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User guide

ACtion RG 1200

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ACtion RG 1200
Wireless router

Congratulations, you have just purchased a product with Intelbras quality and security.

The Wi-Fi router ACtion RG 1200 provides a complete solution for home networks. With it you can share Internet access with multiple devices in a high-speed wireless network. It can be installed and managed via the web interface or via Android® or iOS® application quickly and easily.

Care and safety

Adjust the position of the antennas; normally the vertical position is the most indicated.

Prefer to install your router in the central part of the environment and preferably in a higher location, for example on top of a furniture.

Avoid an excessive number of physical barriers between the transmitting and receiving devices on the Wi-Fi network.
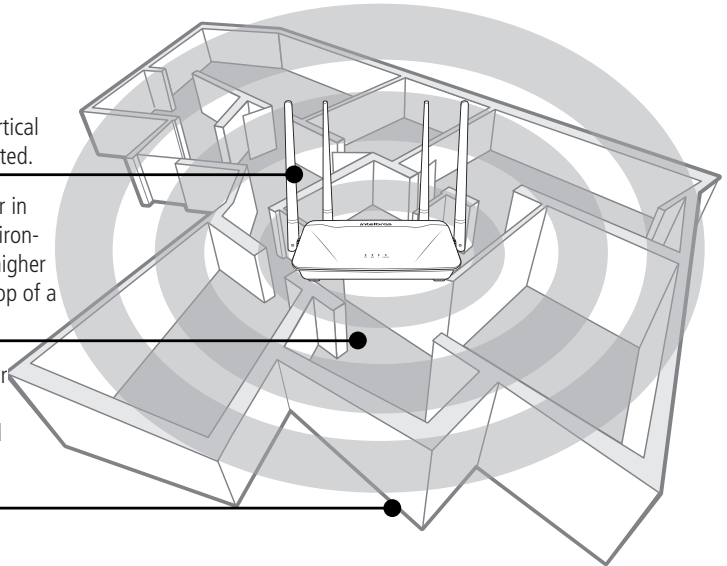
Do not leave your router exposed to sunlight or heat sources

Do not place the router in closed or tight places

Do not leave your router near the microwave

Do not leave your router near the wireless phone (analog)

Summary

1. Technical specifications

| Hardware	
4 fixed antennas of 5 dBi	
3 *LAN* ports (10/100/1000 Mbps each)	
1 *Internet* port (10/100/1000 Mbps)	
Chipset Realtek® RTL8197FS + RTL8367R + RTL8812BRH	
Flash Memory 8 MB	
*RAM*memory 128 MB	
Wireless parameters	
Standards	IEEE 802.11a/b/g/n/ac
Radio mode	MU-MiMo
Mode of operation	AP Router / Wireless Repeater / Wireless Client / Access Point
Frequency of operation	2.4 GHz 5 GHz
Bandwidth	2.4 GHz: 20, 40 MHz 5 GHz: 20, 40, 80 MHz
Transmission rate	2.4 GHz: up to 300 Mbps 5 GHz: up to 867 Mbps
Channels of operation	2.4 GHz: 1-13 (Brazil) 5 GHz: 36, 40, 44, 48, 149, 153, 157, 161
Maximum power (E.I.R.P.)	2.4 GHz: 158 mW (22 dBm) 5 GHz: 158 mW (22 dBm)
Receiver sensitivity at 2.4 GHz	802.11b 1 Mbps: -97 dBm 802.11g 54 Mbps: -74 dBm 802.11n 20 MHz MCS7: -71 dBm 802.11n 40 MHz MCS7: -70 dBm
Receiver sensitivity at 5 GHz	802.11a 6 Mbps: -92 dBm 802.11ac 80 MHz MCS9: -61 dBm
Security	WPA-WPA2/PSK with TKIP and/or AES encryption
Description of LEDs	
SYS	**On:** router initializing
	Flashing: normal operation
Wi-Fi	**On:** Wi-Fi 2.4 and 5 GHz network(s) is/are active, but no data traffic
	Off: Wi-Fi 2.4 and 5 GHz are disabled
	Flashing: the 2.4 and 5 GHz network(s) is (are) active and there is data traffic
	Flashing slowly: WPS is running and waiting for a device to connect
Internet	**On:** there is a device connected to the corresponding port, without data traffic
	Off: no device connected to the corresponding port
	Flashing: there is a device connected to the corresponding port, with data traffic
LAN	**On:** there are devices connected to the LAN port(s), without data traffic
	Off: no device connected to the corresponding port
	Flashing: there are devices connected to the LAN ports, with data traffic
Power supply	
Input	100-240 V to 50/60 Hz
Output	12 Vdc/1 A
Maximum power consumption	12 W

Attention: this equipment has no right to be protected against harmful interference and may not cause interference to duly authorized systems.

