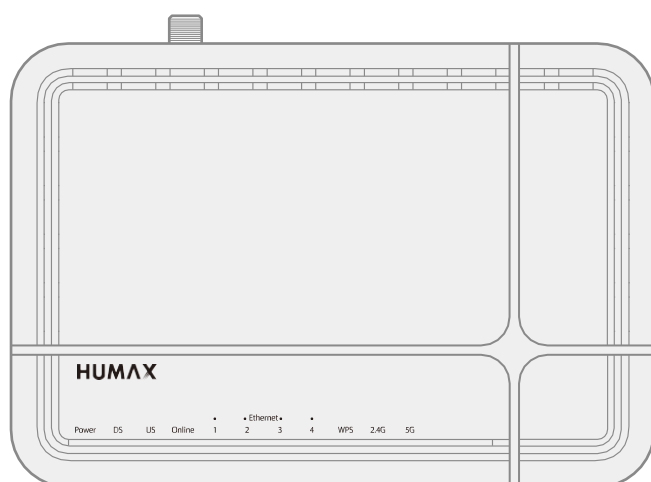


Wireless cable modem HG100R-02JG



Configuration

Thank you for joining a cable TV station.

In order to use the product safely and correctly, please read this document carefully.

After reading, be sure to keep it where you can see it at any time and read it when you need it.

M lottery

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At first

Safety Precautions

Before use, please read this "Safety Precautions" carefully and use it correctly. The precautions shown here are designed to help you use the product safely and correctly to prevent harm or damage to you and others.

In addition, in order to clarify the magnitude of harm and damage and the degree of imminent, the precautions are "warning" what is expected to occur if mishandled. It is divided into two types: attention. Both are important safety-related content, so be sure to protect them.



Warning

Content that is expected to cause death or serious injury to a person.



Note

the possibility of a person injury and Content that is expected to cause only property damage.

The symbol indicates that it is a prohibited act. Specific

Example of picture display



Prohibited contents (in the case of the left figure, disassembly prohibited) are drawn in the figure and in the vicinity.



● A symbol tells you what to force or direct an action. In the figure, a specific instruction (in the case of the left figure, unplug the AC adapter) is drawn.

Warning

Power supplies and power supplies



Do not damage ac adapter cords or plugs

In

Damage to the body can cause fire or electric shock.

order to prevent accidents such as prohibited, please follow the following cautionary paragraphs.

- Do not disassemble cords or plugs into winning hands
- Do not forcibly bend the cord.
- Don't put things on the cord.
- prevent the vinyl from melting on the surface of the cord, so that it cannot be close to the electro-thermal equipment.
- When pulling out the AC adapter plug, do not forcibly pull the cord, and pull it out with a plug.

The power supply of this unit always



Do not touch the main unit, AC adaptor, or plug when lightning is ringing.

This may cause an electric shock.



Prohibited

Use only the dedicated AC adaptor, and no other AC adaptor is used.

Prohibited: The AC adapter supplied with this unit will not be used for other products.



u
s
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e
s
u
p
p
l
i
e
d

Prohibited

Do not
do
octopus
foot
wiring

The AC adapter plugs in reliably to the base.
Incomplete plugging can cause a fire caused
by electric shock or heat generation .

It may
cause a
fire .

No contact

Voltage AC100V

Don't
touch
the AC
adapter
with wet
hands

This may
cause an
electric
shock .

Note

Do not
use
outside of
ALTERNATING
CURRENT
100V

This unit
is for
use in
Japan.
UP 100
Volts
(AC100V)
home
power
outlet.
Please
use.
Using
other
supply
voltages
can
cause
fire
and
electric
shock
hazards.

Safety of note (Each)



Notice

When using



Water
weedin

there's no water inside

This may cause fire or electric shock .

- Place a container with water on or near
- Missing
- Do not use in places where there is a problem of water, such as the bathroom.
- When placed by a window, pour it into



Do not put metal or flab-prone objects inside

This may cause fire or electric shock .



Prohibited

Immediately stop use in the event of an abnormality.

Doing so may cause a fire or electric shock accident .

Note: If you experience the following symptoms, turn off the power, unplug the AC address, and then contact the Cable Tebebi Station .

- make a loud noise or smell or smoke
- There was water and foreign objects inside.
- Part of this unit was broken.

When you take care of it



No

Do not disassemble the body

The original cause of the electric shock and is not covered by the warranty. When a Please consult the



Note

To prevent electric shock accidents, use antenna cables

When connecting to or off the main unit, when moving this unit, be sure



Note

Clean ac adapter dust regularly

They are

Insulation may be poor due to moisture, etc., and this may cause a fire.

. Remove the AC adapter and wipe it with a dry cloth .



Remove ac adapter when not in use for a long time or when cleaning



Note

When installing, connecting, or moving



Prohi

place in a horizontal and stable place or carry heavy things



Prohi

put in an airy place

- Do not block the heat dissipation hole on the side of this unit.
- From the not place it in a badly stable place, such as a carpet or a problem



Prohi

places with a lot of moisture and dust, oil smoke and water vapor

I'm not going to put it in some places.



Be sure

When used in a way that is connected to other electrical equipment,

Protect the safety of connected devices



Be sure

When moving this unit, be sure to take the connection line.

And of the

Cords and connected devices may be

Use onofnote

they do not block a vent

When the vents are blocked, the temperature of the equipment rises, and malfunctions can cause failure. Do not block the vents and install them in a well-aired place.

Do not install this unit and other equipment on top of each other.

Heat dissipation of other equipment raises the internal temperature of this unit and may cause failure.

The device using the same frequency as the reception frequency band of this unit can not be approached.

If a device using a frequency equivalent to the reception frequency band (90MHz to 770MHz) of this unit approaches the device connected to this unit or cable TV home extension, a problem may occur. Use these devices separately.

■ About condensation

- Water droplets may be attached to the window glass of a warm room. This is called condensation. If condensation occurs on this unit, this unit can not be used unless it is dried.
- This unit should be used in a well-dried state.

In the event of condensation, plug the AC adapter into an electrical outlet and turn it on for about 1–2 hours, or

Use this unit after releasing it until it dries for 2–3 hours.

- Be careful because it is easy to condensation when:
 - When this unit is moved to a warm room when it is cold
 - When the room is suddenly heated
 - When cold air such as air conditioners hits directly
 - When it's humid,

■ Care

- Wipe off any dirt lightly with a soft cloth. In case of severe dirt, squeeze the cloth filled with a mild detergent rinsed with water, and wipe it with the last dodgy cloth. When using a mild detergent, please read the instructions.
- Do not use thinner or benzine. It may be damaged or the paint may come off.
- When using chemical 4–10, please refer to the caution form.

Notes on using Wireless LAN

1. Use away from equipment that uses radio waves.

The built-in wireless LAN uses a frequency of 2.4GHz and 5GHz.

Depending on the installation situation of this unit, there is a risk of adverse effects due to interference of radio waves, so please install it as far away as possible from the following equipment.

- Microwave ovens, other Wireless LAN devices, Bluetooth-enabled devices
- Other devices that use 2.4GHz and 5GHz radio waves (digital cordless phones, wireless audio equipment, gaming consoles, etc.)

2. Depending on the radio wave situation, communication may be interrupted or communication may not be possible at all time.

3. In the unlikely event that radio interference occurs between the unit and other radio stations, immediately change the location of use of the unit or stop using the equipment.

4. If you do not know anything or have any problems, please contact your cable TV station.

About the cautionary section based on the Radio Law

Outdoor use of 5GHz wireless LAN functions other than the W56 band is prohibited by radio laws and regulations.

Disassembling/remodeling the built-in wireless LAN of this unit may be punishable by law.

Use onofnote

Notes on radio interference

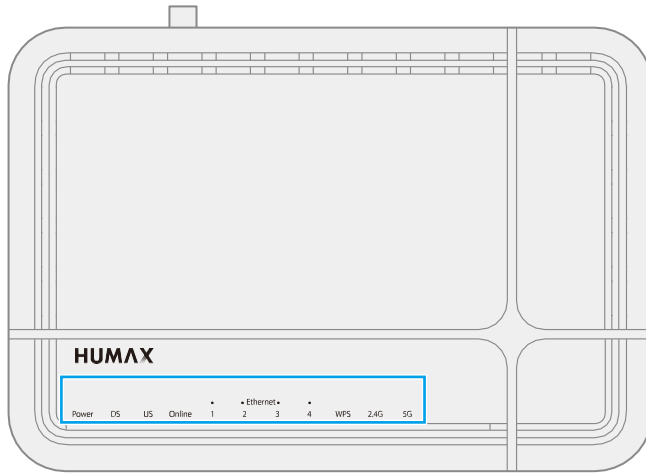


This device is a Class B information technology device. This device is intended for use in a home environment, but if it is used in close proximity to a radio or television receiver, it can cause a reception failure. Please handle it correctly according to the instruction manual.

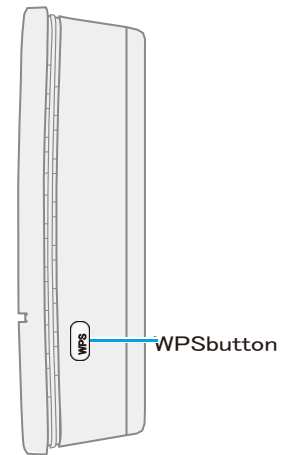
Before use

The front of each part

Upper

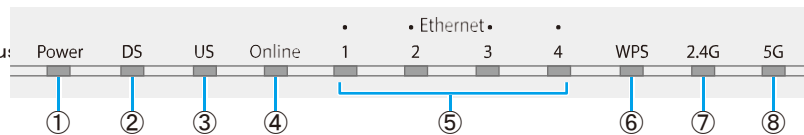


face

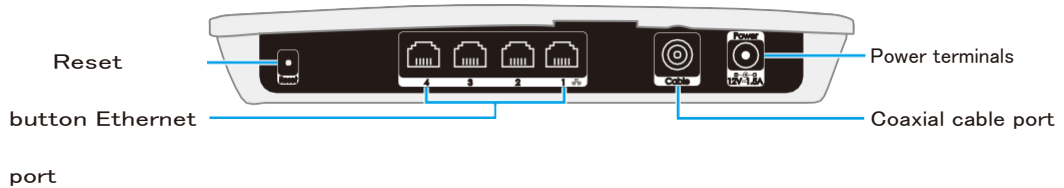


Indicator (LED) Part

(See table below for operating status.)



Rear terminals



LED	the shape of the	function
(1) Power	Green On	The power is on.
	Red On	Low power condition.
	Off	The power is off.
(2) DS	Green On	Use multiple downstream channels.
	Green Flashing	Downstream scanning is in progress. The software is being updated.
	Orange light Off	Use a single downstream channel. There is no RF signal.
③ US	Green On	Use multiple upstream channels.
	Green Flashing	Upstream scanning is in progress. The software is being updated.
	Orange light Off	Use a single upstream channel. There is no RF signal.
(4) Online(online)	Green On	You can access the Internet.
	Red Flashing	There is no RF signal.
	Green Flashing	I can't access the Internet.
(5) Ethernet	Green On	LAN connectivity at up to 10/100 Mbps.
	Orange light Off	LAN connectivity at up to 1000 Mbps. The LAN is not connected.
	Green On	You can use the WPS feature.
⑥ WPS	Green On	You can use the WPS feature.
	Green Flashing	WPS is being configured.

