



Tiandy

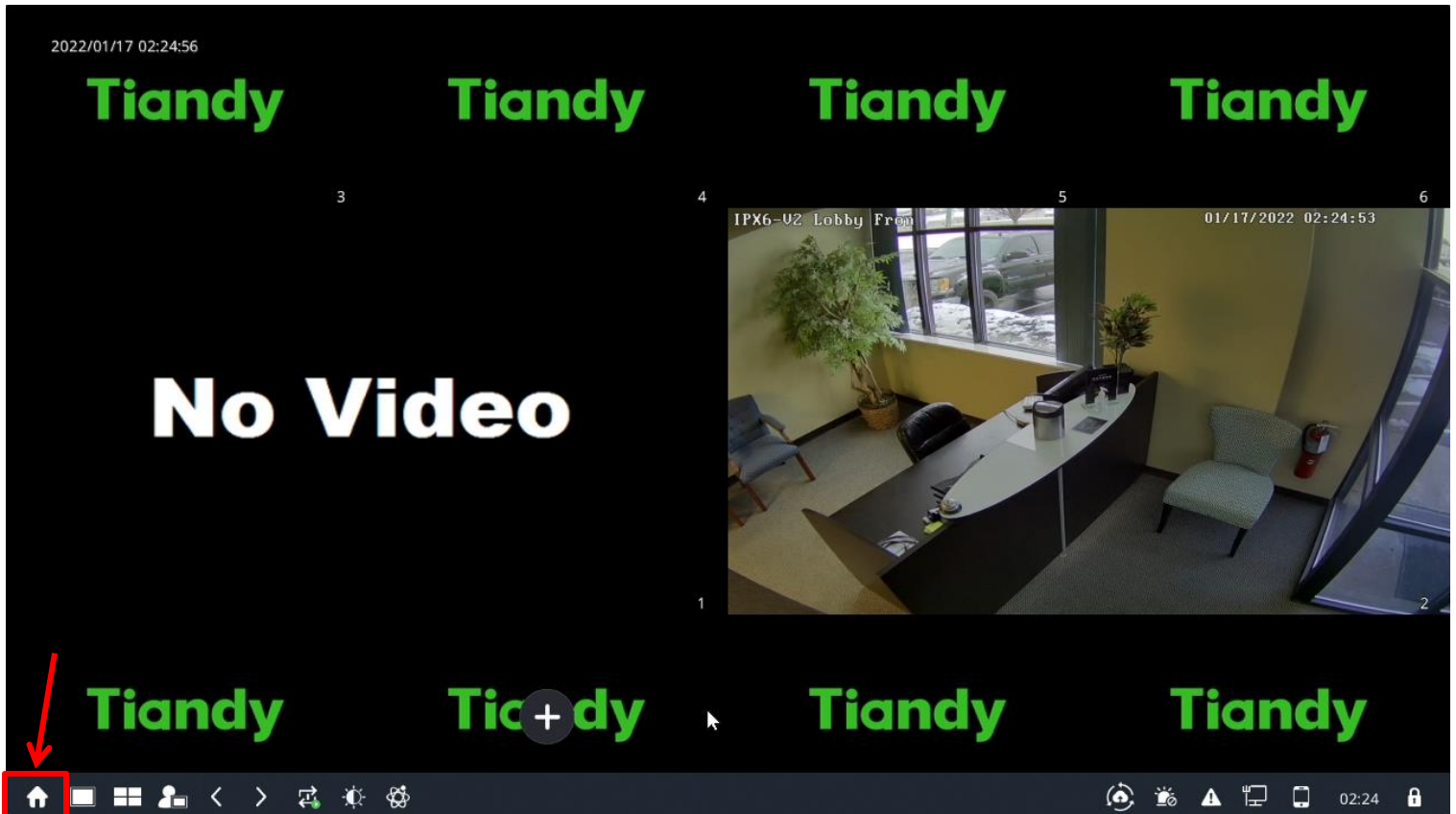
HOW-TO-GUIDE

HOW TO: Add an IP Camera using Onvif or RTSP to a Tiandy NVR

In this guide we will be providing you a walkthrough on how to add an IP camera using Onvif protocol or via RTSP stream to any Tiandy NVR.