2. Accessories

» Network cable
» Power supply
» Installation guide

3. Installation

The following scenario describes the product installation for use in *Router* mode. For *Repeater*, *Wireless Client* and *Access Point* modes refer to the topic *4.2. Configuração em outros cenários de uso do produto* below.
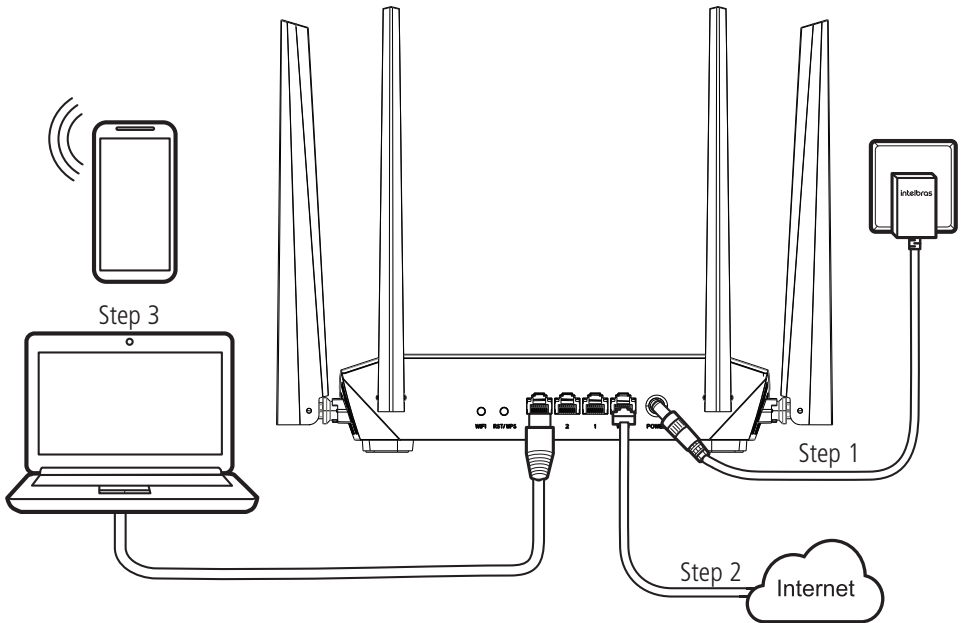
Example of Installation in Router mode

1. Connect the power supply to the router and then plug it into the electrical outlet. The LEDs will light up;
2. Connect the network cable from the Internet (for example, from your modem or other device) to the *Internet* port of the router;
3. Connect the computer to one of the *LAN* (1/2/3/) ports on the router using a network cable;

   Note: » If you wish to access your router via Wi-Fi instead of via network cable, connect to the Wi-Fi network under the name INTELBRAS or INTELBRAS_5G, after performing steps 2 and 3.
   » *To access the 5GHz Wi-Fi network, your devices must support this technology. If in doubt, please refer to the manufacturer's manual and check for compatibility with the same technologies as ACtion RG 1200.*

4. Configuration

On your computer, open your web browser (we recommend using the most current versions of Google Chrome®, Mozilla Firefox® or Microsoft Edge®) and go to *http://10.0.0.1* or *http://meuintelbras.local/* as shown in the following image. This procedure should be performed whenever you need to change any configuration of your router.

Accessing the router configuration page

4.1. Configuration via installation wizard

When accessing the router's web page address, you will be directed to the installation wizard, as the following image. It will help you configure Internet access, and quickly and easily create your own Wi-Fi network.

To configure your router, click *Start* and follow the instructions in the installation wizard.

Installation wizard home screen

Note: *in case your connection requires user and password*, the router will request this information after clicking on Start. If you do not have this information, please contact your operator or internet provider.

After starting the installation wizard, your internet connection will be recognized automatically. Please wait and follow the guidelines described in the installation wizard. To create your Wi-Fi network, the Wi-Fi password, and the password to access your router's configuration page, please fill out the fields shown on the next screen:

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Configurações da rede Wi-Fi

INTELBRAS

Senha da rede Wi-Fi   ☐ Deixar sem senha

☐ Usar a mesma senha da rede Wi-Fi como senha do roteador.

