# 介绍翼闸 DS-K3Y501 和 DS-K3Y501SX Series

Introduction of DS-K3Y501 and DS-K3Y501SX Series

介绍：翼闸是基于通过电机轴承以下方为支点将门翼收入、推出箱体实现人员通信管控的人员通道。本文以 K3Y501SX 翼闸为例，介绍各个组件、外接明眸、三方控制器干接点输入。以便通过本文可以更好的认识该款闸机。

Introduction: The wing gate is a personnel channel based on which the door wing is collected and pushed out of the box through the motor bearing as the fulcrum to realize personnel communication management and control. This article takes the K3Y501SX wing gate as an example to introduce each component, the external bright eye, and the dry contact input of the three-way controller. In order to better understand the gate through this article.
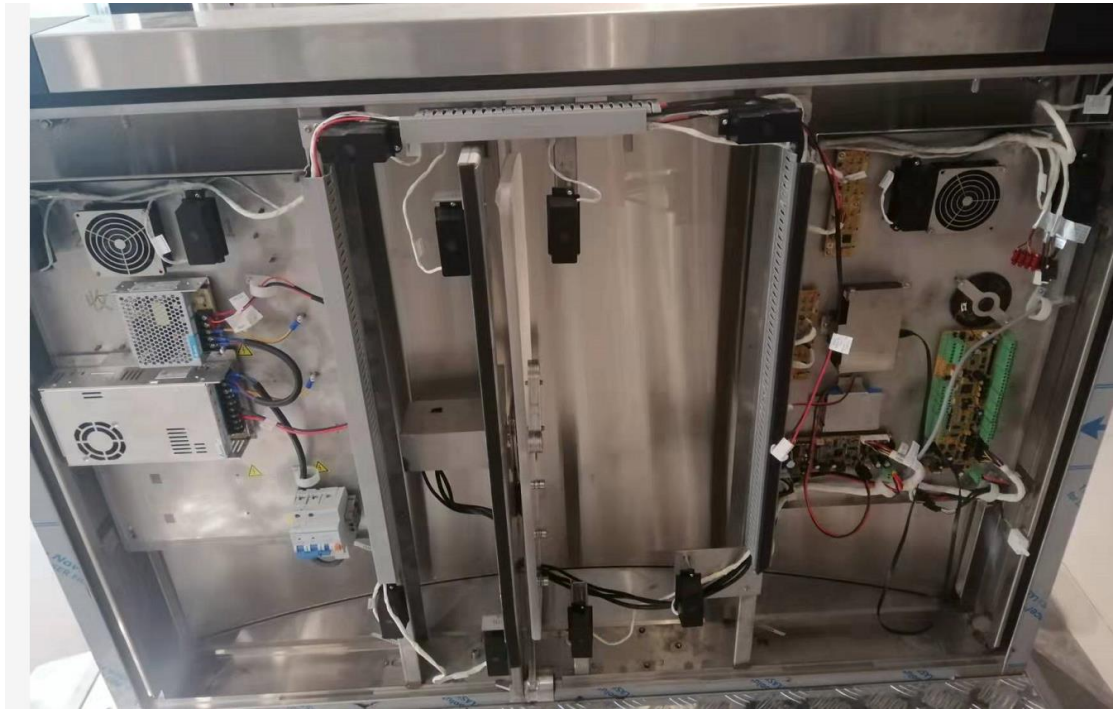
DS-K3Y501SX
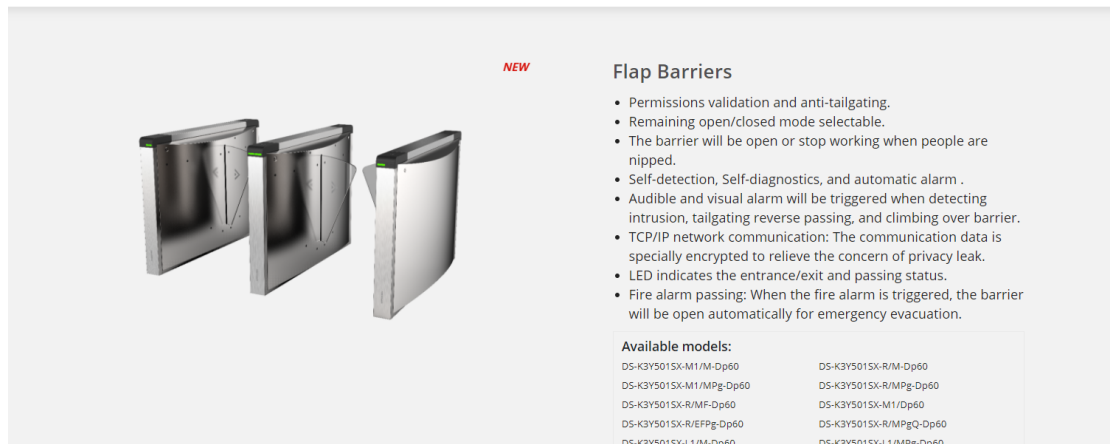
一、 右边道 Right side of the channel（entrance as reference direction）
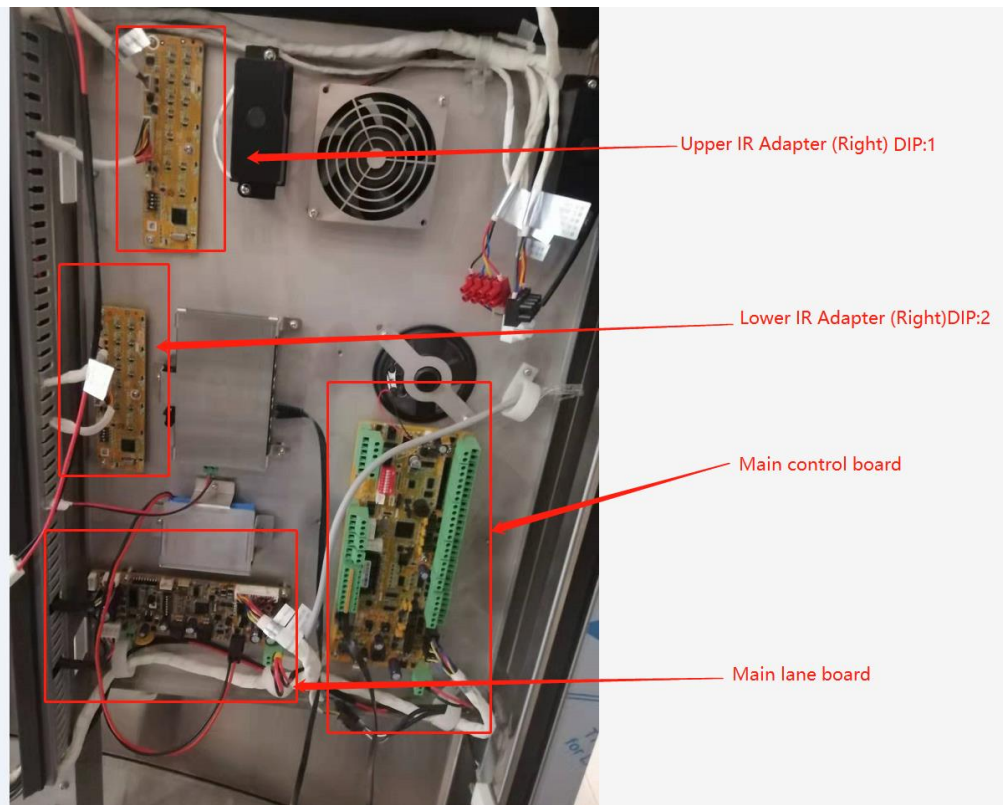
闸机进方向的右边我们可以称之为右边道，由权限板和主通道板、上下接收转接板、上下接收灯板和电源部分组成。
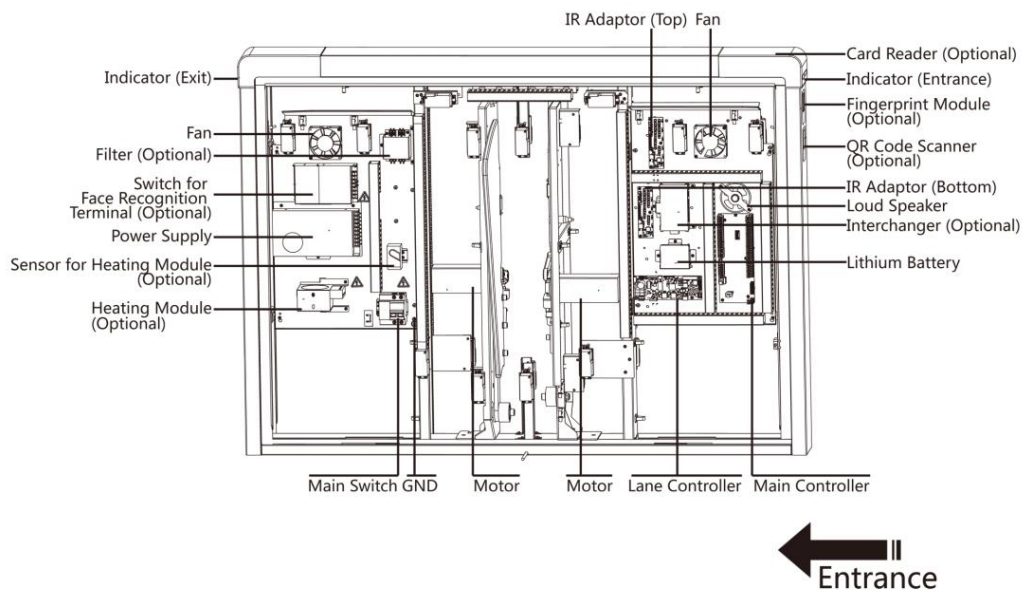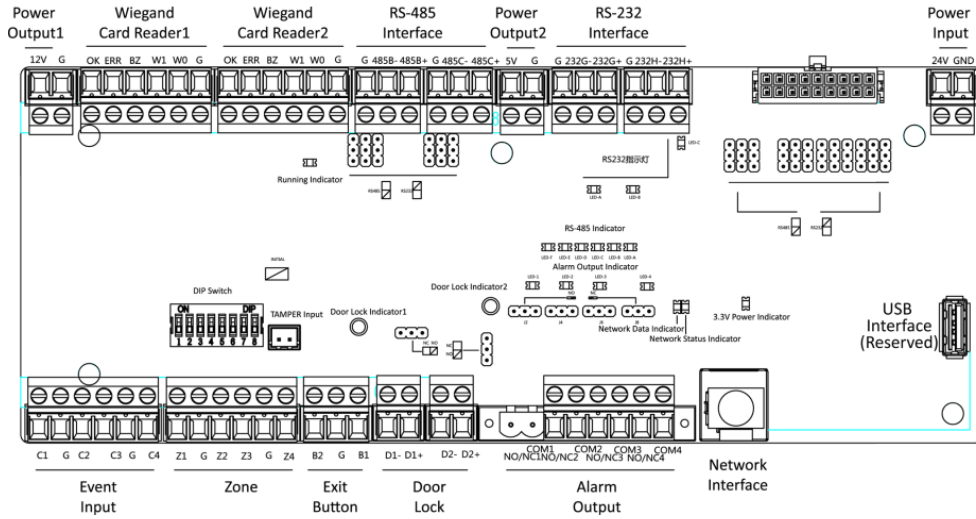

