



Touch 2

Axis IP Camera Settings

5.

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1. Introduction – NavNet TZtouch/2 with Axis

NavNet TZtouch (TZT9/14/BB) and NavNet TZtouch2 (TZTL12F/15F) v5.02 are compatible with IP cameras from **Axis** Communications AB in both MPEG-4 and H.264 formats. Native H.264 formatted images occupy a great amount of bandwidth. In addition to conventional settings such as IP address, ensure to set the <u>resolution to "800x600 (4:3)"</u> pixels or less and <u>compression level to "30"</u>. Failure to set these parameters will slow down the system! This document describes the set-up procedures of Axis IP cameras and video servers in H.264 format.



Note:

Screenshots from the TZT14 are used to describe setup procedures on TZT9/14/BB and TZTL12F/15F.

2. Overview

2.1. Summary – Setup Procedure

In order to view and control Axis IP cameras from the TZT9/14/BB and TZTL12F/15F, it is necessary to assign an IP address to each Axis IP camera. This procedure will require a Windows PC connected via Ethernet to the Axis IP camera(s). Pre-wiring and installing the cameras on the vessel first is recommended, so that all Axis IP cameras can be networked to the PC through a hub and can be configured at the same time. It will be necessary to set up the IP address of the PC and use the AXIS IP Utility program, which is included with the camera to configure the camera's IP address. See **Section 3** for PC setup before connecting it to an IP camera or video server. See **Section 4** for further settings on IP cameras and **Section 5** for video servers.

2.2. Latest Axis Cameras Compatible with H.264 Format

To find the latest Axis camera models with the H.264 format, access the Axis Website – Axis product selector <<u>http://www.axis.com/products/video/selector/index.php</u>>. There are more selections than MPEG-4.



2.3. Tested Axis Video Servers at FEC

At Furuno USA, the following Axis video servers were used for tests.

AXIS M7014 Video Encoder	M7014
Cost-effective 4-channel video encoder with H.284	http://www.axis.com/products/cam_m7014/index.htm
	Analog Input: Four (4) channels
Podut sektor	Ethernet Output: One (1) channel
AXIS P7214 Video Encoder	P7214
Full-featured, cost-effective 4-channel video encoder with H.264	http://www.axis.com/products/cam_p7214/index.htm
	Analog Input: Four (4) channels
Product selector	Ethernet Output: One (1) channel

3. Setting up a PC

This section describes how to assign a dedicated IP address to a PC.

(1) Access [Start] – [Control Panel].



(2) Open [Network and Sharing Center].



(3) Open [Change adapter settings].



(4) Right click on [Local Area Connection] and select [Properties].



(5) Select [Internet Protocol Version 4 (TCP/IPv4)] and click on [Properties].

Local Area Connection Properties				
Networking Sharing				
Connect using:				
Intel(R) 82567LM Gigabit Network Connection				
Configure				
This connection uses the following items:				
Install Uninstall Properties				
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.				
OK Cancel				

(6) Fill the IP fields as shown below.

You can get IP settings assigned autr this capability. Otherwise, you need for the appropriate IP settings. © Obtain an IP address automatic © Use the following IP address:	omatically if your network supports to ask your network administrator ally	IP address: 172.31.3.50 Subnet mask: 255.255.0.0
<u>µ</u> µ aooress: S <u>u</u> bnet mask: Default gateway:	1/2.31.3.50 255.255.0.0	
 Obtain DNS server address auto Use the following DNS server ad Preferred DNS server: Alternate DNS server: 	Idresses:	
Validate settings upon exit	Advanced	

(7) Click on [OK] to confirm and close two windows on Step 6 and 5.

Note:

It takes up to 20 seconds for the new IP to be recognized. A popup window on the bottom right corner should show when the IP is correctly set. Turn OFF any Firewall that could prevent data from being exchanged between the Axis camera and the PC. You may also have to restart your computer.



4. Setting up Axis IP Camera

4.1. Setting up IP Address of Axis IP Camera

To work in the NavNet TZtouch/2 system, the Axis IP cameras need to be set up with specific IP Addresses. Up to four (4) IP cameras can be connected in the network.

Axis IP Camera No. 1	Axis IP Camera No. 2	Axis IP Camera No. 3	Axis IP Camera No. 4
172.031.200.00 3	172.031.200.00 4	172.031.200.00 5	172.031.200.00 6

In this example, two (2) sets of Axis M1011 are used.



