TCM203-A/0832 Debugging Manual

TCM203-A has two different kinds of types, including 0832 and 5313. Here we will introduce TCM203-A/0832 debugging steps. Device activation and firmware upgrade are not included below.

1. System Configuration>TCP/IP: change device IP as you want.

Live View	Picture	Log	Configuration		🤱 admin 🛶 Logout 🗰
 Device Status Local Configuration 	Devie	ce Information Installa	tion Parameters Serial Port	s TCP/IP	Port HTTPS Time Traffic Parameters Service
Device Configurat Osystem Mainter	ion nance	NIC Settings		1	
System Config	uration	DHCP	10M/100M/1000M Self-a		
Text Overlay		Pv4 Address	192.168.2.200	1	Change IP as you want
Application Mon	ie i	Pv4 Subnet Mask	255 255 255 0		
O Capture Param	eters		200.200.200.0		
O Image Paramet	ers	Pv4 Default Gateway	192.168.2.254		
Exception	1	Pv6 Mode	Auto-Obtain	~	
O User Managem	ent I	Pv6 Address			
		Pv6 Default Gateway	12		
		Du6 Subnet Mask			
		MAC Address	94:e1:ac:51:/c:c1		
	1	NTU	1500		
	1	Multicast Address			

 System Configuration>Time: Select the right time zone and synchronize device time with PC.

Live View	Picture		Log	Configu	uration					💄 admin	Logout
 Device Status Local Configura 	ation	Device Informatio	n Installati	on Parameters	Serial Ports	TCP/IP	Port	HTTPS	Time	Traffic Parameters	Service
Device Configu	ration	Time Setting	s	1							
O System Mai	ntenance	Time Zone		(GMT+01:0	00) Amsterdan	, Berlin,	Rome, I	Paris 🗸		Change time	zone an
System Co Encoding at	ntiguration	Synchronizat	ion Mode	Manual Sy	nchronization	~				synchronize	time wit
Text Overla	y	Device Time		2018-05-18	T16:29:16					PC.	
Application	Mode	Set Time		2018-05-18	T16:29:01	1773	Svnc	hronize wit	h PC		
Capture Par	rameters	100000 20023				14110	-				
 Capture Para Image Para 	meters										2
Exception											Save
O User Manac	rement										

 System Configuration>DST: If this country has daylight summer time, then need to enable DST function, set start time and end time, and set DST bias which is usually 60 mins.

Live View	Picture	Lo	og Configu	uration					🚨 admin 🛶 Logout 🧰
 Device Status Local Configurati 	on	Device Information	Installation Parameters	Serial Ports	TCP/IP	Port	HTTPS	Time	Traffic Parameters Service
Device Configura O System Mainte	tion enance	1 Enable DST							Set start time and en
System Confi	iguration	Start Time	Apr.	✓ First	✓ Sun	~	02	~	time, and set DST bia
Encoding and	Storage	End Time	Oct.	✓ Last	✔ Sun	~	02	~	as ou mins.
O Text Overlay		DST Bias	60min	~					
O Application Me	ode								2
Capture Parar	neters								-
Image Parame	eters								Save
Exception									
O User Manager	ment								

4. Encoding and Storage>FTP: enable FTP if you need; set third party platform IP address, select directory structure as save in parent directory, set port and parent directory as custom, set user name and password; Select upload plate close-up if you want; Set the name rule by choosing the information you want to show.

Live View Picto	ure	L	.og	Config	juration			2	admin	Logout
Device Status Local Configuration Device Configuration System Maintenance	V	Upload to FTI	Image Encodi	ng ROI	Record Schedule	Redundant Stor	age FTP			
O System Configuration	1	Enable FTP		Enable On	e	~				
Encoding and Storage		FTP1								
Text Overlay										_
Application Mode	2	Server Addres	192.168.2	.88		Directory Structu	re Save in F	'arent Dii 🗸		
Capture Parameters		Port	21			Parent Directory	Custom	~	2	
O Image Parameters						Lauria Disease	Nene			
Exception		User Name	targasyste	em1		Level 2 Directory	None	~		
O User Management		Password	******			Level 3 Directory	None	~		
		Confirm Passw	ord ••••••			Level 4 Directory	None	~		
	3	Upload Pl	ate Close-up							
		Name Rule				Separator:	_	(~
		No.	_	Name			Elements			
	4	1	Name1		Device IP A	ddress				
		2	Name2		Time					
		3	Name3		Vehicle Spe	ed				

5. Application mode: only smart mode is available; select lane number; choose capture type as motor vehicle if you want to capture only motor vehicle, while choose all if you want to capture motorbikes at the same time; select lane direction; draw LPR area and finally click save.

Local Configuration	1						Only smart mode i
Cocal Configuration	-	Application Mode	Smart Mode	V Q	Work Mode:	Smart Mode	only shart mode i
Device Configuration		Smart Mode Settin	gs				available.
System Maintenance	2	Tatal Lanas					11 - 11
System Configuration		Total Lanes	[1	~	05-1	8-2018 16.37.	54
Encoding and Storage	3	Capture Type	Motor Vehicle	\sim	1	0 2010 10101.	11
Text Overlay		Lane 1	No.		and the second	and I all	/ /
Application Mode						/ /	1
Capture Parameters	4	Lane Direction	South to North	~	1		
Image Parameters		Linked Lane No.	1		100	Lane Line	and the f
Exception			C.				Meller
User Management						//	Lane Right Bor
					1		1.1.1
					1		
					5 Draw LP	R Area	6

 Draw lane line 1 and lane right borderline to make sure all the vehicle plate numbers are totally included in this area, because algorithm will not recognize the part exceeding the detection area.



 Capture Parameters>License Parameters: fill in country code and select license plate type as small-size.

