LED Control

Tony Chen, Leo Wang

September 27, 2021

Abstract

This document gives an easy guideline on how to send request to LED with panel and code.

1 Software List

- LED Test tool (in LED package)

2 Panel GuideLine

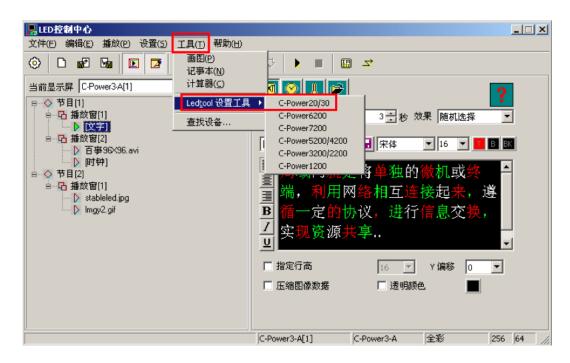


Figure 1: Main Page

- Step 1. Open LED tool, you will see the Main Page like the image

- Step 2. Click on LED Tool and check the version

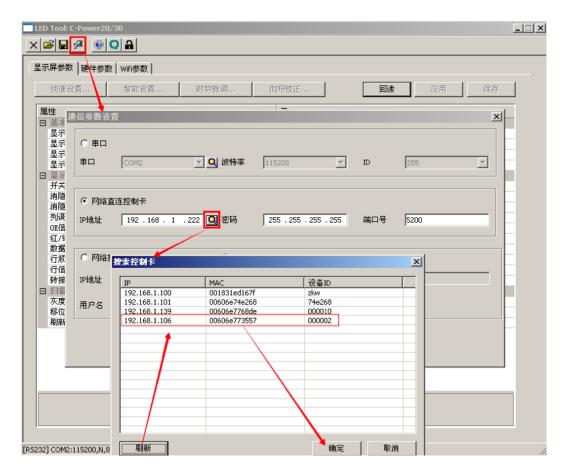


Figure 2: Ip setting of the LED

Usage: Config the LED setting

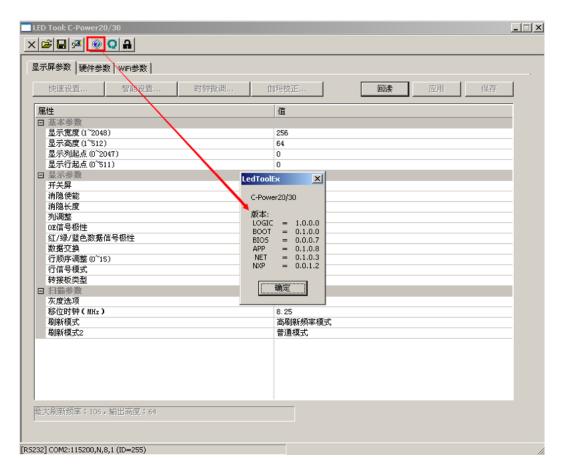


Figure 3: Check the version of the panel

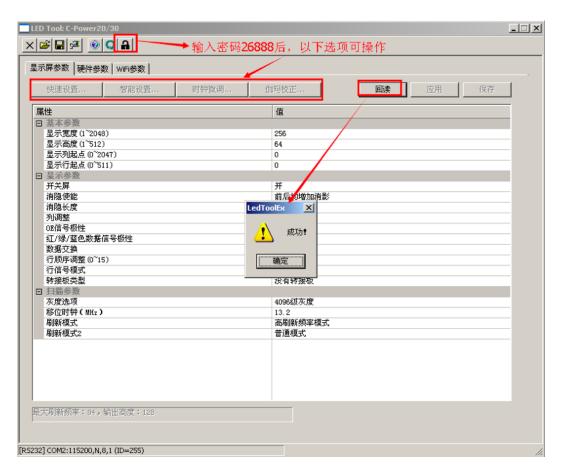


Figure 4: Config of the LED

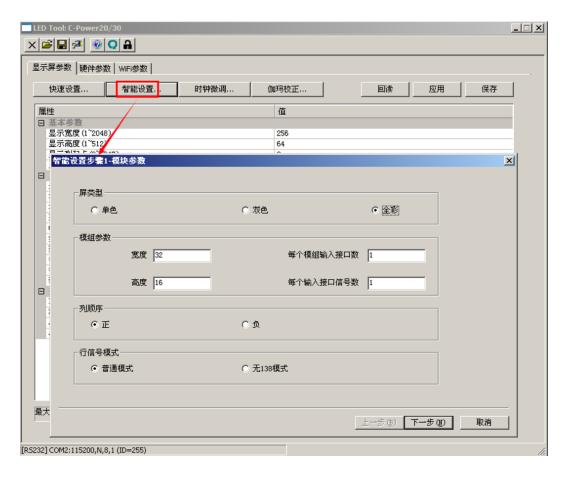


Figure 5: Config of the LED

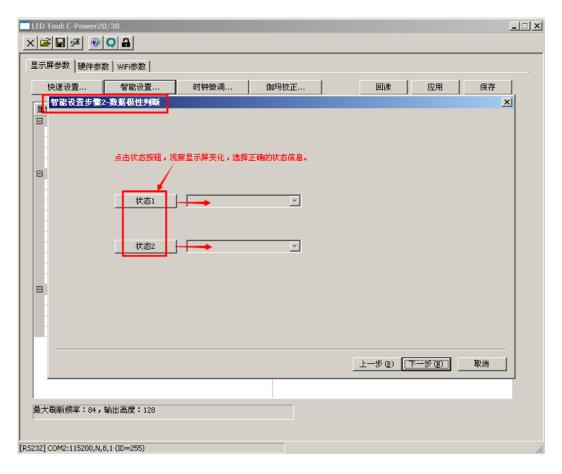


Figure 6: Config of the LED

You could set different condition by configuration

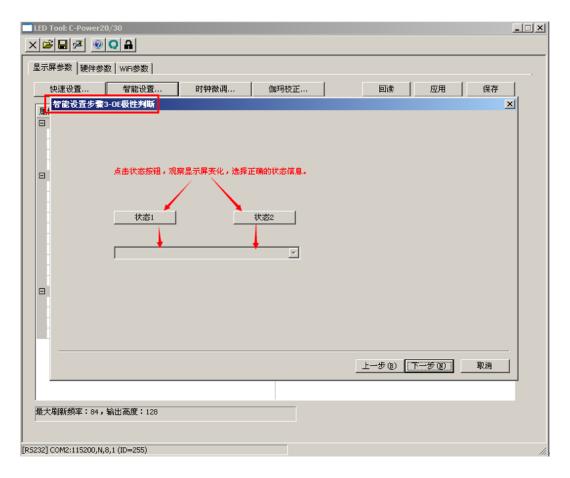


Figure 7: Config of the LED