Load the Axis CD "Network video products", which is included with the camera. The Autorun software should appear.
 (If the autorun is not working on your computer, browse the CD and double click on [Setup])



(2) Select [Install Product].



(3) Click on [AXIS IP Utility [Download]] to download the AXIS IP Utility program.

xis Communications AB		
	Installation and Manag	ement Softwa
Install Product AXIS	IP Utility AXIS Camera Management	Extras Browse CD
Select Method	Recommended installation tools in Win	ndows:
Other Methods	AXIS IP Utility [Download] Single camera and small installa	tions.
AXIS Camera Companion		
AXIS Media Control	AXIS Camera Management [Do Large installations with multiple	<u>wnload]</u> cameras.

(4) Install the AXIS IP Utility program on your PC.



(5) Double-click on [AXIS IP Utility] to open the program.

The following window will open, showing the detected cameras in the network.

ファイル (E) 表示 (V) ツール (I) ヘルプ(<u>H</u>)	
	10 2222	22222
AXIS M1011 - 00408CA80AF6	192.168.252.4	00408CA80AF6
AXIS M1011 - 00408CA80A98	192.168.252.3	00408CA80A98

Note:

If you use the same camera models in multiple locations, MAKE SURE to WRITE DOWN the IP camera's serial numbers, which can be found on the back of the camera, with the intended location to help correctly assign the IP camera's name.

(6) To change the IP address, select a camera and click on "assign new IP address to selected device" button.

IP AXIS IP Utility		
ファイル(E) 表示(V) ツール(I) ヘルプ(<u>H</u>)	
??	IP ????	??????
AXIS M1011 - 00408CA80AF6	192.168.252.4	00408CA80AF6
AXIS M1011 - 00408CA80A98	192.168.252.3	00408CA80A98

(7) Enter the correct IP address and click on [Assign]. In this example, [172.31.200.3] will be assigned.

Assign IP Addres	ss	×
Assign the IP addre	ess of AXIS 212 PTZ - 00408C828760.	
Serial Number: IP Address:	00408C828760	
Home Page	Assign Close	

It will take a while before the process is finished.

(8) Check that the IP address is changed.

ファイル (E) 表示 (V) ツール (I) ヘルプ(<u>H</u>)	
r, e, 💿		
??	IP ????	??????
AXIS M1011 - 00408CA80A98	172.31.200.3	00408CA80A98

(9) Repeat the process with the other camera(s).

P AXIS IP Utility	-	_ _ ×
ファイル (E) 表示 (V) ツール (I) ヘルプ(<u>H</u>)	
R. C. 💿		
??	IP ????	??????
AXIS M1011 - 00408CA80A98	172.31.200.3	00408CA80A98
AXIS M1011 - 00408CA80AF6	172.31.200.4	00408CA80AF6

(10) After the IP address is changed, restart the camera (power OFF/ON).

4.2. Configuring Axis IP Camera

Axis IP cameras need to be configured using a Web browser.

(1) Enter the IP address of the IP camera. In this example, [http://172.31.200.4] is entered.



(2) The camera configuration page will open. Click on [Setup] to access the configuration page.



(3) You will be asked for an ID and password. Enter the following ID and password and click on [OK].



Note:

When the webpage loads, pay attention to the top of the page to authorize the installation of the ActiveX®. Click on the yellow bar and choose [Install ActiveX].

File Edit View Favorites Tools Help		
🚖 🏟 🌈 Live view - AXIS 207 Network Camera		
🕡 This website wants to install the following add-on: 'AXIS Med	lia Control' from 'Axis C	ommunications AB'. If you trust the website and the add-on and want to install it, click here
	AVIC' 📥	AVTO 307 Network Ormour

(ActiveX is a registered trademark or a trademark of Microsoft Corporation in the United States and/or other countries.)

- (4) After entering the ID and password, the Setup page will open.
- (5) In [Basic Setup] [1 Users], select [Enable anonymous viewer login] and click on [Save].

	6 M1011 Net	work Camera	Live View Setu	ıp∣Help	
• Basic Setup	Users			0	
Instructions	User List	User List			
1 Users	User Name	User Group	User Info		
3 Date & Time 4 Video Stream	root	Administrator			
▶ Video					
→ Live View Config					
Events					
System Options	Add	lodify Remove		1	
About					
	HTTP/RTSP Pas	sword Settings			
	Allow password typ	e: Encrypted & unencrypte	ed 🔻		
	User Settings				
	🗹 Enable anonyn	nous viewer login (no user r	name or password required)		
	Enable Basic S	Setup	Reset		

(6) In [Basic Setup] – [3 Date & Time], select [Synchronize with computer time] and click on [Save].