Senha do roteador   ☐ Deixar sem senha

Próximo

Configuration screen of the setup wizard

1. Fill in the *Wi-Fi Network Name* field with the name you want for your Wi-Fi network, for example, *My Network*. This field by default is filled in with the name *INTELBRAS*, but can be changed to any name up to 29 characters long;
   Note: the Wi-Fi network name at 5GHz will be set to _5G at the end of the network name, e.g., My Network_5G.

2. Now, fill in the *Wi-Fi Network Password* field with the password you want for your Wi-Fi network. This is the password you will use when connecting your wireless devices to your network (e.g. mobile phones, tablets, laptops, etc.). This password will be for both 2.4 GHz and 5 GHz Wi-Fi networks, and can be up to 63 characters long;
   Note: To put a different password for each network, see the item *4.5. Configurações da rede Wi-Fi*.

3. Fill in the *Router Password* field with a password that will be used to access your router settings.
   Note: the Wi-Fi Network Name and Wi-Fi Network Password fields allow the following characters:

Space	!	"	#	$	%	&	'	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9
:	;	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
T	U	V	W	X	Y	Z	[	\	]	^	_	`	a	b	c	d	e	f	g	h	i	j	k	l	m
n	o	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~									

4. Click on the button *Next* to apply the settings made.

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Parabéns! Você já pode acessar a internet
agora.
Conecte-se à rede Wi-Fi
Minha rede
ou Minha rede_5G
Para mais configurações clique em "Configurações avançadas".

Configurações avançadas

Final screen of the installation wizard

Congratulations! Your router is already configured and ready to access the Internet.

Important: if you are accessing your router via Wi-Fi, wait until it applies the settings and then connect to your new network, which was created in the previous steps.

4.2. Configuration in other scenarios for product use

The following describes other router use scenarios with their respective settings.

Wireless repeater

If you already have a Wi-Fi network in your home, but want to extend your coverage, you can use your router as a signal repeater.

Internet   Modem / Roteador   Repetidor

Example of Repeater *mode scenario*

See the following sample image:
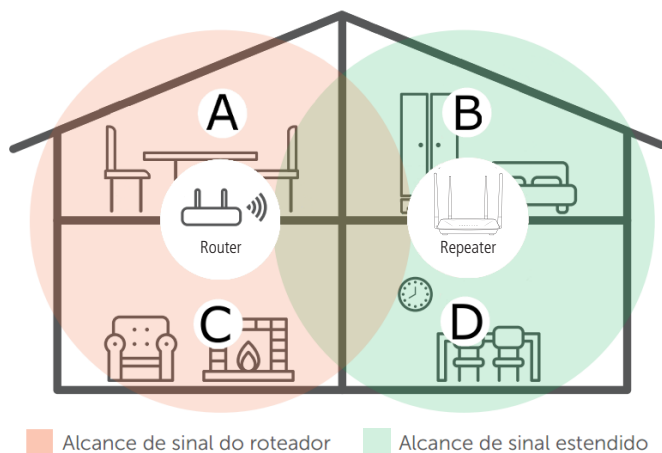
Residence with Wi-Fi signal repeater

Note that the router's coverage area does not cover the entire residence, so an ACtion RG 1200 is used as a Wi-Fi repeater to solve this problem. It is important to note that in this scenario, depending on the room you are in, when connecting a device (a laptop or smartphone, for example) to the Wi-Fi network it may connect either to the router or the repeater. Examples:

» If you are in the living room (C) and connect to Wi-Fi, you are connecting to your main router's Wi-Fi network.

» If you are in the kitchen (D) and connect to the Wi-Fi network, you are connecting to the ACtion RG 1200 (repeater) Wi-Fi network.

» If you connect to the Wi-Fi network while in the dining room (A) and then you move to the bedroom (B), and the main signal network still reaches it, even if weak, your device will still be connected to the main router, not automatically switching to Wi-Fi on the ACtion RG 1200 (repeater). If you want your device to connect to the repeater and thus get a stronger signal, disable and enable your device's Wi-Fi network again (if you don't know how to do this, you can try restarting it so that the Wi-Fi connection with the stronger signal network occurs). The same goes for the move in the direction area covered by the repeater > area covered by the router (from the bedroom to the dining room, for example).

In short: when moving between the rooms, disconnect and reconnect your device to the Wi-Fi network so that it connects to the network with the best signal. This process may be waived if your device automatically switches between networks.