Components Diagram

Physical Components

（1）右边道有上下红外接收转接板、权限板和主通道板。注意上转接板为 DIP：1，下转接板 DIP：2。

（1）The right channel has the upper and lower infrared receiving adapter board, the main board channel board and the permission board. Note that the upper adapter board is DIP: 1, and the lower adapter board is DIP: 2.
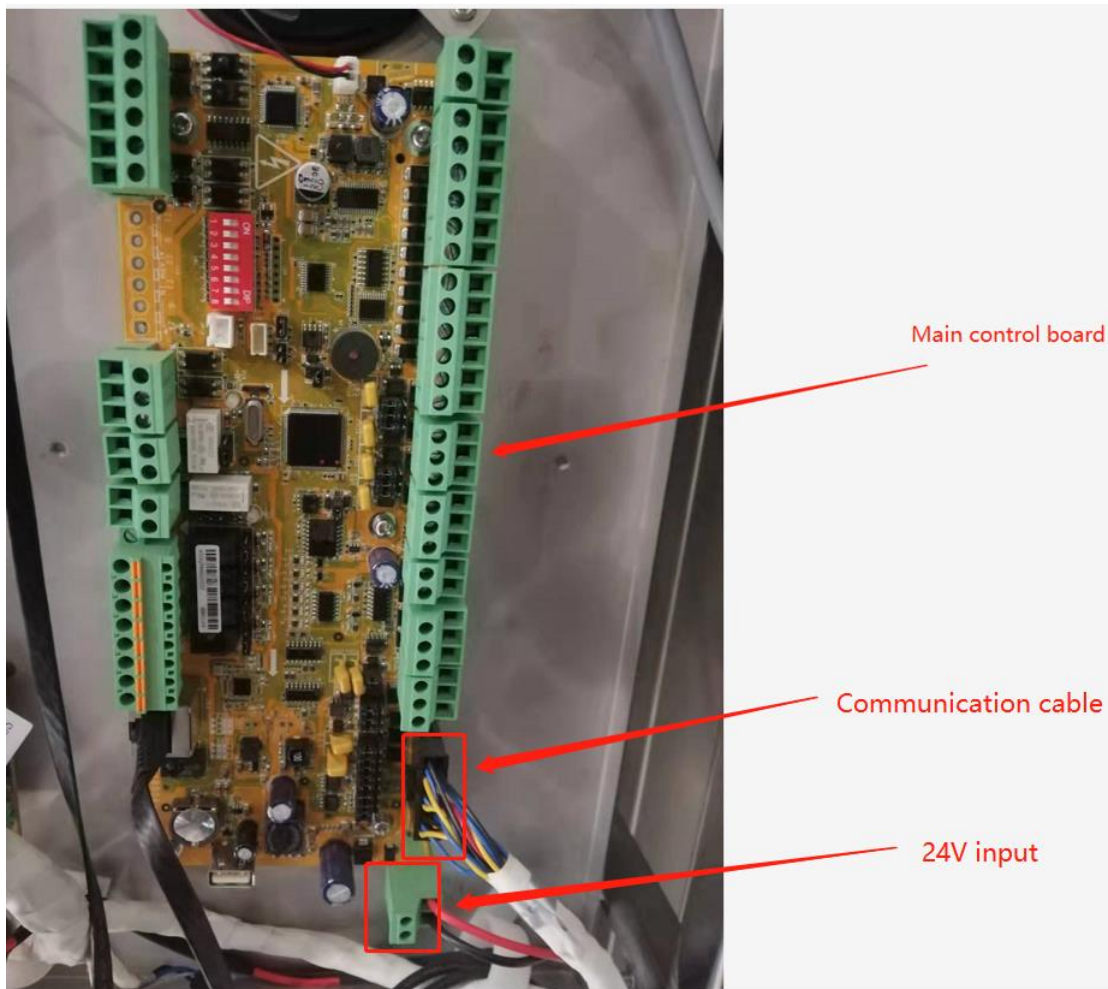

Upper IR Adapter (Right) DIP:1

Lower IR Adapter (Right)DIP:2

Main control board

Main lane board

Physical Components

（2）主控板也称为权限板，可将其看作一块两门的 K2602 门禁控制器主板。

（2）The main control board is also called the authority board, which can be regarded as a two-door K2602 access controller main board.