AXIS	AXIS M1011 Network Camera Live Vie	w Setup Help
• Basic Setup	Date & Time Settings	0
Instructions	Current Server Time	
1 Users 2 TCP/IP	Date: 2010-12-07 Time: 12:16:57	
3 Date & Time	New Server Time	
4 Video Stream	Time zone: GMT (Dublin, Lisbon, London, Reykjavik)	•
▶ Video	Automatically adjust for daylight saving time ch	anges.
	Time mode:	
Live View Config	Synchronize with computer time	
Events	Date: 2013-05-17 Time: 12:50:22	
► System Ontions	Synchronize with NTP server	

(7) In [Basic Setup] – [4 Video Stream] – [Image] tab, set [Resolution] to less than "<u>800x600 (4:3)</u>" and [Compression] to [<u>30</u>] and click on [Save]. In this example, [640x480 (4:3)] is selected as Resolution because this is the maximum resolution supported by the M1011.

XIS M1011 N	etwo	ork Camera	Live View Setup Help
Video Stre	am 9	Settings 4 MJPEG	0
Image Appearance			
Resolution:	640×4	480 (4:3) 🔻 pixels	
Compression:	30	[0100]	
Mirror image	1		
Rotate image:	0	▼ degrees	
Video Stream			
	XIS M1011 N Video Stree Image MPEG Mesolution: Compression: Mirror image Rotate image: Video Stream	XIS M1011 Netwo Video Stream S Image MPEG-4 & H.20 Image Appearance Resolution: 640xe Compression: 30 Mirror image Rotate image: 0 Video Stream	XIS M1011 Network Camera Video Stream Settings Image MPEG-4 & H.264 MJPEG Image Appearance Resolution: 640x480 (4:3) v pixels Compression: 30 [0100] Mirror image Rotate image: 0 v degrees Video Stream

Tips:

As another example with the Axis **M5013**, supporting a higher resolution than the M1011, set [Resolution] to [800x600 (4:3)].

AXIS	AXIS M5013 Network Camera	
Basic Setup Instructions	Video Stream Settings	
1 Users 2 TCP/IP 3 Date & Time	Image Appearance Resolution: 800x600 (4:3) ▼ pixels	AXIS
5 Audio Settings	Compression: 30 [0100]	
Video & Audio	Rotate image: 180 V degrees	
	Video Stream	

(8) In [Basic Setup] – [4 Video Stream] – [H.264] or [MPEG-4 & H.264] tab, set as follows.

AXISA A	XIS M1011 Netwo	rk Camera Live View Setup	Help
• Basic Setup	Video Stream S	Settings	0
Instructions 1 Users	Image MPEG-4 & H.264	MJPEG	
2 TCP/IP	GOV Settings		
3 Date & Time	Length:	32 [161440]	
4 Video Stream	Bit Rate Control		
Video	Use:	Variable bit rate	
▶ Live View Config	Target bit rate:	Constant bit rate	
Events	Priority:	None 🔻	

Optional Settings

(1) PTZ

When using a PTZ (moving) camera, you can set up the default "Home" position. In [PTZ configuration] – [Preset Positions], adjust the view of the default camera position using the control.



Note:

It is recommended to zoom in on the image (Tele) to have a better "Home" preset. When the view is correctly set up, type "Home" for the Current position and select [Use current position as Home]. Click on [Add] to validate.

If you do not need the camera to return to the "Home" position automatically after 30 sec, just put [0] and validate.

Preset Position Setup		
Current position:		
Home		
✓ Use current position as Home		
Add		
Return to overview after:		

Return to overview after:				
0 [0300] seconds,				
0 = disabled				
Save				

(2) Aspect Ratio Correction

Some Axis IP camera models have a setting option of aspect ratio correction in [Basic Setup] – [4 Video Stream]. Make sure to select [Aspect ratio correction].

AXISA A	XIS XXXXX	Network Camera	Live View Setup Help
Basic Setup Instructions I Users	Video St	ream Settings	0
2 TCP/IP	Image Appearance		
3 Date & Time 4 Video Stream	Resolution:	Aspect ratio correction	

5. Setting up Axis Video Server

5.1. Setting up IP Address of Axis Video Server

To work in the NavNet TZtouch/2 system, the Axis video servers need to be set up with specific IP Addresses. Up to two (2) video servers can be connected on a network.

