x00,

/*--  文字:  \  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x18,0x1E,0x07,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0xE0,0x78,0x18,0x00,

/*--  文字:  ]  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x10,0x10,0x1F,0x1F,0x00,0x00,0x00,0x00,0x02,0x02,0xFE,0xFE,0x00,0x00,

/*--  文字:  ^  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x10,0x30,0x60,0x60,0x30,0x10,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,

/*--  文字:  _  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x02,0x02,0x02,0x02,0x02,0x02,0x02,0x02,

/*--  文字:  `  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x40,0x60,0x70,0x10,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,

/*--  文字:  a  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x04,0x04,0x04,0x07,0x03,0x00,0x00,0x60,0xF0,0x90,0x90,0xF0,0xF0,0x00,

/*--  文字:  b  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x04,0x04,0x07,0x03,0x00,0x00,0xF0,0xF0,0x10,0x10,0xF0,0xE0,0x00,

/*--  文字:  c  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x03,0x07,0x04,0x04,0x06,0x02,0x00,0x00,0xE0,0xF0,0x10,0x10,0x30,0x20,0x00,

/*--  文字:  d  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x03,0x07,0x04,0x04,0x1F,0x1F,0x00,0x00,0xE0,0xF0,0x10,0x10,0xF0,0xF0,0x00,

/*--  文字:  e  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x03,0x07,0x04,0x04,0x07,0x03,0x00,0x00,0xE0,0xF0,0x90,0x90,0x90,0x80,0x00,

/*--  文字:  f  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x01,0x0F,0x1F,0x11,0x11,0x11,0x00,0x00,0x00,0xF0,0xF0,0x00,0x00,0x00,0x00,

/*--  文字:  g  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x03,0x07,0x04,0x04,0x07,0x07,0x00,0x00,0xE2,0xF2,0x12,0x12,0xFE,0xFC,0x00,

/*--  文字:  h  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x04,0x04,0x07,0x03,0x00,0x00,0xF0,0xF0,0x00,0x00,0xF0,0xF0,0x00,

/*--  文字:  i  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x04,0x04,0x37,0x37,0x00,0x00,0x00,0x00,0x10,0x10,0xF0,0xF0,0x10,0x10,0x00,

/*--  文字:  j  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x04,0x04,0x37,0x37,0x00,0x00,0x00,0x02,0x02,0x02,0xFE,0xFC,0x00,0x00,

/*--  文字:  k  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x00,0x01,0x07,0x06,0x00,0x00,0xF0,0xF0,0x80,0xC0,0x70,0x30,0x00,

/*--  文字:  l  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x10,0x10,0x1F,0x1F,0x00,0x00,0x00,0x00,0x10,0x10,0xF0,0xF0,0x10,0x10,0x00,

/*--  文字:  m  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x07,0x04,0x07,0x04,0x07,0x03,0x00,0xF0,0xF0,0x00,0xE0,0x00,0xF0,0xF0,

/*--  文字:  n  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x07,0x04,0x04,0x07,0x03,0x00,0x00,0xF0,0xF0,0x00,0x00,0xF0,0xF0,0x00,
```

```
/*--  文字:  o  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x03,0x07,0x04,0x04,0x07,0x03,0x00,0x00,0xE0,0xF0,0x10,0x10,0xF0,0xE0,0x00,

/*--  文字:  p  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x07,0x04,0x04,0x07,0x03,0x00,0x00,0xFE,0xFE,0x10,0x10,0xF0,0xE0,0x00,

/*--  文字:  q  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x03,0x07,0x04,0x04,0x07,0x07,0x00,0x00,0xE0,0xF0,0x10,0x10,0xFE,0xFE,0x00,

/*--  文字:  r  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x07,0x01,0x02,0x06,0x06,0x00,0x00,0xF0,0xF0,0x00,0x00,0x00,0x00,0x00,

/*--  文字:  s  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x03,0x07,0x04,0x04,0x04,0x04,0x00,0x00,0x10,0x90,0x90,0x90,0xF0,0x60,0x00,

/*--  文字:  t  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x04,0x1F,0x1F,0x04,0x04,0x04,0x00,0x00,0x00,0xE0,0xF0,0x10,0x10,0x10,0x00,