Components Diagram


Physical Components

（3）主通道板，负责管理电机及其控制器件、红外接入、遥控器、制动器等器件。通过同步线和从通道板连接，协同控制门翼的开关。

（3）The main channel board is responsible for managing the motor and its control devices, infrared access, remote control, brakes and other devices. Through the synchronization line and the slave channel board connection, the opening and closing of the door wing is controlled cooperatively.
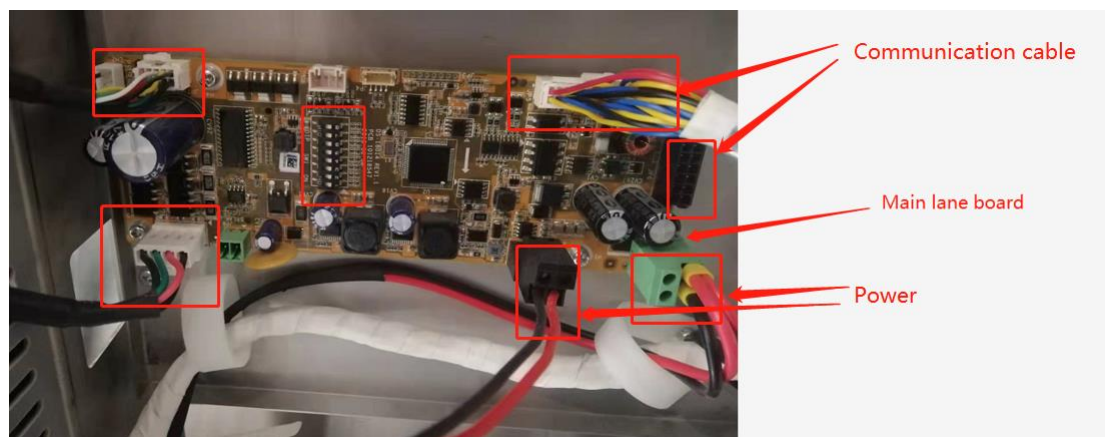

（4）上方红外接收转接板，与右边道上方接收红外灯的通讯，注意拨码为 DIP：1。

（4）The upper infrared receiving adapter board communicates with the receiving infrared light above the right channel. Note that the dial code is DIP: 1.
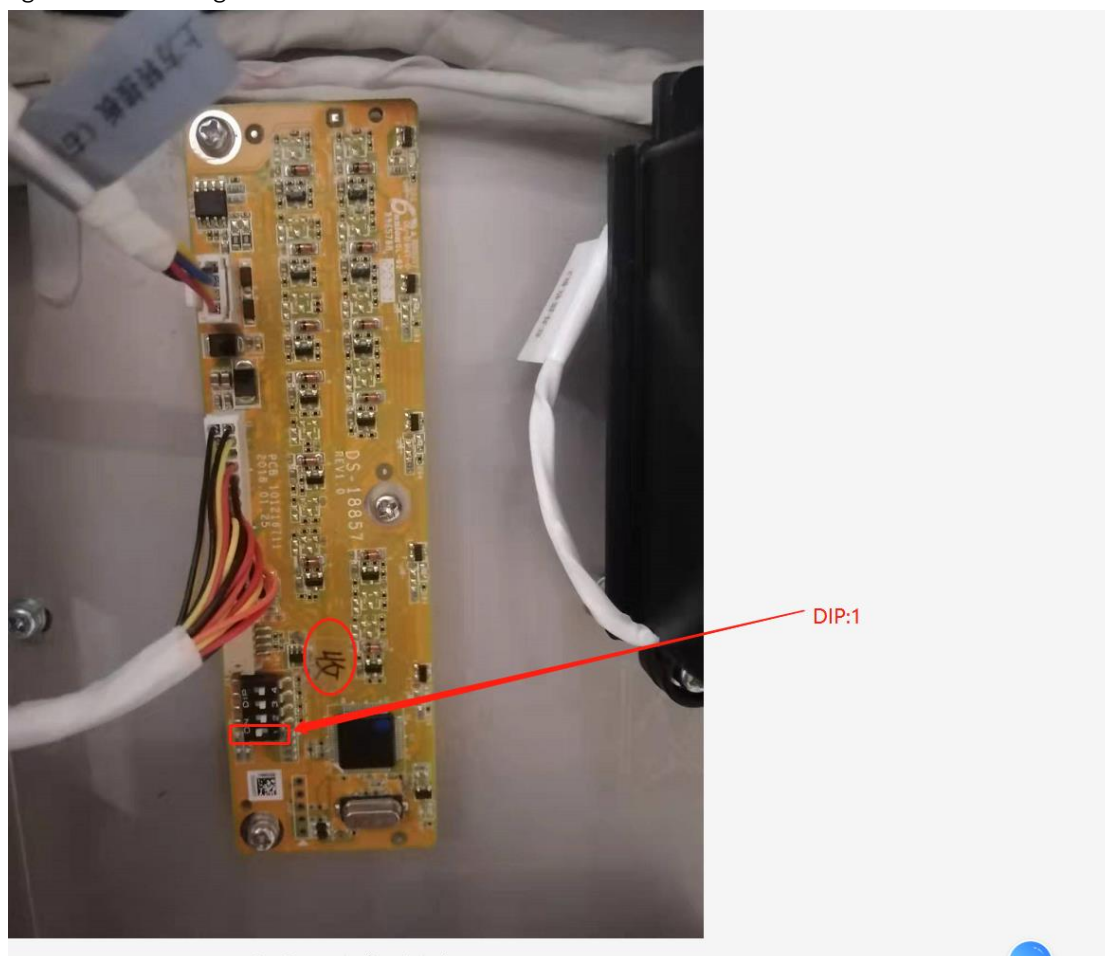

（5）下方红外接收转接板，与右边道下方接收红外灯的通讯，注意拨码为 DIP：2。

（5）The infrared receiving adapter board at the bottom communicates with the receiving infrared light at the bottom of the right channel. Note that the dial code is DIP: 2.
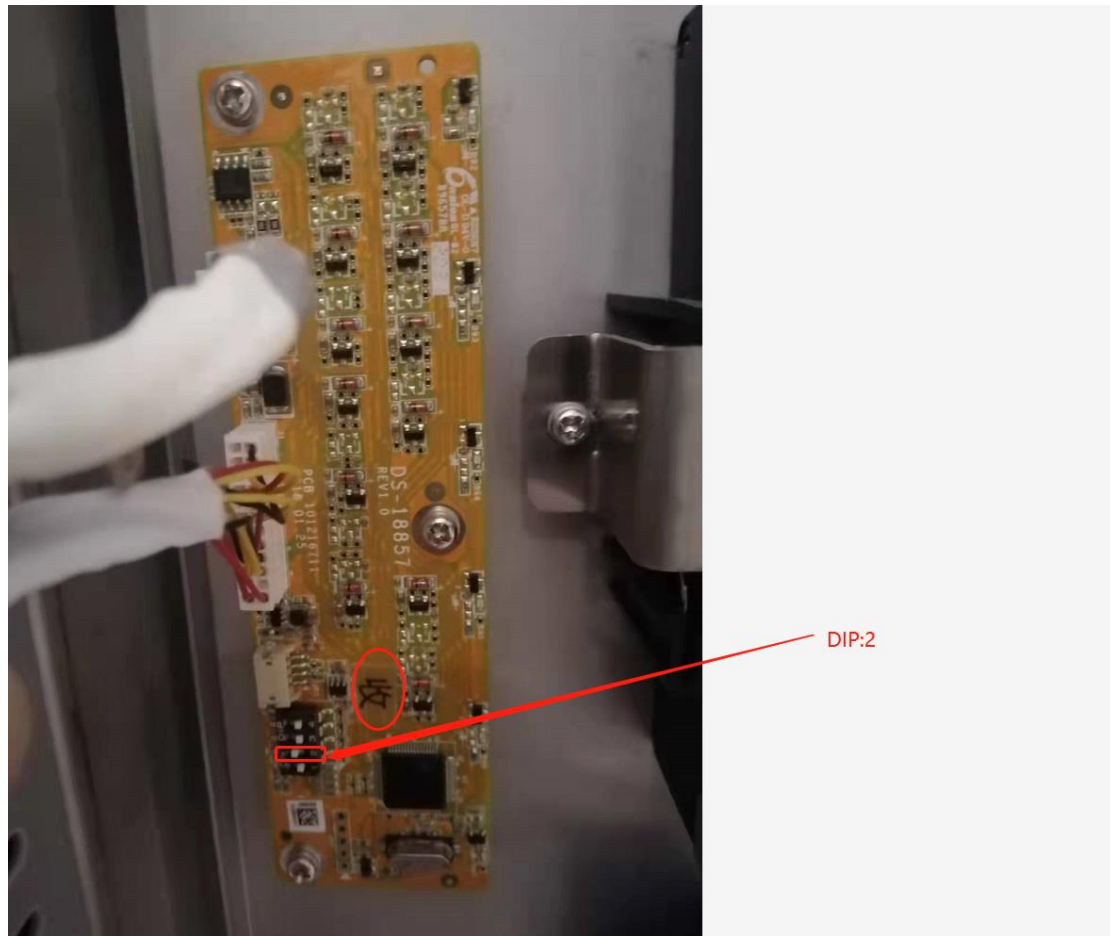
二、 左边道 Left side of the channel（entrance as reference direction）