To configure the product as a wireless repeater for an existing Wi-Fi network, do the following:

1. Enable the function *Wi-Fi Repeater* by changing the option *Wi-Fi Repeater* to enabled (the button will turn green);
2. Choose the connection mode *Wi-Fi Repeater* in the option *Wi-Fi Connection Mode*;
3. Select the Wi-Fi network you wish to repeat in the field *Main Wi-Fi Network Name*;
4. After choosing the Wi-Fi network, if it requires a password, you must enter it in the field *Main Wi-Fi Network Password*;
5. Click on *Save*;
6. In the confirmation message, click on *Ok* and ACtion RG 1200 will reboot applying the settings.
7. ACtion RG 1200 will now connect to your main network and repeat it with the SSID and password set in the installation wizard or on the page *Wi-Fi Network Settings>Wi-Fi Network Name and Password*;
8. If you want the ACtion RG 1200 to repeat the same SSID and password as your main network, go to the web page at *http://meuintelbras.local* (item *4.5. Configurações da rede Wi-Fi*) and configure the Wi-Fi network with the same SSID and password as your main network.

Wireless configuration repeater screen

Wireless client

If you have a Wi-Fi network and wish to create another separate network connected to your main network via a wireless connection, you can use the function *Wireless client*.

In this mode of operation, you will not need to connect the network cable to the port *WAN* of ACtion RG 1200. The product will connect via Wi-Fi to an existing network.
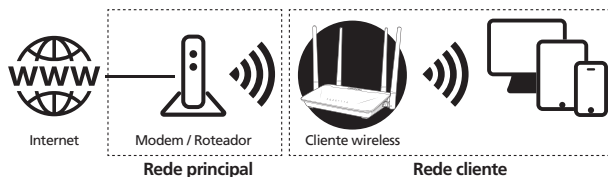

Example of Wireless client *mode scenario*

Attention: in this scenario, the main network and the client network will be on different IP addresses. If the main network has the same address range as the ACtion RG 1200 LAN, conflict will occur. ACtion RG 1200 is prepared to recognize this conflict and change its LAN address if necessary. To do so, follow the web interface guidelines if this occurs.

To configure this mode, in the router's configuration web interface navigate to the menu *Wi-Fi Network Settings* and click on *Wi-Fi Repeater*.

To configure the product as a *Wireless client* on an existing Wi-Fi network, do the following:

1. Enable the function *Wi-Fi Repeater* by changing the option *Wi-Fi Repeater* to enabled (button will turn green);
2. Choose the *Wireless client* connection mode from the option Wi-Fi Connection Mode;
3. Select the Wi-Fi network you wish to connect to in the field *Main Wi-Fi Network Name*;
4. After choosing the Wi-Fi network, if it requires a password, you must enter it in the field *Main Wi-Fi Network Password*;
5. Click on *Save*;
6. In the confirmation message, click *Ok*.

Note: If you wish to connect only via network cable to ACtion RG 1200, using the LAN ports, and do not want the product to generate a Wi-Fi network, you can turn off the options Wi-Fi 2.4 GHz Network and Wi-Fi 5 GHz Network within the menu Wi-Fi Network Settings > Wi-Fi Network Name and Password.
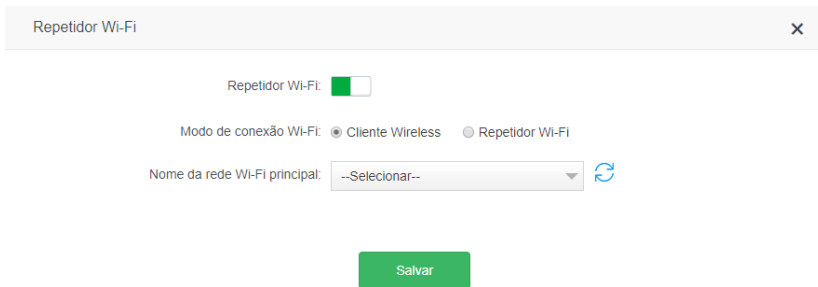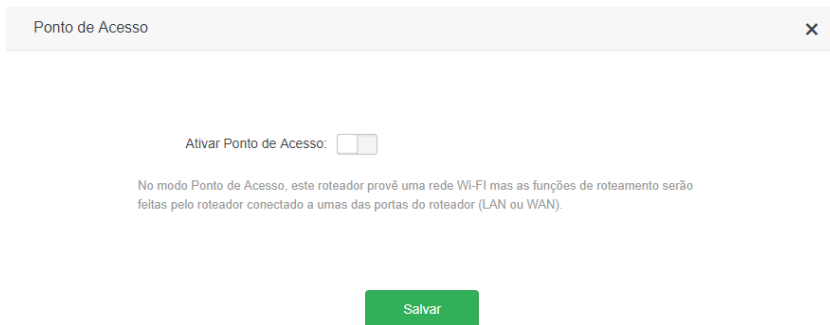
*Wireless client configuration screen*

Access point

With this mode, the product will not perform routing, but will only serve to provide Wi-Fi and cable access to an existing network. In this use scenario, the port *WAN* will work as a *LAN* port.