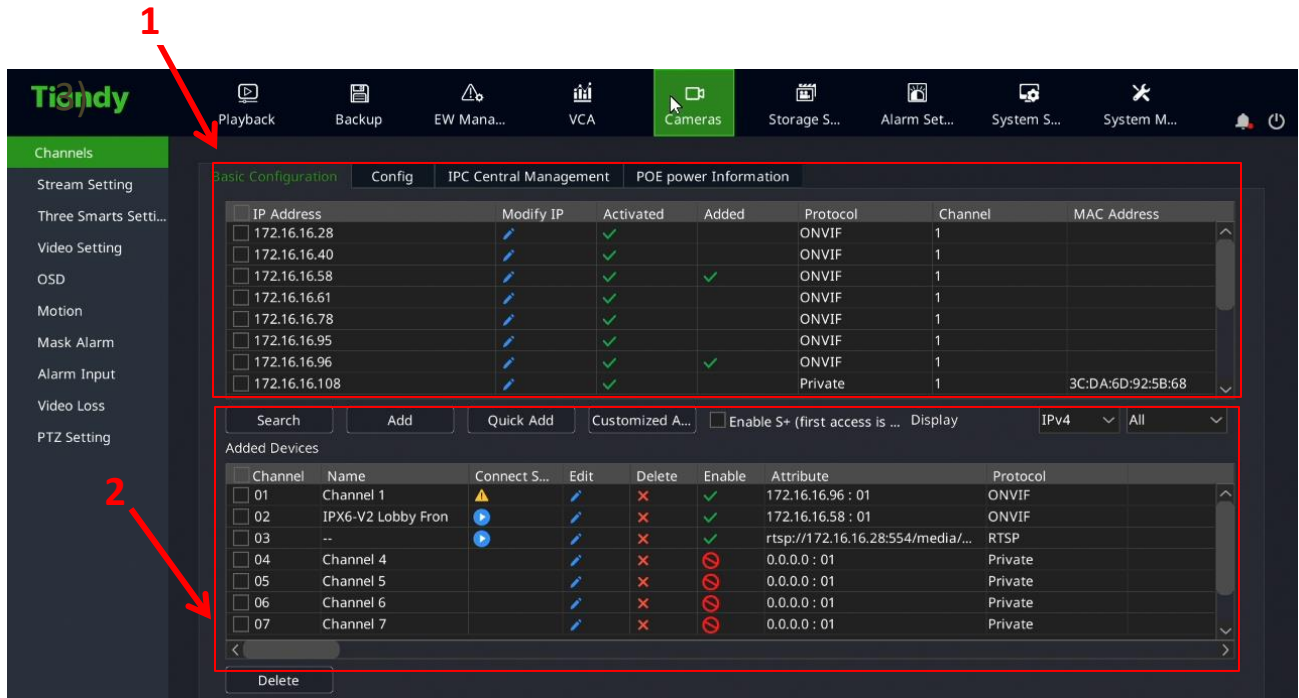
Adding IPC using the Onvif Protocol

On the NVR navigate to the lower left corner and click the “Home” icon



This should bring you directly to the Cameras section. If it does not, select such tab option via the top bar. Within this page you will be presented with 2 lists:

- 1) The top list which displays any recognized cameras found within your local network. (If the top list is not populated you can click the search button located between the 2 lists to search for any available cams.)
- 2) The bottom list displays your added cameras. (If a NVR has built in PoE you will see the PoE channels pre-added and unable to be deleted. However they can be modified if you are not using the built in poe ports for your IP Cameras.