/*--  文字:  u  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x07,0x00,0x00,0x07,0x07,0x00,0x00,0xE0,0xF0,0x10,0x10,0xF0,0xF0,0x00,

/*--  文字:  v  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x07,0x00,0x00,0x07,0x07,0x00,0x00,0xC0,0xE0,0x30,0x30,0xE0,0xC0,0x00,

/*--  文字:  w  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x07,0x00,0x03,0x00,0x07,0x07,0x00,0xC0,0xF0,0x30,0xC0,0x30,0xF0,0xC0,

/*--  文字:  x  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x06,0x07,0x01,0x01,0x07,0x06,0x00,0x00,0x30,0x70,0xC0,0xC0,0x70,0x30,0x00,

/*--  文字:  y  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x07,0x07,0x00,0x00,0x07,0x07,0x00,0x02,0xE2,0xF2,0x16,0x1C,0xF8,0xE0,0x00,

/*--  文字:  z  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x04,0x04,0x04,0x05,0x07,0x06,0x00,0x00,0x30,0x70,0xD0,0x90,0x10,0x10,0x00,

/*--  文字:  {  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x01,0x0F,0x1E,0x10,0x00,0x00,0x00,0x80,0xC0,0x78,0x3C,0x04,0x00,0x00,

/*--  文字:  |  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x00,0x1F,0x1F,0x00,0x00,0x00,0x00,0x00,0x00,0xFE,0xFE,0x00,0x00,0x00,

/*--  文字:  }  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x00,0x10,0x1E,0x0F,0x01,0x00,0x00,0x00,0x00,0x04,0x3C,0x78,0xC0,0x80,0x00,

/*--  文字:  ~  --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x0C,0x18,0x10,0x18,0x0C,0x04,0x0C,0x18,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,

/*--  文字:     --*/
/*--  Fixedsys12;  此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00,0x1F,0x1F,0x1F,0x1F,0x1F,0x1F,0x00,0x00,0xF0,0xF0,0xF0,0xF0,0xF0,0xF0,0x00,
};

