

# **Merit LILIN Application Note**

How to use AI camera for HTTP Post Notification

Document Number : A00319 Date : 2022/04/07 Dept: Technical Support, Taipei

**Subject:** This document describes how to configure a LILIN 7 series AI camera for HTTP Post Notification for a third-party cloud

Firmware requirement: 2.0.3.2 at <u>here</u> Device Supported: LILIN IP 7 series AI camera



### Case Study:

- 1. The customer needs LPR (Ontario, Canada) + Counting (need to know what kind of car such as general RV, bus, truck, van or other different types of cars that can be supported, etc.)
- Must be able to send relevant metadata (LPR, counting data, vehicle type and Time stamp as mentioned above) to the customer's software through HTTP Get JSON format every 15 minutes (or let the customer set the time by themselves)

### License Requirements

- 1. 01AI: USA and Canada
- 2. 03AI: Traffic counting

### Number Plate Notification

Setup "My Plate Notification" HTTP event as below: Host IP: sensors.a1innovationgroup.com URL: /v1/lilin/post/sensor/data/test



	SETTING ABOUT
Output Settings Camera virtual 1 Camera virtual 2 Camera virtual 2 Camera virtual 3 Camera virtual 3 Camera virtual 4 My Plate Notification Norogator Net 13th IO Box output Light down the 13th IO Box output Camera virtual 4 My Plate Notification Norogator Net 13th IO Box output Light down the 13th IO Box output Go to PTZ preset	Protocol  HTTP O HTTPS Method O GET  POST Event name, MVB HTTP digital atom URL /v1/illin/post/sensoridatatest Content-rype multipartrom-ata  Username Password Customized HTTP header
	File format O Jpeg Text JPEG file name format Prixed Date JPEG file name snap
	Apply Create SmartEvent

# Setup Zone 2 for Car & Bus Counting Enable classification for Car and Bus.

Setup Tripwire for the truck at behavior detection Select "Car and Bus" output event

Set 5 minutes for "Post Every" and "Reset Every": This will post the content to the cloud.

Date:         ADM         OUTOF           Alarm Settings         Image: Control of the set of the se	Behavor detection         Prohibit zore         Pred about detection in zone (06A)         Figure with all detection no zone (06A)         Pred about data detection in zone (06A)         Pred about data detection in zone (06A)         Camera withal 2         Camera withal 2         Camera withal 3         Camera withal 2         Camera withal 2         Camera withal 3         Camera withal 4         Camera withal 2         Camera withal 3         Camera withal 4         Camera withal 5         Camera withal 6         Camera withal 6         Camera withal 8
Counter Settings Counter triggering >= Help for object classification Object size (POV%) is to filter out the size of object Detection output is the output actions after behave	Counter() Count



	ALARIM	ОЛТРИТ	۲ Setting	? About	
Output Settings — Output Settings — Notification Events Camera virtual 1 Camera virtual 2 Camera virtual 2 Camera virtual 4 Plate notification output of the setting of the setting Output Output Ou	fication Box output IO Box output				Protocol O HTTP # HTTPS Method O GET # POST Event name [Car and bus Host IP] Bension a Sinno URL [VTMINpostRessonditaTeat Customized HTTP header POST content 20 [Iname]>(count areal_count [>[VYYY]>(IPI]>[20]>(]hb]>(]me]> File format O Jpeg # Text PPG 5 fie name format # [xed O Date _PFG 5 fie name format # [xed O Date
					Apply Create SmartEvent

# Use PTSV2 as an Example

PTSV2 tool is can receive LILIN camera's push notification. It is easy to view the result posted via LILIN AI camera for trouble purpose.

Visit <a href="https://ptsv2.com/">https://ptsv2.com/</a> for a post URL.

Toilet: a2fg	5-16498330	)41											
Ş	ID: a2fg5-1649833041 Created: 2022-04-13 06:5 Post URL: //Ja2fg5-16498: Config hide All values are transmitted Do not submit anything y HTTP AUTH	7:22 UTC 33041/post and stored in plaintext! pu wouldn't want emailed	to your wors	t enemy.									
	Username:		admin										
What is this?	Password:		pass1234		_								
Some Rules	Server Response		·										
How it works	Status Code		200										
What's in a dump Contact	Body:		Thank you	for this dump	. I hope you h	nave a lovely	day!						
	Delay: Weird Configs Dump Body First. Update Toilet Config		0				ß						
	Damps					_							
	ID	Timestamp		Method	Headers	Params	Body Length	Files					
	5115660178817024	2022-04-13 08:00:19 L	ITC	GET	22	0	0	0	view   flush				
	5391376309026816	2022-04-13 08:00:34 U	ITC	POST	12	0	897	0	view   flush				
	6481910482075648	2022-04-13 08:01:10 U	ITC	POST	12	0	3	0	view   flush				
	4772311232151552	2022-04-13 08:01:13 L	тс	POST	12	0	3	0	view   flush				

Copy and paste the URL of PTSV2 into LILIN's camera as below: Specify username and password. Click Testing button for push notification.