	Off	Wps feature is not available.
⑦ 2.4GHz	Green On	WLAN is valid in the 2.4GHz band.
	Green Flashing	Data traffic is occurring.
	Off	The WLAN is not valid.
⑧ 5GHz	Green On	WLAN is valid in the 5GHz band.
	Green Flashing	Data traffic is occurring.
	Off	The WLAN is not valid.

Install this product

This product can be installed vertically, horizontally, or wall-mounted according to the installation environment.

request

When installing, make sure to empty at least 10 cm around the main unit to avoid overheating.

In addition, do not install it that interferes with the heat dissipation of this product, such as covering the main body.

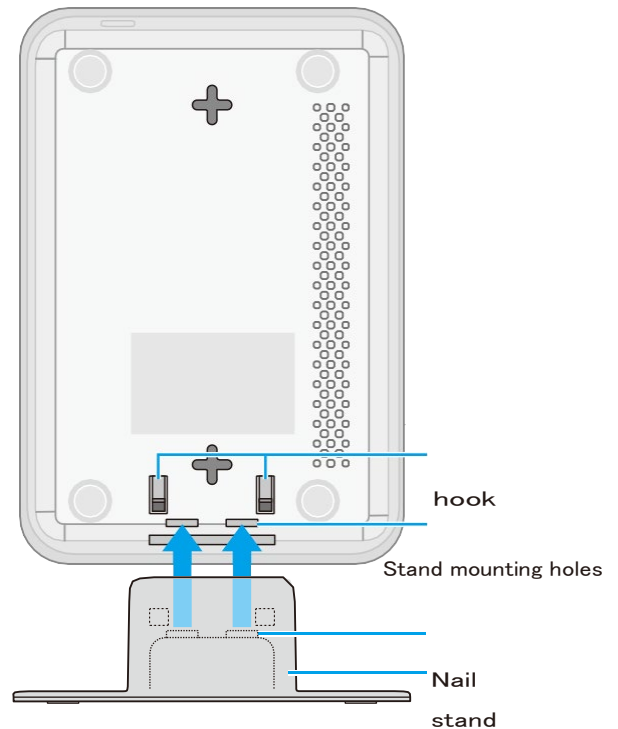
In the case of vertical installation

When using this product vertically, use the supplied vertical standard.

Insert the vertical stand into the stand mounting hole on the back of the main unit as shown in the figure.

※ Make sure that the stand is securely locked by the hook part by sounding "click".

※ Please install in a horizontal and stable place.



In the case of wall-mounted installation

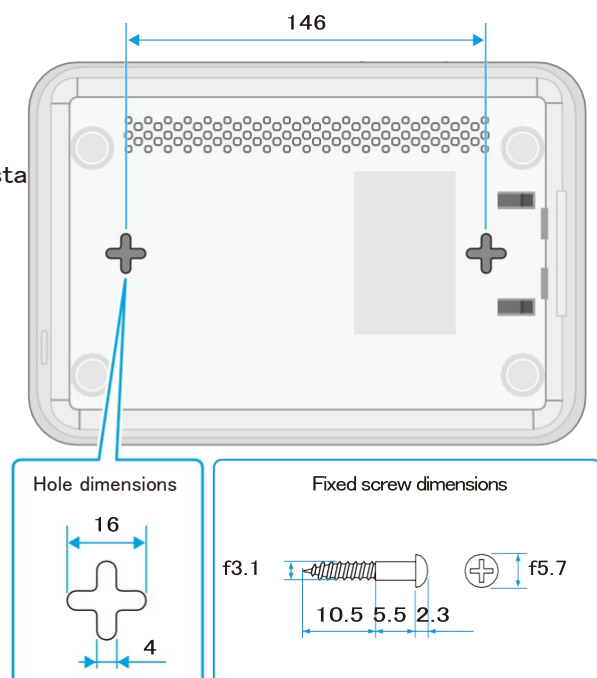
縦・横 any of the direction Take to 付 Erko と You can。

※ Fixing screws (2 pieces) are not included. Please prepare it separately.

1 Screw a fixing screw (commercially available) into the installation hole.
 * The mounting interval of the fixing screw is 146 mm.
 ※ Between the mounting surface and the screw head 4 ~ 6mm a singing of degree Please make a free。

2 On the screw installed in step 1, hook the wall hanging hole (2 places) on the bottom of the main body.

3 Pull the main unit down until firmly fixed.
 ※ Make sure it's fixed.



(Unit: mm)

Before you start

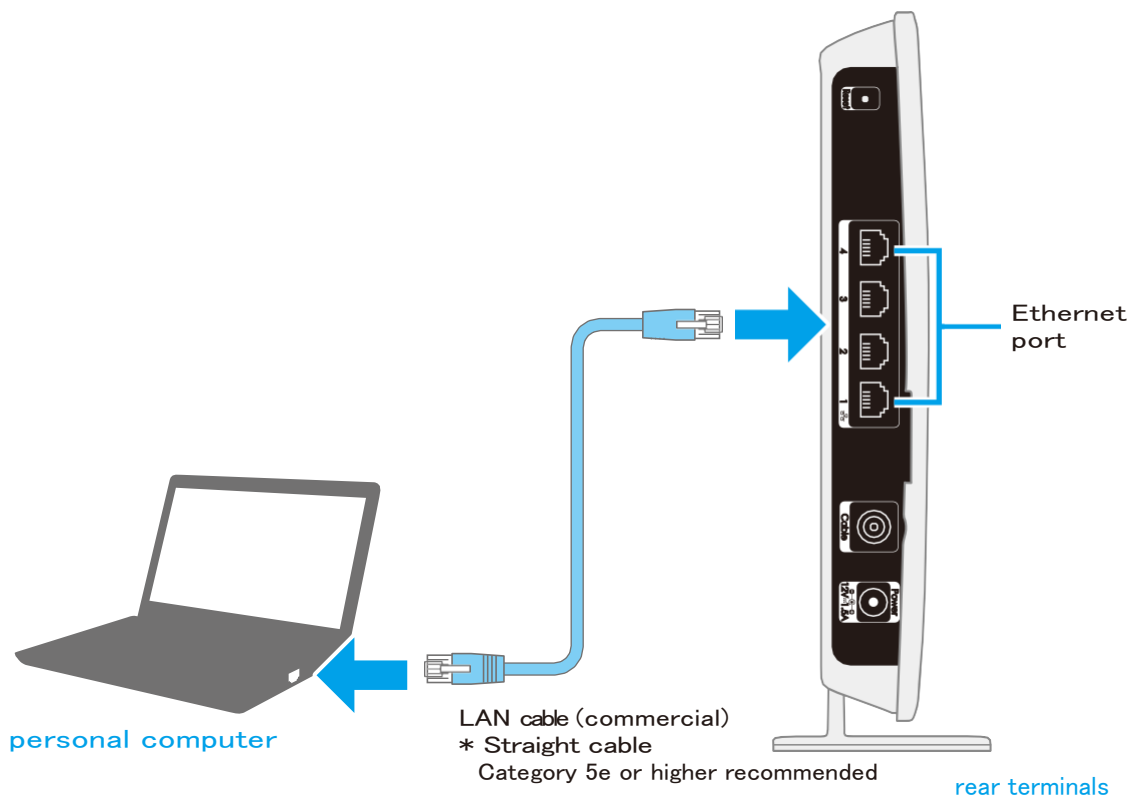
Connect this product to your computer

To set up this product, connect your computer and the Ethernet port (either 1 to 4) on the back of the product with a LAN cable (straight cable, category 5e or higher recommended) and connect the wired LAN. It's a good time.

The pasocn side should be set to automatically acquire IP adreth .

request

Lan cables (straight cable category 5e or higher recommended) must be provided separately.

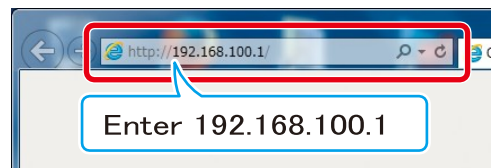


Open settings screen

Access the settings screen in your computer's web browser

1 On a connected PC, Internet Explorer Such as Web Start your browser。

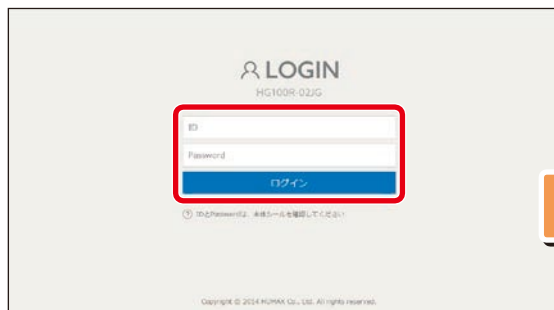
2 In the web browser address bar, type 192.168.100.1 (the IP address for managing the product), and then click enter or the update button on your Web browser on the keyboard.



Reference

- If 192.168.100.1 does not appear, try 192.168.0.1.
- For your own management IP, if the address is changed, the IP please enter your address.

3 You'll be asked to enter your ID and password. After entering each, click "Login".
If you successfully log in, you will see a "simple single mode" screen.

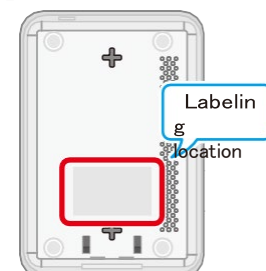


ID	admin
Password	password

Reference

- The initial value of the ID and password is also listed on the label on the back of the product.
- If you change your ID or password yourself, please enter the password you set.

【The bottom of the main body】



About “Simplified Single Mode”

In The Easy Mode, you can check the current network settings and change the SSID and PASS KEY.

Reference

If you want to make detailed settings, please open the “Advanced Settings” screen (□next page) from the lower right of the screen to set it.

Easy Mode Screen

The connection state and setting value of the current network are displayed.

Log out of the settings screen.

The SSID and PASS KEY of this product are displayed. (See below for how to make changes)

Open the Advanced (next page)

SSID, PASS KEY To change

1 In the input field of the item you want to change, enter the value you want to set.

Please enter each according to the following conditions.

* Full-width characters cannot be used.

SSID	Alphanumeric characters or symbols of 1 character or more and not more than 32 characters
PASS KEY	Alphanumeric characters or symbols between 8 and 32 characters

2 After entering, click the Apply button to register the settings.

request

To register your changes, be sure to press the apply button.

Make advanced settings

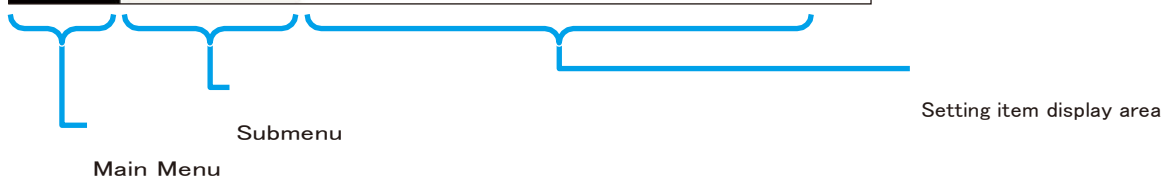
In **Advanced Settings**, you can check and set more detailed information about network connections.