To use the mode *Access Point*, you will need to access the product's web configuration interface (through the IP address *10.0.0.1* or the link *http://meuintelbras.local*) and navigate to the menu *Wi-Fi Network Settings>Access Point*. On this screen, enable the option *Activate Access Point* and click *Save*.

Access point configuration screen

4.3. Internet status
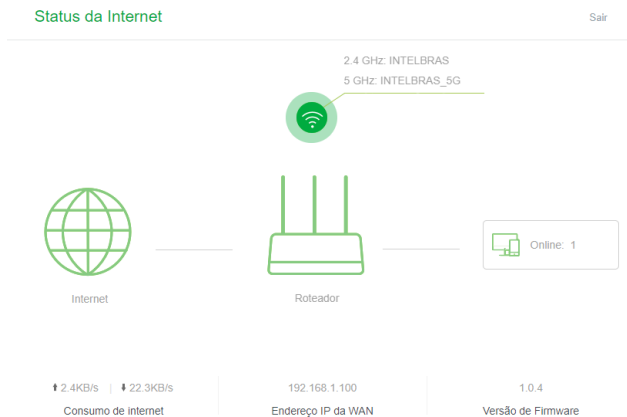
Internet status screen

The *Internet Status* screen displays the main information about your router. In addition, you can access the main settings via icons.

2.4 GHz: INTELBRAS 5 GHz: INTELBRAS_5G	In this area, the names of your 2.4 GHz and 5 GHz wireless networks are displayed. By clicking the icon you can configure the names and passwords of these networks.
Internet Roteador	In this area, the status of your internet connection is displayed. If there is any connection problem, the phrase *Connection failure* will appear between the internet (globe) and router icons. By clicking the Internet icon (globe) you can configure your connection. Clicking on the router icon, it is displayed the screen *System Status* with more detailed information about the device.
Online: 1	This area displays the number of devices connected to the router. Clicking on the icon displays the list of devices and the information: download and upload speed, access type, and block device.

Internet consumption	Shows the current download and upload consumption of all devices connected to the router.
WAN IP Address	Shows the IP address of the WAN (*Internet* port) of the router.
Firmware version	Shows the current version of the router software. ACtion RG 1200 periodically checks for new firmware versions; if a new version is available, a warning is displayed on the screen *Internet Status.*

4.4. Internet settings

Internet configuration screen

The menu *Internet Settings* groups the settings related to your Internet connection.

Below we will explain each available option.

» **Internet port:** shows the status of the port *Internet*, informing if the cable is connected or not.
» **Connection type:** there are 3 possible connection modes:
  » **Dynamic IP address:** use this mode if your connection details are provided automatically through a DHCP server.
  » **PPPoE:** use this mode if your Internet access requires authentication via PPPoE. In this mode, a user and password (provided by your operator or ISP) is required to authenticate with the Internet. You must enter the user in the field *Provider User* and your password in the field *Provider Password*.
  » **Address Static IP:** use this mode if your Internet access is provided via a static IP address. All information for the configuration in this mode must be provided by your Internet operator.
» **Configuring DNS:** if you want to configure DNS servers manually, you can choose the option *Manual* and enter the servers in the fields *Primary DNS Server* and *Secondary DNS*.

When you finish the settings click the *Connect* button to apply the settings.

4.5. Wi-Fi Network Settings

The menu *Wi-Fi Network Settings* groups the settings related to your Wi-Fi network.

Wi-Fi network name and password

Nome e senha da rede Wi-Fi	✕

Rede Wi-Fi 2.4 GHz ▮

Nome da rede Wi-Fi: INTELBRAS   ☐ Esconder

Modo de Criptografia: WPA/WPA2-PSK (Recomenda ▼

Senha da rede Wi-Fi: •••••••

Rede Wi-Fi 5 GHz ▮

Nome da rede Wi-Fi: INTELBRAS_5G   ☐ Esconder

Modo de Criptografia: WPA/WPA2-PSK (Recomenda ▼

Senha da rede Wi-Fi: •••••••

Salvar

Wi-Fi network name and password configuration screen

From the menu *Wi-Fi Network Name and Password* you can change the main settings of your Wi-Fi network. Since ACtion RG 1200 operates in two frequency ranges, 2.4 GHz and 5 GHz, you can configure each separately.

If you don't want to have a Wi-Fi network in one of these two frequencies, you can disable the 2.4 GHz network using the button *Wi-Fi 2.4 GHz network* and disable the 5 GHz network using the button *Wi-Fi 5 GHz network*.

