

KX-NS Step by Step Guide KX-NTV / KX-HDV430

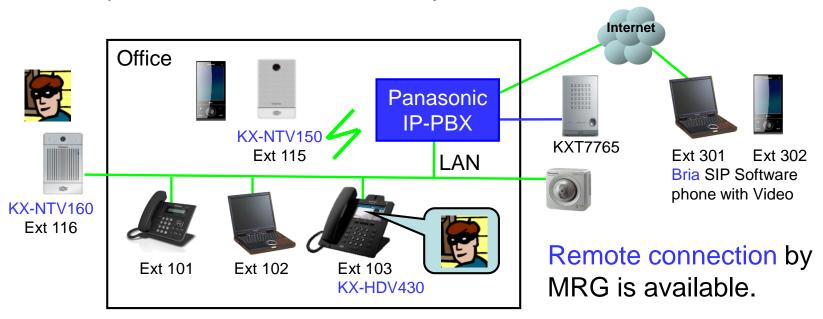
September 29, 2016

Panasonic System Networks
PBX SE team

Specifications are subject to change without notice.

1. Introduction

PBX, phone and security camera can be provided by Panasonic. Other major PBX maker do not have security camera.



2. Basic Specifications

KX-NTV150: Communication SIP Camera

- PoE / Wi-Fi (*)
- Built-in Speaker and Microphone
- Call button
- (*) AC Adaptor KX-A239 is required.



- PoE only
- Built-in Speaker and Microphone
- Call button
- IP-Grade : IP43





3. Requirement

KX-NS300/500/700/1000 version 4.3 or later with DSP Version 4.2 can be used for demo only.

KX-NTV does NOT work with other PBX including SIP server.

Video call of KX-NTV is available with only following phones.

KX-HDV430

SIP software phone Bria by CounterPath for PC, tablet or smart-phone (Other SIP video phones such as Grandstream are not recommended.)

Phone	Protocol	Virtual card	AK for KX-NS
KX-NT	MGCP	V-IPEXT card	KX-NSM5xx
KX-HDV / KX-NTV	SIP	V-SIPEXT card	KX-NSM5xx
3 rd party SIP phone	SIP	V-SIPEXT card	KX-NSM7xx

http://www.counterpath.com/bria/

KX-NTV supports H.264. But X-Lite by CounterPath supports H.263.

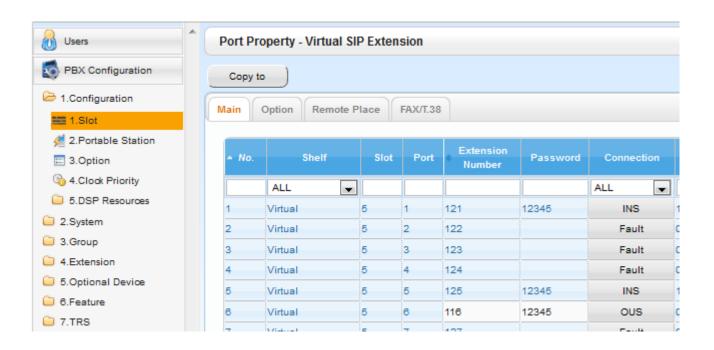
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Chapter 1 KX-NS Programming

11. Make SIP Account for KX-NTV.

See step by step guide No.12 for details.



Chapter 2 KX-NTV: Initial Setup

21. Initialize KX-NTV.

If KX-NTV has bee already registered to other PBX, it is required to initialize. Keep pressing reset button for 30s.

<KX-NTV150>



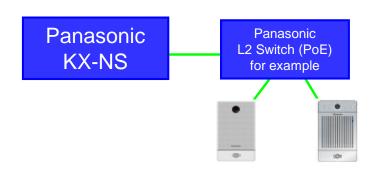
<KX-NTV160>



22. Connect KX-NTV to PoE L2-Switch.

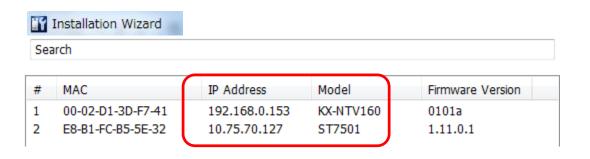
Connect KX-NTV150/160 to KX-HTS through PoE L2-Switch. KX-NTV150/160 gets IP address. (KX-NTV is not registered as SIP extension automatically.)

