

乐屋Q1梦幻帘电机RS-485/RS-232通讯控制

公司保留更改产品设计与说明书的权利，届时将不另行通知，图片仅供参考，具体以实物为准。

A/1 H12125

通讯参数设置、数据格式

通讯协议控制指令为7个字节的16进制表示的指令，PC采用16进制发送,232\485

端口参数设置:波特率9600,无校验位,8位数据位,1位停止位

数据包格式：0x55, D1, D2, D3, Cmd, Parm1, Parm2, Parm3, checksum

字节1（数据头码）：

标志码：	取值范围：
0x55	固定值

字节2、3（默认地址：FEFE）：

地址码：	取值范围：(字母、数字组合,如：C3B6)	备注：
D1	0x01~0xFE	地址H
D2	0x01~0xFE	地址L

字节4（通道）

频道值：	取值范围：	备注：
D3	0x01~0xFE	0x05为广播公共频道，广播时不反馈数据

字节5（Cmd）：

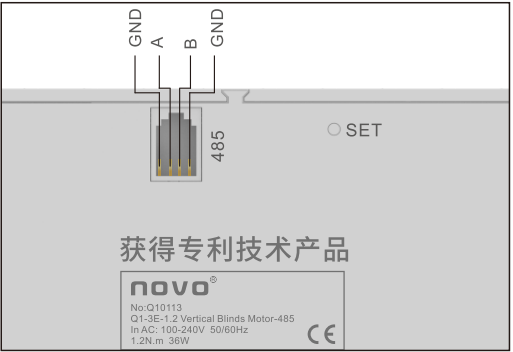
功能：	命令值：	备注：
写设备地址	0xAA	需要先给电机接通电，然后按一下电机SET1按键进入写设备地址状态，再发送写入命令
	0xBB	用命令直接写入设备地址
开合方向打开	0xDD	控制电机开合方向运行，并非是调光方向控制
开合方向关闭	0xEE	
向左调光方向	0xD1	控制电机调光方向运行，并非是控制开合方向运行
向右调光方向	0xE1	
开合停止、调光停止	0xCC	开合方向停止和调光方向停止是共用命令值
开合方向百分比	0x67	开合方向百分比控制，必须设置好开合行程才能百分比控制
调光方向百分比	0x76	左右调光百分比控制，必须设置好调光行程才能百分比控制
开合方向换向	0xCD	开合电机运行方向换向，调光电机方向不能换向
查询	0x98	开合方向百分比、调光方向百分比、电机状态。注意：查开合与调光方向百分比电机必须有行程才可以查询

字节6(Parm1)：

字节5：	字节6(Parm1)值	备注：Parm1
0x76	0---0x64	控制调光百分比值
0x67	0---0x64	控制开合百分比值
0xCD	00或者01	设置开合方向值，00默认方向，01反向
0x98	0---0x64	为查询指令返回时，Parm1表示为开合的百分比值
xxxx	00	字节5是其他命令时，此参数值0

字节7(Parm2)：

字节5：	字节7(Parm2)值	备注：
0x98	00 — 0x64	Parm2表示为查询调光的百分比值，如果字节5是其他指令，此数值为0



字节8(Parm3):

字节5:	字节8(Parm3)值	备注:
0x98	00或者01或者02	Parm3表示为查询电机当前处于某种状态, 00停止、01打开中、02关闭中, 如果字节5是其他指令, 此数值为0

字节9:

字节9:	备注:
Checksum	Checksum = 55+FE+FE+…….+00, 取低字节。(参考举例说明)

举例说明 (16进制表示) : 地址=FEFE, 通道=03

写设备地址: 只存一个地址码,再重复对码即覆盖之前的, 默认地址和通道: FEFE03, 强烈建议使用字母、数字组合(如:C3B6), 地址禁用头码55。

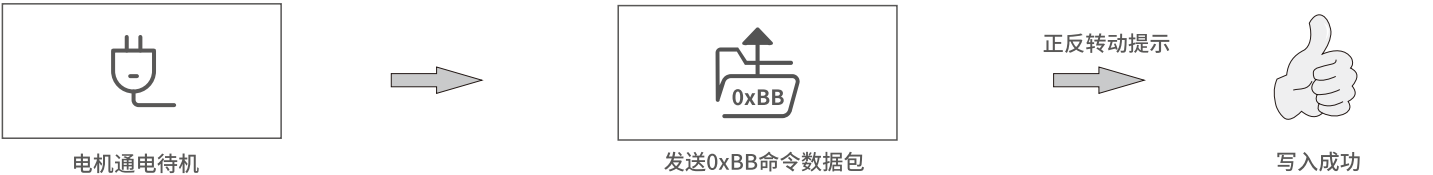
方式一: 按下电机的SET键, 电机正反转停止后10秒内发送0xAA命令数据包, 电机正反转提示, 写入成功。

