# 如何配置 DS-K3G501 外接明眸、二维码和指纹读卡器 \ How to configure

## MinMoe terminal and QR code reader and fingerprint reader to connect

## DS-K3G501

介绍:基于 DS-K3G501 闸机外接 680 明眸、二维码和指纹读卡器,本文以明眸型号 DS-

K1T680DFG1 V3.2.33 build 210816 、二维码型号 DS-KAB-COVER-PgQ 和指纹读卡器型号 DS-KAB-601COVER-PgF 作为例子。本文适用其他人员通道的权限版接线和配置,可以此 文档作参考。

Introduction: Based on the DS-K3G501 gate, which is connected to the 680 of MinMoe terminal , QR code and fingerprint reader, this article uses the MinMoe terminal model DS-K1T680DFG1 V3.2.33 build 210816, the QR code model DS-KAB-COVER-PgQ and fingerprint reader model DS-KAB-601COVER-PgF as an example. This article is applicable to the wiring and configuration of Main Control Board of other personnel channels, and this document can be used as a reference.





## 一、接线 wiring

第一步: 首先根据闸机主控板(权限板)的485/232 接口对应将外接明眸、二维码和指纹读 卡器进行接线。DS-K3G501 使用的是 DS-K3M201-501-G 主控板(权限板),图1为示意图, 图 2 和图 3 为实物接线图,根据实物图进行接线。

Step 1: First, connect the external MinMoe terminal, QR code and fingerprint reader according to the 485/232 interface of the main control board (authorization board) of the gate. DS-K3G501 uses DS-K3M201-501-G main control board (authorization board), Figure 1 is a schematic diagram, Figure 2 and Figure 3 are physical wiring diagrams, wiring according to the physical diagram.



图1主控板(权限板)示意图

Figure 1 Diagram of the main control board (authorization board)



图 2 实物接线图

Figure 2 Physical wiring diagram



### 图 3 实物接线图

#### Figure 3 Physical wiring diagram

备注:外接2个明眸可以接在同一个485串口上,一般选择串口6或者串口4。务必将明眸 端的RS485 配置一个改为地址2(读卡2出),一个改为地址3(读卡器3进)。外接二维码 模块默认选择232串口7,外接指纹模块默认选择232串口3,然后一起接5V电源给其供 电。

Remarks: two external MinMoe terminal can be connected to the same 485 serial port, generally choose serial port 6 or serial port 4. Be sure to change one of the RS485 configuration of the external MinMoe terminal to address 2 (reading card 2 out), and one another changing to address 3 (card reader 3 in). The external QR code module selects 232 serial port 7 by default, and the external fingerprint module selects 232 serial port 3 by default, and then it is connected to a 5V power supply to supply power.

#### 二、配置 configuration

第一步:明眸端配置,将 680 明眸和闸机权限板 DS-K3M201-501-G 添加到 4200 后,进入 access control->more parameters->RS-485 界面进行配置。

Step 1: Configuration of the MinMoe terminal, add the 680 MinMoe terminal and the gate authority board DS-K3M201-501-G to 4200, and enter the access control->more parameters->RS-485 interface to configure.

Name	Connection	Network Para	Device Type	Serial No.	Security Le	Resource U	Firmware Upgrade	Operation	
3M201	IP/Domain	10.9.96.251:8000	Access Cont	DS-K3M201-501-G202004	Weak	🤣 Online	No available version		
680	IP/Domain	10.9.96.22:8000	Access Cont	DS-K1T680DFG120210816	Weak	🤣 Online	No available version		

## 1、 权限板的二维码读卡器配置,选择串口7,参数配置如下图。

1. Configuration of the authorization board For the QR code reader, select the serial port 7, and the parameter configuration is as shown below.



2、 权限板的指纹读卡器配置,选择串口 3,参数配置如下图。

2. Configuration of the authorization board for the fingerprint reader, select the serial port 3,

and the parameter configuration is as shown below.