For both Wi-Fi network frequencies you can configure:

» **Wi-Fi network name:** name you want for your Wi-Fi network, e.g., *My Home*. This field allows you to create a name with up to 32 characters.

Note: we recommend that you configure different names for the 2.4 GHz and 5 GHz networks, e.g., My Home and My 5G Home. This will prevent possible network identification problems for Wi-Fi devices.

» **Encryption mode:** this option allows you to select the security mode for your Wi-Fi network. These are: *None*, *WPA -PSK, WPA2-PSK* and *WPA-PSK/WPA2-PSK*. To leave your network without password choose the option *None*.

Note: if you want to set a password, we recommend using the option WPA-PSK/WPA2-PSK.

» **Wi-Fi network password:** password you want for your Wi-Fi network. This is the password you will use when connecting your wireless devices to your network (e.g. mobile phones, tablets, laptops, etc.).

Note: the fields Wi-Fi Network Name and Wi-Fi Network Password allow the following characters:

Space	!	"	#	$	%	&	'	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9
:	;	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
T	U	V	W	X	Y	Z	[	\	]	^	_	`	a	b	c	d	e	f	g	h	i	j	k	l	m
n	o	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~									

» **Hide:** select this option if you want the name of your Wi-Fi network to be hidden. In this case, in a common Wi-Fi search your network will not be listed with its name and you will have to manually configure the SSID on the devices to be connected to it.

Wi-Fi Network Scheduling

Wi-Fi scheduling configuration screen

In the menu *Wi-Fi Network Scheduling* you can schedule a time to turn off your Wi-Fi network. Scheduling will only work if the system time is synchronized with the Internet. You can check the system time in

System settings>Time settings.

To disable your Wi-Fi network at a scheduled time simply enable the option *Wi-Fi Network Scheduling*, choose the interval at which you wish to disable the Wi-Fi network, and the days on which the scheduling should take effect.

Note: if you wish to turn Wi-Fi on when it is off because it is within a scheduled time, press the Wi-Fi button located on the back of your router.

Channel and bandwidth

Channel and bandwidth configuration screen

In the menu *Channel and Bandwidth* you can configure the network mode, the channel and the bandwidth of the Wi-Fi network for the two operating frequencies:

» **Network m ode:** network mode allows you to choose which technologies your router will operate on.

Note: limiting to some technology may cause some device not to be able to connect to your Wi-Fi network, so we recommend using the router's default values.

» **Wi-Fi network channel:** operation channel of the router's Wi-Fi network. You can check, through specific applications for this purpose, which channel is less busy and then use it on your router to improve product performance.

» **Wi-Fi network bandwidth:**

  » **For Wi-Fi 2.4 GHz it is possible to:**

    » Set to 20 MHz or 40 MHz. With this option, all wireless devices will connect to your router using 20 MHz or 40 MHz as selected.

    » Select 20/40 MHz. This way the router will set the best bandwidth to be used and fix its operation automatically in this mode.

  » **For Wi-Fi 5 GHz it is possible to:**

    » Set to 20 MHz, 40 MHz or 80 MHz.

    » Select 20/40/80 MHz. This way the router will set the best bandwidth to be used and fix its operation automatically in this mode.

Transmission power

Transmission power configuration screen

In the menu *Transmission Power* you can configure the signal strength of the ACtion RG 1200 for the frequencies of

2.4 GHz and 5 GHz. *Use* High *Power if you want the router to operate at its maximum range.* If you are still having problems with the signal range, we recommend checking your router's installation location as described in the item *Cuidados e segurança,* or using a Wi-Fi signal repeater.

WPS

WPS configuration screen

The function *WPS* allows you to connect devices to your Wi-Fi network quickly and securely. If you have a WPS compatible device you can allow it to access your router's Wi-Fi network through one of the available WPS modes: physical button (PBC) or PIN.

» **Physical Button (PBC):** if the device you wish to connect to your Wi-Fi network has a *WPS*, follow the procedure:
   1. Press the button *RST/WPS* (one click only) located on the back of your ACtion RG 1200. Verify that the product's Wi-Fi LED will flash slowly, indicating that the network is available for WPS connection, for about 2 minutes. You can also activate WPS through the button *Click here*, available in the web configuration interface;
   2. Within 1 minute after pressing the button *RST/WPS* on your router, press the button *WPS* on your wireless device and wait while the connection is established.