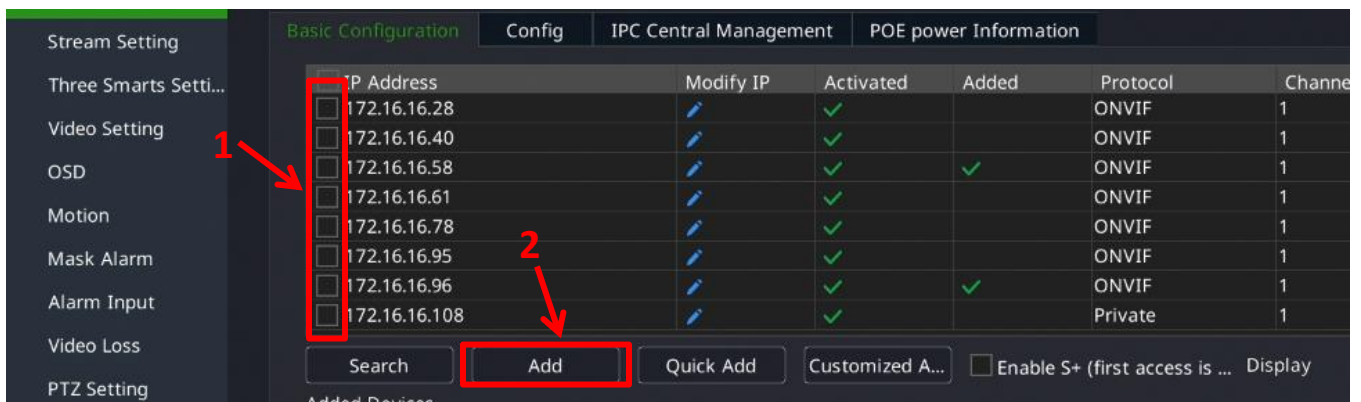




Adding Cams:

How to Quick Add:













(Note this option only works if the cameras password has not been changed. Typically it is always recommended to manually add non Tiandy IP Camera.)

1. Locate the IP address(es) of the camera(s) you would like to add via the top list of found devices and put a check mark within the box next to it
2. Select the option "Add".



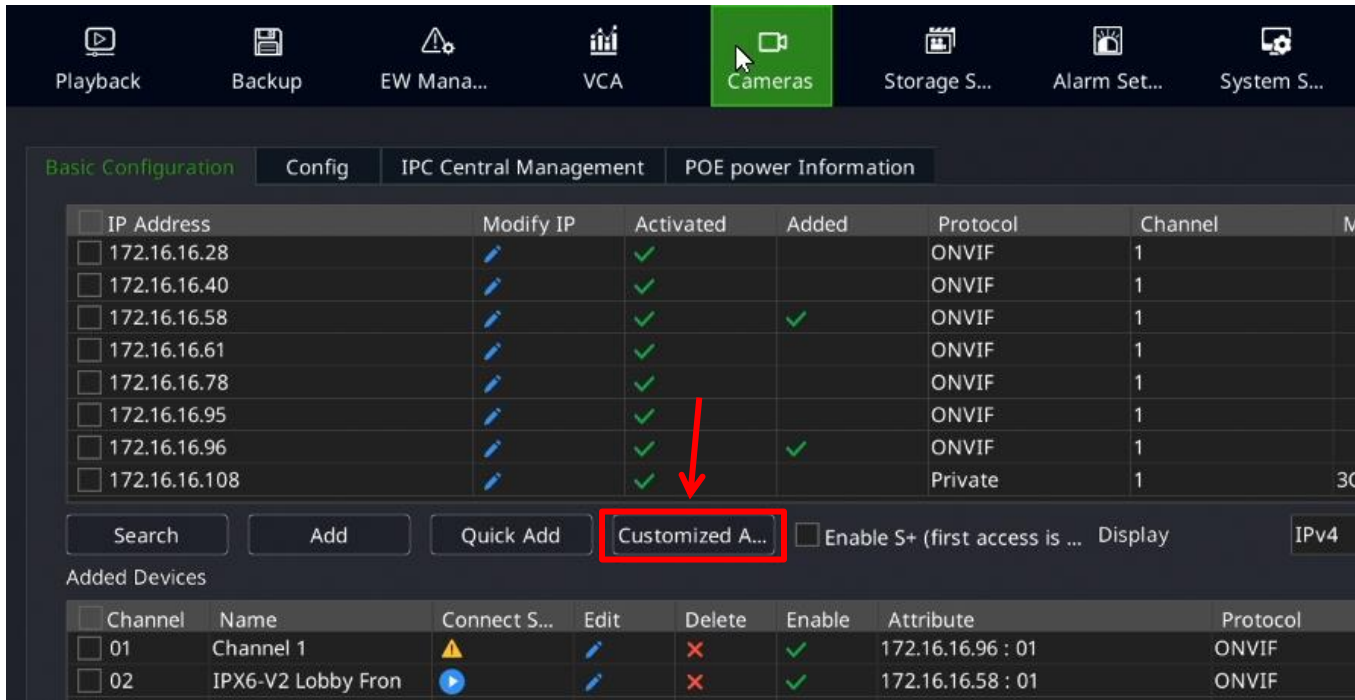
If the camera has added correctly you will see a blue play icon  within the “Added Device list. If not connecting properly you will see a yellow triangle icon  in which it would be recommended to manually add your Onvif IP Camera.