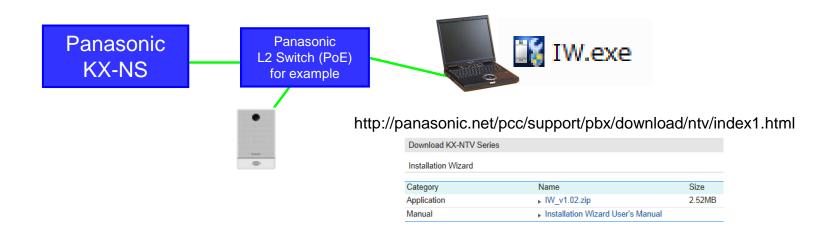
- Wait until yellow LED starts flashing.
- LED: Red (15s) -> Off (10s)-> Red (20s) -> Yellow Flash





23. Find IP address of KX-NTV using IW.exe.



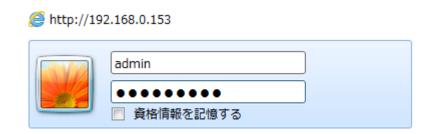


24. Log-in using Internet Explorer.

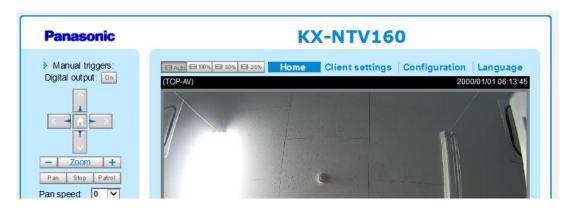
Log-in to KX-NTV.

ID = admin

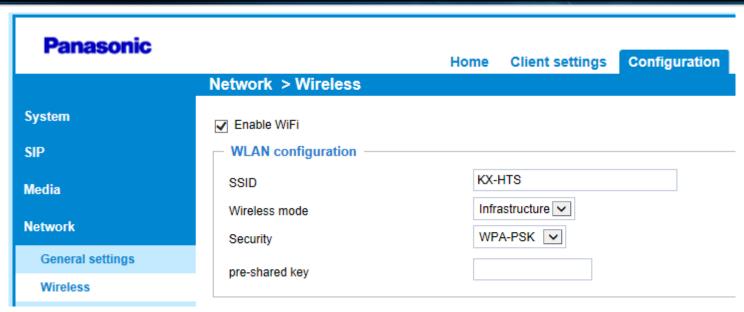
Password = adminpass



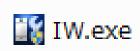
If web browser is Internet Explorer, add-in module is installed automatically as camera viewer.



25. Connect KX-NTV150 by Wi-Fi.



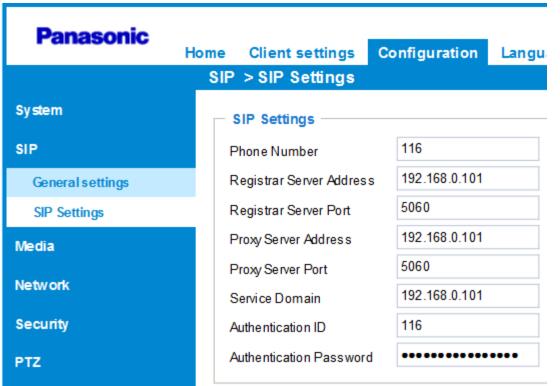




Confirm IP address of KX-IW.exe NTV150 again.