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	AA	00	00	00	FE
电机反馈	55	FE	FE	03	AA	00	00	00	FE



方式二: 在电机通电待机状态下, 直接发送0xBB命令数据包, 电机正反转提示, 写入成功。

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	BB	00	00	00	0F
电机反馈	55	FE	FE	03	BB	00	00	00	0F



控制窗帘打开: (如果窗帘运行方向不对, 则执行一次开合换向动作)

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	DD	00	00	00	31
电机反馈	55	FE	FE	03	DD	00	00	00	31

控制窗帘关闭: (如果窗帘运行方向不对, 则执行一次开合换向动作)

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	EE	00	00	00	42
电机反馈	55	FE	FE	03	EE	00	00	00	42

控制窗帘开合停止与调光停止是共用命令值:

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	CC	00	00	00	20
电机反馈	55	FE	FE	03	CC	00	00	00	20

向左调光方向:

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	D1	00	00	00	25
电机反馈	55	FE	FE	03	D1	00	00	00	25

向右调光方向：

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	E1	00	00	00	35
电机反馈	55	FE	FE	03	E1	00	00	00	35

开合百分比控制(100%):

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	67	64	00	00	1F
电机反馈	55	FE	FE	03	67	64	00	00	1F
	55	FE	FE	03	67	FF*	00	00	BA

*当电机没有设置开合行程时，反馈FF，电机不动作无法进行百分比控制。FF代表是没有行程。

调光百分比控制(50%)：

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	76	32	00	00	FC
电机反馈	55	FE	FE	03	76	32	00	00	FC
	55	FE	FE	03	76	FF*	00	00	C9

*当电机没有设置调光行程时，反馈FF，电机不动作无法进行百分比控制。FF代表是没有行程。

*在电机有开合行程和调光行程的情况下，窗帘完全合笼时左右调光角度是170度，离开合笼位置时左右调光角度是130度，百分比控制反馈数据也有不同。

开合方向换向(Parm1=00默认正向，Parm1=01反向)

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	CD	01	00	00	22
电机反馈	55	FE	FE	03	CD	01	00	00	22

查询（Parm1—开合百分比50%，Parm2—调光百分比20%，Parm3—电机状态01）

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	98	00	00	00	EC
电机反馈	55	FE	FE	03	98	32	14	01*	33

*Parm3—00电机停止，01开合打开，02开合关闭。

进入设置

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	33	00	00	00	87
电机反馈	55	FE	FE	03	33	00	00	00	87

清除开合行程(并非是调光行程)

	头码	地址H	地址L	通道	Cmd	Parm1	Parm2	Parm3	checksum
主机发送	55	FE	FE	03	44	00	00	00	98
电机反馈	55	FE	FE	03	44	00	00	00	98

梦幻帘设置开合行程与调光行程步骤如下：（如已设好开合行程，则跳过步骤1、2步骤）

开合行程	步骤1：	发送0xDD窗帘打开命令数据包，梦幻帘运行打开，直到电机自动堵停止后才会自动产生打开行程。
	步骤2：	发送0xEE窗帘关闭命令数据包，梦幻帘运行关闭，直到电机自动堵停止后才会自动产生关闭行程。
调光行程	步骤3：	把窗帘运行到关闭合笼后再发送0x33进入设置命令数据包，梦幻帘开与合1次提示，电机进入设置状态，倒计时10秒。
	步骤4：	10秒内发送0xD1向左调光数据包，梦幻帘开与合1次提示，并往左方向运行调光直到电机自动堵停止后才会自动产生调光行程。成功后会自动反向运行到90度位置。
备注	校正调光角度	窗帘完全关闭的情况下，如果调光不能完全合笼状态（170度），请再重复操作步骤3、4步骤即可，前提是必需要有开合行程（没有开合行程，是无法设置调光行程）。

清除开合行程步骤如下：

步骤 1：	发送0x33进入设置命令数据包，梦幻帘开与合1次提示，电机进入设置状态，倒计时10秒。
步骤 2：	10秒内发送0x44清除行程数据包，梦幻帘开与合1次提示，行程清除成功。

Q1 Dream Blinds Motor RS-485/RS-232 Communication Control

Company reserves the right to change product design and specifications without prior notice then ,photos are for reference only.