Added Devices



















Channel	Name	Connect S...	Edit	Delete	Enable	Attribute	Protocol
<input type="checkbox"/> 01	Channel 1					172.16.16.96 : 01	ONVIF
<input type="checkbox"/> 02	IPX6-V2 Lobby Fron					172.16.16.58 : 01	ONVIF
<input type="checkbox"/> 03	--					rtsp://172.16.16.28:554/media/...	RTSP

How to Manually Add Using Onvif:

1. Within the “Cameras” page select the option labeled “**Customized Add**”.



The screenshot shows the 'Cameras' management page. At the top, there are navigation icons for Playback, Backup, EW Mana..., VCA, Cameras (highlighted), Storage S..., Alarm Set..., and System S... Below this is a sub-menu with 'Basic Configuration', 'Config', 'IPC Central Management', and 'POE power Information'. The main area contains a table of IP addresses with columns for IP Address, Modify IP, Activated, Added, Protocol, and Channel. The 'Customized A...' button is highlighted with a red box, and a red arrow points to it. Below the table, there are buttons for Search, Add, Quick Add, and Customized A... (highlighted), along with a checkbox for 'Enable S+ (first access is ...)' and a 'Display' button. At the bottom, there is an 'Added Devices' section with a table showing the status of added devices.

IP Address	Modify IP	Activated	Added	Protocol	Channel
<input type="checkbox"/> 172.16.16.28				ONVIF	1
<input type="checkbox"/> 172.16.16.40				ONVIF	1
<input type="checkbox"/> 172.16.16.58				ONVIF	1
<input type="checkbox"/> 172.16.16.61				ONVIF	1
<input type="checkbox"/> 172.16.16.78				ONVIF	1
<input type="checkbox"/> 172.16.16.95				ONVIF	1
<input type="checkbox"/> 172.16.16.96				ONVIF	1
<input type="checkbox"/> 172.16.16.108				Private	1

2. Within the Customized Adding page fill in the cameras corresponding information including the “**Device Address**”, “**Port No**”, “**User**” and “**Password**”. Once all fields are filled in select the option labeled “**Add**”.

Channel No. [04]Channel 4
Protocol ONVIF
Connect mode IPv4
Network type TCP
Device Address 172.16.16.188
Port No. 80
Proxy IP
Device Channel 01
User admin
Password ****
Decryption

Sync password to get res...



Batch Adding Continue to add Add Cancel













Device Address – Here you will fill in your IP Cameras IP Address.

Port No – Here you will fill in your IP Cameras port number (typically 80 for most onvif cams)

User – Here you will fill in your IP Cameras username

Password – Here you will fill in your IP Cameras password

If the camera has added correctly you will see a blue play icon  within the “Added Device list. If not connecting properly you will see a yellow triangle icon  in which it would be recommended to manually add your Onvif IP Camera.

Channel	Name	Connect S...	Edit	Delete	Enable	Attribute	Protocol
<input type="checkbox"/> 01	Channel 1					172.16.16.96 : 01	ONVIF
<input type="checkbox"/> 02	IPX6-V2 Lobby Fron					172.16.16.58 : 01	ONVIF
<input type="checkbox"/> 03	--					rtsp://172.16.16.28:554/media/...	RTSP

How to Manually Add Using Onvif:

1. Within the “Cameras” page select the option labeled “**Customized Add**”.

IP Address	Modify IP	Activated	Added	Protocol	Channel
<input type="checkbox"/> 172.16.16.28		✓		ONVIF	1
<input type="checkbox"/> 172.16.16.40		✓		ONVIF	1
<input type="checkbox"/> 172.16.16.58		✓	✓	ONVIF	1
<input type="checkbox"/> 172.16.16.61		✓		ONVIF	1
<input type="checkbox"/> 172.16.16.78		✓		ONVIF	1
<input type="checkbox"/> 172.16.16.95		✓		ONVIF	1
<input type="checkbox"/> 172.16.16.96		✓	✓	ONVIF	1
<input type="checkbox"/> 172.16.16.108		✓		Private	1

Channel	Name	Connect S...	Edit	Delete	Enable	Attribute	Protocol
<input type="checkbox"/> 01	Channel 1				✓	172.16.16.96 : 01	ONVIF
<input type="checkbox"/> 02	IPX6-V2 Lobby Fron				✓	172.16.16.58 : 01	ONVIF

2. Change the “**Connect mode**” to the option “**RTSP**”.

Channel No. [03]IPCamera

Protocol Private Protocol

Connect mode Private Protocol

Device Address ONVIF

Port No. 3000

Proxy IP

Device Channel 01

User admin

Password ****

Decryption

For the non-activated IPC, the NVR pass...

