

Dalian Good Display Co., Ltd.

Difference between the applied waveform program of
1675A and 1675B

--GDEM0154E97LT

1. Waveform output form is different

1675A

```
const unsigned char LUT[]=
{
0x2,    0x48,  0x48,  0x10,  0x10,  0x10,  0x4,
0x4,    0x48,  0x48,  0x80,  0x0,   0x0,   0x20,
0xA2,   0x48,  0x48,  0x9,   0x2B,  0x2B,  0xC3,
0xA2,   0x48,  0x48,  0x9,   0x2B,  0x2B,  0xC3,
0x0,    0x0,   0x84,  0x0,   0x0,   0x0,   0x0,
0x2A,   0x27,  0x38,  0x71,  0x0,
0x2,    0x0,   0x2,   0x0,   0xA,
0x12,   0x1,   0x12,  0x1,   0x3,
0x5,    0x10,  0x0,   0x3,   0x3,
0x5,    0x3,   0x0,   0x2A,  0x6,
0x3,    0x2,   0x1,   0x28,  0x5,
0xA,    0x9,   0x4,   0xA,   0x3,
0x17,   0x41,  0xAC,  0x32,
0x1B,   0x7};
```

1675B

```
const unsigned char LUT[]=
{0xA9,  0x90,  0x10,  0x0,   0x0,   0x0,   0x10, 0x0,   0x0,   0x0,
0x19,  0x90,  0x80,  0x0,   0x0,   0x0,   0x80, 0x0,   0x0,   0x0,
0xA9,  0x90,  0x4,   0x8C,  0x8C,  0x8C,  0xC, 0x0,   0x0,   0x0,
0xA9,  0x90,  0x4,   0x8C,  0x8C,  0x8C,  0xC, 0x0,   0x0,   0x0,
0x0,   0x0,   0x0,   0x0,   0x0,   0x0,   0x0, 0x0,   0x0,   0x0,
0x21,  0x15,  0x23,  0x23,  0x1,
0x2,   0x2,   0x0,   0x0,   0x63,
0x6,   0x12,  0xC,   0x0,   0x5,
0x6,   0x1,   0x5,   0x1,   0x4,
0x1,   0x1,   0x12,  0x1,   0x14,
0x2,   0x1,   0xE,   0x1,   0x0,
0x1,   0x0,   0x0,   0x0,   0x5,
0x0,   0x0,   0x0,   0x0,   0x0,
0x0,   0x0,   0x0,   0x0,   0x0,
0x0,   0x0,   0x0,   0x0,   0x0,
0x17,  0x41,  0x96,  0x32,  0x40,
0x2C,  0x0B};
```

2. Part of the instruction code is different

1675A

```
void Epaper_LUT(u8 * wave_data)
{
    u8 count;
    Epaper_Write_Command(0x32); //write LUT by MCU
    for(count=0; count<70; count++) Epaper_Write_Data(*wave_data++);
    Epaper_READBUSY();
}

void LUT_Written_by_MCU(void)
{
    Epaper_Write_Command(0x2C); //set vcom
    Epaper_Write_Data(vcom);

    Epaper_Write_Command(0x03); //set gate voltage
    Epaper_Write_Data(LUT[70]);

    Epaper_Write_Command(0x04); //set source voltage
    Epaper_Write_Data(LUT[71]); //vsh1
    Epaper_Write_Data(LUT[72]); //vsh2
    Epaper_Write_Data(LUT[73]); //vsl

    Epaper_Write_Command(0x3A); // set frequency1-dummy line
    Epaper_Write_Data(LUT[74]);
    Epaper_Write_Command(0x3B); // set frequency2-line width
    Epaper_Write_Data(LUT[75]);

    Epaper_LUT((u8*)LUT);
}
```

1675B

```
void Epaper_LUT(u8 * wave_data)
{
    u8 count;
    Epaper_Write_Command(0x32); //write LUT by MCU
    for(count=0; count<100; count++) Epaper_Write_Data(*wave_data++);
    Epaper_READBUSY();
}

void LUT_Written_by_MCU(void)
{
    Epaper_Write_Command(0x2C); //set vcom
    Epaper_Write_Data(vcom);

    Epaper_Write_Command(0x03); //set gate voltage
    Epaper_Write_Data(LUT[100]);

    Epaper_Write_Command(0x04); //set source voltage
    Epaper_Write_Data(LUT[101]); //vsh1
    Epaper_Write_Data(LUT[102]); //vsh2
    Epaper_Write_Data(LUT[103]); //vsl

    Epaper_Write_Command(0x3A); // set frequency1-dummy line
    Epaper_Write_Data(LUT[105]);
    Epaper_Write_Command(0x3B); // set frequency2-line width
    Epaper_Write_Data(LUT[106]);

    Epaper_LUT((u8*)LUT);
}
```