TMG034 雷达 PC 调试 /How to debug the TMG034 Radar with PC

工具准备/tools preparing

ftp400://Product File(Overseas)/00 Oversea Products/04 Mobile & Traffic/04 Firmware& Software/04 Entrance&Exit/DS-TMG034



老图标/old icon



新图标/new icon

一、 雷达调试/Radar debugging

1. 语言修改选项在软件右上角,功能行的最后一个。

The language change option is in the upper right corner of the software, the last one in the function line



2. 雷达上电后, 使用电脑连接雷达的 WiFi, 出厂默认 WiFi 名称为 AWHST_DZ_01 或

RADAR+13 位数字, 默认密码为 123456789

After the radar is power on, use your computer to connect to the radar's WiFi, the factory default WiFi name is AWHST_DZ_01 or RADAR+13 digits, and the default password is 123456789



点击软件左上角的"设备连接", 网口连接填入 IP 地址和端口号即可 (串口连接通过 USB 转 485 串口线连接雷达蓝绿两根线, 使雷达与上位机通讯, 需填入端口与波特率)。 Click "Connect" in the upper left corner of the software, fill in the IP address and port number for the network port connection (the serial port connection connects the radar blue and green wires through the USB to 485 serial cable to make the radar communicate with the host computer, you need to fill in the port and baud rate)



		STJ79-3 Barrier Gate Radar Debug Software(1.2.2)		
Start	oftware Read Parameters Clear WiFi Setting	Eliminate the Cancel Read Eliminate fable targets Eliminate Biscoround Update Biscoround Update	Bratton Read Time App Upgrade work upgrade mod Upgrade	WEI Firmware Upgrade
(:-9.55m Y:9.96m	200	Current flow co	ount: 0	
		DateTime Connection Setting	Status Max. Distance(m) Min. Distance(m) Left Width(m) Left Width(m) Right Width(m) Pole Falling Time(s) Working Mode Anti- Distinguish Peder © Left-Right 0 Image: Status	3.0 °. Set Max. Distance 0.3 °. Set Min. Distance 1.0 °. Set Left Width 1.0 °. Set Kight Width 6.0 °. Set Falling Time all Single Boom P • Set Mo trian and Vehicle Set Right-Left Both Set Detection Directic Default Parameters
11n 30n 9n 8n		1m 2m 3m 4m 5m 6m 7m 6m 5m -	20 110 Radar flo Vehicle Speed	w count: E Read Coo

回读序列号和版本信息会显示在软件左下角。
 Read back the SN and software version will display in the bottom left corner of the software

						STJ79-3 E	larrier Gate	Radar Debug S	oftware(1.2.2)	0				- C	×
Start															
Connect Disconnect	Clear Read SN Count	Software Version	Read Parameters	or and the second secon	WiFi Setting	Eliminate the false targets	Cancel Eliminate	Read Eliminate Targets	Log Query	Time Calibration	Read Time	App Upgrade Standby upgrade mode	WiFi Firmwa Upgrade	re Language	
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1101142								Cur	rent flo	w count: 0		Parameters Setting	js		
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												Right Width(m)	1.0 ‡	Set Right \	Nidth
												Pole Falling Time(s)	6.0 ‡	Set Falling	Time
												Working Mode Anti-Fa	ll Single Boon	n P 🔹 Se	t Mode
												Distinguish Pedestr	ian and Vehic	le S	et
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9m Sm 7m 6m	5m 4n 3r	2/1 1	m 0m 1m 2	n 3n	4m Sm	6m 7m 8	n 9n	100		0		D	efault Parame	ters	
11m												De de da			
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												Vehicle Speed	50 ‡	I Clear	Vehicle
												D Start	😮 Stop	🌍 Clea	r Targets
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Status:Connected W	ifi fireware:1.0.4 S	oftware ver	sion:V3.1.6.1								Rece	ive bytes: Obytes Receive frame	rs:5 12/3	0/2022 11:14:4	6 AM //.