Uchar code bmp1[]={
/*--  调入了一幅图像：E:\!Program\MobilePhone22.bmp  --*/
/*--  宽度 x 高度=128x64  --*/
0xFF,0x80,0xBF,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,
0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,
0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,
0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,
0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,
0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,
0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,
0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xA0,0xBF,0x80,0xFF,
0xFF,0x00,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x7F,0x40,0x5F,0x4F,
0x5F,0x5F,0x5E,0x5C,0x58,0x58,0x50,0x50,0x50,0x50,0x50,0x50,0x50,0x50,0x58,0x58,
0x5C,0x5E,0x5F,0x5F,0x5F,0x5F,0x4F,0x5F,0x5F,0x57,0x4A,0x55,0x4A,0x55,0x4A,0x55,
0x4A,0x55,0x4A,0x54,0x48,0x53,0x44,0x4B,0x4B,0x4B,0x48,0x47,0x40,0x40,0x40,0x41,
0x42,0x42,0x42,0x45,0x49,0x45,0x45,0x45,0x42,0x40,0x40,0x40,0x40,0x47,0x48,0x47,
0x47,0x48,0x47,0x4B,0x45,0x42,0x40,0x40,0x43,0x45,0x45,0x48,0x4A,0x4A,0x45,0x40,
0x40,0x50,0x4A,0x55,0x4A,0x55,0x4A,0x55,0x4A,0x55,0x4B,0x57,0x4F,0x53,0x40,0x7F,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xFF,
0xFF,0x00,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xFF,0xE0,
0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x80,0xE0,0xFF,0xFF,0xDF,0xFF,0xFF,0xBF,0x55,0xAA,0x55,0xAA,0x55,
0xAA,0x55,0x00,0x02,0x05,0xFA,0x04,0x58,0x52,0xFD,0x00,0xFF,0x00,0x00,0x00,0x38,
0xC5,0xEE,0x9D,0x52,0x56,0x11,0xDE,0x4E,0x58,0x27,0x20,0x50,0xBF,0x00,0xFF,0xA0,
0xA0,0x18,0xA4,0x52,0x4D,0x88,0x07,0x25,0xDA,0x57,0x40,0x3D,0xAA,0xB4,0xAA,0x55,
0x25,0x05,0xA2,0x50,0xB8,0x7C,0x9E,0x7D,0xBA,0x55,0xAA,0xD5,0xEA,0xF5,0x00,0xFF,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xFF,
0xFF,0x00,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xFF,0x1F,
0x07,0x03,0x01,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x01,0x03,0x07,0x1F,0xFF,0xFF,0xFF,0xFF,0xF7,0xFF,0x7F,0xBF,0x5F,0xAF,0x57,
0xAB,0x55,0xAA,0x55,0x2A,0x15,0x2A,0x15,0x2A,0x15,0xAA,0x14,0x08,0x00,0x00,0x02,
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0x05,0x85,0x0A,0x1E,0x20,0x1D,0x95,0x8B,0x84,0x00,0x00,0x00,0x01,0x82,0x0C,0x12,
0x0E,0x02,0x1D,0x21,0x1D,0x84,0x03,0x00,0x00,0x00,0x81,0x00,0x05,0x0A,0x05,0x02,
0x01,0x04,0x0A,0x04,0x00,0x00,0x00,0x55,0xAA,0x55,0xAA,0x55,0xAA,0x55,0x00,0xFF,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xFF,
0xFF,0x00,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xEF,0xFF,
0xFF,0xFF,0xDF,0xFE,0x7E,0x7F,0x3E,0x3E,0x3F,0x3F,0x3B,0x3F,0x3F,0x3F,0x7F,0x7F,
0xF7,0xFF,0xFF,0xFE,0xFD,0xFD,0x7E,0xFD,0xFD,0xFE,0xFF,0xFF,0xFF,0xCF,0xC7,0xE3,
0xC7,0xCF,0xFF,0x7F,0xB7,0x5F,0xAB,0x55,0xAA,0x55,0x8A,0x01,0x00,0x01,0x10,0xA9,
0x68,0x55,0x04,0xB9,0xE8,0x19,0xC8,0x35,0xCA,0x13,0x0C,0x01,0xF0,0x09,0xA8,0xE9,
0x08,0xF1,0xB8,0xD5,0xFA,0x05,0xF8,0x01,0x40,0xA1,0x40,0xC1,0x20,0xD1,0xE8,0xE9,
0xE8,0xA9,0x50,0x21,0x00,0x01,0x02,0x55,0xAA,0x55,0xAA,0x55,0xAB,0x57,0x00,0xFF,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xFF,
0xFF,0x00,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xF9,0xF6,
0xFB,0xF6,0xF9,0x7F,0x3D,0x1F,0x3F,0x7F,0xFF,0xFF,0xFF,0xFF,0xDF,0xFF,0xFF,0xFF,
0xFD,0xFF,0xFF,0x7F,0xBF,0xDF,0xEF,0xDF,0xBF,0x7F,0xFF,0xFF,0xEF,0xFF,0xFF,0xFF,
0xFF,0xFF,0xE7,0xDB,0xDD,0xEE,0xDD,0xDB,0xE7,0x7F,0xFF,0x7F,0xFF,0x77,0xFF,0x7F,
0xFF,0x7F,0xFE,0x7F,0xFF,0x6F,0xFF,0x7F,0xFC,0x78,0xFC,0x78,0xFC,0x7F,0xFF,0x5F,
0xFF,0x7F,0xFF,0x73,0xE1,0x70,0xE1,0x73,0xFF,0x7F,0xFF,0x7F,0xFF,0x7F,0xFE,0x6D,
0xFD,0x7E,0xED,0x7D,0xFE,0x7F,0xFF,0x7F,0xFF,0x7F,0xFF,0xFD,0xF8,0xFC,0x00,0xFF,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xFF,
0xFF,0x00,0xFF,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFC,0x04,0xF4,0xF4,
0x74,0xD4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xB4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,
0xF4,0xF4,0xF4,0xC4,0xB4,0xD4,0xB4,0xC4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xD4,0xF4,
0xF4,0xF4,0xF4,0xF4,0xE4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,
0xF4,0xE4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0x74,0x34,0x74,0xF4,0xF4,0xF4,0xF4,
0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xF4,0xB4,0xF4,0xF4,0xF4,0xF4,0x74,0xB4,
0xD4,0xE4,0xD4,0xB4,0x74,0xF4,0xF4,0xF4,0xF4,0xB4,0xF4,0xF4,0xF4,0x74,0x04,0xFC,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xFF,0x00,0xFF,
0xFF,0x01,0xFD,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,
0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,
0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,
0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,
0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,
0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,
0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,
0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0x05,0xFD,0x01,0xFF,
};