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Communication parameter setting, data format

Control instruction of the communication protocol is 7-byte hexadecimal.

The PC uses hexadecimal to send.

232\485 port parameter settings: baud rate 9600, no check digit, 8 data bits, 1 stop bit

Packet format: 0x55, D1, D2, D3, Cmd, Parm1, Parm2, Parm3, checksum

Byte 1 (data header code):

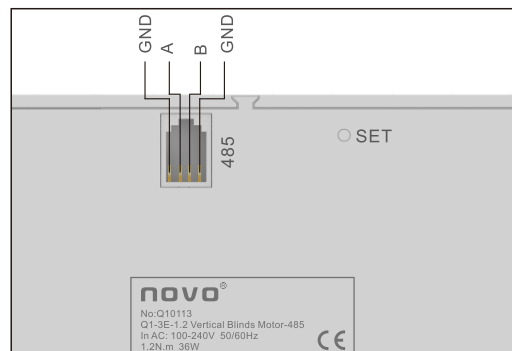
Flag code	Range of values:
0x55	fixed value

Byte 2, 3 (default address: FEFE):

Address code:	Value range: (combination of letters and numbers, such as: C3B6)	Remarks:
D1	0x01~0xFE	Address H
D2	0x01~0xFE	Address L

Byte 4 (channel):

Channel value:	Value range:	emarks:
D3	0x01~0xFE	0x05 is broadcasting public channel, no feedback data when broadcasting



Byte 5 (Cmd):

Function:	Command Value:	Remarks:
Write device address	0xAA	Need to power on the motor first, then press the SET1 button of the motor to enter the state of writing the device address, and then send the write command.
	0xBB	Write the device address directly with the command.
Opening and closing direction: open	0xDD	Control motor opening and closing, not dimming.
Opening and closing direction: close	0xEE	
Left dimming	0xD1	Control motor dimming, not opening and closing.
Right dimming	0xE1	
Stop opening and closing , stop dimming	0xCC	Opening and closing stop and dimming stop are common command values.
Opening and closing percentage	0x67	Opening and closing percentage control. The opening and closing limit must be set firstly.
Dimming percentage	0x76	Left and right dimming percentage control, the dimming limit must be set firstly.
Opening and closing reversing	0xCD	Opening and closing direction reversing, dimming direction cannot be reversed.
Query	0x98	Opening and closing percentage, dimming percentage, motor status. Note: To check the percentage, the motor must have the related limit firstly.

Byte 6 (Parm1):

Byte 5:	Byte 6 (Parm1) Value	Remark: Parm1
0x76	0---0x64	Dimming percentage control value
0x67	0---0x64	Opening and closing percentage control value
0xCD	00 or 01	set opening and closing direction value, 00 default direction, 01 reverse
0x98	0---0x64	When query command is returned, Parm1 means percentage value of opening and closing
xxxx	00	When byte 5 is other commands, this parameter value is 0

Byte 7(Parm2):

Byte 5:	Byte7 (Parm2) Value	Remark:
0x98	00—0x64	Parm2 means percentage value of dimming when query. When byte 5 is other commands, this parameter value is 0

Byte 8(Parm3):

Byte 5:	Byte 8(Parm3) Value	Remark:
0x98	00 or 01 or 02	Parm3 means to query motor state: 00 Stop, 01 Opening, 02 Closing. When byte 5 is other commands, this parameter value is 0

Byte 9:

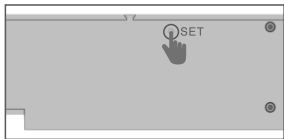
Byte 9:	Remark:
Checksum	Checksum = 55+FE+FE+.....+00, take the low byte. (Refer to example)

Example (hexadecimal representation): address = FEFE, channel = 03

Write device address: save only one address code, repeating pairing will overwrite the previous one. The default address and channel: FEFE03. It is strongly recommended to use a combination of letters and numbers (such as: C3B6), and the header code 55 is disabled for the address.

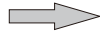
Method 1: Press motor SET button, and send a 0xAA command packet within 10 seconds after motor turns forward and reverse. Then motor will turn forward and reverse, this means the writing is successful.