Chapter 3 KX-NTV: SIP & Video

31. Log in to KX-NTV for SIP registration.

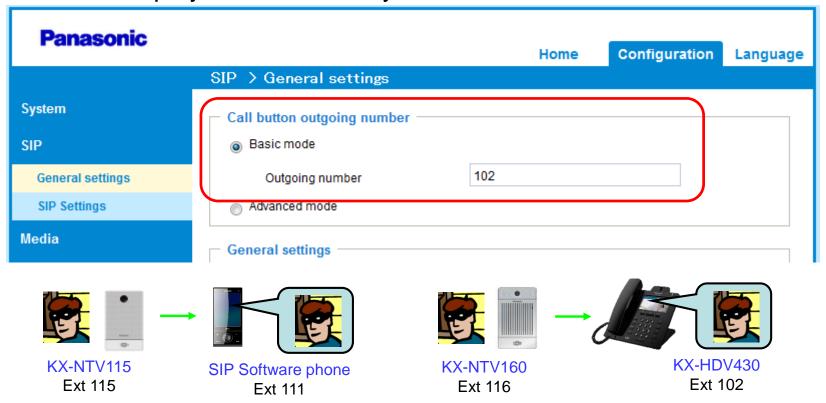




LED becomes green after registration.

32. Assign Destination of Call Button.

Video is displayed automatically after call is answered.



33. Reference: Group Call

If the destination is extension number for group, group call is also available.





34. Adjust General Settings.

<KX-NTV150> Client settings Configuration Home SIP > General settings Call button outgoing number Basic mode 111 Outgoing number Advanced mode General settings Call ring duration 15 second 60 Call duration second | Villeo monitor before answer Ringbacktone after finish video monitor

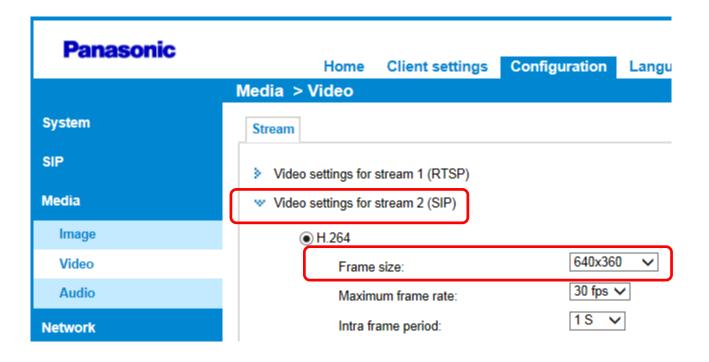
In lication of call status when receiving call

<KX-NTV160>

	Home	Client settings	Configuration
SIP > General settings			
Call button outgoing number Basic mode Outgoing number Advanced mode	10	2	
General settings Call ring duration Call duration	15		econd
□ V deo monitor before answer ☑ Ringbacktone after finish video n ☑ Indication of call status when reco			

Default of call ring duration is 30s. This is too long for demo. KX-HDV430 can call KX-NTV150 without tone by above programming example.

35. Adjust Video for KX-HDV430 display.

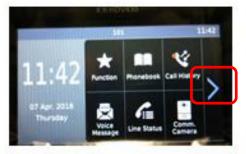


Chapter 4 KX-HDV430

41. Assign KX-NTV as Camera.

Video can be displayed automatically before KX-HDV430 answers the call from KX-NTV, if extension number of KX-NTV is assigned.

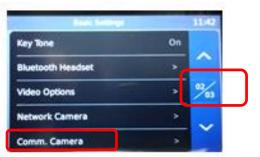
KX-HDV430 answers the call from KX-NTV automatically at technical point of view in order to start video communication if this feature is enabled by KX-HDV430. Voice from KX-HDV430 is muted until "Off hook" manually. This feature cannot be used for group call because one of KX-HDV430 answers the call.







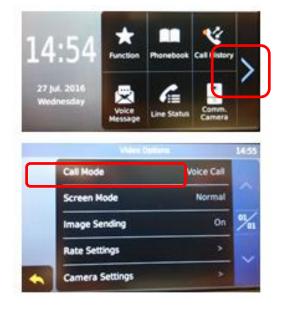




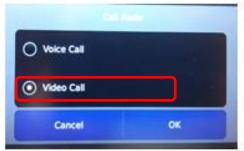


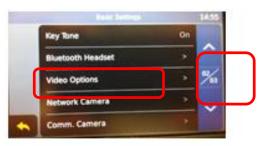
42. Enable Automatic Video Call.

Video call can be started automatically by off hook. It is not required to press <Video Call> button when calling.