Sync password to get res...

3. Fill in the corresponding RTSP fields.

Channel No. - Here you would select the channel you'd like to add the camera to.

Protocol – No change needed

Network Type – No change needed

Main stream & Sub Stream URL –Here you will input your IP Cameras corresponding RTSP string. Example RTSP string below.

Example Flux & UNV RTSP information:

Flux	rtsp://<ip_address>:554/stream<0 or 1>
UniView	rtsp://<ip_address>:554/media/video<1 or 2>

<ip_address>=the ip address of the camera you are trying to add
<# or #>=the stream number, With Flux the main stream is at 0 and the sub at 1 and with UNV the Main is at 1 and the sub is at 2

User – Here you will enter the User name for the camera

Password – Here you will enter the Password for the camera

Once all fields are filled in correctly select the option **“Add”**.

Customized Adding

Channel No. [04]Channel 4

Protocol RTSP

Network type TCP

Main stream URL rtsp://

Sub-stream URL rtsp://



User admin













Password *****

i For the non-activated IPC, the NVR pass...

Sync password to get res...

Batch Adding Continue to add Add Cancel

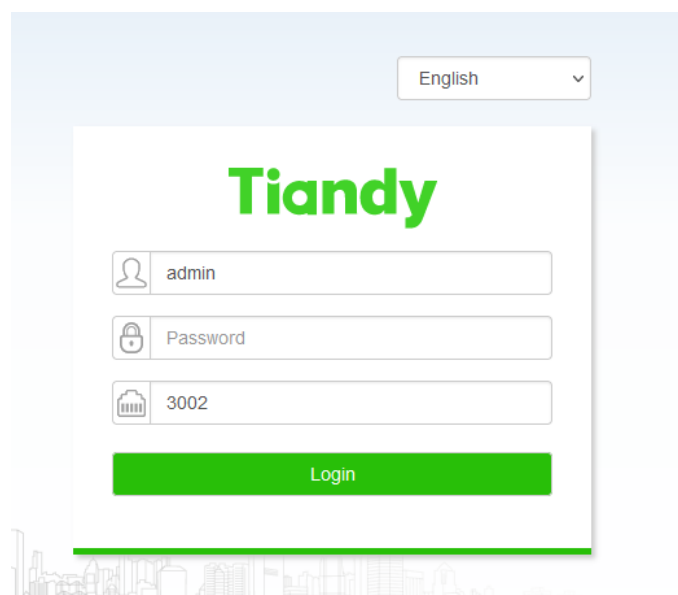
If the camera has added correctly you will see a blue play icon  within the “Added Device list. If not connecting properly you will see a yellow triangle icon  in which it would be recommended to manually add your Onvif IP Camera.

Added Devices							
Channel	Name	Connect S...	Edit	Delete	Enable	Attribute	Protocol
<input type="checkbox"/> 01	Channel 1					172.16.16.96 : 01	ONVIF
<input type="checkbox"/> 02	IPX6-V2 Lobby Fron					172.16.16.58 : 01	ONVIF
<input type="checkbox"/> 03	--					rtsp://172.16.16.28:554/media/...	RTSP

Adding IPC using the Onvif Protocol via Web Client

Adding IPC Using Onvif:

1. Open a web browser and navigate to the ip address of the NVR.
This info can be found in System Setting tab under Network Settings
2. From there, login using the username and password of your Tiandy NVR.