Uchar code bmp3[]={
/*--  调入了一幅图像：E:\!Program\MobilePhone3.bmp  --*/
/*--  宽度 x 高度=128x64  --*/
0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,
0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xDF,
0xE7,0xC7,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xE0,0x80,0x00,0x04,0xFE,
0x07,0x3F,0xFC,0xE0,0xC0,0x00,0x40,0xE0,0xF0,0xFC,0x3E,0x0F,0x01,0x01,0x03,0x07,
0x07,0x0F,0x0F,0x0F,0x0E,0x1E,0x1E,0x9C,0x9E,0x9C,0xDC,0xD8,0xD8,0xCC,0xC0,0x80,
0x80,0xC0,0xF0,0xFF,0xFF,0xFF,0xFF,0xFF,0xF8,0xC0,0x9C,0x24,0x43,0x40,0x20,0x1C,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x28,0x24,0x22,0x21,
0x26,0x38,0x04,0x18,0xF0,0x17,0x10,0x10,0x14,0x18,0x10,0x00,0x00,0x00,0x00,0x00,
0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,
0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFE,0xFE,0xFE,0xFE,0xFB,0xF3,0xD1,0xFB,0x79,0x7B,
0x7F,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0x7F,0x7F,0x3F,0x3F,0x3F,
0x9F,0xCF,0x67,0x13,0x13,0x00,0x00,0x00,0x00,0x00,0x00,0x60,0xE0,0xE0,0xE0,0xC1,
0x81,0x83,0x03,0x03,0x03,0x03,0x07,0x06,0x07,0x07,0x0E,0x0C,0x08,0x10,0x00,0x00,
0x00,0x00,0x00,0x00,0xF0,0xF0,0xE0,0x00,0x00,0x0B,0x80,0x70,0x8C,0x08,0x10,0xE0,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x04,0x08,0x32,0xC2,
0xC2,0x34,0x04,0x08,0x30,0xC0,0x60,0x18,0x0C,0x06,0x04,0x00,0x00,0x00,0x00,0x00,
0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFE,0xFE,0xFF,0xFD,0xFD,
0xFF,0xFF,0xEB,0xCF,0xEC,0xCC,0xCC,0xFE,0xFE,0x7E,0x7F,0xFF,0xF7,0xFB,0xFD,0xFE,
0xFF,0xFF,0xF7,0xF9,0xF0,0xF8,0xF8,0xFC,0xFF,0xFF,0xF7,0xF2,0xF8,0xFC,0xFE,0xFF,
0xFF,0xFF,0xFF,0xFF,0xFF,0x7C,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x40,0x80,0x80,0xC0,0x40,0x40,0xC0,0x80,0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x80,0x40,0x40,0x40,0x40,0x81,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x02,0x82,0x73,0x20,
0x00,0x3F,0x20,0x40,0x40,0x3F,0x20,0x20,0x20,0x3F,0x00,0x00,0x00,0x00,0x00,0x00,
0x03,0x7F,0xFF,0xBF,0x1F,0xFF,0xFC,0x9E,0x9F,0xFF,0xDF,0xEF,0x73,0xF1,0xF8,0xF8,
0xFC,0xFC,0xFC,0xFE,0xFE,0x7E,0x3E,0x1E,0x0E,0x0E,0x0C,0x0C,0x8C,0x8C,0x84,0xE0,
0x20,0x91,0xC7,0xE8,0x30,0x20,0x20,0x60,0x41,0xC2,0xC4,0x85,0x89,0x9B,0x8B,0x8B,
0xE3,0xD7,0x99,0xE1,0x81,0x01,0x01,0x01,0x01,0x01,0x00,0x01,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x03,0x1C,0x08,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x02,0x04,0xF8,0x04,
0x02,0xE2,0x42,0x82,0x02,0xFA,0x02,0x42,0x22,0xC2,0x02,0x00,0x00,0x00,0x00,0x00,
0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0x0F,0x01,0x00,0x00,0x80,0xC0,0xC0,0xE0,0xF1,0xF2,
0x72,0x74,0x74,0x78,0x78,0x30,0x30,0x20,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0xC0,0x1C,0x00,0x00,0x40,0x64,0x9E,0x3C,0xF8,0xD0,0xE0,0xE0,0x40,0xC0,0xC0,
0x80,0xC0,0xC0,0x00,0xE0,0x30,0x1E,0xFF,0xF7,0xFF,0x9F,0xDF,0x5F,0x1F,0x1F,0x1E,
0x7E,0x3C,0x3C,0x3B,0x30,0x70,0x60,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x03,0x02,0x04,0x08,0x10,0x20,0x7F,0x80,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x02,0x42,0x22,
0x3A,0x13,0x02,0xFE,0x02,0x03,0x0A,0x72,0x22,0x06,0x02,0x00,0x00,0x00,0x00,0x00,
0xFF,0xFF,0xFF,0xFF,0xFF,0xFC,0xFD,0xFD,0x7F,0x1F,0x0F,0x37,0x43,0x81,0x80,0x04,
0x19,0x13,0x27,0x4D,0xDE,0x9C,0xB4,0xB8,0xB8,0x78,0x30,0x10,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x03,0x07,0x02,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0xC0,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xCF,0xC3,
0xC1,0x81,0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x03,0x03,0x06,0x09,0x10,0x30,
0x68,0x86,0x01,0x00,0x00,0x00,0x01,0x3E,0xC0,0x41,0x02,0x04,0x0C,0x10,0x20,0x21,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x01,0x02,0x04,
0x18,0xE0,0x00,0x00,0x00,0xFC,0x02,0x02,0x02,0x02,0x1E,0x00,0x00,0x00,0x00,0x00,
0xFF,0xFF,0xFF,0xFF,0xFF,0x3F,0x9F,0x8F,0xA7,0xC3,0xE1,0xE9,0xF0,0xC8,0xE5,0x72,
0xE1,0xC0,0x80,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
0x00,0x00,0x00,0x20,0x61,0x61,0xE1,0xE3,0xC6,0x8C,0x0C,0x18,0x19,0x33,0x7F,0x00,
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x07,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF,
```

