

485 Serial screen applications

category	content
Key words	485 Cascade Serial summary screen



revise history

version	date	the reason
V1.0	2016/03/19	Create documents
V2.0	2017/1/20	Update error, add the line mode setting address



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table of Contents

1. Scope	5
2. Development Environment version	6
3. Functional Overview	7
4. Technical realization	8
4.1 Set up 485 Screen Address	8
4.2 cancel 485 address	9
4.3 DETAILED instruction format	10



1. Scope

Basic documents, were linked, 86 Box Series 485 Serial communication level screen products.

2. Development Environment version

1. VisualTFT Software version: V3.0.0.636 And above; versions View: Open VisualTFT Click Help -> About VisualTFT You can view the current software version number; the latest version can be found at www.gz-dc.com Download



2. Serial screen hardware version: V2.22.649.XXX And above. View version :(1) Check

the version number sticker on the back screen.

- (2) VisualTFT After the success of the online screen, the version number displayed in the lower right corner.



3. Functional Overview

485 Screen applications, mainly to set address bits, a host can be done a plurality of serial concatenated screen, the screen is provided according to each port 485 Address to communicate with each other.

485 Screen communication advantages, long-distance communication, as far as can be

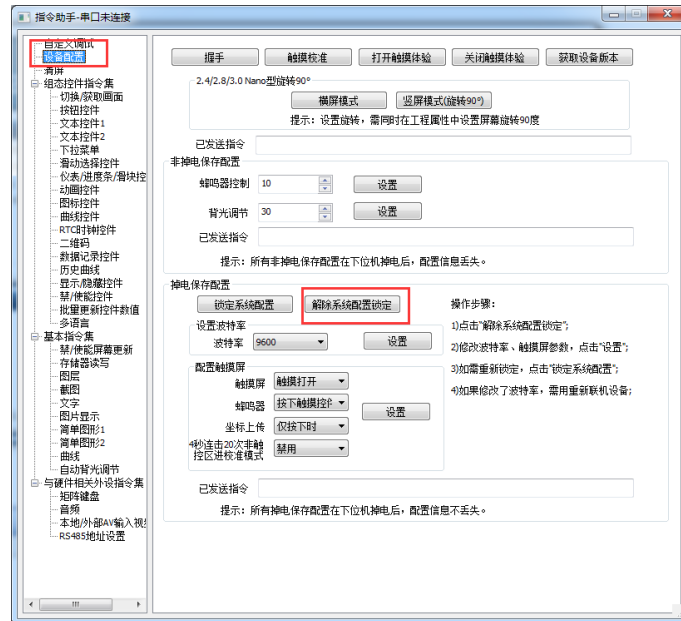
achieved 1KM . Shortcomings, half-duplex communication, communication can not send and receive simultaneously.

4. Technical realization

4.1 Set up 485 Screen Address

1. First with operations VisualTFT Software online success, after the successful connection, the first to unlock your system configuration, as shown in 4.1

Fig.

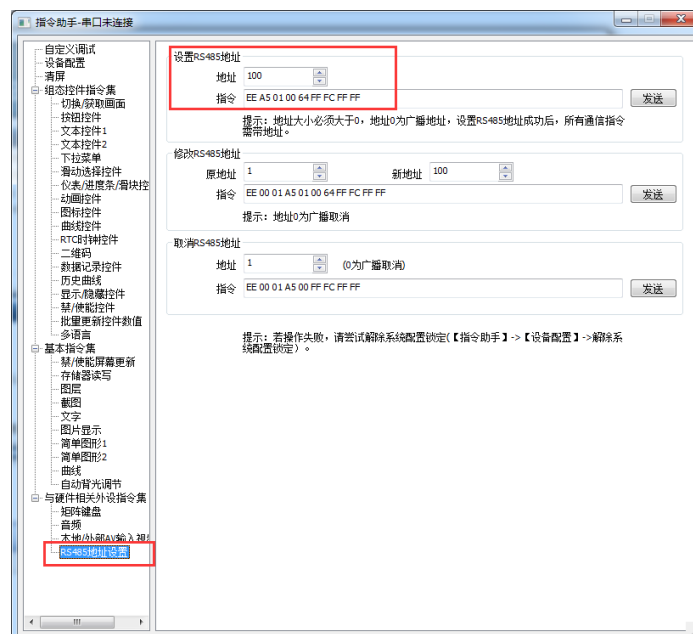


Map 4.1 System configuration lock is released

Note: After the system configuration can not be set to lock 485 address can not touch modify configuration settings such as baud rate. If the device can not connect, please refer VisualTFT FAQ document processing software solutions.