Once Logged in you will be presented with the Live View page

1. At the top select Configuration
2. Then select Digital Channel (located on the left)

The screenshot shows the Tiandy web interface. At the top, there are tabs for 'Live View', 'Playback', 'Log', 'Configuration', and 'EW'. The 'Configuration' tab is selected and highlighted with a red box and arrow labeled '1'. On the left sidebar, the 'Digital Channel' menu item is highlighted with a red box and arrow labeled '2'. Below the sidebar, there are sections for 'Basic Set', 'Digital Channel', and 'POE Power Information'. The 'Digital Channel' section contains a table with columns: 'Cha...', 'Camera ...', 'Connection Status', 'Attribute', 'Protocol Type', 'State', 'Modify', 'Cloud Up...', and 'Restart IPC'. The table lists 8 channels with their respective IP addresses, connection statuses, and states.

Cha...	Camera ...	Connection Status	Attribute	Protocol Type	State	Modify	Cloud Up...	Restart IPC
<input type="checkbox"/>	1	Channel 1	Off Line(Usernam...	172.16.16.96:1	Onvif	Enabled	Modify	
<input type="checkbox"/>	2	IPX6-V2 ...	On Line	172.16.16.58:1	Onvif	Enabled	Modify	Restart IPC
<input type="checkbox"/>	3	--	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	4	Channel 4	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	5	Channel 5	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	6	Channel 6	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	7	Channel 7	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	8	Channel 8	Off Line	0.0.0.0:1	Private	Forbidden	Modif	

Two list will be displayed the top list shows available cameras and the bottom shows Channels. If the top list is empty click the "Search" button to populate the cameras list.

The screenshot shows the Tiandy web interface with the 'Digital Channel' configuration page. The left sidebar shows the 'Digital Channel' menu item selected. The main content area displays two lists. The top list shows available cameras with columns: 'Camera ...', 'Connection Status', 'Attribute', 'Protocol Type', 'State', 'Modify', 'Cloud Up...', and 'Restart IPC'. The bottom list shows channels with columns: 'Cha...', 'Camera ...', 'Connection Status', 'Attribute', 'Protocol Type', 'State', 'Modify', 'Cloud Up...', and 'Restart IPC'. The table lists 8 channels with their respective IP addresses, connection statuses, and states.

Camera ...	Connection Status	Attribute	Protocol Type	State	Modify	Cloud Up...	Restart IPC
172.16.16.110	Private	1	Activated	3C:DA:6D:8F:E3:F7	Edit	Add	
172.16.16.108	Private	1	Activated	3C:DA:6D:92:5B:68	Edit	Add	
172.16.16.111	Private	1	Activated	3C:DA:6D:86:F0:C9	Edit	Add	
172.16.16.109	Private	1	Activated	3C:DA:6D:4E:21:0B	Edit	Add	
172.16.16.96	Onvif	1	Added	Activated	Edit	Add	
172.16.16.95	Onvif	1	Activated		Edit	Add	
172.16.16.40	Onvif	1	Activated		Edit	Add	
172.16.16.115	Onvif	1	Activated		Edit	Art	

Cha...	Camera ...	Connection Status	Attribute	Protocol Type	State	Modify	Cloud Up...	Restart IPC
<input type="checkbox"/>	1	Channel 1	Off Line(Usernam...	172.16.16.96:1	Onvif	Enabled	Modify	
<input type="checkbox"/>	2	IPX6-V2 ...	On Line	172.16.16.58:1	Onvif	Enabled	Modify	Restart IPC
<input type="checkbox"/>	3	--	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	4	Channel 4	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	5	Channel 5	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	6	Channel 6	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	7	Channel 7	Off Line	0.0.0.0:1	Private	Forbidden	Modify	
<input type="checkbox"/>	8	Channel 8	Off Line	0.0.0.0:1	Private	Forbidden	Modif	

Quick Add:

(Note this option only works if the cameras password has not been changed. Typically it is always recommended to manually add non Tiandy IP Camera.)

1. Locate the IP address(es) of the camera(s) you would like to add via the top list of found devices and put a check mark within the box next to it
2. Select the option "Add". (Note if the camera does not connect refer to the Manually add instructions)

The screenshot shows the Tiandy Configuration interface. The top navigation bar includes 'Live View', 'Playback', 'Log', 'Configuration' (highlighted in green), and 'EW'. Below this, there are tabs for 'Basic Set', 'Digital Channel', and 'POE Power Information'. The 'Digital Channel' tab is active, displaying a table of found devices. A red box labeled '1' highlights the checkbox column, and a red arrow points to the 'Add' button in the table's toolbar. Below the toolbar, another table shows the configuration for each channel. A red box labeled '2' highlights the 'Add' button in this second table's toolbar.

