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);

}
```