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	AA	00	00	00	FE
Motor Feedback	55	FE	FE	03	AA	00	00	00	FE



Press motor SET button

turns forward and reverse



send a 0xAA command packet within 10 seconds

turns forward and reverse



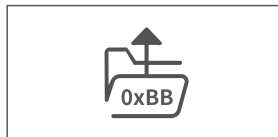
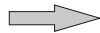
successful

Method 2: When the motor is powered on and in the standby state, directly send the 0xBB command packet, the motor will be forward and reverse, and the writing is successful.

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	BB	00	00	00	0F
Motor Feedback	55	FE	FE	03	BB	00	00	00	0F



Motor is powered on and in the standby state



send the 0xBB command packet

turns forward and reverse



successful

Open the blinds: (if the blinds run in wrong direction, perform an opening and closing reversing action)

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	DD	00	00	00	31
Motor Feedback	55	FE	FE	03	DD	00	00	00	31

Close the blinds: (if the blinds run in wrong direction, perform an opening and closing reversing action)

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	EE	00	00	00	42
Motor Feedback	55	FE	FE	03	EE	00	00	00	42

Stop: Opening and closing stop and dimming stop are common command values

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	CC	00	00	00	20
Motor Feedback	55	FE	FE	03	CC	00	00	00	20

Left dimming:

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	D1	00	00	00	25
Motor Feedback	55	FE	FE	03	D1	00	00	00	25

Right dimming:

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	E1	00	00	00	35
Motor Feedback	55	FE	FE	03	E1	00	00	00	35

Opening and closing percentage control (100%):

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	67	64	00	00	1F
Motor	55	FE	FE	03	67	64	00	00	1F
	55	FE	FE	03	67	FF*	00	00	BA

*When there is no opening and closing limit, feedback FF and motor no action, can not do opening and closing percentage control. FF means no opening and closing limit.

Dimming percentage control (50%)

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	76	32	00	00	FC
Motor Feedback	55	FE	FE	03	76	32	00	00	FC
	55	FE	FE	03	76	FF*	00	00	C9

*When there is no dimming limit, feedback FF and motor no action, can not do dimming percentage control. FF means no dimming limit.

*When there are opening & closing limit and dimming limit, the max dimming angle is 170 degree when blinds is fully close. It is 130 degree when blinds is not fully close. Percentage control feedback is also different.

Opening and closing reversing (Parm1=00 default forward, Parm1=01 reverse)

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	CD	01	00	00	22
Motor Feedback	55	FE	FE	03	CD	01	00	00	22

Query (Parm1—Dimming and closing 50%, Parm2—Opening 20%, Parm3—Motor state 01)

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	98	00	00	00	EC
Motor Feedback	55	FE	FE	03	98	32	14	01*	33

*Parm3—00 Motor stops, 01 open, 02 close

Enter setting

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	33	00	00	00	87
Motor Feedback	55	FE	FE	03	33	00	00	00	87

Delete opening and closing limit (not dimming limit)

	Header Code	Address H	Address L	Channel	Cmd	Parm1	Parm2	Parm3	checksum
Host sends	55	FE	FE	03	44	00	00	00	98
Motor Feedback	55	FE	FE	03	44	00	00	00	98

Opening & closing limit and dimming limit setting steps: (if the opening and closing limit has been set, skip steps 1 and 2)

Opening & closing limit setting	Step 1:	Send the 0xDD opening command packet, the dream blinds will open. Until the motor is automatically blocked and stopped, now the opening limit is done.
	Step 2:	Send the 0xEE closing command packet, the dream blinds will close. Until the motor is automatically blocked and stopped, now the closing limit is done.
Dimming Limit setting	Step 3:	Fully close the dream blinds. Then send 0x33 command packet. The dream blinds will open and close once. Motor enters the setting state, and the countdown will be 10 seconds.
	Step 4:	Send 0xD1 left dimming data packet within 10 second. The dream blinds will open and close once. And then left dimming until the motor is automatically blocked and stopped. Now the dimming limit is done and it will automatically run in reverse to the 90-degree position.
Remark	Correct dimming angle	When the blinds is completely closed, if the dimming cannot be fully closed (170 degrees), please repeat steps 3 and 4. The premise is that there must be an opening and closing limit (if no opening and closing limit, it is impossible to set the dimming limit).

Delete opening & closing limit steps:

Step 1	Send 0x33 command packet. The dream blinds will open and close once. Motor enters the setting state, and the countdown will be 10 seconds.
Step 2	Send 0x44 data packet within 10 seconds to delete opening & closing limit. The dream blinds will open and close once. The opening & closing limit has been deleted.