2. Then directly 485 Address settings, you need to set any address, fill out directly in the address bar, click on the hair

Send as 4.2 Fig.



Map 4.2 Setting address

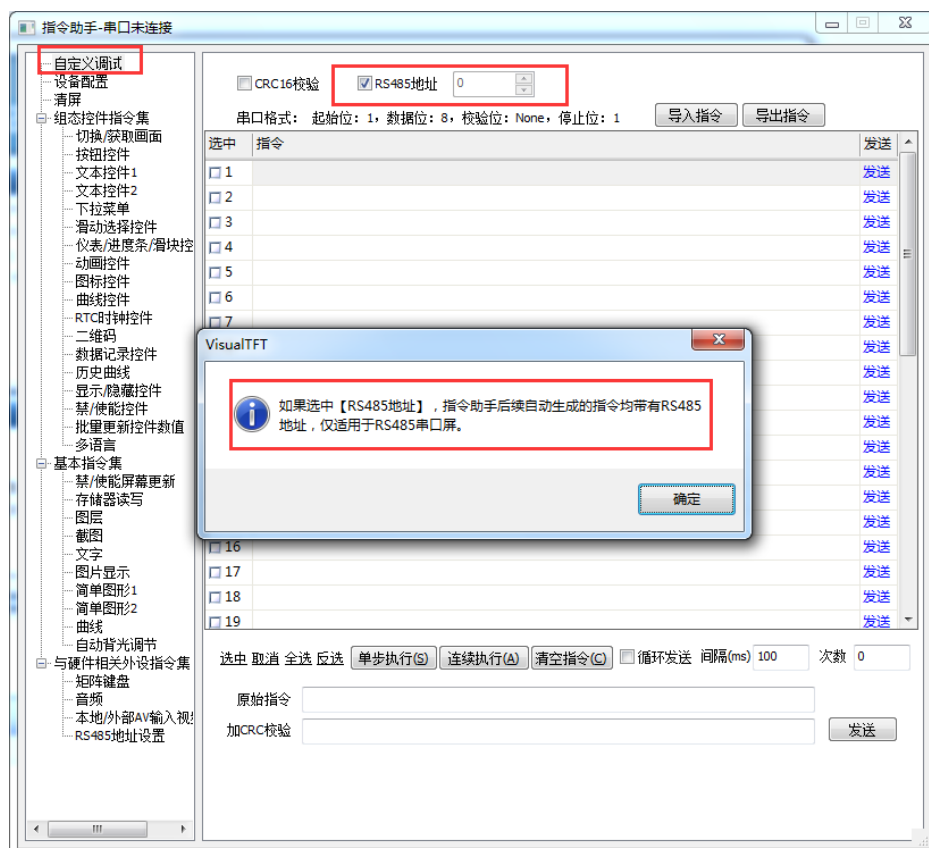
3. Set up 485 After the address, to confirm whether the setting is successful, the method is confirmed: once again off a power device, assuming that When placed successfully repeated on the power, the instruction code is transmitted with the device address instruction, FIG. 4.3 As shown in the instruction address received with no software instruction window. If with address, upload instruction format is: EE address 07 FF FC FF FF , Address 2 Bytes.

时间	方向	数值
10:49:39.839	TXD	EE 07 FF FC FF FF

Map 4.3 Upload device reset instruction

4. Determining whether or directly in the success of software instructions assistant, a command send any test, if made

After delivery, the device does not respond was set successfully, or software command assistant, pre-set 485 Address, and the address transmitted with the test instruction. Figure 4.4 Fig.