闸机进方向的左边我们可以称之为左边道，由从通道板、上下发射转接板、上下发射灯板和电源部分组成。

The left side of the gate's entry direction can be called the left channel, which is composed of the channel board, the upper and lower emission adapter boards, the upper and lower emission light boards and the power supply part.
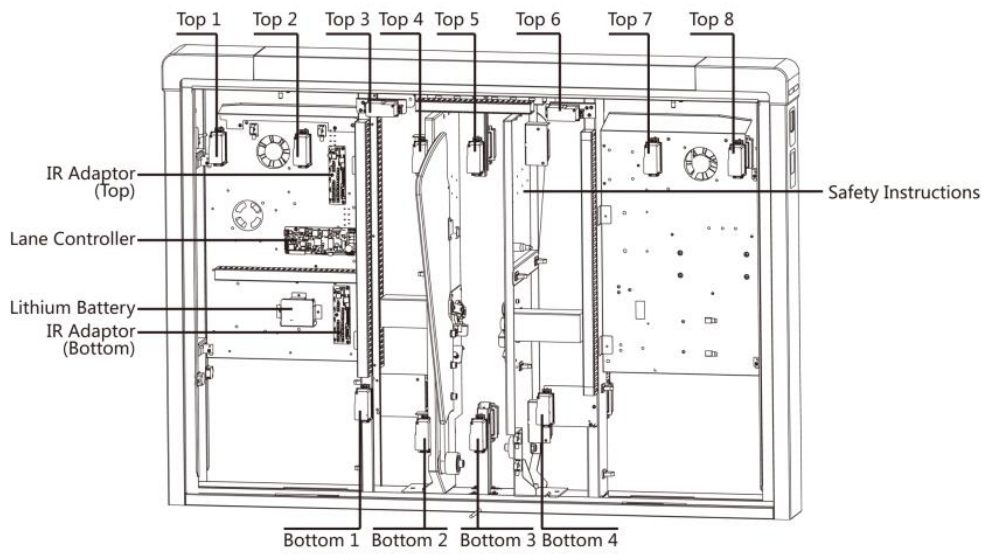
Components Diagram

Physical Components

（1）左边道有上下红外发射转接板、从通道板。注意上发射转接板为 DIP：1，下发射转接板 DIP：2。

（1）The right channel has the upper and lower infrared receiving adapter board, the main board channel board and the permission board. Note that the upper adapter board is DIP: 1, and the lower adapter board is DIP: 2.

Upper IR Adapter (Left) DIP:1

Sub lane board

Lower IR Adapter (Left) DIP:2
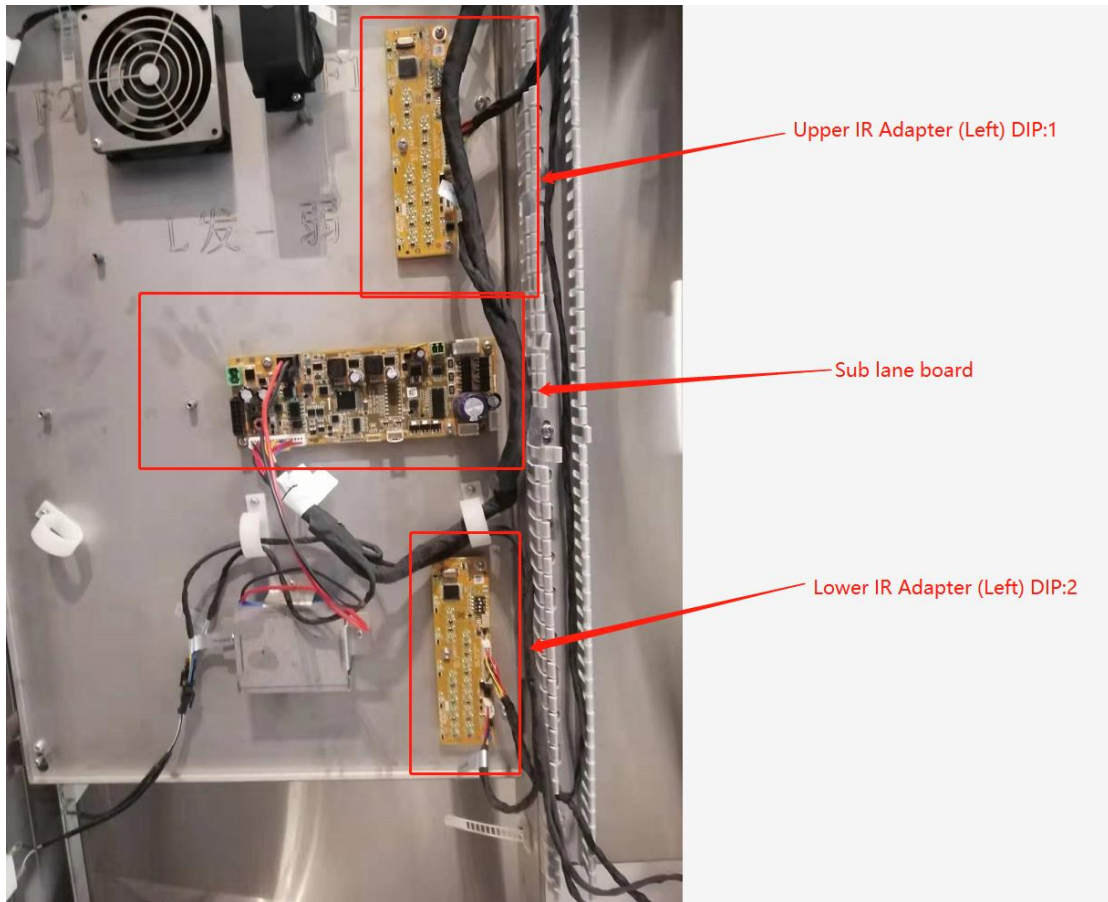
（2）从通道板，负责管理电机及其控制器件、红外接入、遥控器、制动器等器件。通过同步线和主通道板连接，协同控制门翼的开关。

（2）The slave channel board is responsible for managing the motor and its control devices, infrared access, remote control, brakes and other devices. It is connected with the main channel board through the synchronization line to control the opening and closing of the door wing cooperatively.

Slave lane board
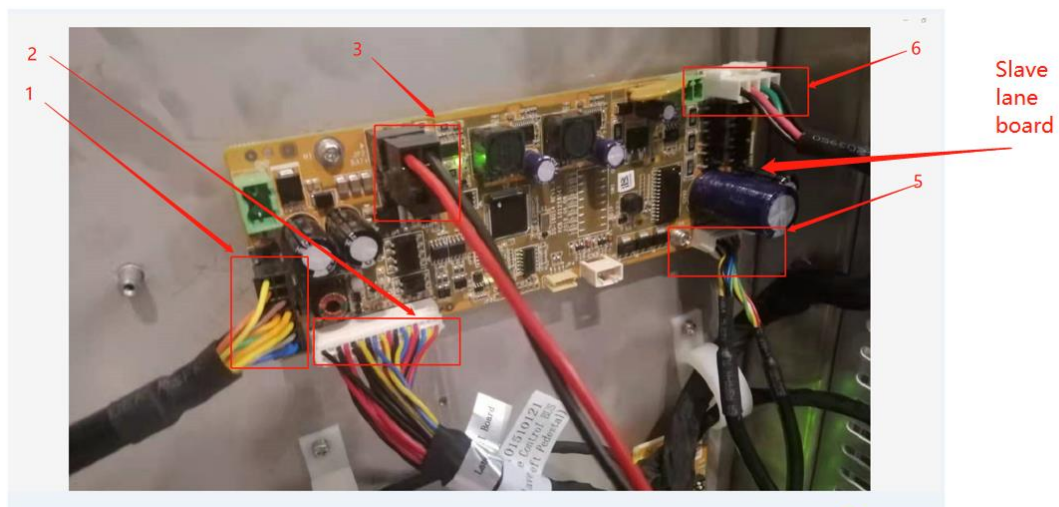
（3）上方红外发射转接板，与右边道上方发射红外灯的通讯，注意拨码为 DIP：1。