```
0xFF, 0xFF, 0xFF, 0xFF, 0x87, 0x80, 0x80, 0x80, 0x00, 0x7F, 0xE0, 0x00, 0x80, 0xC0, 0x30,
0x08, 0x03, 0x82, 0x66, 0x08, 0x51, 0xA2, 0x54, 0x88, 0x10, 0x20, 0x00, 0x01, 0x06, 0x08, 0x80,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0x00, 0x00,
0x7F, 0x02, 0x0C, 0xF1, 0x50, 0x10, 0x18, 0x16, 0x10, 0x11, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0x7F, 0x3F, 0x1F, 0x0F, 0x07, 0x03, 0x03, 0x01, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x60, 0xE0, 0xE0, 0xA0, 0x30, 0x20, 0x68, 0x78, 0x68, 0xF8, 0xF0, 0xE0, 0xC0, 0x00,
0x00, 0x00, 0x00, 0x01, 0x06, 0x18, 0xE0, 0x80, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x3F, 0x0F, 0x07, 0x01, 0xC0, 0x38, 0x08, 0x06, 0x03,
0x3C, 0xC0, 0x23, 0x10, 0x70, 0x00, 0x00, 0x00, 0x0C, 0x10, 0x20, 0xFF, 0x80, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xF8, 0x00, 0x00,
0xFE, 0x00, 0x00, 0xFE, 0x84, 0x84, 0xFC, 0x84, 0x84, 0xFE, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00,

};
```