Map 4.4 Instruction assistant with address to send commands

4.2 cancel 485 address

1. First open the command assistant, check the 485 Address, the address set 0 And click on the online device.

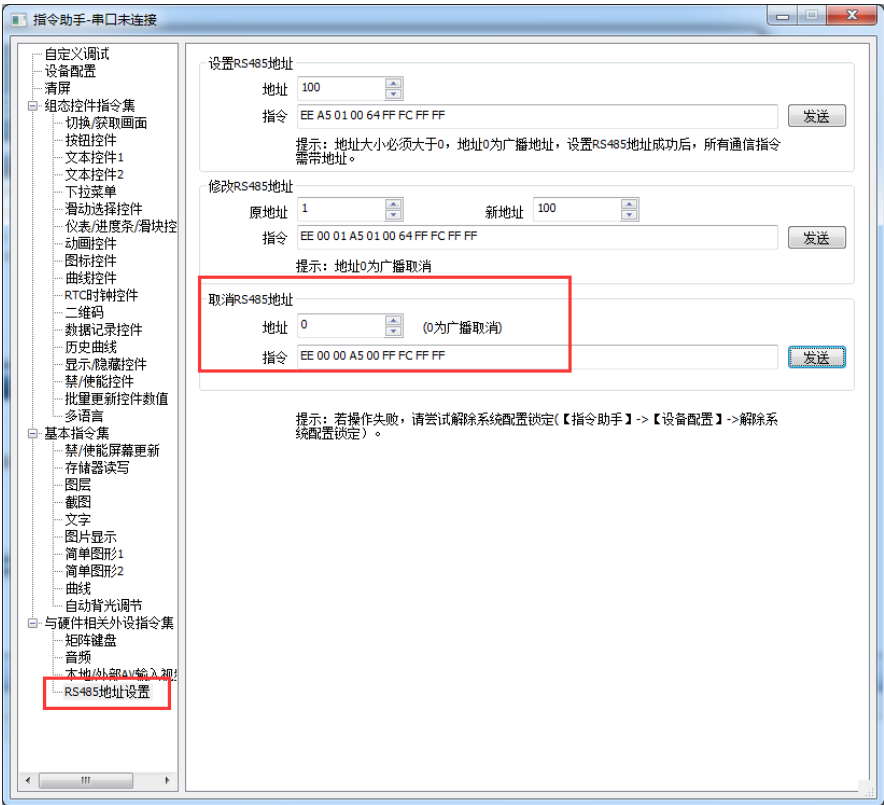


Map 4.5 Online broadcast address

Which is set to address 0 For the broadcast address.

2. Upon successful connection equipment, Send Cancel address instruction. Cancel the instruction to send the settings on the helper address, such as the first 1

Section √ removed. The success of such tests is set 4.1 First 3 , 4 Subsections describe.



Map 4.6 Cancel Broadcast address

4.3 DETAILED instruction format

Set up 485 Address instruction format shown in FIG particular 4.7 Below:

设置 485 屏地址	0xA5+0x01	Addr	设置无地址的 485 屏 Addr: 2 个字节, 表示屏地址, 从 1 开始, 0 为广播地址 地址设置成功后, 所有上传的指令均会添加地址, 格式如下: EE Addr ... FF FC FF FF
	无	Addr_old +0xA5+0x00 +Addr_new	设置已有地址的 485 屏地址 Addr_old: 当前 485 屏幕的地址 Addr_new: 新的 485 屏幕地址 对于已有地址的屏幕, 需要先指定原地址, 然后设置新的地址。 若不知道原地址, 可以先取消地址, 再重新设置新地址
取消 485 屏地址	无	Addr+0xA5+0x00	取消 485 地址有 2 种: (1) 取消已有地址的屏地址: EE Addr A5 00 FF FC FF FF Addr: (2 个字节) 当前屏幕地址 (2) 广播方式取消地址: EE 00 00 A5 00 FF FC FF FF

Map 4.7 485 Command parsing

Test instructions: handover screen, without 485 FIG address instruction 4.8 Below:



切换画面

画面ID

1

显示画面

上一画面

下一画面

指令

EE B1 00 00 01 FF FC FF FF |

Map 4.8 General instructions

band 485 Address instruction was: EE 【address】 B1 00 00 01 FF FC FF FF . Such as the address set 0064 That specific instructions: EE 00 64 B1 00 00 01 FF FC FF FF .

Note: Since the set address 485, all instructions with address, send instructions to the microcontroller serial port screen, it can be identified directly a function of the serial port through the screen to do what address, or send commands to the port corresponding screen.

Software emulator does not support 485 address settings, this feature can not be used to simulate simulator.