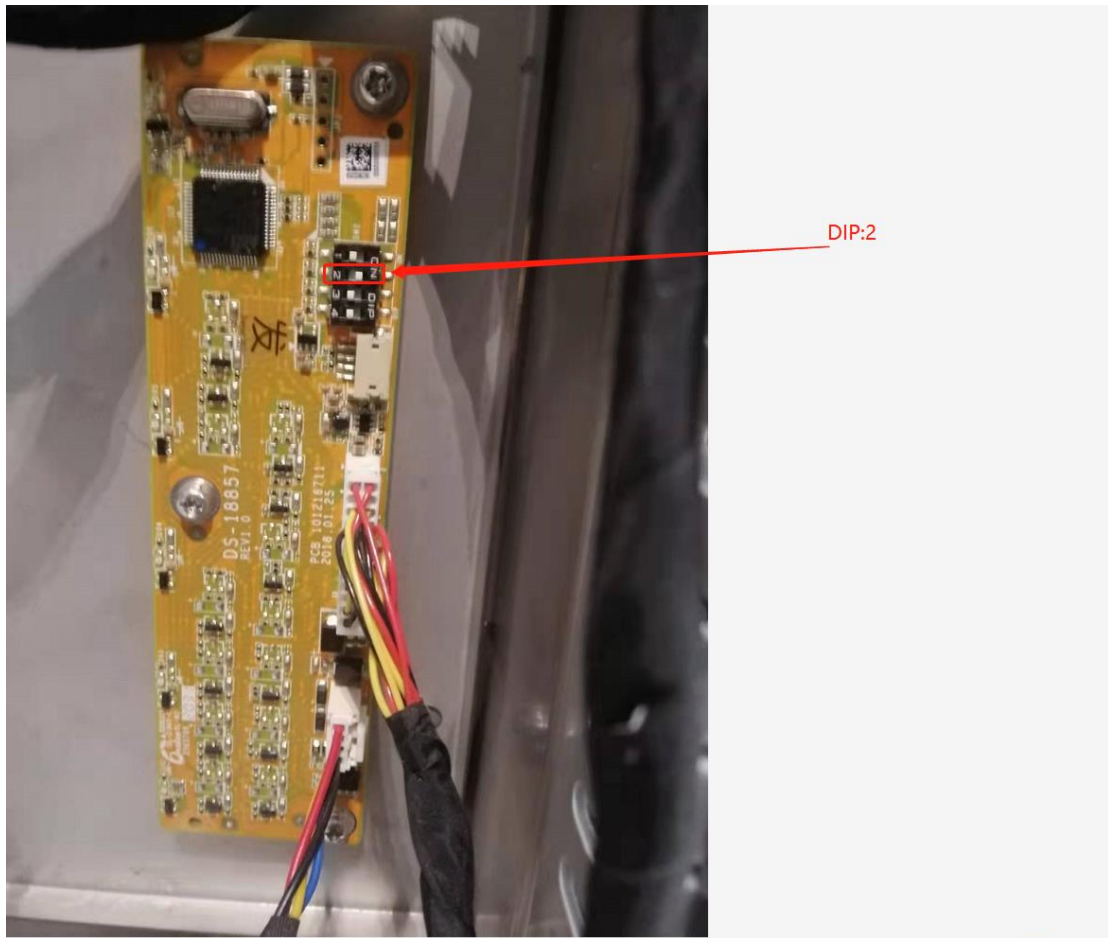（3）The upper infrared emission adapter board communicates with the infrared light emitted

above the right channel. Note that the dial code is DIP: 1.
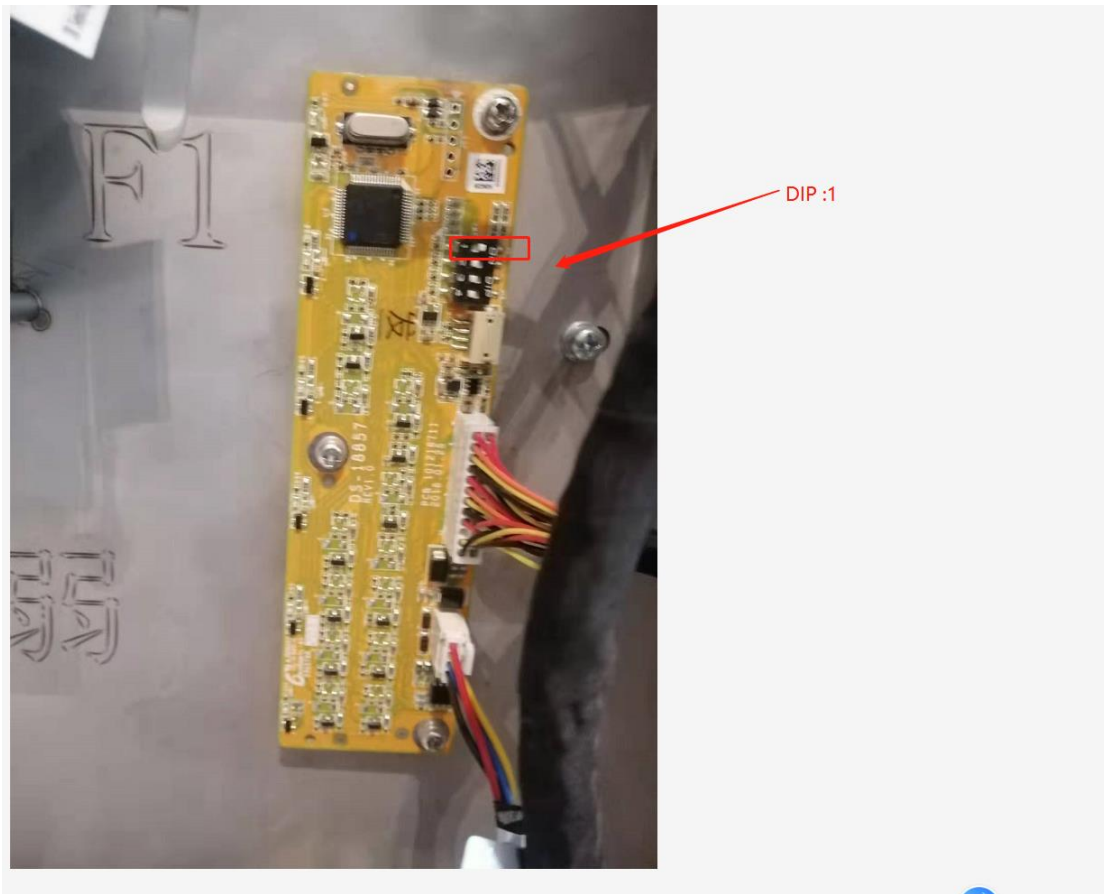
（4）下方红外发射转接板，与右边道下方接收红外灯的通讯，注意拨码为 DIP：2。

