

Application Notes

Version: Preliminary V0.2

Date: Aug 7th. 2008

ILI TECHNOLOGY CORP.

8F, No.38, Taiyuan St., Jhubei City, Hsinchu County, Taiwan 302, R.O.C.
Tel.886-3-5600099; Fax.886-3-56--585
http://www.ilitek.com



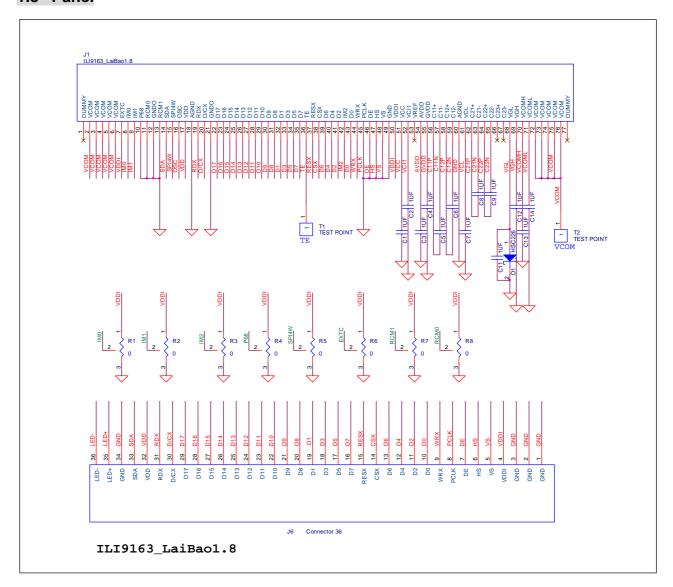
1. LAIBO PANEL	3
1.1 LAIBO1.8" LNITIAL CODE	4
2. CMO PANEL	
2. 1. CMO1.8" INITIAL CODE	
DEVICION HIGTORY	10





1. LAIBO Panel

1.8" Panel









1.1 Laibo1.8" Initial Code

```
void ILI9163_Initial(void)
{
// VCI=2.8V
//******* Reset LCD Driver *********//
LCD_nRESET = 1;
delayms(1); // Delay 1ms
LCD_nRESET = 0;
delayms(10); // Delay 10ms // This delay time is necessary
LCD_nRESET = 1;
delayms(50); // Delay 50 ms
//********** Start Initial Sequence ********//
LCD_ILI9163_CMD(0x11); //Exit Sleep
Delayms(20);
LCD_ILI9163_CMD(0x26); //Set Default Gamma
LCD_ILI9163_INDEX(0x04);
LCD_ILI9163_CMD(0xF2); //E0h & E1h Enable/Disable
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_CMD(0xB1);
LCD_ILI9163_INDEX(0x0C);
LCD_ILI9163_INDEX(0x14);
LCD_ILI9163_CMD(0xC0); //Set VRH1[4:0] & VC[2:0] for VCI1 & GVDD
LCD_ILI9163_INDEX(0x0C);
LCD_ILI9163_INDEX(0x05);
LCD_ILI9163_CMD(0xC1); //Set BT[2:0] for AVDD & VCL & VGH & VGL
LCD ILI9163 INDEX(0x02);
LCD_ILI9163_CMD(0xC5); //Set VMH[6:0] & VML[6:0] for VOMH & VCOML
LCD_ILI9163_INDEX(0x32);
LCD_ILI9163_INDEX(0x3B);
LCD_ILI9163_CMD(0xC7);
LCD_ILI9163_INDEX(0x40);
LCD_ILI9163_CMD(0x3a); //Set Color Format
LCD_ILI9163_INDEX(0x05);
LCD_ILI9163_CMD(0x2A); //Set Column Address
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x00);
```





```
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x7F);
LCD_ILI9163_CMD(0x2B); //Set Page Address
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x9F);
LCD_ILI9163_CMD(0x36); //Set Scanning Direction
LCD_ILI9163_INDEX(0xC0);
LCD_ILI9163_CMD(0x29); // Display On
LCD_ILI9163_CMD(0x2C);
}
```