   Tip: Some devices, for example smartphones with Android® operating system, have a *virtual WPS* button, i.e., option to activate WPS through the advanced Wi-Fi network settings. Please refer to the instructions for use or the manufacturer of your device if you need more information.

» **PIN Mode:** you can get the current PIN of your router in WPS settings. Simply enter the number on your wireless device and then proceed with the connection.

Beamforming+

| Beamforming+ | ✕ |

Beamforming+:

Beamforming+

Cobertura Wi-Fi mais inteligente

Este roteador está equipado com a mais recente tecnologia Beamforming+, que detecta as posições dos dispositivos sem fio na rede, como telefones celulares e tablets, e fortalece a transmissão de sinal para essas posições para melhor navegação na web, jogos e experiência de reprodução de vídeos.

Beamforming+ configuration screen

In the menu *Beamforming+* you can enable the function *Beamforming+,* which detects the positions of devices in the 5 GHz Wi-Fi network, such as mobile phones and tablets, and strengthens the signal transmission to these positions for better web browsing, gaming performance and video playback experience.

Note: *for the* Beamforming+ *function to work correctly, the wireless devices that will connect to the Wi-Fi network*

5 GHz of ACtion RG 1200 must support Beamforming+ *function. Please refer to the instructions for use or the manufacturer of your devices if you need more information.*

Anti-interference

In the menu *Anti-interference* you can activate, deactivate or leave the operation automatically.

» **Automatic:** in *automatic* mode the router limits the accepted signal level in Rx from the ambient noise level.
» **Activated:** in *activated* mode the router limits the accepted signal level at Rx from the modulation sensitivity level at which it operates.
» **Deactivated:** disables the function.

4.6. Network for visitors

Network configuration screen for visitors

In the menu *Network for visitors* you can configure a separate network for visitors. With this you do not need to give your main Wi-Fi network password to other people.

- » **2.4 GHz Wi-Fi network name:** the name you want for your 2.4 GHz Wi-Fi network, for example, *Visitors*. This field allows you to create a name with up to 32 characters.
- » **5GHz Wi-Fi network name:** the name you want for your 5GHz Wi-Fi network, e.g., *Visitors_5G*. This field allows you to create a name with up to 32 characters.
- » **Network password for visitors:** password you want for your 2.4GHz Wi-Fi network and 5GHz visitors. This is the password you will enter for visitors. Leave this field blank if you want to configure an open network, you do not need a password to connect to the visitors network. Up to 63 characters are allowed in this field.
- » **Validity:** inform for how many hours you want the visitors network to be available, after that time the visitors network will be disabled. If you want the visitors network to be always available, select the option *Always*.
- » **Shared bandwidth among guests:** if you wish to limit the bandwidth available to your visitors you can choose how many Mbps they can use.

Note: the fields 2.4 GHz Wi-Fi Network Name, 5 GHz Wi-Fi Network Name and Wi-Fi Network Password allow the following characters:

Space	!	"	#	$	%	&	'	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9
:	;	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
T	U	V	W	X	Y	Z	[	\	]	^	_	`	a	b	c	d	e	f	g	h	i	j	k	l	m
n	o	p	q	r	s	t	u	v	w	x	y	z	{			}	~									

4.7. Parental control

Parental control configuration screen

In the menu *Parental control*, it is possible to configure the time of access to the internet and the websites that each device will be able to access.

When accessing the menu *Parental Control*, a list of connected devices will be displayed, informing the name, MAC address, active time and options for each device. The available options are:

✎	Edit the time and sites that the device will be able to access.
⊘	Disables parental control for the device, allowing full internet access (icon displayed only when there is a rule configured for the device).
✓	Enables parental control for the device, allowing access to only the specified sites and at the configured time (icon displayed only when parental control is disabled for the device).

The following options are available when clicking ✎ :

- » **Device name:** you can change the default device name for easy identification.
- » **Internet accessible at:** choose the time when the device will be able to access the internet.
- » **From:** choose the days on which the device can access the internet at the time configured in the option *Internet accessible at.*
- » **Control access to websites:** enable/disable control of the websites that the device will be able to access.
- » **Control type:** if you want to block only some sites, select *Block listed*, so the sites entered in *Blocked websites* will not be accessible to the device. If you want to allow only some sites, select *Allow listed*, so the device will only access the sites listed under *Allowed websites*, blocking access to any other websites.
- » **Blocked websites:** enter sites separated by commas. For example: google, facebook indicates that only Google and Facebook websites will be blocked.
- » **Allowed websites:** enter sites separated by a comma. For example: *Google, Facebook* indicates that only Google and Facebook websites will be accessible.

  Note: the site filter is done by word, i.e., any site containing the keyword will be blocked or allowed.