43. Reference: Compatible IP Camera

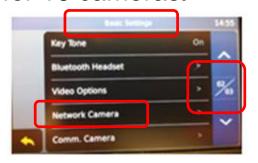
When KX-HDV430 receives a call from other extension, paired IP camera can be displayed automatically.

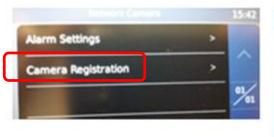




44. Reference: Assign IP address of Camera.

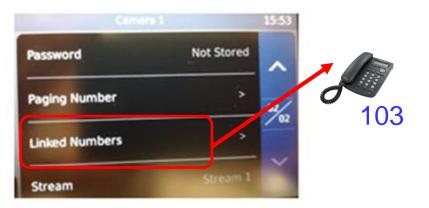
IP address of camera and paired phone number can be assigned for 16 cameras.







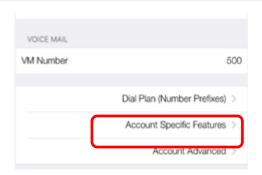


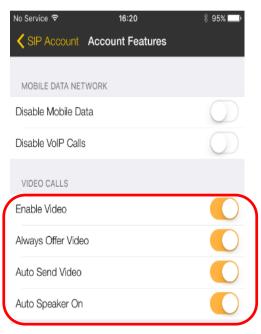


Chapter 5 Bria



51. Enable Video Call.





Chapter 6 KX-NTV: Maintenance

61. Firmware Update

Firmware update is available using web. Firmware update from PBX is not available.

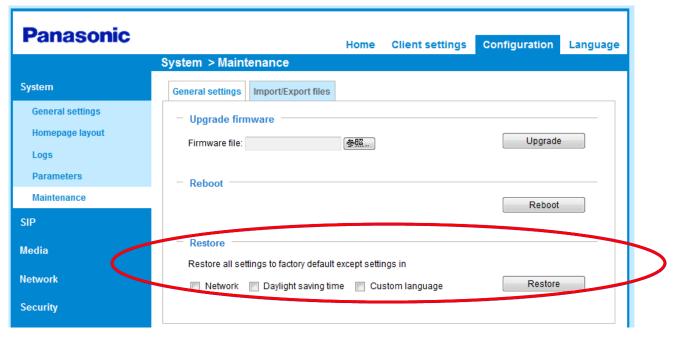
Panasonic	Home Client settings Configuration Language			
System > Maintenance				
System	General settings Import/Export files			
General settings Homepage layout	- Upgrade firmware			
Logs	Firmware file:			
Parameters	- Reboot			
Maintenance	Reboot			
SIP				
Media	- Restore			
Network	Restore all settings to factory default except settings in Network Daylight saving time Custom language Restore			
Security				

62. System Initialize

System initialize is available using web.

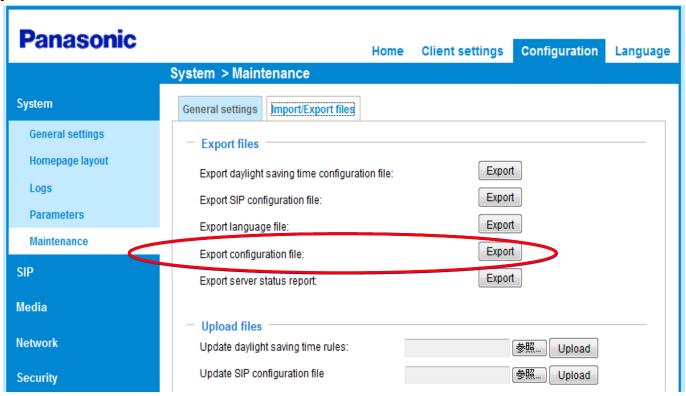
Or keep pressing reset button for 30 seconds.

Red rapid flash for 30 seconds to Green flash



63. System Data Back-up

System data can be saved.





Revision

Date	No.	Change
Sept 16, 2015	All	First release
Nov 12, 2015	2 (Page 3)	AC Adaptor KX-A239 is required for Wi-Fi.
Sept 29, 2016	All	Revised for KX-HDV430 base.