Chn No.	IP Address	Protocol Type	Chn No.	Add status	Activation st...	MAC	Edit	Add
1	172.16.16.28	Onvif	1		Activated		Edit	Add
2	172.16.16.40	Onvif	1		Activated		Edit	Add
3	172.16.16.58	Onvif	1	Added	Activated		Edit	Add
4	172.16.16.61	Onvif	1	Added	Activated		Edit	Add
5	172.16.16.95	Onvif	1		Activated		Edit	Add
6	172.16.16.96	Onvif	1	Added	Activated		Edit	Add
7	172.16.16.108	Private	1		Activated	3C:DA:6D:92:5B:68	Edit	Add
8	172.16.16.115	Onvif	1		Activated		Edit	Add

Chn No.	Camera Name	Connection Status	Attribute	Protocol Type	State	Modify	Cloud Up...	Restart IPC
1	Channel 1	Off Line(Usernam...	172.16.16.96:1	Onvif	Enabled	Modify		
2	IPX6-V2 ...	On Line	172.16.16.58:1	Onvif	Enabled	Modify		Restart IPC
3	IPCamera	On Line	rtsp://172.16.16.188:554/stream0	RTSP	Enabled	Modify		
4	IPX17 Lo...	Off Line(Off Line)	172.16.16.61:1	Onvif	Enabled	Modify		
5	Channel 5	Off Line	0.0.0.0:1	Private	Forbidden	Modify		
6	Channel 6	Off Line	0.0.0.0:1	Private	Forbidden	Modify		
7	Channel 7	Off Line	0.0.0.0:1	Private	Forbidden	Modify		
8	Channel 8	Off Line	0.0.0.0:1	Private	Forbidden	Modifi		

Manually Add:

There are two ways you can typically manually add an IPC to a Tiandy NVR. These include adding via the Customized Add option or by modifying a pre-added camera. Note pre-added cameras are only relevant when working with a Tiandy NVR with built in PoE channels.

1. To customize add simply select the option labeled **“Customized Add”**.
2. To modify a pre-added camera simply select the option **“Modify”** next to the channel you would like to adjust.

The screenshot displays the Tiandy NVR Configuration interface. The top navigation bar includes 'Live View', 'Playback', 'Log', 'Configuration' (highlighted), and 'EW'. The left sidebar shows various configuration categories, with 'Digital Channel' selected. The main area is titled 'Digital Channel' and contains a table of channels. A red box labeled '1' highlights the 'Customize...' button in the toolbar below the table. Another red box labeled '2' highlights the 'Modify' button in the 'Modify' column of the table. The table has columns for Channel No., Camera Name, Connection Status, Attribute, Protocol Type, State, and Modify. The 'Modify' column contains 'Modify' links for channels 1 through 8.

Channel No.	Camera Name	Connection Status	Attribute	Protocol Type	State	Modify
1	Channel 1	Off Line(Usernam...	172.16.16.96:1	Onvif	Enabled	Modify
2	IPX6-V2 ...	On Line	172.16.16.58:1	Onvif	Enabled	Modify
3	IPCamera	On Line	rtsp://172.16.16.188:554/stream0	RTSP	Enabled	Modify
4	IPX17 Lo...	On Line	172.16.16.61:1	Onvif	Enabled	Modify
5	Channel 5	Off Line	0.0.0.0:1	Private	Forbidder	Modify
6	Channel 6	Off Line	0.0.0.0:1	Private	Forbidder	Modify
7	Channel 7	Off Line	0.0.0.0:1	Private	Forbidder	Modify
8	Channel 8	Off Line	0.0.0.0:1	Private	Forbidder	Modify

3. Fill in the cameras corresponding information and then select “**Confirm**”. Review details below for reference.

Device Type – Set to Onvif

Connect Mode – No changes needed

IP Address – Input your IP Cameras IP Address

Proxy IP – No changes needed

Username – Input your IP Cameras user name

Password – Input your IP Cameras password

Device Channel – No changes needed

Device Port – Input your IP Cameras port (typically 80 by default on most cams)

Stream – No change needed

Password Decryptor – No change needed

Manual

Channel No.	[3] Channel 3	▼
Add Method	Manual Add	▼
Device Type	Private	▼
Connect Mode	IPv4	▼
IP Address	0.0.0.0	
ProxyIP		
User Name	admin	
Password	•••••	
Device Channel	Channel No. 1	▼
Device Port	3000	
Stream	1st Stream	▼
Password Decryptor		

Sync password to get reserved information.