Axis Video Server No. 1	Axis Video Server No. 2
172.031.200.00 7	172.031.200.00 8

In this example, the Axis M7014 is used.



Follow the Step 1 to 4 in Section 4-1.

(5) Double-click on [AXIS IP Utility] to open the program.

The following window will open, showing the detected cameras in the network.

P AXIS IP Utility	a and the second second	
ファイル (E) 表示 (V) ツール	<u>I) ヘルプ(H)</u>	
ir. 💦 🟠 📀		
	IP ????	??????
AXIS M7014 - 00408CD93F29	192.168.252.3	00408CD93F29

(6) To change the IP address, select a camera and click on "assign new IP address to selected device" button.

ヘルプ(<u>H</u>)	
IP ????	??????
192.168.252.3	00408CD93F29
	ヘルプ(<u>H</u>) IP ???? 192.168.252.3

(7) Enter the correct IP address and click on [Assign]. In this example, [172.31.200.7] will be assigned.



It will take a while before the process is finished.

(8) Check that the IP address is changed.

ヘルプ(H)	
IP ????	??????
172.31.200.7	00408CD93F29
	IP ???? 172.31.200.7

(9) Repeat the process with the other video server if available.

(10) After the IP address is changed, restart the video server (power OFF/ON).

5.2. Configuring Axis Video Server

Axis video servers need to be configured using a Web browser like IP cameras.

(1) Enter the IP address of the video server. In this example, [http://172.31.200.7] is entered.



(2) The camera configuration page will open. Click on [Setup] to access the configuration page.



(3) You will be asked for an ID and password. Enter the following ID and password and click on [OK].

Windows Security	×			
The server 172.31.200.7 at AXIS_00408CA80A2F requires a username and password.				
	ID : " root " Password : " pass "			
OK Cancel				

Note:

When the webpage loads, pay attention to the top of the page to authorize the installation of the ActiveX. Click on the yellow bar and choose [Install ActiveX].

Image: Weight of the state of the						
File Edit View Favorites Tools Help						
2 A C Live view - AXIS 207 Network Camera						
🥡 This website wants to install the following add-on: 'AXIS Media Control' from 'Axis Communications AB'. If you trust the website and the add-on and want to install it, click here						

(ActiveX is a registered trademark or a trademark of Microsoft Corporation in the United States and/or other countries.)

- (4) After entering the ID and password, the Setup page will open.
- (5) In [Basic Setup] [1 Users], select [Enable anonymous viewer login] and click on [Save].

Basic Setup	Users			6
Instructions	User List			
1 Users	User Name	User Group	User Info	
3 Date & Time 4 Video Stream	root	Administrator		
/ideo				
ive View Config				
TZ				
)etectors	Add	Modify		
Events				
Pocordinas	HTTP/RTSP Pag	sword Settings		
recordings	Allow password ty	pe: Encrypted & unencrypte	d 🔻	
ystem Options				
	User Settings			-
About	C Enable anony	mous viewer login (no user n	ame or password required	1)
	V Enable apopy	mous PTZ control login (no u	ser name or password rec	uired)

(6) In [Basic Setup] – [3 Date & Time], select [Synchronize with computer time] and click on [Save].

AXIS	AXIS M7014 Video Encoder Live View Setup Help
* Basic Setun	Date & Time Settings
Instructions	Current Server Time
1 Users	Date: 2001-08-23 Time: 16:26:41
3 Date & Time	New Server Time
A Video Stream	Time zone: GMT (Dublin, Lisbon, London, Reykjavik) 🔻
▶ Video	Automatically adjust for daylight saving time changes.
	Time mode:
Live View Config	Synchronize with computer time
▶ PTZ	Date: 2013-05-17 Time: 13:24:57
+ Detectors	Synchronize with NTP server
	NTP server: <u>No server specified</u>
Events	Set manually
• Recordings	Date: 2001-08-23 Time: 16:26:25
► System Options	Date & Time Format Used in Images
	Specify date format: Predefined YYYY-MM-DD
About	Own %F
	Specify time format: Predefined 24h With resolution: 1 second
	Own 96T
	Save

(7) In [Basic Setup] – [4 Video Stream] – [Video 1] to [Video 4] and [Quad Stream] – [Image] tab, select [Aspect ratio correction], set [Resolution] to [4CIF (640 x 480)] and [Compression] to [30], and click on [Save].