Advanced setting screen



A help pop-up window opens. You can see a help guide for the menu items you are displaying, such as what you can set.

Returns to the Easy → (previous page).



Advanced Menu List

Advanced settings consist of the following networks.

	Main Menu	Submenu	Main contents that can be set	insert page
1	Preferences	status	You can view information about the connection status of the cable modem and set the IP address.	10
		setup		11
		DDNS		12
		backup		13
		Initial scan		14
2	wireless	wireless	You can set cable modem networks, guest networks, media priorities, and bridge functions.	16
		Primary network		17
		Guest Network		19
		WMM		20
		WDS		21
		Access restrictions		22
3	Advanced settings	setup	You can set wan, filter, transfer, UPnP, etc.	23
		filter		25
		Forwarding		26
		Port triggers		27
		DMZ Host		28
		UPnP		29
4	security	firewall	You can set up a firewall and a VPN.	30
		VPN		31
5	system	language	You can view the time, set up management, and	33
		Time information		34
		LED control		35
		manage		36
		Self-diagnosis		37

	initialization	initialize to the factory state.	38
	Event		39
	logout		39

1 Preferences

The “Basic Settings” includes the following information .

	Submenu	Main contents that can be set
1	status	You can view information about the connection status of the cable modemand set the IP address.
2	setup	
3	DDNS	
4	backup	
5	Initial scan	

1-1 status

In the “stay” connection , you can check more detailed information about network connections .

基本設定

ワイヤレス

詳細設定

セキュリティ

システム

HUMAX

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基本設定

ケーブルモデムの接続ステータスに関する情報を表示し、IPアドレスを設定することができます。

ステータス

セットアップ

DDNS

バックアップ

イニシャルスキャン

ステータス

簡単モード

ヘルプ

ネットワーク接続

接続ステータス ● Connected

接続タイプ	CableModem
スイッチモード	Router
ケーブルモデム MAC アドレス	6C B5 6B B6 5A 96
ケーブルモデムシリアル番号	19171053100049
ケーブルモデム IP アドレス
WAN IP アドレス	0.0.0.0
サブネットマスク	0.0.0.0
ゲートウェイ	0.0.0.0
DNS サーバー	--
DDNS ステータス	Disabled
ケーブルモデムの接続性	In Progress / Not Synchronized

ワイヤレスネットワーク

ネットワーク名 (SSID) - 5GHz	HUMAX-65A96-A
ネットワーク名 (SSID) - 2.4GHz	HUMAX-65A96
BSSID - 5 GHz	6C B5 6B B6 5A 9B
BSSID - 2.4 GHz	6C B5 6B B6 5A A3
WPS	Enabled

ローカルネットワーク

ゲートウェイ	192.168.0.1
サブネットマスク	255.255.255.0
ハードウェアアドレス	6C B5 6B B6 5A 9A
DHCP	Enabled

DHCP クライアント

MAC アドレス	IP アドレス	接続時間	有効

一般情報

標準規格	DOCSIS 3.0
モデル名	HG100R-02JG
ソフトウェアバージョン	VER 1.1.5
ハードウェアバージョン	REV 0.2
証明書	Installed

動作状況

ダウンストリームチャンネル	In Progress
アップストリームチャンネル	Not Started
DHCPによるIPアドレス取得	Not Started
ToPサーバへの接続	Not Started
TFTPから設定情報転送	Not Started
接続登録	Not Started



The screenshot shows the 'Set-a-P' configuration page. On the left is a navigation menu with options: 基本設定 (Basic Settings), ワイヤレス (Wireless), 詳細設定 (Advanced Settings), セキュリティ (Security), and システム (System). The main content area is titled 'セットアップ' (Setup) and includes sections for 'LAN 設定' (LAN Settings) and 'DHCP サーバー設定' (DHCP Server Settings). The LAN settings include fields for IPv4 address (192.168.0.1), Subnet Mask (255.255.255.0), and MAC address (6C : B5 : 6B : B6 : 5A : 9A). The DHCP settings include a 'DHCP サーバー' (DHCP Server) toggle set to '有効' (Enabled), a '開始 IP アドレス' (Start IP Address) of 192.168.0.10, '同時接続ユーザ数' (Number of concurrent users) set to 245, and a 'クライアントリース時間' (Client lease time) of 60 minutes. There is also a 'モード切替' (Mode Switching) section with 'スイッチモード' (Switch mode) set to 'Router' and an 'IPv6 パススルー' (IPv6 Pass-through) toggle set to '有効' (Enabled). A blue '適用' (Apply) button is at the bottom.

In the "set-up" menu, you can set the following items.

LAN settings	
IPv4 address	Set the IP address of this device.
Subnet Mask	Set the subnet mask of this device.
MAC address	Displays the MAC address of this device.
DHCP server settings	
DHCP server -	Specifies that the DHCP server feature is enabled or disabled.
Start IP address	Specifies the start address to be assigned.
Number of concurrent users	Specifies the number of clients to be assigned. ※Please specify in the range "1 to 245".
Client lease time	Enter the time before the new dynamic IP address is automatically assigned. ※ The designated unit is "minutes". Must be between 1 and 1440.
Mode switching	
Switch mode	Choose between outdoor Bridge behavior.
IPv6 Pass through	Specifies enable/disable pass-through for IPv6.

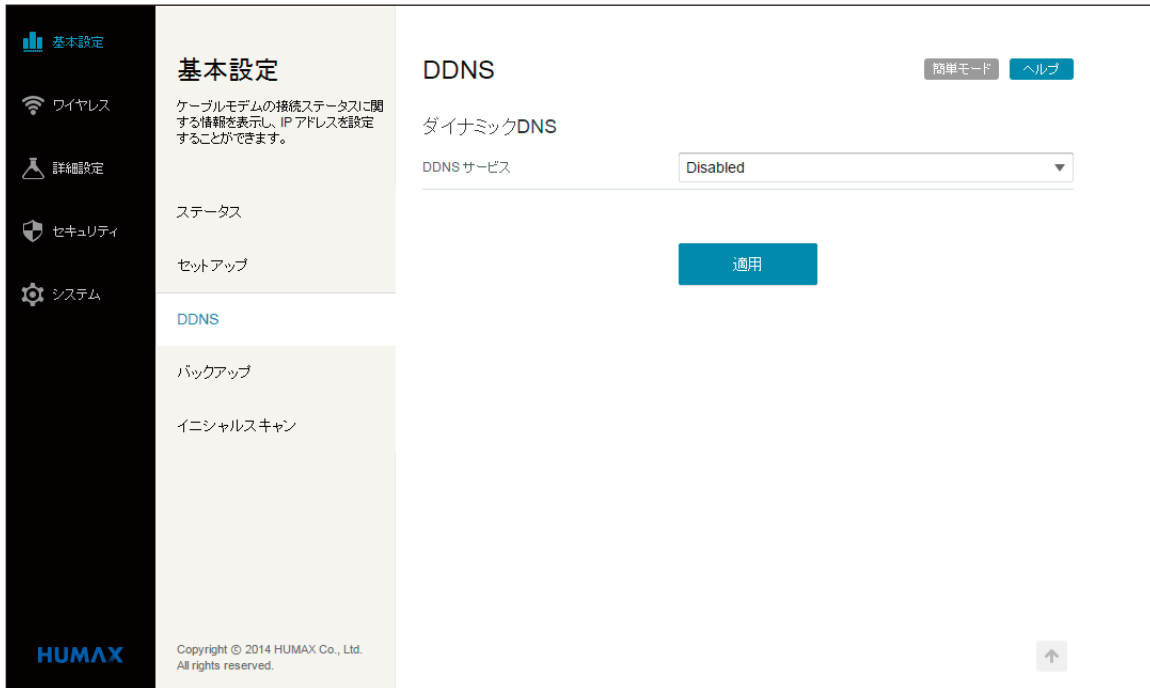
After entering,  the Apply button to register the settings.

request

To register your changes, be sure to press the apply button.

* In order to change (reflect) the settings in the setup screen, it is necessary to restart the main unit.

1-3 DDNS



On the DDNS menu, you can set the following items:

Dynamic DNS	
DDNS Services	Select one of the pull-downs . Specified in DynDNS / Specified by NoIP / Disabled(not used)

After setting, click the Apply button to register the settings .

request

To register your changes, be sure to press the apply button.

1-4 Back Up



In the “bak-up” message, save the current settings or restore the settings to the state of the saved bac app file. You can.

Right nowのSettingsThe baツKuaツプfaTo II.SaveDo

1 Select Save Current State and click **the** Apply button.

Specify where to save the file and click Save .

* The name of the file is gatewaysettings.bin” Please change it arbitrarily so that it is easy to understand by yourself.

2 When you see a confirmation message, **click** the Confirm button.

request

To register your changes, be sure to press the apply button.

Restore settings using a bacquap file

※ In order to restore the settings, it is necessary to restart the main unit.

1 Specify the backup file that you want to restore from the backup file storage location, and then click Open.

2 「Restore” **apply** Click the button。

You will be prompted to restart, so **click** the Confirm button .




3 Are you sure **ボタNg.押す** and substanceが”automaticでrestartIs (restart in order to Few minutestakecaseOh, my Go.)They have)。

1 -5 In-Syr Su-yan



In the “Inishyar Ruskian” menu , you can set the following items .

Frequency and channel settings	
Initial DS frequency	Specifies the downstream frequency.
Upstream Channel ID	Specifies the upstream channel ID.

After setting,  apply and click  the restart button to register the  settings.

* In order to change (reflect) the settings in the setup screen, it is necessary to restart the main unit.

2 wireless

“Wireless” includes the following networks .

	Submenu	Main contents that can be set
1	wireless	You can set cable modem network, guest network, media priority, and bridge functions.
2	Primary network	
3	Guest Network	
4	WMM	
5	WDS	
6	Access restrictions	

Select the interface to setup(5GHzor2.4GHz)

When setting , select the device (“5GHz” or “2.4GHz”) to be set in advance .