Live View	Picture	Lo	og Configur	ation		💄 admin	Logout
Device Status		License Parameters	Flash Light Parameters	Traffic Light Synchronization	Cabinet Parameters		
Local Configura	tion						
Device Configure	ration						
System Mair	itenance	License Parame	neters				
System Con	figuration	Country	112				
Encoding an	d Storage	License Plate Ty	ype	e Recognition 🔘 Large-Size P	late Recognition		
O Text Overlay							
Application M	vlode					2	
Capture Par	rameters						Save
O Image Parar	neters						
C Exception							

8. Capture Parameters>Flash Light Parameters: IO1 is for internal light, while IO2 and IO3 are for external supplement light; only constant light mode is available; Set duty ratio from 0 to 70 according to real light brightness requirement; Choose control constant light by schedule and select start time and end time.

Live View	Picture	Log	Configu	ration	🤽 admin 🛶 Logout 🧰
 Device Status Local Configurati Device Configura 	ion	icense Parameters Flash Light Parar	Flash Light Parameters	Traffic Light Synchronization	n Cabinet Parameters
O System Mainte	enance 1	IO:1 IO:2 IO:3	IO1 is for int	ternal light, IO2 ar	nd IO3 are for external lights
 Encoding and Text Overlay 	Storage 2	IO Output Mode	Constant Light	t Mode	Only constant light mode is availabl
Application Me Capture Para	ode	Control Constan	nt Light by Brightness	10-70]	Set light brightness from 0 to 70.
Image Parame	eters 3	Control Constan	t Light by Schedule		Select control by schedule and
O Exception O User Manager	ment	Start Time End Time	20:31 06:59		set start end times.
		Copy to:	<u>□</u> 102 □1	103	-
					4

Image Parameters>General Parameter: normally set all the parameters as default.
 You can change the sensitivity value of light compensation on license plate if the license plate is not bright enough.

Live View	Picture	Log	C	Configuration		💄 admin 🛶	Logo
Device Status	Ger	eral Parameter	Video Pictu	ICR			
Local Configura	tion				Normally set	parameters as defaul	lt.
Device Configur System Main System Cont Encoding an Text Overlay Application M Capture Para Image Parar Exception	ation Itenance Itguration d Storage Adde ameters meters	05-18-2018	16:40:23		Saturation Sharpness White Balance WDR Mode Iris Mode Brightness Enhance	Auto WB1 V Off V Manual V ement at Night	50 50 2 2 50
User Manage	ement	Capture Hint: Test the func	Test tion of trigger	ing the camera to capture.	Light Compensa Sensitivity Enable Gamma	tion on Licence Plate	100

10. Image Parameters>Video: the default shutter speed value is 4000, and you can change it if there is image ghosting. The smaller the value is, the better result we get to solve image ghosting, which will reduce the image brightness. Set gain value according to vehicle license plate brightness during night time. Finally you need to set video standard as 50HZ or 60HZ according to the real situation in the project location country.

Live View	Picture	Log	Configuration		admin	n 🛶 Logout
 Device Status Local Configu 	General	Parameter Video	Picture ICR			
Device Config	uration	5-18-2018 16:4	2-36	Brightness		50
System M	aintenance	5 10 2010 10.1.	2	Contrast	0	60
System C	onfiguration	and 1		Shutter Speed (µs)	2000	
Encoding	and Storage		1	Gain		60
Text Over	lay	/	/ // // //	3D DNR	Normal Mode	~
Application	n Mode			2D DNR Level		56
Capture P	arameters			SD DINK Level		
🔘 Image Pa	rameters		and the	2D DNR		
Exception			R Hard	2D DNR Level		70
O User Man	agement	/	A HARRIS	Enable Slow Shut	ter	
	/		MA	Video Standard	50hz	~
		Capture Test		1. Set shutter spe	ed to ensure the q	uality of captu
	(CHI	nt: Test the function of t	ringering the camera to capture	picture.	according to uphicle	n lloonen nlatu
		in the second second second		z. set gain value	according to venicit	e ncense plate

11. Image Parameters>ICR: start ICR mode if the internal light type is IR. It is recommended to select scheduled switch if you start ICR mode.

	Log	Configuration		admin	Logo
Device Status	General Parameter	Video Picture ICR			
Local Configuration	-				1
Device Configuration	ICR Mode	Scheduled Switch	~		
System Maintenance	No.	Day/Night Mode	Start Time	End Time	
System Configuration	- 1	Dav 🗸	07:00	20:30	
Encoding and Storage Toxt Overlaw	-				
Application Mode	2		20:31	06:59	
Capture Parameters					
Image Parameters	Start ICR mo	ode as vou want.			
Exception					
O User Management					

12. Finally, go to live view to finish lens adjustment, including zoom in or zoom out, focus and iris adjustment. After that, click live traffic statistics to check captured pictures.

Live View	Picture	Log	Configuration		👗 a	idmin 🖙 Logout 🧰
) (#*) ()	Main Stream Sub Stream	1	2 Live Traffi	ic Statistics	A 444	Zoom in/Zoom ou
	and the second se				0 0	Focus+/Focus-
05 - 18	-2018 16	:43:43			0 0	Iris+/Iris-
1	the second second		1	and see the second	53 0	
				17		•
						•

13. After you click live traffic statistics in step 12, it will pop up the interface as below. First, you need to choose level 2 armed to arm camera. Second, you can find all the results in capture list and there is the directory at the right side where the captured pictures are stored.



14. Go to the directory in step 13 to find the captured pictures. Use windows paint tool to open one picture and check the license plate number height as below. If the number height is not between 25 and 30, then you need to repeat step 12 to step 14.



If you have any question, you can contact **Overseas Traffic Project Team**. We are looking forward to your reply.