٥	iVMS-4200			
88	Monitoring	📩 Event Center 📃 Acces	s Control 💿 📰 Maintenance a	and Management 📃 Person
Ξ		Search Q	M1 Card Encryption Verification	RS-485
	Template 👻	🗐 3M201		
~		<b>680</b>	Serial Number	
	Authorization 👻		External Device	Fingerprint Reader 🔹
	Advanced Function 🔺		Authentication Center	Device Authentication 👻
	Device Parameters		Direction	🖲 Enter 🔿 Exit
			Baud Rate	115.2k -
	Remain Locked/Unlocked		Data Bit	8Bit 👻
	Multi-Factor Auth.		Stop Bit	1Bit 👻
	Custom Wiegand		Parity Type	Without Authentication and Wit 👻
			Communication Mode	Half Duplex 👻
	Authentication		Working Mode	Control Panel 👻
	Elevator Configuration			
	First Person In			Save
	Anti-Passback			
	Multi-door Interlocking			
	Authentication Code			
	More Parameters			

3、 权限板的 680 明眸配置,选择串口 4,参数配置如下图。

3. For the configuration of 680 MinMoe terminal on the authorization board, select the serial

port 4, and the parameter configuration is as shown below.

0	iVMS-4200							
88	Monitoring	📺 Event Center	Access	s Control 💿 [	Maintenance a	and Management 🛛 🗾 🖡	Person	
			Q	M1 Card Encry	ption Verification	RS-485		
2	Template 👻	📖 3M201						
		<b>680</b>			Serial Number			
Ċ	Authorization 🝷				External Device	IC Card Reader	•	
	Advanced Function 🔺			A	uthentication Center	Device Authentication	•	
	Device Parameters				Baud Rate	19200		
	Remain Locked/Unlocked				Data Bit (	8Bit	•	
	Multi-Factor Auth.				Stop Bit	1Bit		
	Custom Wiegand				Parity Type	Without Authentication and Wit		
	custom Wiegund				ommunication Mode	Half Duplex		
	Authentication				Working Mode	Control Panel		
	Elevator Configuration							
	First Person In					Save		
	Anti-Passback							
	Multi-door Interlocking							
	Authentication Code							
	More Parameters							
	Linkage Configuration							
	Video Intercom 👻							

4、 明眸端的 RS-485 配置,参数配置如下图。

4. The RS-485 configuration of the MinMoe terminal, the parameter configuration is as shown in below.

88	Monitoring	🖄 Event Center	Control 💿 📰 Maintenance a	and Management 🔤 Person	
=		Search Q	NIC Network Capture Fac	e Recognition Terminal M1 Card Encry	ption Verification RS-485 Wiegand
7		□ 3M201	Serial Number		
₿	Authorization 👻				
	Advanced Function		Baud Rate Data Bit	19200 •	
			Stop Bit	1Bit -	
	Remain Locked/Unlocked		Parity Type	Without Authentication and Wit 👻	
	Multi-Factor Auth.			None 👻	
	Custom Wiscand		Communication Mode	Half Duplex 👻	
			Connection Mode	Connect Access Control Device 👻	
	Authentication		Output Type	Card No. 👻	
			RS-485 Address		
				Save	
	Multi-door Interlocking				
	Authentication Code				
	More Parameters				
	Linkage Configuration				
	Video Intercom 👻				

备注:如果外接 2 个明眸设备,明眸端一个 485 地址设置为 2,另一个要设置为 3。 Special attention: if there are two connected devices, one of the 485 addresses of the MinMoe terminal should be set to 2, and the one anther should be set to 3.

5、如果明眸 485 接权限板的串口 6, 需要如下参数配置, 明眸端的参数配置可以不用改变。

5. If the MinMoe terminal 485 is connected to the serial port 6 of the authorization board, the following parameter configuration is required, and the parameter configuration of the MinMoe terminal does not need to be changed.

٩	iVMS-4200						
	Monitoring	📺 Event Center	Access	Control 💿	🔄 Maintenance a	and Management 📃 🛛	Person
			Q	M1 Card E	ncryption Verification	RS-485	
	Template 👻	🚍 3M201					
		680			Serial Number	6	<u> </u>
	Authorization •				External Device	IC Card Reader	
	Advanced Function 🔺				Authentication Center	Device Authentication	
	Device Parameters				Baud Rate	19200	
	Remain Locked/Unlocked				Data Bit	8Bit	
	Multi-Factor Auth.				Stop Bit	1Bit	
					Parity Type	Without Authentication and Wit	
	Custom Wiegand				Communication Mode	Half Duplex	
	Authentication				Working Mode	Control Panel	
	Elevator Configuration						
	First Person In					Save	
	Anti-Passback						
	Multi-door Interlocking						
	Authentication Code						
	More Parameters						

### 三、检查外接明眸状态 Check the status of the MinMoe terminal

在已添加的闸机权限板 DS-K3M201-501-G 中点击 , 查看设备状态, device status->card reader 检查外接明眸是否为 online。如果不在线, 请检查接线、明眸读卡器和 权限板参数配置。

Click in the added gate authority board DS-K3M201-501-G to check the device status, device status->card reader to check whether the MinMoe terminal is online. If it is not online, please check the wiring, parameter configuration of the MinMoe terminal card reader and the authorization board.