Confirm

Manually Add with RTSP:

Refer to page 11 instructions to get to this point.

1. Change the “Device Type” from Private to “RTSP” and fill in the below information.

Device Type – Set to RTSP

Username – Input your IP Cameras user name

Password – Input your IP Cameras password

Network Type – No change needed

Main Stream URL – Fill in corresponding RTSP string for the camera you are attempting to add

Sub Stream URL - Fill in corresponding RTSP string for the camera you are attempting to add

Customized Adding

Channel No.	[3] Channel 3	▼
Add Method	Manual Add	▼
Device Type	RTSP	▼
Connect Mode	IPv4	▼
IP Address	0.0.0.0	<input type="checkbox"/> Batch
ProxyIP		
User Name	admin	
Password	•••••	
Device Channel	Channel No.1	~ Channel No.1f
Stream	1st Stream	▼
Password Decryptor		
Network type	TCP	▼
Main stream URL	rtsp://	
Sub-stream URL	rtsp://	
<input checked="" type="checkbox"/> Sync password to get reserved information.		

Example Flux & UNV RTSP information:

Flux	rtsp://<ip_address>:554/stream<0 or 1>
UniView	rtsp://<ip_address>:554/media/video<1 or 2>

<ip_address>=the ip address of the camera you are trying to add

<# or #>=the stream number, With Flux the main stream is at 0 and the sub at 1 and with UNV the Main is at 1 and the sub is at 2

Confirm

Upon successful addition of the camera the Channel list will show it as “On Line”. If Offline review the previous steps and confirm all information is input correctly.

Tiandy Live View Playback Log **Configuration** EW

Basic Set Digital Channel **Digital Channel** Digital Channel Audio Video Set Network Event Schedule VCA Advanced Intelligence Storage Dome Set System

Digital Channel POE Power Information

<input type="checkbox"/>	IP Address	Protocol Type	Chn No.	Add status	Activation st...	MAC	Edit	Add
<input type="checkbox"/>	172.16.16.81	Onvif	1	Added	Activated		Edit	Add
<input type="checkbox"/>	172.16.16.95	Onvif	1		Activated		Edit	Add
<input type="checkbox"/>	172.16.16.96	Onvif	1	Added	Activated		Edit	Add
<input type="checkbox"/>	172.16.16.108	Private	1		Activated	3C:DA:6D:92:5B:68	Edit	Add
<input type="checkbox"/>	172.16.16.115	Onvif	1		Activated		Edit	Add
<input type="checkbox"/>	172.16.16.157	Onvif	1		Activated		Edit	Add
<input type="checkbox"/>	172.16.16.188	Onvif	1		Activated		Edit	Add
<input checked="" type="checkbox"/>	172.16.16.235	Onvif	1		Activated		Edit	Add

Search Add Customize... Quick Add Advance Set Display and Screen IPv4 All

<input type="checkbox"/>	Cha...	Camera ...	Connection Status	Attribute	Protocol Type	State	Modify	Cloud Up...	Restart IPC
<input type="checkbox"/>	1	Channel 1	Off Line(Usernam...	172.16.16.96:1	Onvif	Enabled	Modify		
<input type="checkbox"/>	2	IPX6-V2 ...	On Line	172.16.16.58:1	Onvif	Enabled	Modify		Restart IPC
<input type="checkbox"/>	3	IPCamera	On Line	rtsp://172.16.16.188:554/stream0	RTSP	Enabled	Modify		
<input type="checkbox"/>	4	IPX17 Lo...	On Line	172.16.16.61:1	Onvif	Enabled	Modify		Restart IPC
<input type="checkbox"/>	5	Channel 5	On Line	rtsp://172.16.16.28/media/video1	RTSP	Enabled	Modify		
<input type="checkbox"/>	6	Channel 6	Off Line	0.0.0.0:1	Private	Forbidden	Modify		
<input type="checkbox"/>	7	Channel 7	Off Line	0.0.0.0:1	Private	Forbidden	Modify		
<input type="checkbox"/>	8	Channel 8	Off Line	0.0.0.0:1	Private	Forbidden	Modify		

Remove