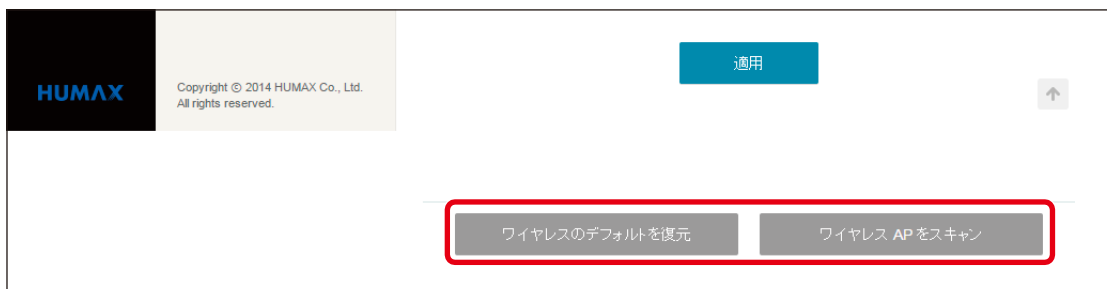


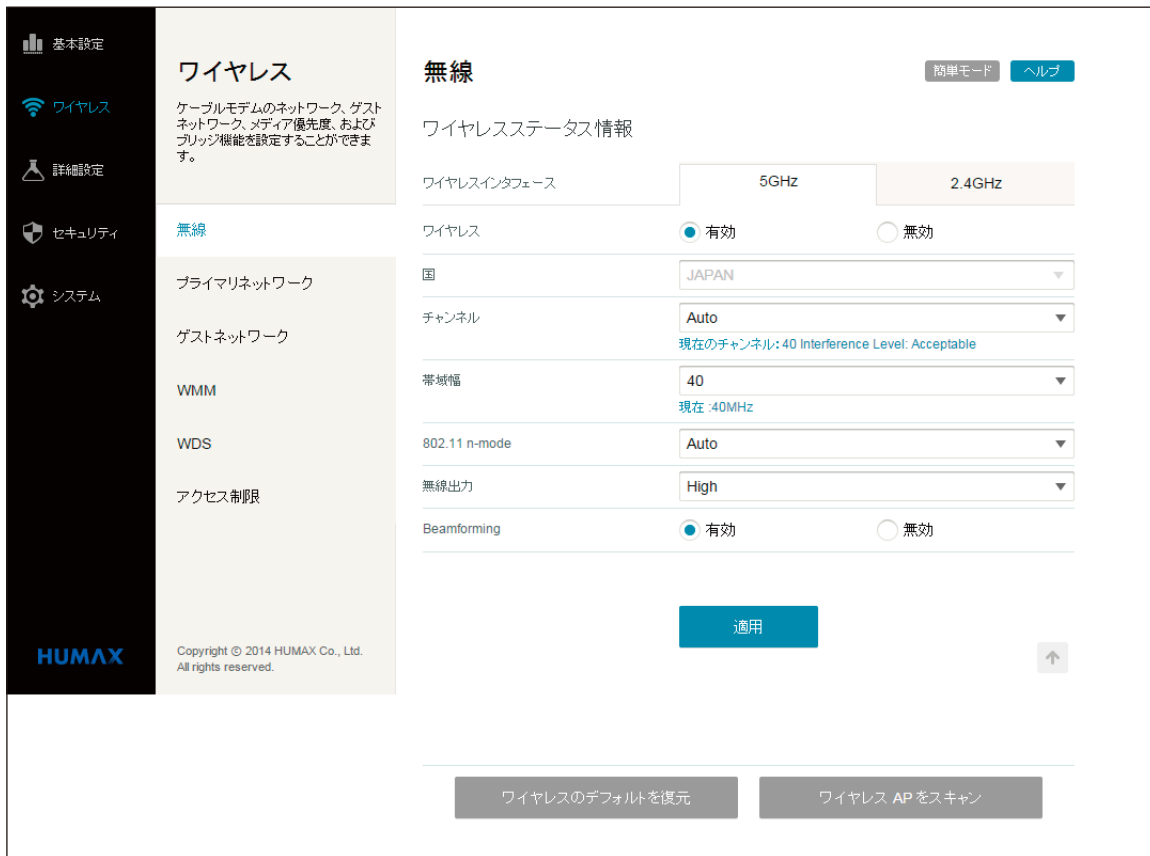
Return the “Waiyales” setting to its initial state

If you click **Restore Wai Yares' Default** at the bottom of the page, the Wai Yares setting returns to the initial setting (factory condition). It is.

Scan wireless APs

When you click the wai yares **AP** in the lower part of the page, the AP they do a real business .





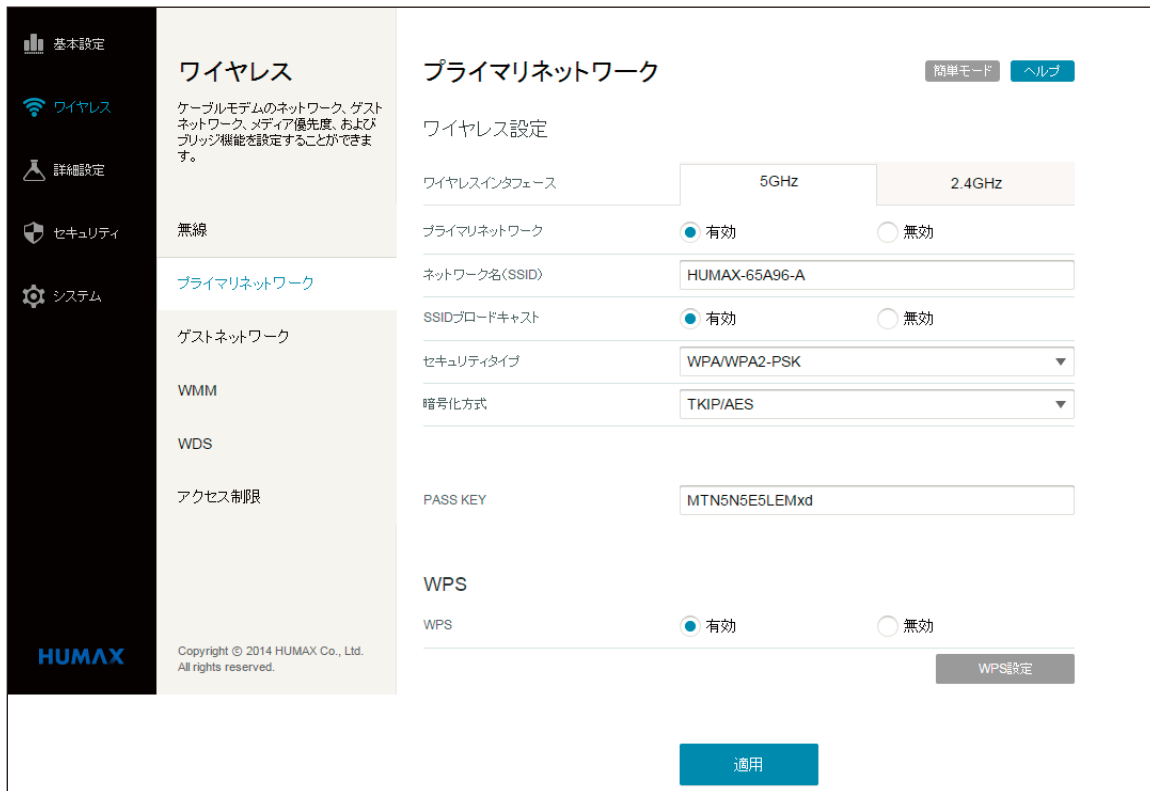
In the Wireless menu, you can set the following items .

Wireless status information	
wireless	Specifies enabled/disabled.
country	You're restricting channel sets based on country regulatory requirements, so you're seeing your country.
Channel	The list of available channels will vary depending on the "country" selected. Car / 36 / 44 / 52 / 60 / 100 / 108 / 116 / 124 / 132 If the range width is set to 80MHz(802.11ac),the selection list is asfollows: · Car-36/80-52/80-100/80-116/80-40/80-56/80-104/80)120/80,44/80,60/80,108/80,124/80,48/80,64/80,112/80,128/80
bandwidth	The 802.11b/g channel has only 20 MHz bandwidth. The bandwidth of the 802.11n channel is also 40MHz selectable. The bandwidth of the 802.11ac channel is also available at 80MHz.
802.11 n-fashion	Select Auto to use 802.11n -mode, which improves network speed. ※ Off / Auto *If "Security type" is set to "WEP/Auto" in "Primary Network" (□next page), "Auto" cannot be selected.
Radio output	Select Radio Output Strength (High / Medium/Low).
Beamforming	Select Enable/Disable Beamforming. * The setting can be set only for interface 5GHz.

After setting, click the Apply button to register the settings .

request

To register your changes, be sure to press the apply button.



In the “Pla i Mali Network” menu , you can set the following items .

Wireless settings		
Primary network	Specifies enabled/disabled.	
Network name(SSID)	Set (change) the network name. * Please set it with half-width alphanumeric characters or symbols of 1 character or more and 32 characters or less.	
SSID Broadcast	Specifies enabled/disabled.	
Security type *	NONE	Select if you do not want to use security.
	WPA-PSK	The WPA algorithm does not need to use radius servers Pre-shared key mode. * WPA and WPA-PSK cannot be used at the same time.
	WPA2-PSK	Pre-shared key mode for WPA2. WPA2-PSK and WPA-PSK can be used at the same time to provide backward compatibility for devices that do not support WPA2. * WPA2 and WPA2-PSK cannot be used at the same time.
	WPA/WPA2-PSK	Pre-shared key mode of the WPA algorithm that does not require the use of RADIUS servers. * WPA and WPA-PSK cannot be used at the same time.
	WPA2-Enterprise	Enterprise mode for the WPA2-PSK.
	WPA/WPA2-Enterprise	Enterprise mode for WPA/WPA2-PSK.
	WEP/Auto	You can choose between 64-bit and 128-bit encryption methods. The authentication method is (OpenSystem, SharedKey) Auto. * 802.11n-mode is off .
Encryption method	AES	It provides the strongest encryption.
	TKIP/AES	Provides strong encryption with improved backward compatibility.
PASS KEY	Set (change) PASS KEY. * Please set it with alphanumeric characters or symbols of 8 characters or more and no more than 32 characters.	
WPS		
Select Enabled or Disabled. * Please refer to “Set WPS”(□page) for details of settings when “Enabled”.		

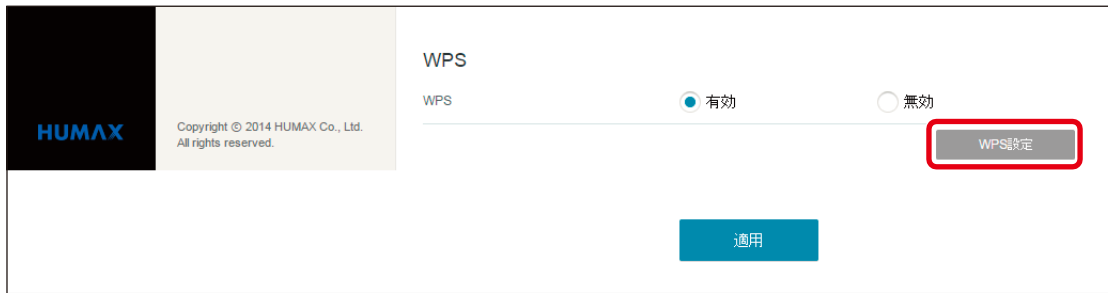
After setting, **click** the Apply button to register **the settings** .

request

To register your changes, be sure to press the apply button.

Set wps settings

If WPS is enabled, the WPS settings button appears at the bottom of the page.



Clicking the button opens a pop-up in wps settings .



Press the button

It can be used when there is a Wi-Fi protection setting botany on the device on the client side connected to this product. To do so.

Press the button of the machine on the side of the machine to make it look like it.

Device PIN

Wi-Fi PINo. 2 is on the machine on the side of the crawler that continues to touch this product. The number of [redacted] is entered, [redacted] and the climb is made to be made.