（4）The lower infrared transmitting adapter board communicates with the receiving infrared light below the right channel. Note that the dial code is DIP: 2.
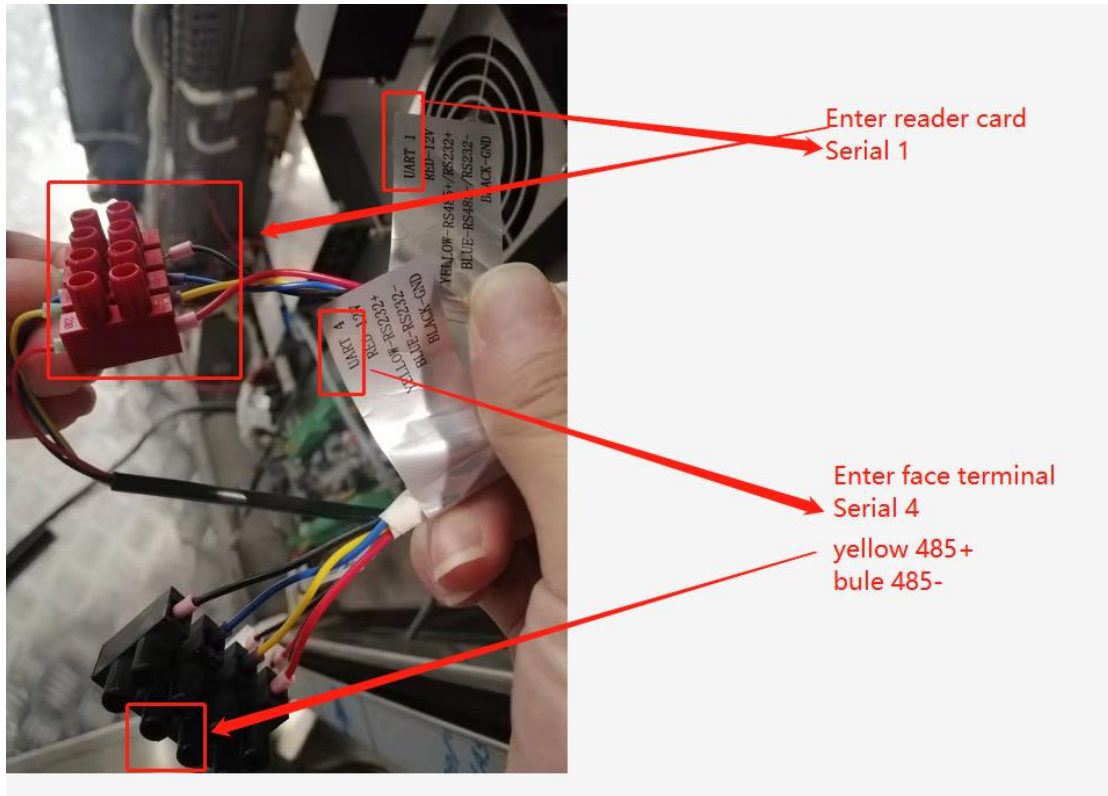
DIP:2

三、外接明眸接线 External Face Terminal Wiring

（1）进方向明眸接线，明眸地址设置为 DIP：2，接到权限板串口拓展端子串口 4 中，需要确认串口 4 为 485 模式而非 232 模式。需要注意，明眸电源需要接到明眸专用电源端子上，不可接在拓展线的电源上。

（1）Into the Mingmu wiring, the Mingmu address is set to DIP: 2, and it is connected to the serial port 4 of the serial port expansion terminal of the authorization board. It is necessary to confirm that the serial port 4 is in 485 mode instead of 232 mode. It should be noted that the Mingmu power supply needs to be connected to the special power supply terminal of Mingmu, and cannot be connected to the power supply of the expansion cable.

（2）出方向明眸接线，明眸地址设置为 DIP：3，接到权限板串口拓展端子串口 5 中，需要确认串口 5 为 485 模式而非 232 模式。需要注意，明眸电源需要接到明眸专用电源端子上，不可接在拓展线的电源上。

(2) For the outgoing direction of Mingmu wiring, the Mingmu address is set to DIP: 3, and it is connected to the serial port 5 of the serial port expansion terminal of the authorization board. It is necessary to confirm that the serial port 5 is in 485 mode instead of 232 mode. It should be noted that the Mingmu power supply needs to be connected to the special power supply terminal of Mingmu, and cannot be connected to the power supply of the expansion cable.

Exit face terminal

Serial 6

yellow : 485+
blue: 485-

Exit reader card
Serial 5
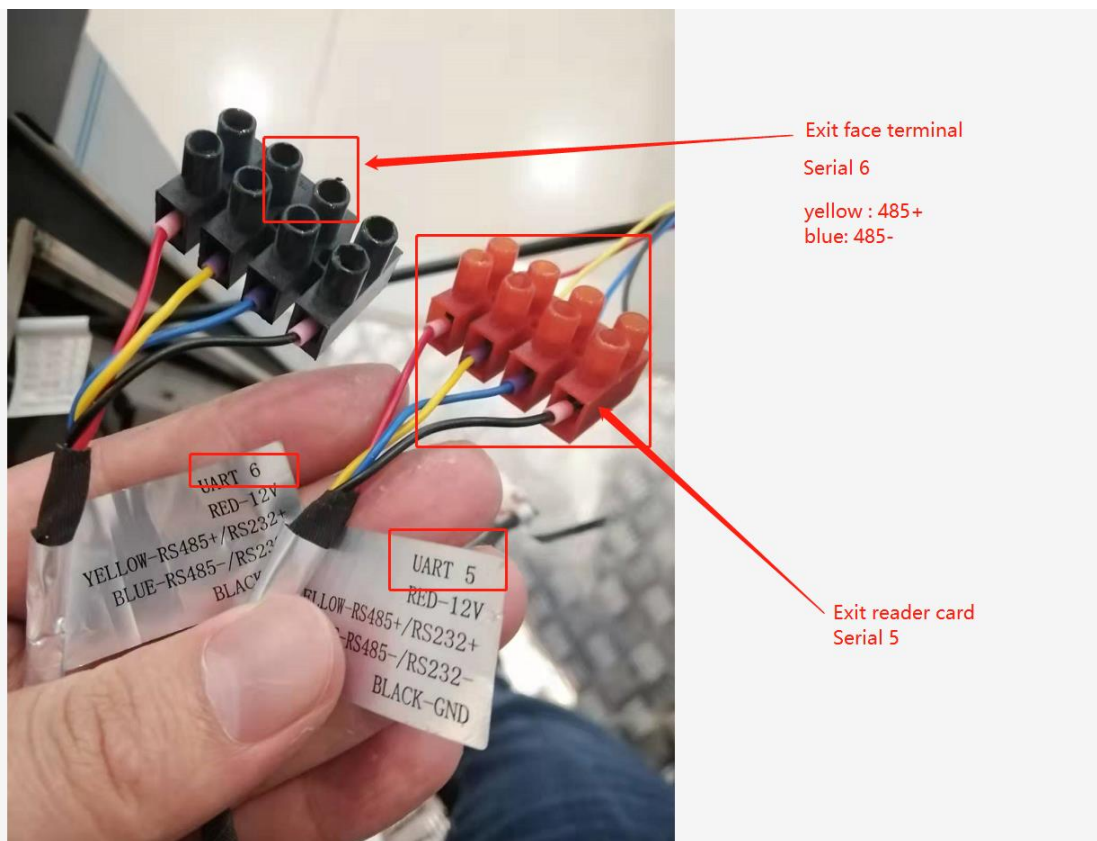
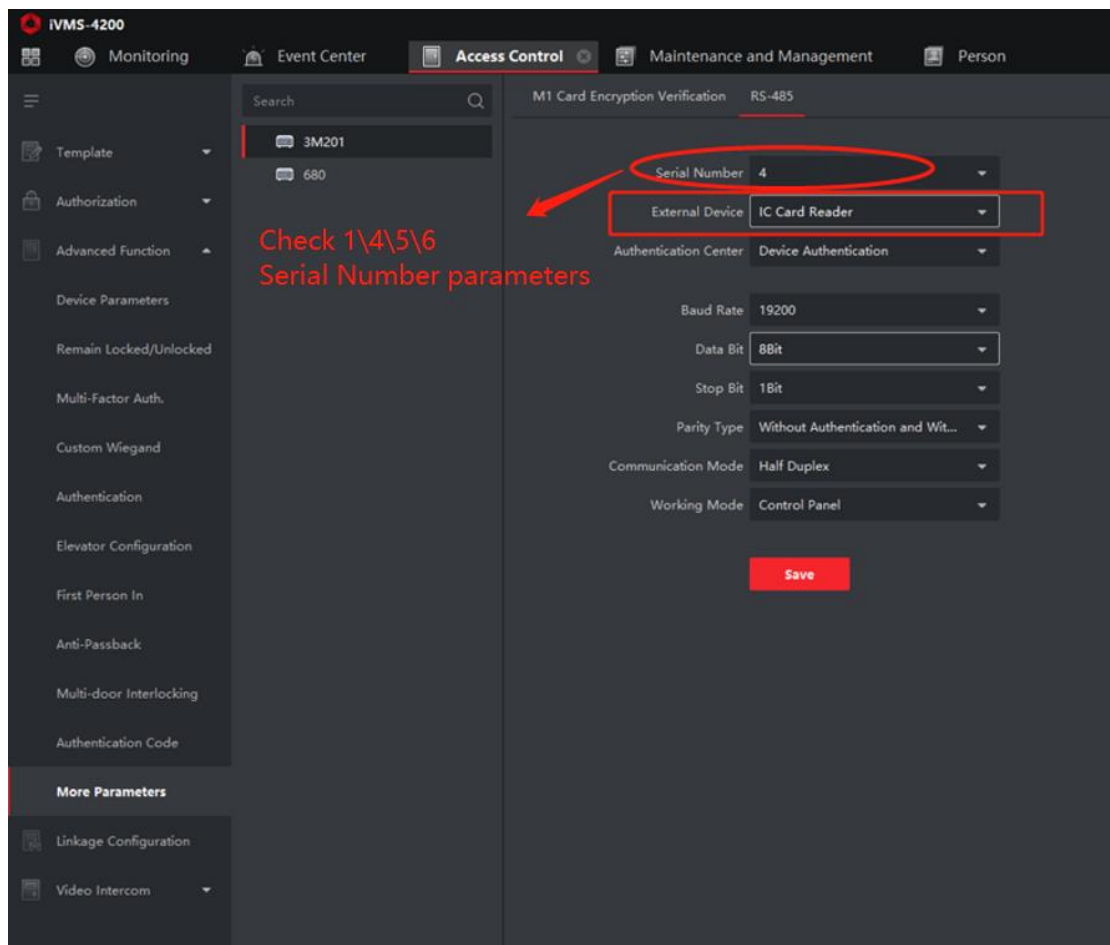**Note：明眸需要接专用的 12V 电源线。 Power cable for face recognition terminal**
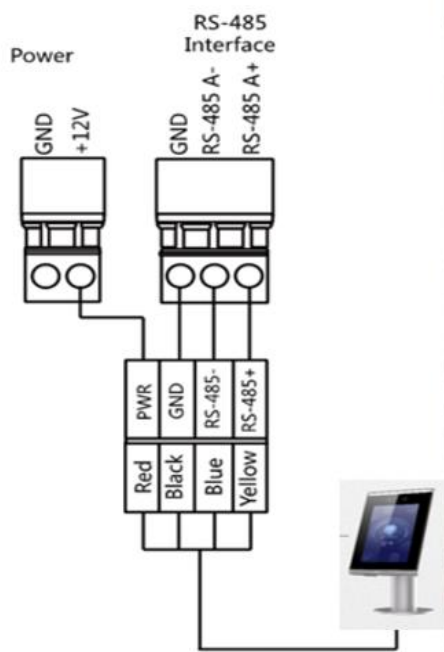
四、4200 configuration