"参数回读"功能会显示当前雷达可调整的所有参数的值,并可以 将值填入设置框。

The "Read Parameters" function displays the values of all parameters that can be adjusted for the current radar and allows you to enter into the parameter settings field.

						STJ79-3	Barrier G	ate Radar Debu	g Software(1.	2.2)					
Start															
onnect Disconnect	Clear Read SN	Software Version	Read Parameters	dear Oear	Setting	Elminate the false targets	Cancel Eliminate	Read Eliminate Targets	Log Query	Time Calibration	Read Time	O App Upgrade	Standby upgrade mode	WiFi Firmware Upgrade	Language
Device 4	_	_	Operate	-		Back	kground Up	odate					Upgrade		-
								C	urrent fl	ow count:	0				
								Date	Time		Status	N	lax. Distance(m) Ain. Distance(m)	3.0 0.3 0	Set Max. Distance Set Min. Distance
					Promp	t							Left Width(m)		Set Left Width
						Read the para	ameter:				L		Right Width(m)		Set Right Width
						Max. Distance Min. Distance: Left Width:0.	1.50m :0.30m .70m				L	Pole	e Falling Time(s)	6.0 0	Set Falling Time
						Right Width:0 Pole Failing Ti	0.70m ime: 4.00s				L	Work	ing Mode Anti-I	Fall Single Boom	P Set Mod
						Distinguish Pe Detection Dire	e: Trigger M edestrian ar ection:Fror	tode nd Vehicle: No n left to right			L		Distinguish Peder	strian and Vehicle	Set
						Whether to e	enter the r	eadback value int	o the paramet	ter Settings field?	L) Le	ft-Right 🔿	Right-Left	🔘 Both
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n 20 70 66	50 40 50	26 2	n 80. 24	in 3e	48 58	4m 7m	24 98	100			•			Default Paramet	ers
					20								Radar flo	w count:	E Read Coun
												~	ehicle Speed	50 🗘	P Clear Vehicle
													Start	🔀 Stop	🐻 Clear Targ
														CFAR	
atus:Connected Wifi	freware:1.0.4 Sc	oftware ver	sion:V3.1.6.1								R	ceive bytes: 0b	vtes Receive fran	nes:6 12/30	/2022 11:20:53 AM

4. 雷达工作模式设置: 雷达可设置为触发雷达和防砸雷达。
Radar working mode setting: radar can be set to trigger radar and anti-fall radar 触发雷达: 工作模式设置为触发,区分人车功能选择开启。
Trigger radar: the working mode is set to trigger mode, distinguish pedestrian and vehicle functions set on.
防砸雷达: 工作模式设置为单杆,区分人车功能选择关闭。

Anti-fall radar: the working mode is set to single pole, distinguish pedestrian and vehicle function set off.



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Start				-			~				mm			•	-		
Connect Disconnect	Clear Re Count	ad SN Sof	ftware R ersion	Read Parameters	Clear	WiFi Setting	Eliminate the false targets	Cancel Eliminate	Read Eliminate Targets	Log Query	Time Calibration	Read Time	App Upgrade	Standby upgrade mode	WiFi Firmware Upgrade	Languag	e
Device 4	_	_	0	Operate	_		Bac	kground Up	date 🖌		Log			Upgrade			
X:10.21m Y:1.38m									Cur	rent flo	w count: 0		Para Para	meters Settin	gs		
									DateTim	e		Status	Max.	Distance(m)	1.5 🗘	Set Max. D	istance
													Min.	Distance(m)	0.3 ‡	Set Min. D	istance
													Le	ft Width(m)	0.7 \$	Set Left \	Vidth
													Rig	ht Width(m)	0.7 😜	Set Right	Width
													Pole Fal	ling Time(s)	4.0 📮	Set Falling	Time
													Working I	Mode Trigge	r Mode	• S	et Mode
													Distir	nguish Pedest	rian and Vehicle		iet
													Left-Ri	ght 🔿	Right-Left	⊖ Both	
															Set	Detection D	irection
9m 8m 7m 6m									100		0				Default Paramete	rs	
110	10m 9m	8m 7m	m 6m	5m 4m 3m	2m	15	1m 2m	3n 4n	5m 6m 7	n 8m 9	9m 10m 11m						
														Radar flow	count:	🛛 🗾 Rea	d Count
													Vehic	le Speed	50 \$	🥠 Clear	Vehicle
														Start	😮 Stop	🎨 Clea	ar Targets
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Status Connected M	C. Comment of	4 6-6		12161								0	the base observe	Desident from	10/00		