Router - PIN

Use to require client-side devices connected to this product to enter a PIN number.

Click **Generate PIN** to automatically generate an 8-digit PIN number.

When connecting, enter the automatically generated PIN number on the client-side device.



In the “Guest Network” menu, you can set the following items .

Guest network settings		
Guest Network	Specifies the target network. * Up to 7 can be specified. Each name can be changed by “GuestNetwork Name (SSID)” below.	
Guest network wireless settings		
Guest Network	Specifies enabled/disabled.	
Guest network name (SSID)	Set (change) the network name. * Please set it with half-width alphanumeric characters or symbols of 1 character or more and 32 characters or less.	
SSID Broadcast		
In-SSID quarantine	Specifies enabled/disabled.	
Quarantine function		
Permissions on the settings screen	Specifies enabled/disabled. ※ You can select by setting the above “Quarantine function” to “Enabled”.	
Security type *	NONE	Select if you do not want to use security.
	WPA-PSK	The WPA algorithm that does not require the use of radius servers Previous shared key mode. * WPA and WPA-PSK cannot be used at the same time.
	WPA2-PSK	Pre-shared key mode for WPA2. WPA2-PSK and WPA-PSK to provide backward compatibility for devices that do not support WPA 2 can be used at the same time. * WPA2 and WPA2-PSK cannot be used at the same time.
	WPA/WPA2-PSK	The WPA algorithm does not require the use of RADIUS servers in pre-shared key mode. * WPA and WPA-PSK cannot be used at the same time.
	WPA2-Enterprise	Enterprise mode for the WPA2-PSK.

After setting, click the Apply button to register the settings .

request

To register your changes, be sure to press the apply button.



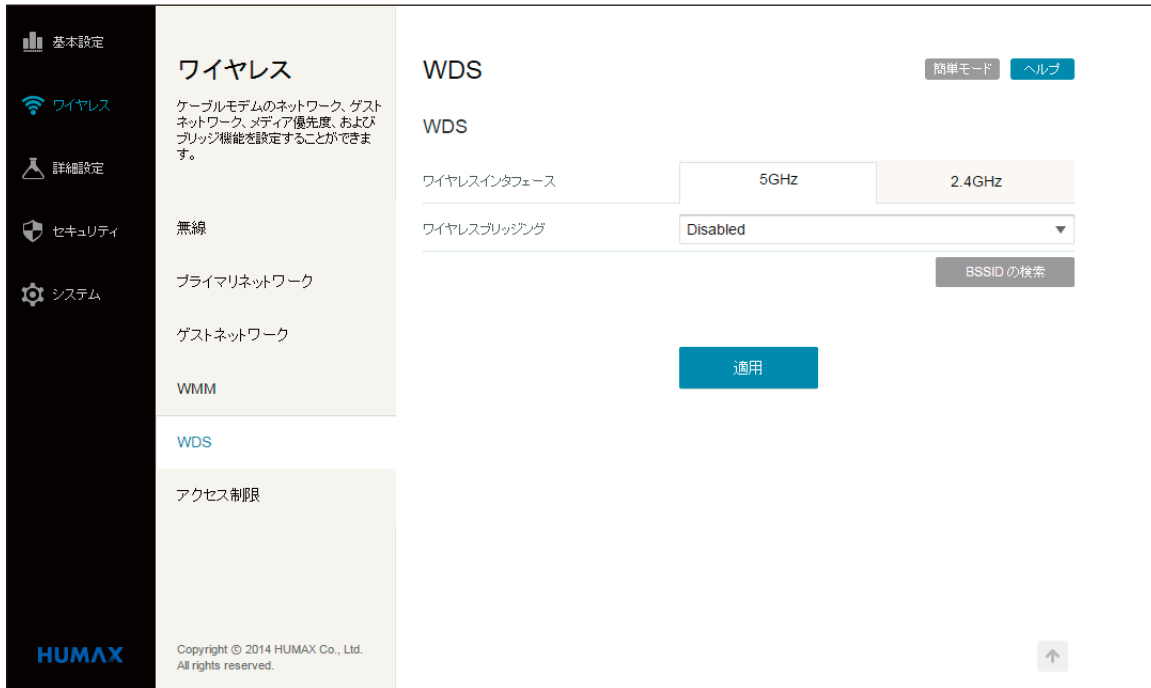
On the WMM menu, you can set the following items:

Wi-Fi multimedia settings	
WMM support	Specifies enabled/disabled.
Don't receive an Ack	
Power saving mode	

After setting, **click** the Apply button to register **the settings** .

request

To register your changes, be sure to press the apply button.



On the WDS menu, you can set the following items:

WDS		
Wireless bridging	Disabled	Settings when wireless bridging is not used.
	WDS Slave	In slave mode, the modem router is wireless in other bridge modes. Communicate with the station.
	WDS Master	In master mode, the modem router is the master of a group of wireless stations in bridge mode. All traffic is Set to this master instead of the access point.
	Remote Bridge *	Enter the MAC address of the remote bridge. By pressing the BSSID search button, you can search and set the SSID.

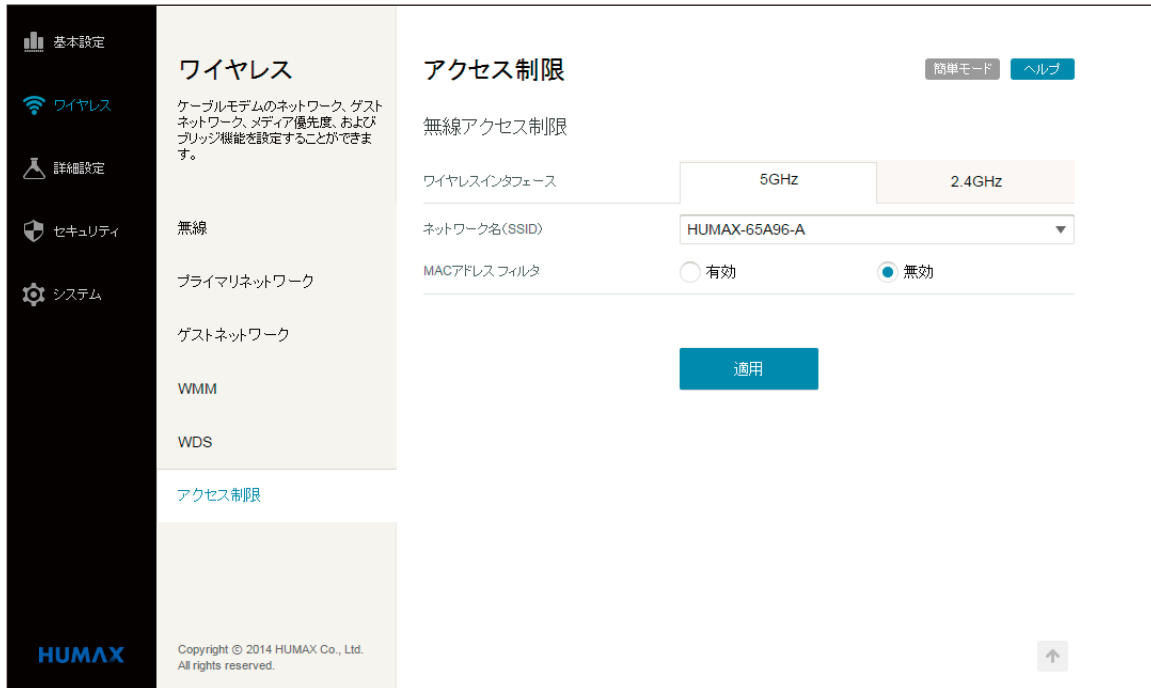
*The "Remote Bridge" field is displayed when you select "WDS Slave" or "WDS Master".

After setting, click the Apply button to register the settings.

request

To register your changes, be sure to press the apply button.

* In order to change (reflect) the settings in the setup screen, it is necessary to restart the main unit.



In the **Access Limit** menu, you can set the following items.

Radio access restrictions		
Network name(SSID)	Select the target SSID.	
MAC address filter	Specifies enabled/disabled. If you enable the MAC address filter , you can restrict it to registered MAC addresses.	
<p>* The following settings are based on the "MAC address filter" above. If enabled, it will be displayed.</p>		
HOW TO LIMIT MAC ADDRESSES	Xu can	Allow commun
	No	Deny commun
Client MAC address	<p>Register the MAC address to connect (allow/deny). * Up to 16 MAC addresses can be registered. * When you click on the connected terminal at the bottom right of the [redacted] page, a pop-up window like the following will be displayed, and client information such as MAC address can be obtained.</p> <div style="border: 1px solid black; height: 80px; width: 100%;"></div>	

After setting, **click** the Apply button to register **the** settings.

request

To register your changes, be sure to press the apply button.

3 Advanced settings

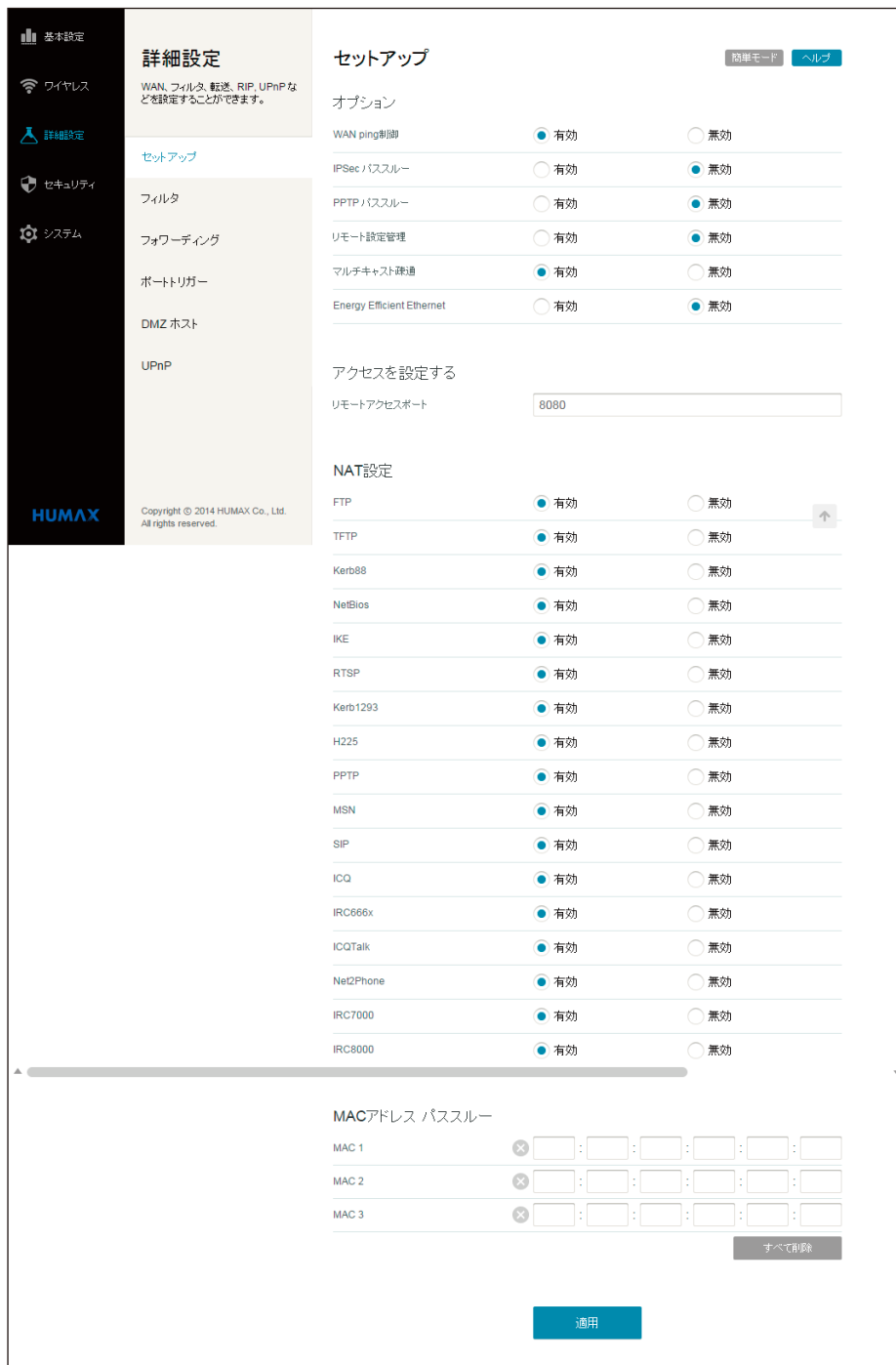
In “Advanced Settings”, there are the following contents .