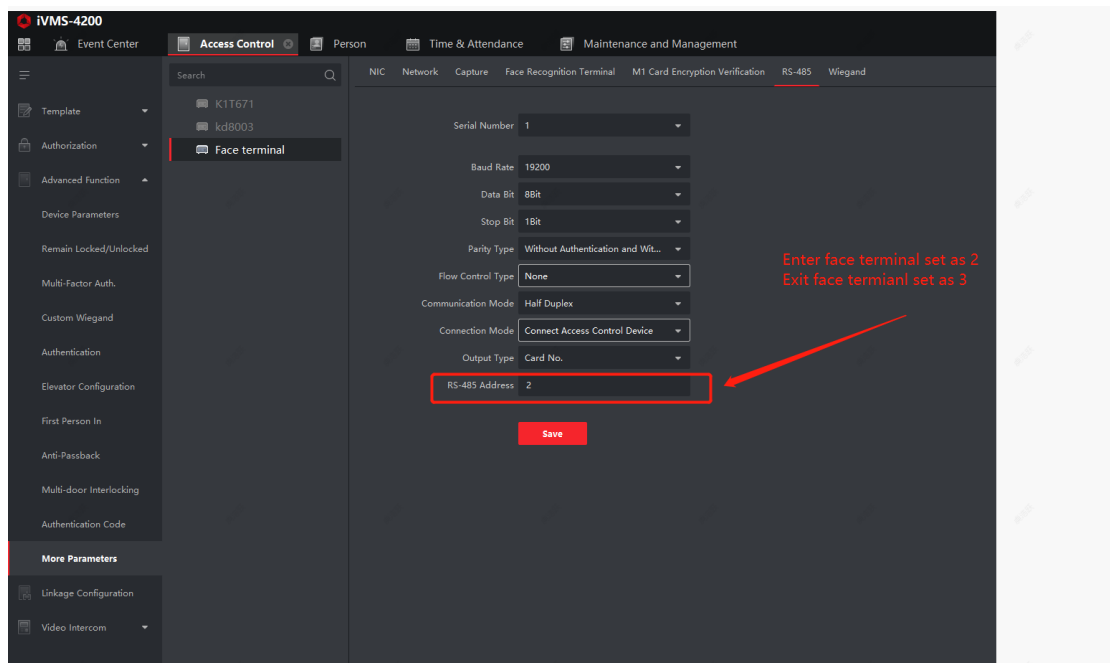（1）将闸机权限板 K3M201 添加至 4200 上，检查串口 1、4、5、6 的 485 参数，需要都设置成如下图所示。

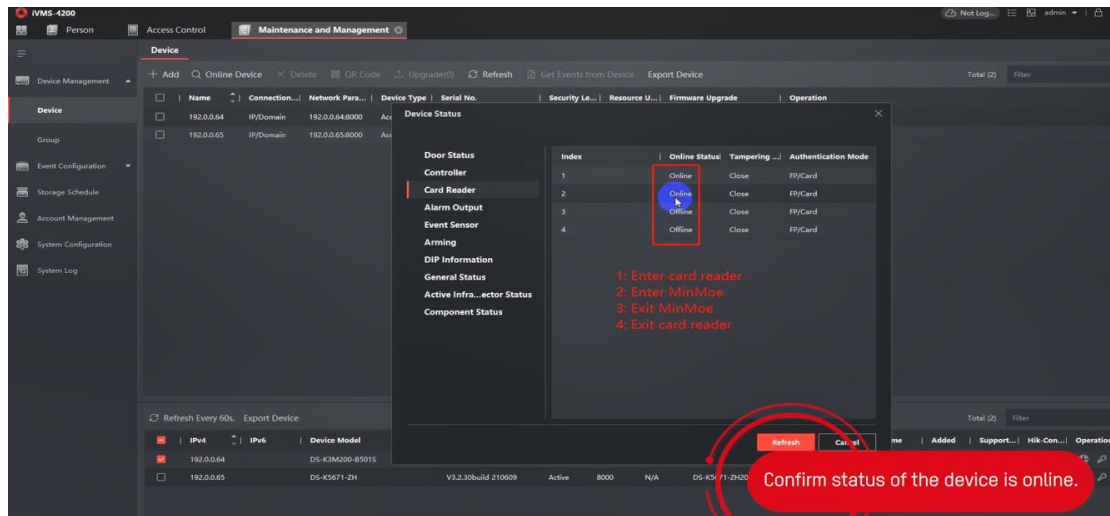(1)　Check serial number 1\4\5\6, using follow configuration parameters.

（2）将外接明眸作为读卡器给闸机使用，通过 485 和闸机权限板通信，也需要设置正确的拨码地址，设置进方向明眸地址为 2，出方向明眸地址为 3。

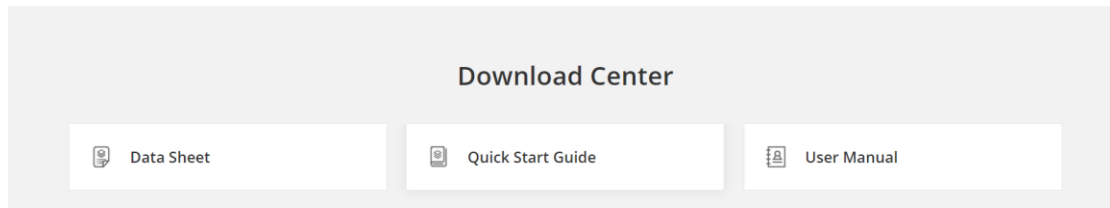（2）Check face terminal configuration, using follow configuration parameters.