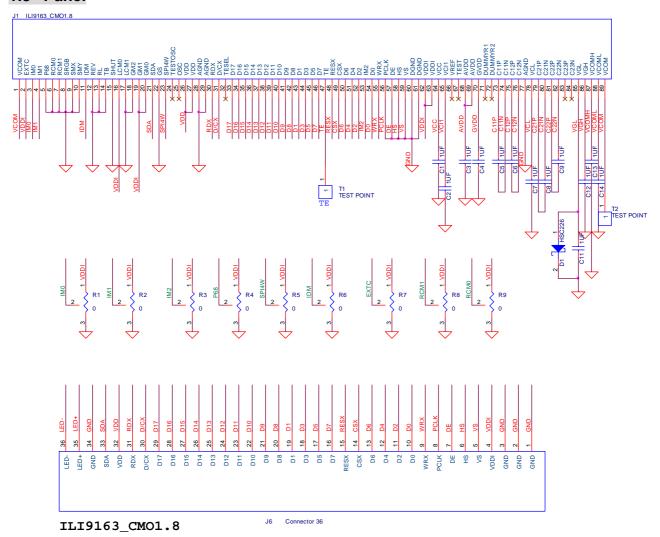
V0.22





2. CMO Panel

1.8" Panel









2. 1. CMO1.8" Initial Code

```
void ILI9163_Initial_CMO177(void)
{
// VCI=2.8V
//*********** Reset LCD Driver **********//
LCD_nRESET = 1;
delayms(1); // Delay 1ms
LCD_nRESET = 0;
delayms(10); // Delay 10ms // This delay time is necessary
LCD nRESET = 1;
delayms(50); // Delay 50 ms
//******** Start Initial Sequence *******//
LCD_ILI9163_CMD(0x11); //Exit Sleep
Delayms(20);
LCD_ILI9163_CMD(0x26); //Set Default Gamma
LCD_ILI9163_INDEX(0x04);
//LCD_ILI9163_CMD(0xF2); //E0h & E1h Enable/Disable
//LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_CMD(0xB1);
LCD_ILI9163_INDEX(0x0C);
LCD_ILI9163_INDEX(0x14);
LCD_ILI9163_CMD(0xC0); //Set VRH1[4:0] & VC[2:0] for VCI1 & GVDD
LCD_ILI9163_INDEX(0x0C);
LCD ILI9163 INDEX(0x05);
LCD_ILI9163_CMD(0xC1); //Set BT[2:0] for AVDD & VCL & VGH & VGL
LCD_ILI9163_INDEX(0x02);
LCD ILI9163 CMD(0xC5); //Set VMH[6:0] & VML[6:0] for VOMH & VCOML
LCD_ILI9163_INDEX(0x29);
LCD_ILI9163_INDEX(0x43);
LCD_ILI9163_CMD(0xC7);
LCD_ILI9163_INDEX(0x40);
LCD_ILI9163_CMD(0x3a); //Set Color Format
LCD_ILI9163_INDEX(0x05);
LCD_ILI9163_CMD(0x2A); //Set Column Address
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x7F);
```





```
LCD_ILI9163_CMD(0x2B); //Set Page Address
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_INDEX(0x9F);
LCD_ILI9163_CMD(0x36); //Set Scanning Direction
LCD_ILI9163_INDEX(0xC0);
LCD_ILI9163_CMD(0xB7); //Set Source Output Direction
LCD_ILI9163_INDEX(0x00);
LCD_ILI9163_CMD(0xf2); //Enable Gamma bit
LCD_ILI9163_INDEX(0x01);
LCD_ILI9163_CMD(0xE0);
LCD_ILI9163_INDEX(0x36);//p1
LCD_ILI9163_INDEX(0x29);//p2
LCD_ILI9163_INDEX(0x12);//p3
LCD_ILI9163_INDEX(0x22);//p4
LCD_ILI9163_INDEX(0x1C);//p5
LCD_ILI9163_INDEX(0x15);//p6
LCD_ILI9163_INDEX(0x42);//p7
LCD_ILI9163_INDEX(0xB7);//p8
LCD_ILI9163_INDEX(0x2F);//p9
LCD_ILI9163_INDEX(0x13);//p10
LCD_ILI9163_INDEX(0x12);//p11
LCD_ILI9163_INDEX(0x0A);//p12
LCD_ILI9163_INDEX(0x11);//p13
LCD_ILI9163_INDEX(0x0B);//p14
LCD_ILI9163_INDEX(0x06);//p15
LCD_ILI9163_CMD(0xE1);
LCD_ILI9163_INDEX(0x09);//p1
LCD_ILI9163_INDEX(0x16);//p2
LCD_ILI9163_INDEX(0x2D);//p3
LCD_ILI9163_INDEX(0x0D);//p4
LCD_ILI9163_INDEX(0x13);//p5
LCD_ILI9163_INDEX(0x15);//p6
LCD_ILI9163_INDEX(0x40);//p7
LCD_ILI9163_INDEX(0x48);//p8
LCD_ILI9163_INDEX(0x53);//p9
```

LCD_ILI9163_INDEX(0x0C);//p10





```
LCD_ILI9163_INDEX(0x1D);//p11
LCD_ILI9163_INDEX(0x25);//p12
LCD_ILI9163_INDEX(0x2E);//p13
LCD_ILI9163_INDEX(0x34);//p14
LCD_ILI9163_INDEX(0x39);//p15

LCD_ILI9163_CMD(0x29); // Display On
LCD_ILI9163_CMD(0x2C);
}
```





Revision History

Version No.	Date	Page	Description
V0.1	20080617		New
V0.2	20080807		Add CMO1.8" Panel an Initial Code