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**Sarah Horner** · Community Moderator

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Ilitek ILI9341 Initialization Code

Note that you'll need to configure the IM pins for 8-bit interface:

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```
LCD_nRESET = 0;
delays(10); // Delay 10ms // This delay time is necessary
LCD_nRESET = 1;
delays(120); // Delay 120 ms

//Start initial Sequence
write_cmd(0x01); //software reset
delay(5);
write_cmd(0x28); // display off
//-----power control-----
write_cmd(0xc0); //power control
write_data16(0x00,0x26);
write_cmd(0xc1); //power control
write_data16(0x00,0x11);
write_cmd(0xc5); //vcom control
write_data16(0x00,0x5c); //35
write_data16(0x00,0x4c); //3E
write_cmd(0xc7); //vcom control
write_data16(0x00,0x94);
//-----memory access control-----
write_cmd(0x36); // memory access control
write_data16(0x00,0x48); //0048 my,mx,mv,ml,BGR,mh,0.0
write_cmd(0x3a); // pixel format set
write_data16(0x00,0x55); //16bit /pixel
//----- frame rate-----
write_cmd(0xb1); // frame rate
write_data16(0x00,0x00);
write_data16(0x00,0x1B); //70
//-----Gamma-----
write_cmd(0xf2); // 3Gamma Function Disable
write_data16(0x00,0x08);
write_cmd(0x26);
write_data16(0x00,0x01); // gamma set 4 gamma curve 01/02/04/08
write_cmd(0xE0); //positive gamma correction
write_data16(0x00,0x1f);
write_data16(0x00,0x1a);
write_data16(0x00,0x18);
write_data16(0x00,0x0a);
write_data16(0x00,0x0f);
write_data16(0x00,0x06);
write_data16(0x00,0x45);
write_data16(0x00,0x87);
write_data16(0x00,0x32);
write_data16(0x00,0x0a);
write_data16(0x00,0x07);
write_data16(0x00,0x02);
write_data16(0x00,0x07);
write_data16(0x00,0x05);
write_data16(0x00,0x00);
write_cmd(0xE1); //negamma correction
write_data16(0x00,0x00);
write_data16(0x00,0x25);
write_data16(0x00,0x27);
```

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write_data16(0x00,0x09);

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```
write_data16(0x00,0x11);
//-----ddram -----
write_cmd(0x2a); // column set
write_data16(0x00,0x00);
write_data16(0x00,0x00);
write_data16(0x00,0x00);
```

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```
//write_cmd(0x35); // tearing effect on
//write_cmd(0xb4); // display inversion
//write_data16(0x00,0x00);
write_cmd(0xb7); //entry mode set
write_data16(0x00,0x07);

//-----display-----
write_cmd(0xb6); // display function control
write_data16(0x00,0x0a);
write_data16(0x00,0x82);
write_data16(0x00,0x27);
write_data16(0x00,0x00);
write_cmd(0x11); //sleep out
delay(100);
write_cmd(0x29); // display on
delay(100);
write_cmd(0x2c); //memory write
delay(200);

//Please add code °•write_cmd(0x2C);°•to access the GRAM before to display
picture.

void EnterSleep()
{
    write_cmd(0x28); //display off
    write_cmd(0x10); //enter standby mode
}
void Exitsleep()
{
    write_cmd(0x11); //standby out
    delay(60);
    write_cmd(0x29); //display on
}
```