AXIS	AXIS M7014	Video Encoder	AXIS	AXIS M7014	Video Encoder	Live Viev
Basic Setup Instructions Users	Video Stream Settings Image H.264 MJPEG Image Appearance		 ▼ Basic Setup Instructions 1 Users 2 TCP/IP 3 Date & Time √ 4 Video Stream Video 1 Video 2 Video 3 Video 3 Video 4 	Video Stream Settings Image H.264 MJPEG Image Appearance		
2 TCP/IP						
3 Date & Time	Resolution: Aspect ratio correction 4CIF (640 × 480) ▼ Compression: 30 [0100]	Resolution:		Aspect ratio correction		
Video 1				4CIF (640 × 480/768 × 576)	 (NTSC/PAL) 	
Video 2		Compression:		30 [0100]		
Video 3 Video 4	Mirror image			Mirror image	Mirror image	
Quad Stream	Rotate image:	180 🔻 degrees	Quad Stream	Rotate image:	0 • degrees	
a antida a	Color setting:	Color 🔻		Color		
video	Video Stream		▶ Video	Video Stream		
	Maximum frame ra	te:		video Stream		

(8) In [Basic Setup] – [4 Video Stream] – [Video 1] to [Video 4] and [Quad Stream] – [H.264] tab, set as follows.

AXIS	AXIS M7014 Video	Encoder Live	AXIS	AXIS M7014 Video	Encoder	Live
 ▼ Basic Setup Instructions 1 Users 2 TCP/IP 3 Date & Time 	Video Stream Se Image H.264 MJPEG Encoder Settings	ttings	Basic Setup Instructions 1 Users 2 TCP/IP	Video Stream Settings Image H.264 MJPEG Encoder Settings		
	GOV length:	32 [161440]	3 Date & Time	GOV length:	32	[161440]
Video 1	H.264 profile: Baseline 🔻	✓ 4 Video Stream Video 1 Video 2 Video 3	H.264 profile:	Main	-	
Video 2	Bit Rate Control		Bit Rate Control			
Video 3	Use: Variable bit rate Constant bit rate		Use:	Vari	iable bit rate	
Video 4 Ouad Stream		Constant bit rate	Video 4 Quad Stream		Cor	n <mark>stant bit rate</mark>
	Target bit rate:	kbit/s		Target bit rate:		kbit/s
Video	Priority:	None	Video	Priority:	None	-

6. Showing Camera Images

This section describes how to show camera images on the TZT9/14/BB and TZTL12F/15F.

6.1. Checking Axis IP Camera(s) in Menu

(1) After the interconnection and setup of IP cameras finish, check that they are detected in the TZT9/14/BB and TZTL12F/15F network, accessing [Menu]/[Settings] – [Camera] – [IP Camera 1] to [IP Camera 4].

Detected			Disconnected or Not Detected				
Menu Camera		Close	Menu Camera		Close		
IP Camera 1		Targets	IP Camera 1		Target		
NickName	IP Camera 1 📟	Alarm	NickName	IP Camera 1 📟	Alarn		
🕑 IP Camera	172.31.200.3 🛥		🗶 IF Camera	172.31.200.3 📟			
PTZ Control	ON OFF	Files	PTZ Control	ON OFF	File		
IP Camera 2		Units	IP Camera 2		Unit		
NickName	IP Camera 2 🛥	Camera	NickName	IP Camera 2 🛥	Camer		

(2) Available IP camera sources are displayed in the RotoKey ™ or contextual menu.



6.2. Checking Axis Video Server(s) in Menu

(1) After the interconnection and setup of video servers finish, check that they are detected in the TZT9/14/BB and TZTL12F/15F network, accessing [Menu]/[Settings] – [Camera] – [Axis Quad Server] and [Second Axis Quad Server].



(2) Available video server sources are displayed in the RotoKey [™] menu.In this example, [Quad Mode] and [Input 1] to [Input 4] are set to [ON] in menu, thus showing all the selections.



7. Tips – 4 x IP Cameras + 2 x Video Servers

As Axis IP camera and video server sources, a maximum of four (4) sets of IP cameras and two (2) sets of video servers are available in one network. In this example, the following items are configured and networked with the TZT14.