5. 参数设置/parameters settings

Max. Distanc	:e(m)	3.0 💲	S	et Max. Distance				
Min. Distanc	e(m)	0.3 ‡	S	et Min. Distance				
Left Widt	th(m)	1.0 ‡		Set Left Width				
Right Widt	th(m)	1.0 🗘		Set Right Width				
Pole Falling Tir	ne(s)	6.0 ‡		Set Falling Time				
Working Mode	Anti-Fa	ll Single B	oom P	- Set Mode				
Distinguish	Pedestr	ian and Ve	hicle	Set				
 Distinguish Left-Right 	Pedestr O F	ian and Ve Right-Left	ehicle C	Set) Both tection Direction				
 Distinguish Left-Right 	Pedestr O F	ian and Ve Right-Left efault Para	ehicle C Set De imeters	Set) Both tection Direction				
Distinguish Eeft-Right Rada	Pedestr O F D ar flow	ian and Ve Right-Left efault Para count:	ehicle C Set De Imeters	Set) Both tection Direction				
 Distinguish Left-Right Rada Vehicle Spee 	Pedestr O F D ar flow	ian and Ve Right-Left efault Para count: 50 \$	ehicle C Set De Imeters	Set D Both ttection Direction C Read Count Clear Vehicle				

参数设置规则/parameters settings rules:

①最大检测距离设置为实际杆长(可设置范围为 0.1-6m)

The maximum detection distance is set to the actual pole length (can be set in the range of 0.1-6m)

②最小检测距离默认设置 0.3m (可设置范围为 0.1-6m)

The Minimum detection distance set by default 0.3m (can be set in the range of 0.1-6m) ③检测范围设置左右侧均默认 1m。

The left and right side width Detection range setting both default 1m.

④落杆时间按照现场实际道闸落杆时间设置即可,默认为 6s。

Pole falling time should be set according to the actual gate falling time on site, the default is 6s.

⑤检测方向设置:不做设置,保持默认的 Both。

Detection direction setting: Do not setting, keep the defult Both.

目标检测功能:安装调试时或者后期维护时,若出现误触发或者不落杆的情况,可使用"开始上传目标",就可以将雷达实时检测到的目标以点的形式实时显示在页面左边的坐标系中,方便排查。

Target detection function: when installing and debugging or later maintenance, if there is a false trigger or no fall pole, you can use "Start uploading target" to display the target detected by the radar in real time in the form of points in the coordinate system on the left side of the page, which is convenient for investigation.



 WiFi 设置:可以自定义当前雷达的 WiFi 名称和密码,当现场使用多个雷达时,可以通 过 WiFi 名称将他们很好的区分,避免设置出错。
 WiFi settings: you can customize the WiFi name and password of the current radar, when using multiple radars in the field, you can distinguish them well by WiFi name to avoid setting errors.