	Submenu	Main contents that can be set
1	setup	You can set wan, filter, transfer,UPnP, etc.
2	filter	
3	Forwarding	
4	Port triggers	
5	DMZ Host	
6	UPnP	

Reference

The Advanced menu is displayed only mode (page 11) is in Router mode. It is not displayed when the Bridge mode is selected.

3-1 Settop



The screenshot shows the 'Settop' (セットアップ) configuration page. The left sidebar contains navigation options: 基本設定, ワイヤレス, 詳細設定 (selected), セキュリティ, システム. The main content area is divided into sections:

- オプション (Options):**
 - WAN ping制御: 有効, 無効
 - IPSec バススルー: 有効, 無効
 - PPTP バススルー: 有効, 無効
 - リモート設定管理: 有効, 無効
 - マルチキャスト疎通: 有効, 無効
 - Energy Efficient Ethernet: 有効, 無効
- アクセスを設定する (Set Access):**
 - リモートアクセスポート: 8080
- NAT設定 (NAT Settings):**
 - FTP: 有効, 無効
 - TFTP: 有効, 無効
 - Kerb88: 有効, 無効
 - NetBios: 有効, 無効
 - IKE: 有効, 無効
 - RTSP: 有効, 無効
 - Kerb1293: 有効, 無効
 - H225: 有効, 無効
 - PPTP: 有効, 無効
 - MSN: 有効, 無効
 - SIP: 有効, 無効
 - ICQ: 有効, 無効
 - IRC666x: 有効, 無効
 - ICQTalk: 有効, 無効
 - Net2Phone: 有効, 無効
 - IRC7000: 有効, 無効
 - IRC8000: 有効, 無効
- MACアドレス バススルー (MAC Address Bypass):**
 - MAC 1: : : : : :
 - MAC 2: : : : : :
 - MAC 3: : : : : :

Buttons at the bottom include 'すべて削除' (Delete All) and '適用' (Apply).

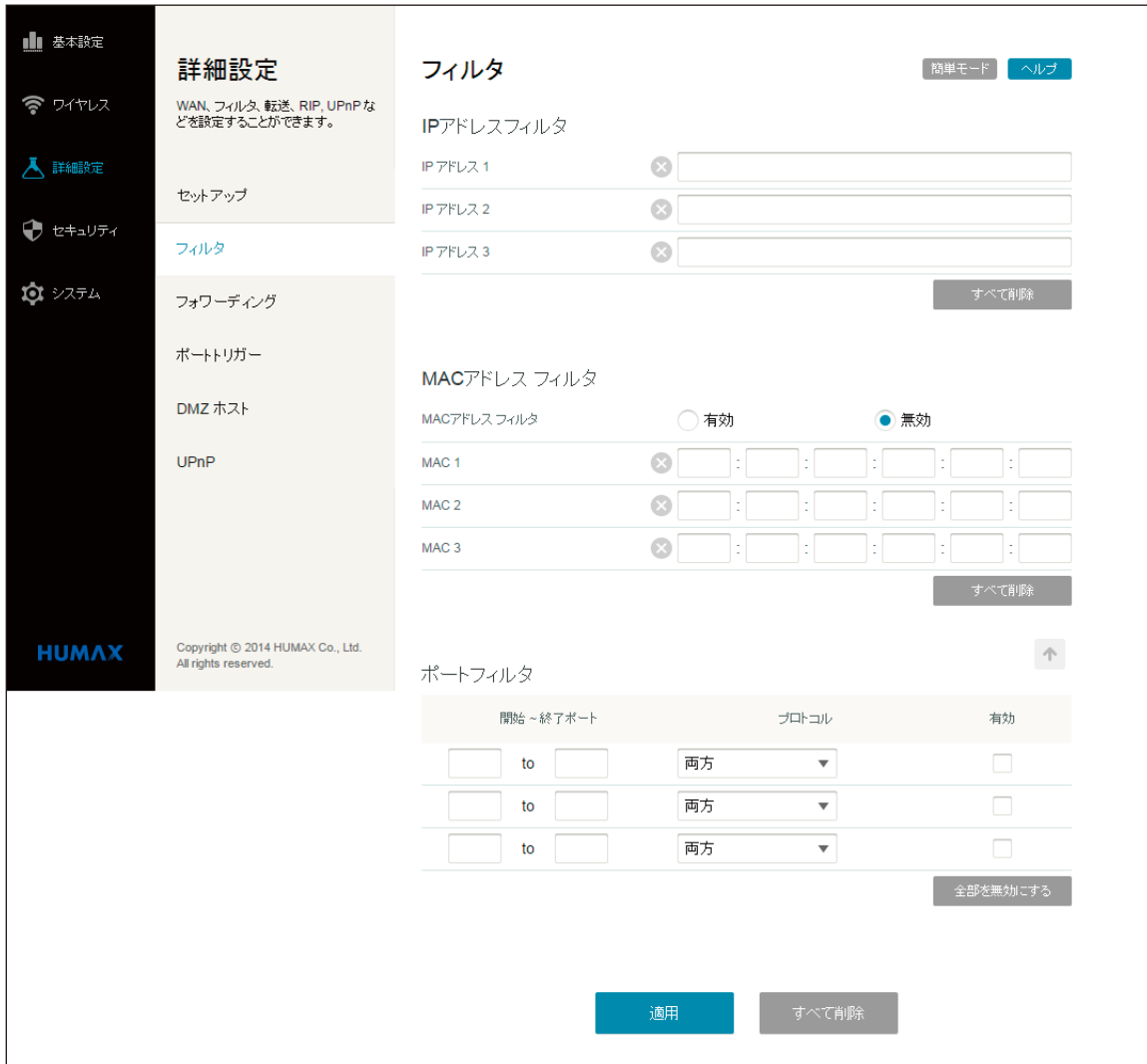
In the “set-up ” menu , you can set the following items .

option	
WAN ping control	Specifies enabled/disabled.
IPSec Pass sul	
PPTP Pass sul	
Remote configuration management	Specifies enabled/disabled. ※ In order to change (reflect) the settings, it is necessary to restart the main unit.
Multicast communication	Specifies enabled/disabled.
Energy Efficient Ethernet	Specifies enabled/disabled. ※ In order to change (reflect) the settings, it is necessary to restart the main unit.
Set up access	
Remote access port	Specifies a gateway port for access from the Internet. To be possible to manage (configure) the gateway for this device from the WAN side. ※Http://WanIPAddress:8080/Default: 8080
NAT settings	
FTP	Specifies enabled/disabled.
TFTP	
Kerb88	
NetBios	
IKE	
RTSP	
Kerb1293	
H225	
PPTP	
MSN	
SIP	
ICQ	
IRC666x	
ICQTalk	
Net2Phone	
IRC7000	
IRC8000	
MAC Address Pass	
Specifies the MAC address for pass-through.	
* The maximum number of registrations is 32.	
* You can delete the setting value in bulk by clicking Delete All in the lower right corner.	

After setting, click the Apply button to register the settings .

request

To register your changes, be sure to press the apply button.



In the “file” menu, you can set the following items.

IP address filter
Specifies the IP address. Controls access to the WAN side for registered local IP addresses.
MAC address filter
Specifies enabled/disabled and specifies a MAC address. Controls access to the WAN side for registered MAC addresses.
Port filter
Specify the start and end of the IP port, select the protocol (TCP/UDP/both) and put ✓ in the “Enabled” field. Controls the transmission of TCP/UDP outbound traffic to the WAN side on the registered IP port.
* If you want to specify one port, please specify the same number for start and end.

After setting, click the Apply button to register the settings.

* You can delete the setting value of each item in bulk by clicking the delete all buttons at the bottom of each item (the same in the case of “Port Filter”).

* You can delete all settings in the filter menu in bulk by clicking the Delete All button at the bottom of the page.

request

To register your changes, be sure to press the apply button.



In the “Forwarding” menu, you can set the following items.

Forwarding settings	
explanation	You can optionally specify a description of the settings . * The number of characters that can be specified is up to 20 characters.
protocol	Select TCP/UDP/both.
App and port	Specifies the application to use . HTTP/FTP/TFTP/SMTP/POP3/NNTP/Telnet/IRC/SNMP/ Finger/Gopher/Whois/LDAP/UUCP
	Specify the port to <input type="text"/> (start to <input type="text"/>) * If you want to specify one port, please specify the same number for start and end.
Lan side	Specifies the IP address on the LAN side.
WAN side	Specifies the IP address on the WAN side.
<input type="checkbox"/> valid button	It is pointed out that it is enabled / disabled for the provided forwarding .
<input type="checkbox"/> button	Deletes the forwarding that you set .
<input type="checkbox"/> supplement button	You can add forwarding settings by pressing the button .

After setting, click the Apply button to register the settings .

request

To register your changes, be sure to press the apply button.



In the **Port Trigger** menu, you can set the following items.

Port-to-riger settings	
Port triggers are similar to port forwarding, but differ in that static ports are not always opened. When you detect outgoing data with a specific IP port number specified in the trigger port range, the port specified in the forward port range is opened for incoming (or bidirectional) data. Uttered in the trigger port range if no traffic is detected for 10 minutes, the forward port range is closed.	
explanation	You can optionally specify a description of the settings . * The number of characters that can be specified is up to 20 characters.
Tri-garport range	A trigerport. * If you want to specify one port, please specify the same number for start and end.
Forward port range	Forward port. * If you want to specify one port, please specify the same number for start and end.
Enable	✓ Port trigger settings set by attaching are possible .

After setting, **click** the Apply button to register **the** settings .

* **By clicking** the Delete All button, you can delete the settings that have already been entered in bulk.



request

To register your changes, be sure to press the apply button.