（3）如果物理接线和配置无误，可通过 4200 添加权限板后，通过设备状态查看 4 个读卡器的在线情况，如果 4 个都 online，说明接线和配置正常，否则请检查接线和配置。

（3）Confirm status of the reader card and face terminal is online.

Available Material:

https://www.hikvision.com/en/products/Access-Control-Products/Turnstiles/Flap-Barriers/ds-k3y501/ds-k3y501sx/?q=ds-k3y501sx&position=1
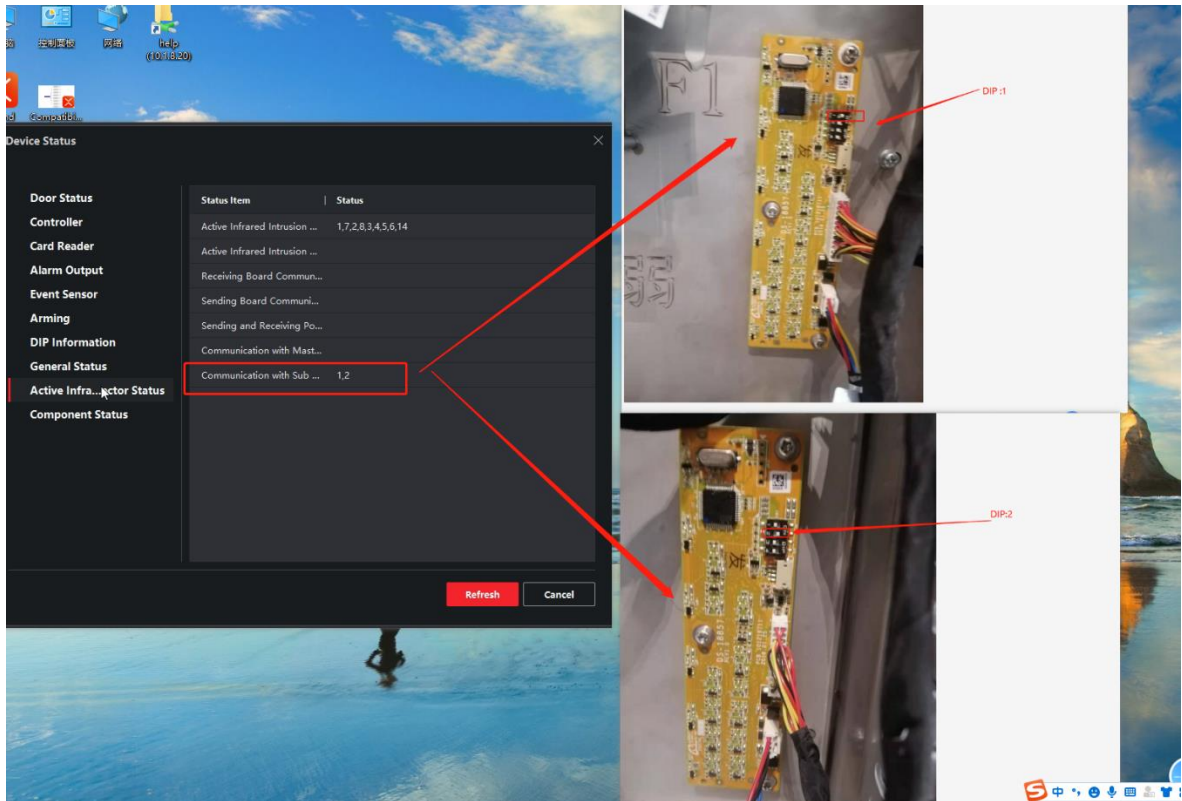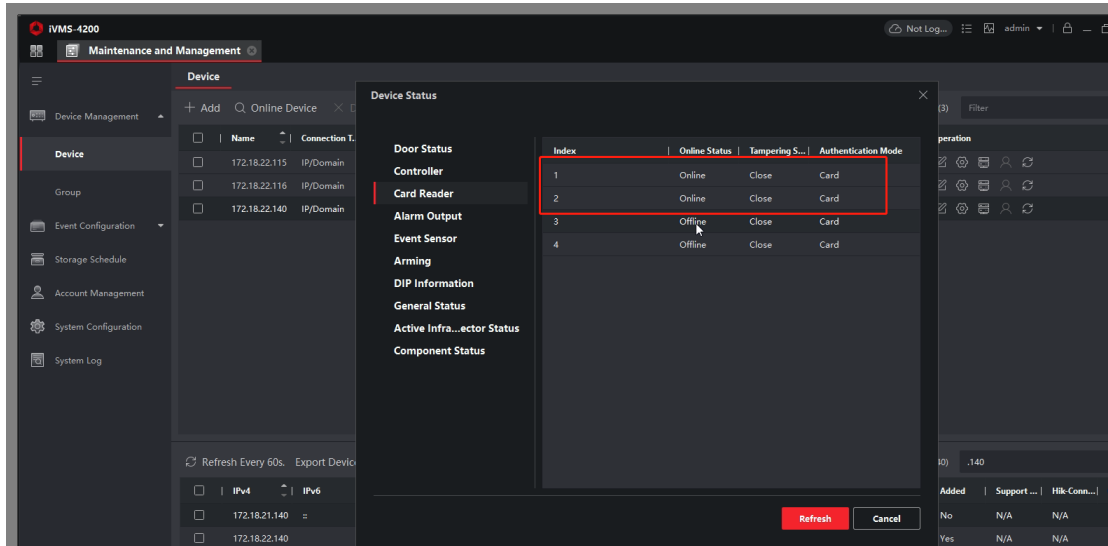

Fault Case

（最后排查是从通道板损坏了，需要更换此块板子）

IP: 116 , check IR Adaptor of sub lane (upper and lower), DIP 1 and DIP 2.

The last check is that the channel board is damaged, and this board needs to be replaced.
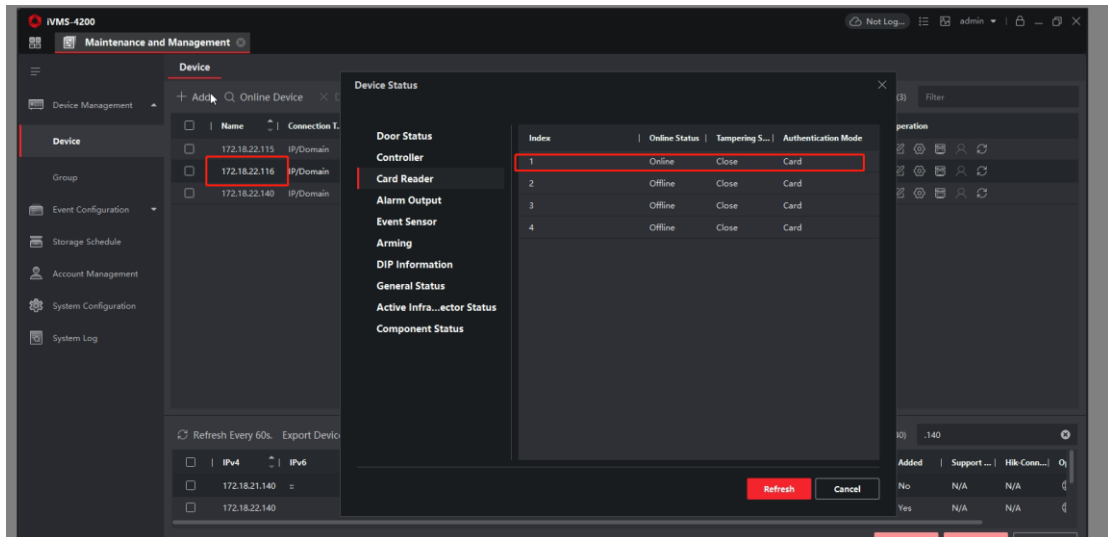
IP：140, enter reader card (index 1) and enter face terminal (index 2) are good, exit card reader (index 3) and exit face terminal (index 4) are offline, check wiring and configuration.

IP：116 enter reader card (index 1) is good, enter face terminal (index 2) and exit card reader (index 4) and exit face terminal (index 3) are offline, check wiring and configuration.

IP：115 enter reader card (index 1) and enter face terminal (index 2) are good, exit card reader (index 3) and exit face terminal (index 4) are offline, check wiring and configuration.