		STJ79-3 Barrier Gate Radar Debug S	oftware(1.2.2)				
Start							
meet Disconnect Clear Read SN Software Version	Read Parameters Clear WIFI Sett	ng Eliminate the Cancel Read Eliminate false targets Eliminate Targets	Log Query Time Calibra	tion Read Time	App Upgrade Standby upgrade mode	WiFi Firmware Upgrade	Language
Device 4	Operate	Background Update	Log		Upgrade		
		Cur	rent flow count	0	Parameters Settin	igs	
		Will Coldina		Status	Max. Distance(m)	1.5 ‡	Set Max. Distanc
		win second			Min. Distance(m)	0.3 ‡	Set Min. Distanc
		Tip: Only available when connect	ted to WIFi		Left Width(m)	0.7 ‡	Set Left Width
		Please Enter the password:			Right Width(m)	0.7 ‡	Set Right Width
		Please enter the password again			Pole Falling Time(s)	4.0 \$	Set Falling Time
		Confirm			Working Mode Trigge	r Mode	• Set Mo
		Tip: Only available when connect	ted to WE		indiang mode migge		
		Blosse onter the Wi E estreet			Distinguish Pedest	rian and Vehicle	Set
		Confirm			● Left-Right ○	Right-Left	O Both
		Commit				Set	Detection Direction
20 70 50 50 40 20 20 1	000 20 20 30 40 5	Reset WiFi	Close	0		Default Paramete	rs
		1m 2m 3m 4m 5m 6m 7	n 8n 9n 10n 1		Radar flow	count:	Read Co
					Vehicle Speed	50 \$	🧶 Clear Vehic
					© Start	😮 Stop	🖏 Clear Tai
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二、 雷达固件升级/Radar firmware upgrade

进入WiFi升级模式:在配置过程中点击左上角"设备断开",退出调试模式,不断开雷达WiFi,此时可看到右上角的"应用程序升级"和"备用升级模式"点亮,点击进入"应用程序升级"功能。

Enter WiFi upgrade mode: Click "Disconnect" in the upper left corner, exit debugging mode, keep connecting radar WiFi, then you can see "App Upgrade" and "Standby Upgrade" in the upper right corner. click to enter the "App upgrade" function.

						STJ79-3	3 Barrier G	ate Radar Debu	g Software(1	.2.2)					- 🗆 X
Start															
Connect Disconnect	Clear Count Read SN	Software Version	Read Parameters	Cear	(WFi Setting	Elminate the false targets	Cancel Eliminate	Read Elminate Targets	Log Query	Time Calibration	Read Time	App Upgrade	Standby upgrade mode	WFI Firmware Upgrade	Language
Device 4	_		Operate	-		Bac	kground Up	date .		Log	,		Upgrade		4
X:10.15m Y:4.81m								C	urrent f	low count:	0				
								Date	Time		Status	M	ax. Distance(m)	1.5 0	Set Max. Distance
						n Ungrade						N	in. Distance(m)	0.3 .	Set Min. Distance
					Serial	ropyrate	Info	mation VI.0.1			~		Left Width(m)	0.7 0	Set Left Width
					Port	~					~		Right Width(m)	0.7 0	Set Right Width
					Baudrate 1	15200 ~						Pole	Falling Time(s)	4.0 0	Set Falling Time
					Data Bit 8	obe ~						Worki	ng Mode Trigge	r Mode	- Set Mode
					Stop Bit 1	~							istinguish Pedest	ian and Vehicle	Set
					Initialize	Connect					~				
					WiFi						0%	(e) Let	t-Right	kight-Left	O Both
					IF Search	Connect				Firmware Up;	prade			Set	t Detection Direction
5m 5m 7m 5m			e 0n 1n		n 44 tri	64 76	10 90	100						efault Paramete	ers
110	10m 9n 8m	7m 6m	5n 4n	301	in 1n 😽	1n 2n	311 41	n 5m 6m	7m 8m	9m 10m 1	14				
													Radar flow	count:	E Read Count
												- 10	hicle Speed	50 C	Clear Vehicle
													C Start	C3 Stop	Clear Targets
														FAR	
Status: Disconnected	Wifi fireware:1.0.	4 Software	version								Re	ceive bytes: Obyt	es Receive frame	s:759 12/3	80/2022 1:54:15 PM

①点击"IP 搜索"/click IP search
 ②点击"连接"/click Connect
 ③"选择固件",按路径找到准备好的固件升级包
 Select Firmware", follow the path to find the prepared firmware upgrade package.
 ④"开始升级"/upgrade



升级完成后点击"断开",然后关闭升级窗口;随后可正常进行调试和配置。 Click "Disconnect" when the upgrade is complete and then close the upgrade window; you can then proceed with debugging and configuration normally.