On the DMZ Host menu, you can set the following:

DMZ(DeMilitarized Zone) settings	
Set up a network device that is opened publicly or displayed directly in an in-house. This is valid if the application restrictions do not <input type="checkbox"/> "Porttrigger" (the previous page). Specify the IP address of the device in the network to be exposed to the destination.	
DMZ Host	Specifies enabled/disabled.

After setting,  click the Apply button to register  the settings.



request

To register your changes, be sure to press the apply button.



In the UPnP menu, you can set the following items .

Universal Plug and Play(UPnP) settings	
UPnP	Specify enabled/disabled .
Advertisement interval	Between 1 and 360 (seconds).
advertisement Validity period	Specifies the advertisement lifetime between 1 and 16.
UPnP Port Mapping Table	
The IP address of the UPnP device currently accessing the cable modem, and the device opened (Internal and external ports) are displayed .	

After setting,  click the Apply button to register  the settings .

request

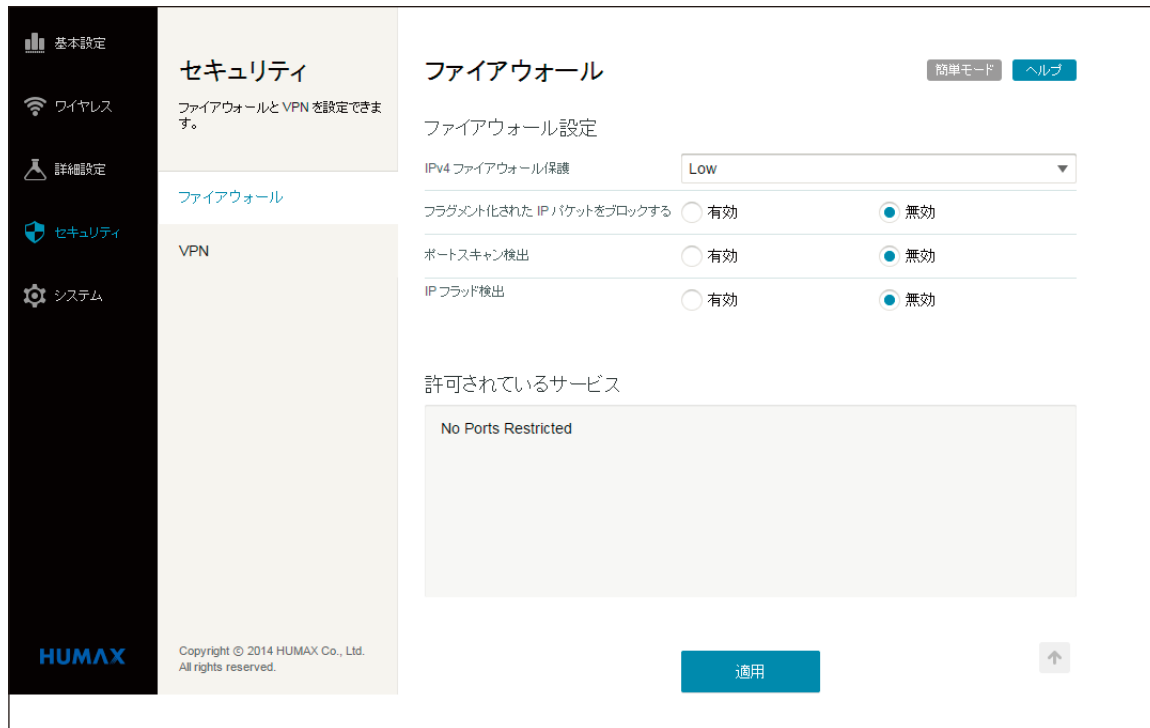
To register your changes, be sure to press the apply button.

4 Sekili T-T

There are the following menu in "Seky- Ryte".

	Submenu	Main contents that can be set
1	firewall	You can set up firewalls and VPNs.
2	VPN	

4-1 Hua Iawoar



In the "File" menu, you can set the following items.

Firewall settings	
IPv4 Firewall protection	From the pull-down, select one of the following:
	Disabled
	Low
	Medium
Fragmented Blog IP Paquet Port scan detection IP flood detection	Specify enabled/disabled .
	High
Allowed services	
Displays acceptable services at the firewall level.	

After setting, click the Apply button to register the settings.

request

To register your changes, be sure to press the apply button.



In the "VPN" menu, you can set the following items .

Virtual Private Network	
IPsec endpoint	Specify enabled/disabled . *If you specify "Enabled" and click Add New Tunnel, each setting item below "Local Endpoint Settings" will be displayed.
	name Optionally specify the VPN name. * The number of characters that can be specified is up to 32 characters.
	status The connection status is displayed .
	control Select Disabled / Enabled. *Select Enabled to change the pull-down menu to Disconnect/ Connect/ Disabled. * Select Disabled to return the pull-down menu to Disabled / Enabled .
	establishment <input type="checkbox"/> press a button to attach a ✓ to the target endpoint and edit the first name . <input type="checkbox"/> you can delete the target endpoint by pressing the button.
Local endpoint settings	
Address group type	From the pull-down, select one of the following: IP subnet Enter subnetmask and mask information.
	Single IP address Enter a fixed IP address.
	IP address range Enter Start IP Address and End IP Address to access the VPN create a pool of IP addresses to use.
ID type	From the pull-down, select one of the following: Automatically use WAN IP address
	IP address
	Fully Qualified domain name (FQDN)
	Email address (USER FQDN)
ID	Enter the identity address of the remote endpoint.
Remote endpoint settings	
Address group type	From the pull-down, select one of the following: IP subnet Enter subnetmask and mask information.
	Single IP address Enter a fixed IP address.
	IP address

	IP address range	Enter Start IP Address and End IP Address to access the VPN create a pool of IP addresses to use.
--	------------------	--

Remortd endpoint settings (go on)	
ID type	From the pull-down, select one of the following:
	Automatically use WAN IP address
	IP address
	Full y Qualified o domain name(FQDN)
	Email's(US E R FQDN)
ID	For the other endpoint to identify vpn connections and handshakes Enter the remortd endpoint ID type that you want to use.
Network address type	From the pull-down, select one of the following:
	IP address
	Full y Qualified o domain name(FQDN)
Re-mort address	Enter the IP address of the remortd endpoint to connect the VPN tunnel.
Ipsec settings	
Pre-sharing	On one side of the VPN tunnel, use a unique firewall ID (or pre-shared key) If so, enter it.
1DH Group	Select a group by pull-down . An encryption technique that uses public and private keys for encryption and decryption. ※ The larger the number of bits selected, the stronger the security.
Phase 1 encryption	Encryption is used to ensure the security of VPN connections between endpoints. Five types of encryption are available. You can use any type of encryption as long as it matches the other endpoint. DES / 3DES / AES-128 / AES-192 / AES-256
Phase 1 authentication	Authentication works at a different level of security . You can use any authentication method in the same way that it is used on the endpoint on the other side of the VPN tunnel. ※ MD5 / SHA-1
Phase 1 SA Lifetime	Specifies the lifetime of an individual rotating key . Enter the lifetime of the key before key exchange negotiation takes place between endpoints. * The input range is from 0 to 999999 seconds .
Phase 2 Encryption	Encryption is used to ensure the security of VPN connections between endpoints. Five types of encryption are available. You can use any type of encryption as long as it matches the other endpoint. None / DES / 3DES / AES-128 / AES-192 / AES-256
Phase 2 authentication	Authentication works at a different level of security . You can use any authentication method in the same way that it is used on the endpoint on the other side of the VPN tunnel. None / MD5 / SHA-1 * Phase 1 and the settings are the same .
Phase 2 SA Lifetime	Specifies the lifetime of an individual rotating key . Enter the lifetime of the key before key exchange negotiation takes place between endpoints. * The input range is from 0 to 999999 seconds .

After setting,  the Apply button to register  the settings .

 request

To register your changes, be sure to press the apply button.

5 system

The System contains the following follows.

	Submenu	Main contents that can be set
1	language	You can view the time, set up management, and initialize to the factory state.
2	Time information	
3	LED control	
4	manage	
5	Self-diagnosis	
6	initialization	
7	Event	
8	logout	

5-1 word



In the Language menu, you can set the following items .

Language settings	
language	You can select Japanese/English by pull-down .

After setting, **click** the Apply button to register **the** settings .

request

To register your changes, be sure to press the apply button.

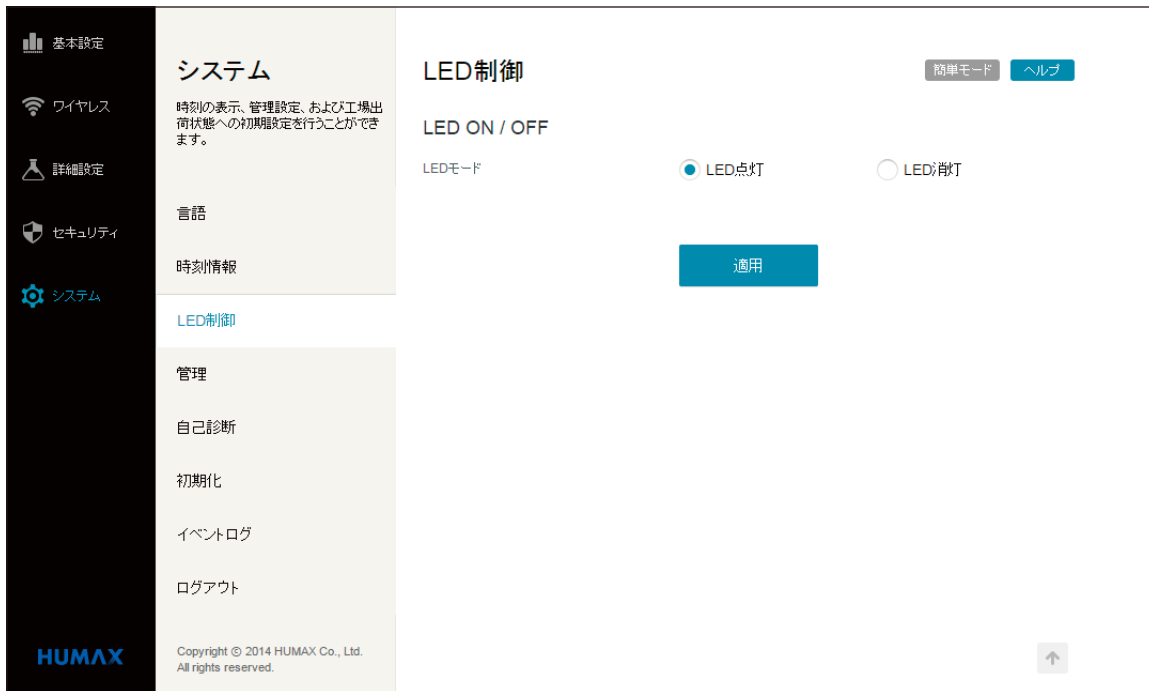
5-2 Time of day報



In the “Time Information” menu ,you can check the following items .

Now the moment	
Time	Displays the time retrieved from the server .

5-3 LED制御



In the “LED control” menu ,the following items can be set .

