

## LED controller protocol

### Command format

Command adopts ASCII character set, The communication between host and LED controller is realized through “getreport” and “setreport”

A command packet consists of the following parts

Command header	@
Command	cmd
Parameter head	\$
Parameter	par
end	#

command packet = @cmd + \$par1 + \$par2 + ..... + \$parn + #

#### 1. command:

without parameter: @cmd#

with parameter: @cmd\$par1\$par2\$.....\$parn#

#### 2. Response:

with parameter: @cmd\$par1\$par2\$.....\$parn#

without parameter: @cmd\$par# : Success par=1, fail par=0

## Command specification

### Read Version information

Host computer->Controller: @ver#

Controller -> Host computer: @ver\$copyright\$type\$head\$soft\$poer\$port\$date#

- **copyright** : Company name
- **type**: Product model
- **head**: Hardware version
- **soft**: Firmware version
- **poer**: Working voltage
- **port**: Interface type
- **date**: Compile date

### Set LED color

Host computer -> Controller: @setRGB\$ledId\$r\$g\$b#

Controller -> Host computer: @setRGB\$result#

- **ledId**: LED ID, 0 - all the LED
- **r** : RGB Red component, values 0~255
- **g**: RGB Green component, values 0~255
- **b**: RGB Blue component, values 0~255
- **result**: Success result=1, Fail result=0

Example:

- set all led to red : @setRGB\$0\$255\$0\$0#
- set Number one LED to red : @setRGB\$1\$0\$255\$0#

## Set Brightness

Host computer -> Controller: @setLight\$ledId\$par#

Controller -> Host computer: @setLight\$result#

- **ledId:** LED ID, 0 - all the LED
- **par:** LED brightness, values 0~100
- **result:** Success result=1, Fail result=0

## LED switch on/off

Host computer -> Controller: @setEnabled\$ledId\$par#

Controller -> Host computer: @setEnabled\$result#

- **ledId:** LED ID, 0 - all the LED
- **par:** LED status, 0-off, Non 0-on
- **result:** Success result=1, Fail result=0

## LED status

Save the current state of the LED as the initial state of power on

Host computer -> Controller: @setSave#

Controller -> Host computer: @setSave\$result#

- **result:** Success result=1, fail result=0

## Set Display mode

Host computer -> Controller: @setMode\$par#

Controller -> Host computer: @setMode\$result#

- **par:** display mode, values 0~255

- 0: manual control
- 1: Gradual change 1
- 2: Gradual change 2
- 3: Gradual change 3
- 4: water 1
- 5: water 2
- 6: water 3

7: water 4

8: water 5

9: water 6

10: water 7

11: water 8

12: water 9

13: water 10

14: Monochromatic cyclic change

- **result:** Success result=1, Fail result=0

## Set Quantity of LED

Host computer -> Controller: @setNum\$par#

Controller -> Host computer: @setNum\$result#

- **par:** quantity of LED, values 1~255;
- **result:** Success result=1, Fail result=0

## Delay

Host computer -> Controller: @setTime\$par#

Controller -> Host computer: @setTime\$result#

- **par:** delay, values 1~100;
- **result:** Success result=1, Fail result=0

## Set Auto mode switching

Host computer -> controller: @setAuto\$par#

controller -> Host computer: @setAuto\$result#

- par:** 0-no switch automatically, Non 0-auto switch
- **result:** Success result=1, Fail result=0

## Set Auto mode switch cycle

Host computer -> Controller: @setAutoTime\$par#

Controller -> Host computer: @setAutoTime\$result#

- **par:** cycle, values 1~100;
- **result:** Success result=1, Fail result=0

## Read Serial number

Host computer->Controller: @getSN#

Controller -> Host computer: @getSN\$SN#

- **SN:** Serial number

Alle in dit document opgenomen informatie wordt verstrekt door de fabrikant van de touchschermen met verlichte LED-rand. Ap-Art B.V. / diz informatiezuilen geeft geen ondersteuning op deze protocollen.