0	iVMS-4200	🖲 Ma	nitoring	Access C	ontrol 📰 Mainten	ance and Mai	nagement 🖸	Person						ØN	ot Log 🗄	E 🗄 admin	• •
=		Device															
en																	
	Device		Name	Connection)	Network Parameters	Device Type		Serial No.			Security Le	Resource U	L. Firmware	Upgrade	1 05	eration	
		1	3M201	IP/Domain	10.9.96.251:8000	Access Contro	oller	DS-K3M201-501-G20200422V0	10000ENF921179		Weak	🥝 Online	No avai	lable version			
		1.9			10.9.96.22:8000			DS-K1T680DFG120210816V030		3	Weak	Orline					
e					Device Status	,-	-										
-					Door Status		Index	Online Status	Tampering	Authenticatio	on Mode						
2					Controller	1											
	Contrast Conferencies				Card Reader				Close	Card							
~					Alarm Output												
					Event Sensor												
					Arming												
					Constal Status												
					Component State												
					component state	•											
																680	
			IPv4	CI IPv6									Boot Time	Added	Support.	Hik-Con	. •
			10.9.95.3	fd20:2fe1:20								7AAWRF6					
									Re	fresh	Cancel						

# 四、下发人员 Issuing staff

第一步: 4200 注册人员的人脸、卡号和指纹。

Step 1: the face, the card number and fingerprint of the registered person on the 4200.

O IVMS-4200										
188 🙍 Ev	rent Center 🛛 🥘	Monitoring		trol 📳	Maintenance and Manage	ement 📃 Perso	n O			
+ Add								Edit Person		
Select								Basic Information		
C Show Person								Person		
III New Or										
*								- Na	me_test	
									der 🖲 Male 🔘 Female	
										and the second second
									rol) 2000-01-01 06:00:00-2037-12-31 23:59:5	9 🖽 Extend
								TCredential		
								Card		
								131395910		
								Normal Caro		
								FP		
								101 6		
								Normal Fingers		
								20	<b>"</b> ]	
								h Arrest Control		
								, Access Condu		
								Resident Information		
									Cancel	

第二步:下发人员到明眸 680 和权限板 DS-K3M201-501-G。

Step 2 : Distribute personnel to the 680 MinMoe terminal and Main control Board DS-K3M201-501-G.

٢	iVMS-4200								(C) N	ot Log	Ξ 🖾 admin 🕶   台 _	- 0
88	📺 Event Center	Monitoring	Access Control 📀	Maintenance and Managem	ient 📃 Person							
=			R Apply All to Device		Applying Status			P	erson			
7		💆   Name ț	Template   Number	Access Co  Status   Operation	n				Name 🗍 Pe	rson ID	Organization	
~												
	Access Group											
B												
18												
						Applying Status						
						obbiling status						
						Input the device name	 Ç   Progress	Result	Re	mark		
						Input the device name. Name 3M201	 Ç   Progress 100%	Result	j Res	mark tails		
						Input the device name. Name 3M201 680		Result All applies All applies	i Rei i. De	mark tails tails		
						Input the device name. Name 3M201 680	 Ç   Progress 100% 100%	Result All applies	i Res L Da	mark ttails ttails		
						Input the device name.		Result All applies All applies	1 Rei 8. Da 8. Da	mark etails etails		
						Input the device name.		Result All applies All applies	i Rec 5. De	mark tails tails		
						Input the device name. Name 3M201 680	-	Result All applie All applie	i Re 4 Da	mark tails tails		
						Input the device name	-	Result All applie All applie	l Res A Da	mark tails		
						Input the device name Name 3M201 680	- <sup>(2)</sup> Progress 100% 100%	Result All applie All applie	l Res L Da	mark tails tails		
						Input the device name. Name 3M201 660	- () Propress 100% 100%	Result All applie	i Re E De	mark tails tails		
						Input the device name. Name 3M201 680	- () Propess 100% 100%	Result All applie	i Res	mark tails tails		



From the real-time event center, you can see the authentication record of Fingerprint & QR code & MinMoe terminal.