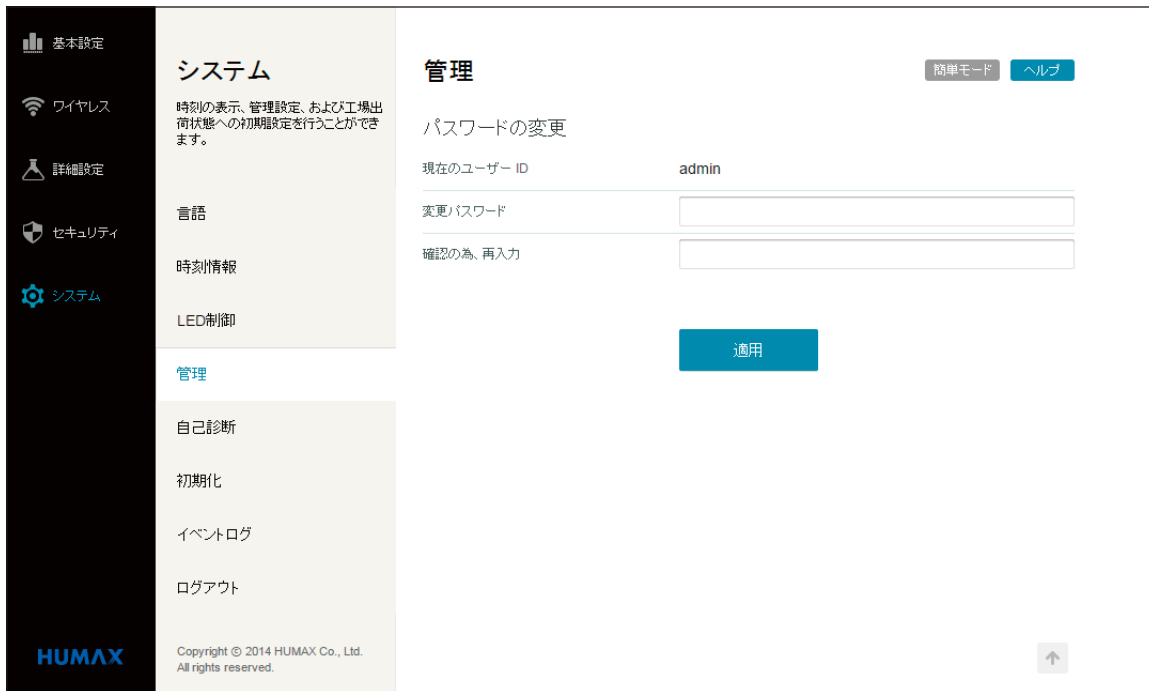
LED ON / OFF	
LED mode	<p>LED on: The LED lights up (blinks) in its on status.</p> <p>LED Off: The LED outside the PowerLED turns off .</p> <p>※ There is no effect on the operation.</p>

After setting, **click** the Apply button to register **the** settings .

request

To register your changes, be sure to press the apply button.

5-4 管理



On the Manage menu, you can set the following items:

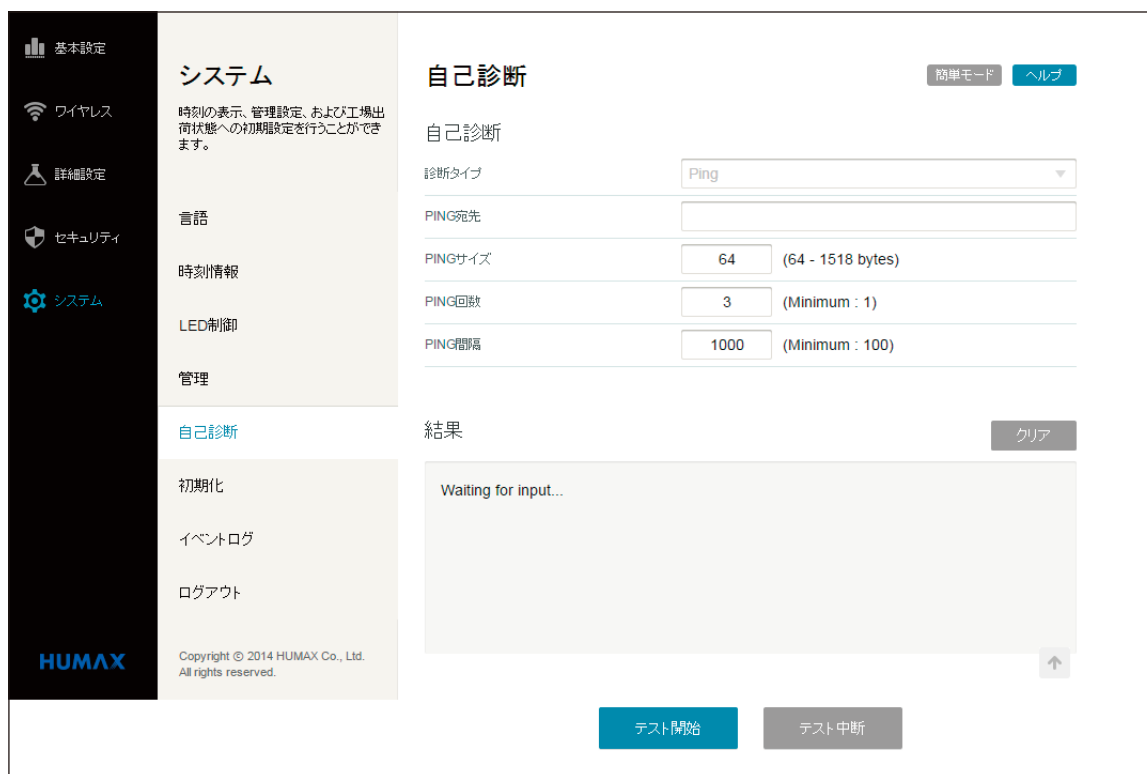
Change password	
Current userID	Shows the user IDsthat are currently logged in.
Change password	Specify it arbitrarily . * Password must be alphanumeric, symbolic,or at least8 characters long.
Re-enter for confirmation	Re-enter the new password changed above for confirmation.

After entering, **click** the Apply button to register the settings .



request

To register your changes, be sure to press the apply button.

5-5 自己診断



In the “Self-diagnosis” menu, you can set the following items .

Self-diagnosis	
Ping communication can be checked for devices connected to this device.	
Diagnostic type	Ping fixed.
PING destination	Specify an IP address .
PING size	Specifies the packet system to send to the IP address .
Number of PINGs	Specifies the number of Pings to do in a test.
PING interval	Specifies the PING interval time.
outcome	
The test results are displayed.	
※ You can clear the  of the test results by  clicking the clear in the upper right corner.	

After setting up,  the Start Test button to start the self-test.

* If you want to interrupt the test in the middle,  the Stop Test button.

When the self-test is **finished**, the **diagnostic** results are displayed in the Results column .

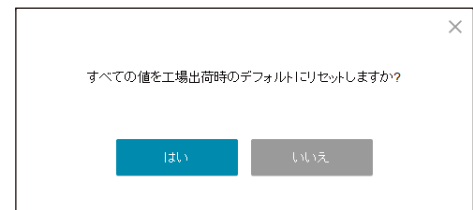
5-6 初期化



The Initialization sign allows you to initialize the product to a factory state .

This productをInitializeする

- 1 Select "Yes" from "Initialize to factory"
Click the Apply button.
A confirmation message is displayed .



- 2 Click the Yes button to perform initialization .
The device will automatically restart (restart in order to few minutes take case Oh, my Go. They have).



5-7 イベントログ

基本設定

ワイヤレス

詳細設定

セキュリティ

システム

システム

時刻の表示、管理設定、および工場出荷状態への初期設定を行うことができます。

言語

時刻情報

LED制御

管理

自己診断

初期化

イベントログ

ログアウト

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簡単モード ヘルプ

イベントログ

イベントログ

時間	Priority	説明
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Time Not Established	Notice (6)	WiFi Interface [] set to Channel (Side-Band Channel.) - Reason;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Time Not Established	Notice (6)	WiFi Interface [] set to Channel (Side-Band Channel.) - Reason;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Time Not Established	Notice (6)	WiFi Interface [] set to Channel (Side-Band Channel.) - Reason;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Time Not Established	Notice (6)	WiFi Interface [] set to Channel (Side-Band Channel.) - Reason;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Time Not Established	Notice (6)	WiFi Interface [] set to Channel (Side-Band Channel.) - Reason;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Fri Apr 10 19:14:04 2015	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Fri Apr 10 19:13:42 2015	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Time Not Established	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Fri Apr 10 19:08:02 2015	Critical (3)	Received Response to Broadcast Maintenance Request, But no Unicast Maintenance opportunities received - T4 time out
Fri Apr 10 19:08:02 2015	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Fri Apr 10 19:07:48 2015	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Fri Apr 10 18:56:21 2015	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Fri Apr 10 18:55:53 2015	Critical (3)	Received Response to Broadcast Maintenance Request, But no Unicast Maintenance opportunities received - T4 time out
Fri Apr 10 18:55:53 2015	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;
Fri Apr 10 18:55:31 2015	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing;

ログのクリア

In the "I-Event Log" message, the results generated by this device are displayed as time, priority, and content.

* You can delete the event log by clicking the delete button in the log.

5-8 ログアウト

Click to log out of the settings screen and switch to the screen where you enter your ID and password.

a gesture

Performance action

- Settings through a web browser
- SNMP V1,V2,V3,MIB – I、II
- SSH
- Suitable for:DOCSIS3.0
- Maximum communication speed (theoretical value)
 - ダウストリーム(DS) : 344Mbps(256QAM)
 - アップストリーム(US) : 132Mbps(128QAM)
- wireless
 - [2.4GHz] 802.11n / 802.11g / 802.11b
 - [5GHz] 802.11n / 802.11a / 802.11ac

Setting behavior

- Report: Save settings, recover
- Remote Web Management
- Event
- Multiple SSID guest networks (Security and access restrictions)
- Operating mode
 - Router/Bridge
- Beam fog support
- Security - Li-ty
 - WPA-PSK
 - WPA2-PSK
 - WPA/WPA2-PSK
 - WPA2-Enterprise
 - WPA/WPA2-Enterprise
 - WEP/Auto
- WPS
- MAC address registration (restricted access)
- LED制御: ON/OFF
 - * Excluding PowerLED
- Dyna Mik DNS
- InMM(Wi-Fi and Multimedia)
- WDS (Wireless bridging)
- Port Forward
- Port triggers
- DMZ Host
- UPnP (Universal Plug and Play)
- VPN (Virtual Private Network)

Ports

- Ethernet:4-port Gigabit Ethernet port 10/100/1000Auto MD I/MDI-X
- RF input: F-type 1 port

LED

- Power
- Ds
- US
- Online
- Ethernet 1/2/3/4
- WPS
- 2.4G
- 5G

External button

- WPS: Side of the device
- Reset:Rear of device

External dimensions

- Dimensions(W×D×H)225mm×155mm×44mm
 - vertical stand mounting:W235 mm
- Weight: 450g

Accessories

- The power adapter
- Vertical stand
- Easy Set-A-App Guide