No	Items	Models	IP Addresses
1	IP Camera	M1011 (No. 1)	172.031.200.00 3
2	IP Camera	M1011 (No. 2)	172.031.200.00 4
3	IP Camera	M1011 (No. 3)	172.031.200.00 5
4	IP Camera	M1011 (No. 4)	172.031.200.00 6
5	Video Server	M7014	172.031.200.00 7
6	Video Server	P7214	172.031.200.00 8

(1) All the IP cameras and video servers are assigned with dedicated IP addresses as shown in the AXIS IP Utility.

IP AXIS IP Utility		
ファイル (E) 表示 (V) ツール ((<u>I</u>) ヘルプ(<u>H</u>)	
IP, 🕎 🏠 🥝		
??	IP ????	??????
AXIS M1011 - 00408CA80AF6	172.31.200.6	00408CA80AF6
AXIS M1011 - 00408CA80A34	172.31.200.3	00408CA80A34
AXIS M1011 - 00408CA80A98	172.31.200.4	00408CA80A98
AXIS M7014 - 00408CD93F29	172.31.200.7	00408CD93F29
AXIS M1011 - 00408CA80A2F	172.31.200.5	00408CA80A2F
AXIS P7214 - 00408CCA0598	172.31.200.8	00408CCA0598
•	III	

(2) All the IP cameras and video servers are detected by the TZT14.

[Menu] – [Camera] – [IP Camera 1 to 4], [Axis Quad Server], and					[Menu] – [Initial Setup]	– [Sensor	
[Second Axis Quad Server]					List]			
Menu Camera		Close	Menu Camera		Close	Other Sensors	Nickname	10
IP Camera 1		Targets	Avis Orrad Server		Tarnets	IP Camera #1	IP Camera 1	172.31.200.3
NickName	IP Camera 1 📟	Alarm	Server	ON OFF	largets	IP Camera #2	IP Camera 2	172.31.200.4
⊘ II Camera	172.31.200.3 👄	Auditin	I Server	172.31.200.7 📟	Alarm	IP Camera #3	IP Camera 3	172 31 200 5
PTZ Control	ON OFF	Files	Quad Mode	ONOFF	Files	In Comment BA	ID Common d	173 31 300 6
IP Camera 2		Units	input 1	ON OFF	Units	IP Camera #4	IP Camera 4	1/2.31.200.6
NickName	IP Camera 2 📟	Camera	Input 2	ONOFF	Camera	Quad 1 All Input	Quad	172.31.200.7
😔 II Camera	172.31.200.4 📟	Initial Satur	Input 3	ON OFF	Initial Catur	Quad 2 All Input	Quad	172.31.200.8
PTZ Control	ON OFF	initial Setup	Input 4	ON OFF	Initial Setup	Quad 1 Input 1	Video 1	172.31.200.7
IP Camera 3			Second Axis Quad Se	rver		Quad 1 Input 2	Video 2	172.31.200.7
NickName	IP Camera 3 👄	The second secon	Server	ONOFF	ROST	Quad 1 Input 3	Video 3	172 31 200 7
🖉 🛿 Camera	172.31.200.5 📟		I Server	172.31.200.8 388		Quad a super o	video s	AF ALCONTON
PTZ Control	ON OFF	X 32 37	Quad Mode	ON OFF		Quad 1 Input 4	Video 4	172.31,200.7
IP Camera 4	XXXXXXX		Input 1	ON OH		Quad 2 Input 1	Video 1	172.31.200.8
NickName	IP Camera 4 📟		Input 3	ON ON		Quad 2 Input 2	Video 2	172.31.200.8
Ø II Camera	172.31.200.6 📟		Input 4	ON OFF		Quad 2 Input 3	Video 3	172.31.200.8
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					Quad 2 Input 4	Video 4	172 31 200 8

#### Notes:

In one <u>TZT9/14/BB</u>, a maximum of two (2) screens can be allocated to the Camera page in the 3-split screen mode. Select one of these sources in each screen.



Among multiple IP camera inputs, the <u>TZTL12F/15F</u> can assign only <u>one camera screen per display</u>. Two (2) camera images <u>CANNOT</u> be simultaneously shown on both quarter (1/4)



screens as shown at right.



To see each camera image,

manually switch sources between each source on one camera screen as shown at left because it is <u>NOT</u> compatible with the scrolling function.

To get multiple camera images to show at the same time on a TZTL12F/15F use analog cameras connected to a Quad server and display the combined image on a full screen.

#### --- END ----

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