- 1、外接指纹认证事件,如下图。
- 1. External fingerprint authentication event, as shown below.

🔱 iVMS-4200						🙆 Not Log 🗄 🔯 admin 🕶 🛛 🛆	- @ ×
🔠 🙍 Event Center 💿	🕘 Monitoring 📗 Access Control 📓 Maintena	ince and Management 🛛 🧾 Pers					
=	Device Type 🖉 Encoding 🔀 Security Co 🕺 Video Inter 🛒 🖉 Show Priority 💆 High 💆 Medium 💆 Normal 💆 L						
Real-time Event							
Event Search	Index   Event Source	Event Type	1 Event Time	Priority	Event Details	Status	
				Uncategorized		▲ Unacknowledged	
		Normal Card Authentication Passed		Uncategorized	Entrance Card Reader1	▲ Unacknowledged	

如报错: No Permission for Normal Card, 检查一下认证方式是否有指纹认证权限。

If an error is reported: No Permission for Normal Card, check whether the authentication method has fingerprint authentication permission.



	iVMS-4200	Monitoring	s Control	🛛 😨 Mai	ntenan	ice and Man	agemei	۱t	🔳 Pe	rson								4
			Card	Reader Auth	enticat	ion												
Þ		✓																
⊜		🚰 Exit Card Reader2		Card		Card+PIN		FP			P+Card							
		Entrance Card Reader3		FP/Card														
		<ul> <li>Exit Card Reader4</li> <li>680</li> </ul>																
				0 Mon	2	4 6	8	10	12	14	16	18	20	22	24			
				0 Tue	2	4 6	8	10	12	14	16	18	20	22	24			
				Wed	2	4 6	8	10	12	14	16	18	20	22	24			
	Authentication			Thu	2	4 6	8	10	12	14	16	18	20	22	24			
				Fri 🚺	2	4 6	8	10	12	14	16	18	20	22	24			
	First Person In			0 Sat	2	4 6	8	10	12	14	16	18	20	22	24			
	Anti-Darchards			Sun 🗧	2	4 6	8	10	12	14	16	18	20	22	24			
	Multi-door Interlocking																	

- 2、外接二维码认证事件,如下图。
- 2. External QR code authentication event, as shown below.

O IVMS-4200						
🗄 🙍 Event Center 💿	🐵 Monitoring 📄 Access Control 📓 Mainte	nance and Management 🛛 🗾 Per	son			
=	Device Type 💆 Encoding 🦉 Security Co 🕺 Video Inter 🖉	🛛 Access Con 🞽 Storage De 💆 Hik- Uncate	Conne 🙎 Security Ra 🙎			
A Real time Event						
Event Search	🗌   Index   Event Source	Event Type	1 Event Time	Priority	Event Details	Status
	2 Access Control Device:3M201 Door1	Door Unlocked	2021-09-08 17:52:14	Uncategorized	Door1	Linacknowledged
				Uncategorized		Linacknowledged
, in the second s						

- 3、外接明眸认证事件,如下图。
- 3. The external MinMoe terminal authentication event is as shown in the figure below.

😝 iVMS-4200 📰 📺 Event Center 🛇	Monitoring Access Control I Mainten	ance and Management 📃 Person			
=	Device Type <table-cell> Encoding 🥃 Security Co <table-cell> Video Inter 🜌 Show Priority 💆 High 💆 Medium 💆 Normal 💆</table-cell></table-cell>		. 🧧 Security Ra 🦉 DeepinMin		
🖄 Real-time Event					
Event Search	Index   Event Source	Event Type	Event Time   Priority	Event Details	Status
			2021-09-08 17:54:30 Uncategorized		A Unacknowledged
ſ	2 Access Control Device:3M201 Exit Card Reader2	Normal Card Authentication Passed	2021-09-08 17:54:30 Uncategorized	Exit Card Reader2	▲ Unacknowledged
	Access Control Device:680 Entrance Card Reader1	Normal Card Authentication Passed	2021-09-08 17:54:30 Uncategorized	Entrance Card Reader1	▲ Unacknowledged
				911	2090495454121),1810 <u>191</u>
VMS-4200	Monitoring     Access Control     Mainte     Device Type      Encoding     Xecurity Co     Video Inter	nance and Management 🛛 🗃 Person 🎖 Access Con 💆 Storage De 🔀 Hik-Conv	e 💆 Security Ra 💆 DeepinMin		⊘ NotLog_ ⊞ & admin •   ⊖ _ O ×
(b) Real Since Frank	🛛 🦉 Show _ Priority 🕺 High 🞴 Medium 🐸 Normal 😫				
In Martine Cont					
Event Search	Index   Event Source	Event Type	Event Time   Priority	Event Details	Status
			2021-09-08 17:47:59 Uncategorized		Unacknowledged
1			2021-09-08 17:47:59 Uncategorized		Unacknowledged
	1 Access Control Device:680 Entrance Card Reader1	Normal Card Authentication Passed	2021-09-08 17:47:58 Uncategorized	Entrance Card Reader1	A Unacknowledged