You could set different condition by configuration

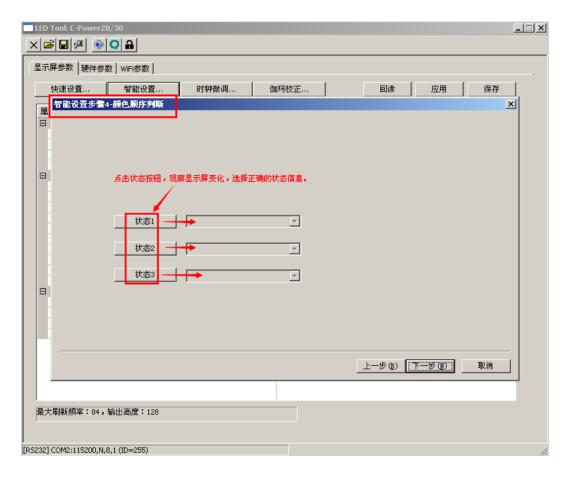


Figure 8: Config of the LED

This will makes the difference on the color

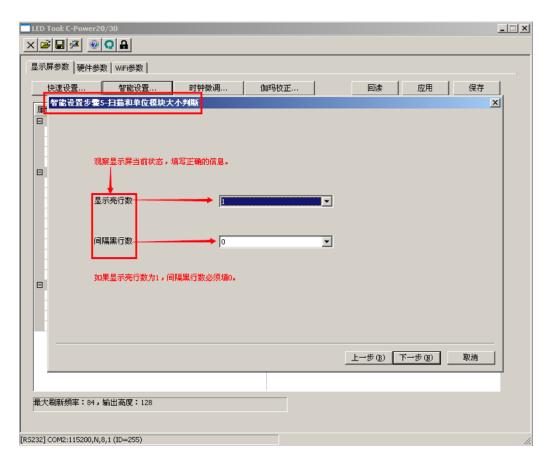


Figure 9: Config of the LED

This will makes the difference on the Line

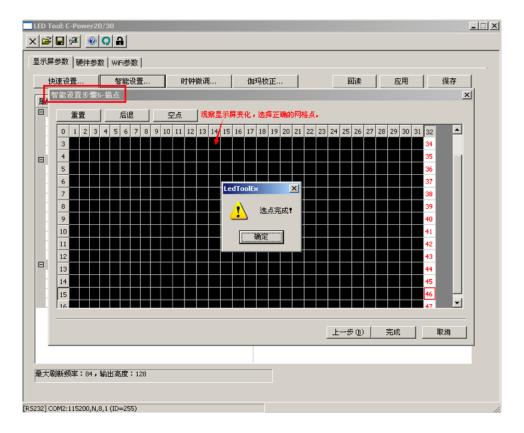


Figure 10: Config of the LED

This will change the different point



Figure 11: Config of the LED

This will change the different config

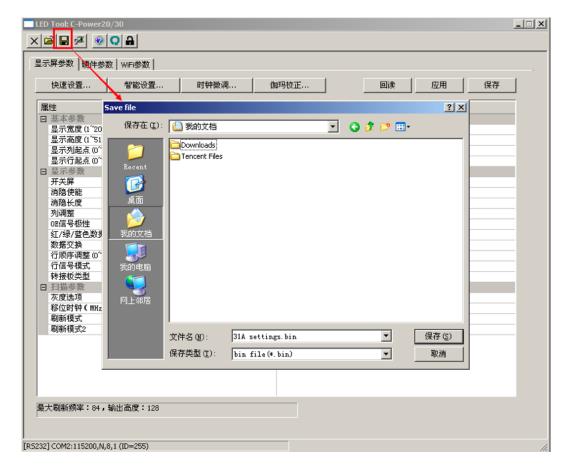


Figure 12: Save the information

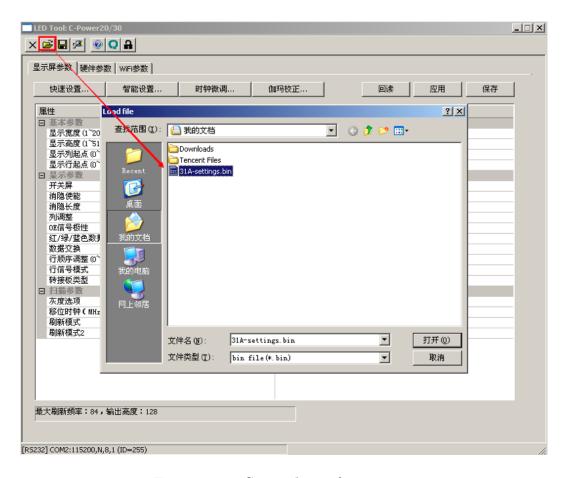


Figure 13: Save the information

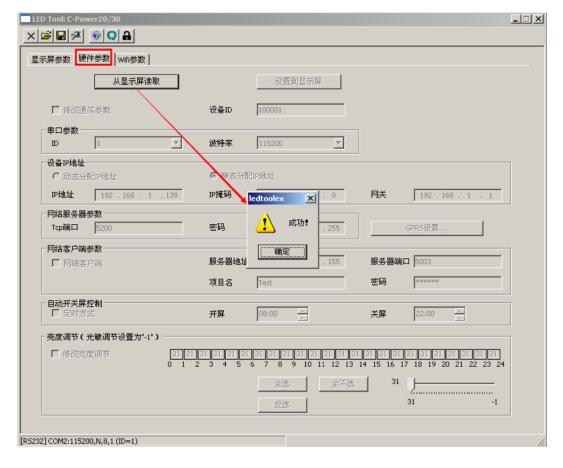


Figure 14: config setting



Figure 15: wifi setting

3 Software Approach

```
int config_led_count;
int config_led_type config_led[MAX_LEDS];
SOCKET led_sockfd[MAX_LEDS];
SOCKET led_sockfd[MAX_LEDS];
char arrow_filename[][100] = { "/opt/led/ArrowLeft.gif" , "/opt/led/ArrowUp.gif" , "/opt/led/A
```

Figure 16: Main H

```
# #include "pparking.h"
# #include "pparking.h"

# void read_config_led()
{
    int n;
        char walstr1[500];
        char valstr2[500];
        fllE *fp;
        char valstr2[500];
        fllE *fp;

        fp = fopen("/lpr_data/config/config_led.ini", "r");

        if (fp = NULL) {
            printf("config_led.ini not exist\n");
            exit(-1);
        }

        fscanf(fp, "%s %s\n", tmpstr, valstr1); config_led_count = atoi(valstr1);
        for (int i = 0; i < config_led_count; i++) {
            fscanf(fp, "%s %s %s %s %s %s %s may, tmpstr, config_led[i].name, config_led[i].ip, valstr1,
            config_led[i].arrow = atoi(valstr1);
            config_led[i].arrow = atoi(valstr2);
        }
        fclose(fp);

        read_config_led();
        for (int i = 0; i < config_led_count; i++) {
            init_led(i);
            show_led(i, 999);
        }
    }
}</pre>
```

Figure 17: Main CPP