R LPR.LIST ALARM OUTPUT SETTING	ABOT
B Enable HTTP notification     Notification Events     Camera virtual 1     Camera virtual 2     Camera virtual 2     Camera virtual 3     Camera virtual 4	Potocol         # HTTP         Method         GET         @ POST           Fvent came         IF00         IF000         IF00         IF00
Plate notification Car, and bus IOT-count(28354474443) P152 Go to PTZ preset battffration of Charle you for this dum. There we have a	Curiteri - rype (mitigaritim dai V) Customized HTTP header
ovely day! Texting	POST content
Enable heartbeat Dwell (Min) >= 10 Heartbeat output	File format
	JPEG file name unap

You can review the posting content via PTSV2 cloud.

https	s://ptsv2.com/t/a2fg5-164983	3041					A»	Ð	î	£≣	Ē
Toilet: a2f	fg5-16498330	041									
	ID: a2fg5-1649833041 Created: 2022-04-13 06: Post URL: //a2fg5-1649/ Config show	57:22 UTC 833041/post									
	Dumps										
	ID	Timestamp	Method	Headers	Params	Body	Lengt	h	Files		
What is this?	5115660178817024	2022-04-13 08:00:19 UTC	GET	22	0	0			0	view	flush
Some Rules	5391376309026816	2022-04-13 08:00:34 UTC	POST	12	0	897			0	view	flush
What's in a dump	6481910482075648	2022-04-13 08:01:10 UTC	POST	12	0	3			0	view	flush
Contact	4772311232151552	2022-04-13 08:01:13 UTC	POST	12	0	3			0	view	flush
	flush all dumps										

# Post Result

Click "view" that it can verity the result.

Details							
Posted: 2022-04-13 07:30:22 UTC Method: POST Source: 127.0.0.1:60945							
Headers							
Header	Values						
Accept	*/*						
Charset	utf-8						
Content-Length	679						
Content-Type	application/json						
Forwarded	for="61.216.97.158";proto=http						
Traceparent	00-bed10ea2f9cfa5f43a6536177e1fd934-02f97ff87c36299b-00						
User-Agent	LILIN						
X-Cloud-Trace-Context	bed10ea2f9cfa5f43a6536177e1fd934/214343162489350555						
X-Forwarded-For	61.216.97.158, 169.254.1.1						
X-Forwarded-Proto	http						
X-Google-Apps-Metadata	domain=gmail.com,host=ptsv2.com						
X-Google-Serverless-Node-Envoy-Nopod							
Parameters							
No Parameters.							
Post Body							
<pre>("live_data":("package_info":("version":"5.0","id":222409,"agent_id":14),"sensor_info": {"serial_number":80:1F:12:76:01:100","type":"SINGLE_SENSOR","timezone":"UTC"),"frames": {"(framenumber":222556,"time:":2022/04/13135020","tracked_objects":"({"track_id":1,"type":"car","position": {0.18,.0.9,1.73464},"attributes":(color":"","iniked_plate":"")),("track_id":1,"type":"car","position":[360,913,1967,1060],"attributes": {"plate":"","color":","state":"","country":"","position":[360,913,1967,1060]))},"events": {"(category":"CONT", type":"CONT INCRENENT","attributes":{"track_id":12,.2",1061_id":202,0",1061_id":202,0",1061_id":202,0",1061_id":202,0",1061_id":","Office 1","counter_id":10,"counter_name":"bw","counter_value":"1")}}}</pre>							



## Supported Tokens

The supported tokens are below. You can copy and paste the token into the "post content". For example, if you put <|name|> into the "post content". Object name will be interpreted as the name of classified object and post to the cloud.



### Contact:

For more information, please contact yourLILIN sales representative. You can also submit a support ticket at <a href="https://LILIN.zendesk.com">https://LILIN.zendesk.com</a>