附录:明眸认证,闸机不认证接线和配置

Appendix: wiring and configuration about MinMoe terminal certification, turnstiles are not certified.

1、接线:明眸的 LOCK 标签中 NO 和 COM 对应接权限板的出门按钮接口 buutton1 和 COM 或者 buutton2 和 COM。Button1 表示门 1 开关, Button2 表示门 2 开关。

 Wiring: NO and COM in the LOCK label of MinMoe terminal correspond to buutton1 and COM or buutton2 and COM of the exit button interfaces of the authorization board.
 Button1 represents the door 1 switch, Button2 represents the door 2 switch.



出门按钮接口示意图

Diagram of exit button interface



接门2开关实物图

The physical picture of the door 2 switch

- 2、下发: 仅需要 680 下发人员, 闸机不做认证。(略)
- 2. Issued: Only 680 delivery personnel are required, and the gates are not certified. (Omit)
- 3、认证: 680 刷卡认证通过, 对应闸机出门按钮按下, 门 2 打开, 如下图。
- 3. Authentication: 680 swiping card authentication is passed, the corresponding gate exit button is pressed, and door 2 is opened, as shown below.

O IVMS-4200							
🔛 🙆 Event Center 💿	Monitoring	g 📕 Access Control 📓 Mai	ntenance and Management	Person			
=	Device Type 🕺 Encoding 💆 Security Ca 💆 Video Inter 💆 Access Con 🖉 Storage De 🖉 Hik-Conne 👹 Security Re 💆 Despirition						
(d) Real time Event	Show Priority 🕺 High 💋 Medium 🙀 Normal 😻 Uncate						
Event Search	I Index	Event Source	Event Type	Event Time	Priority	Event Details	Status
					Uncategorized		🛕 Unacknowled
					Uncategorized		🛕 Unacknowled
_					Uncategorized		
L	0 3	Access Control Device:680 Entrance Card Read	Normal Card Authentication Passed	2021-09-08 21:36:00	Uncategorized	Entrance Card Reader1	🔔 Unacknowled
		Access Control Device:3M201 Door2	Door Unlocked	2021-09-08 21:37:08	Uncategorized		Linacknowled
					Uncategorized		🛕 Unacknowled
	メオポサイト1約1817下, 1月10日77 - 1月10日72 - 外480月1840,383895						
	Event Details					Send t	Imail Handle Hide 🗸
	Video	🧧 Auto-P	lay Video Picture		Event Details	Handling records	

备注:

 1、目前详细的单项外接明眸、外接二维码、外接指纹模块 How to 文档已有,可进行具体 接线、配置参考。文档可在 HiKnow 上进行搜索查看。

https://hiknow.hikvision.com.cn/kms/sys/portal/page.jsp

How to Connect MinMoe Terminal DS-K5671 to DS-K3G501 How to connect fingerprnt reader to turnstile How to connect QR code reader to turnstile

Remark:

 At present, the detailed single-item How to document of external MinMoe terminal, the external QR code and external fingerprint module are available, and can be referenced for wiring and configuration. The documents can be searched and viewed on HiKnow.

https://hiknow.hikvision.com.cn/kms/sys/portal/page.jsp

How to Connect MinMoe Terminal DS-K5671 to DS-K3G501

How to connect fingerprnt reader to turnstile

How to connect QR code reader to turnstile

2、485 和 232 接口转换跳线帽示意图

2. Diagram of the jumper cap of the 485 and 232 interface conversion



3、权限板初始化跳帽

3. Initialize jumper of the Main Control board