Edit screen of a device in parental control

When click on *Save* the device will already be controlled as configured above.

Note: if any device is not appearing in the list you can add it manually by clicking Add, the MAC address of the device is required.

4.8. IPv6

In the menu *IPv6* you can configure IPv6 addressing options.

Configuring IPv6 WAN

WAN IPv6 configuration screen

The menu *WAN IPv6 settings* groups the settings related to your IPv6 Internet connection. Below we will explain each available option.

» **IPv6:** allows you to enable/disable IPv6 on the *Internet* port of the router.
» **Connection type:** there are 3 possible connection modes:
  » **DHCPv6:** use this mode if your connection details are provided automatically through a DHCPv6 server.
  » **PPPoEv6:** use this mode if your Internet access requires authentication via PPPoE. In this mode you need a user and password to authenticate with your operator or ISP. You must enter the user in the field *Enter your provider's user* and your password in the field *Enter your provider's password*.

» **Static IPv6:** use this mode if your Internet access is provided via a static IPv6 address. All information for the configuration in this mode must be provided by your Internet operator.

» **Obtain a Stateful address:** if your operator or ISP delivers the address via DHCPv6 Stateful, check this option.

» **Obtain Prefix Delegation:** if your operator or ISP delivers the LAN prefix via Prefix Delegation, check this option.

Note: the options Obtain Stateful Address *and* Obtain Prefix Delegation are only displayed for the modes PPPoEv6 and DHCPv6.

When you finish the settings, click on the button *Save* to apply the changes.

IPv6 LAN configuration

IPv6 LAN configuration screen

The menu *LAN IPv6 settings* groups the settings related to your IPv6 connection on the router LAN. Below we will explain each available option.

» **LAN IPv6 address:** allows you to configure the IPv6 address of the router LAN. Select *Manual* if you want to configure a specific IPv6 address.

» **LAN IPv6 Prefix:** allows you to configure the router's LAN IPv6 prefix. Select *Manual* if you want to configure a specific prefix. Depending on the type of connection used on the WAN, you may need to configure a prefix reported by your operator or ISP.

» **DHCPv6:** enables or disables the DHCPv6 server on the router LAN.

» **Type of DHCPv6:** allows you to choose how the DHCPv6 server will deliver the IPv6 addresses to the devices on the router's LAN. Choose *Manual* if you want to configure a specific address range.

» **DNS IPv6:** allows you to configure the DNS servers that will be sent to the devices on the router's LAN. Choose *Manual* if you want to use specific DNS servers.

When you finish the settings, click on the button *Save* to apply the changes.

4.9. Advanced settings

The following describes the options available in the menu *Advanced settings* of the ACtion RG 1200 web interface.

Band control

Band control configuration screen

Band control allows you to set your Internet speed use priorities.

To enable band control, go to *Advanced settings>Band control.* When doing this, the following options will be available:

» **Device name:** displays the device name and its IP address. The device name can be changed by clicking ✎ .
» **Upload speed:** informs the current upload consumption of the device.
» **Download Speed:** informs the current download consumption of the device.
» **Upload limit:** informs the maximum upload speed in Mbps for the selected device. Select *Unlimited* if you want the device to be able to use the upload band of your internet without limitation.
» **Download limit:** informs the maximum download speed, in Mbps, for the selected device. Select *Unlimited* if you want the device to be able to use the download band of your internet without limitation.

After filling in the information, click *Save* to apply the changes made.

Energy saving mode

Energy saving mode configuration screen

In the menu *Energy saving mode* you can set a time when the product LEDs and the Wi-Fi network will be disabled to save energy.

To enable Power Save Mode, go to the menu *Advanced Settings>Energy saving mode,* enable the option *Energy saving mode* and choose the desired time in the option *Energy saving time.* By default the activation of the saving will be delayed while you have users *online.* If you want to disable the delay, uncheck the option *Delay.*

After making the settings, click *Save.*

If you wish to use the Wi-Fi network when the router is in power saving mode, press the button *Wi-Fi* on the back of the router.

Note: the energy saving only works if the system time is synchronized with the Internet.

LED control

LED control configuration screen

In the menu *LED Control* you can control the LEDs (front lights) of the router. The following options are available:

- » **Always on:** Normal operation of the LEDs as indicated in the *LED Description* of item *1. Especificações técnicas.*
- » **Always off:** the LEDs on the router will always be off.
- » **Scheduling**: in this option you can set the time that the LEDs will be off. By selecting *Scheduling*, you can choose the time in the option *turn off during.*

Note: Scheduling works only if the system time is synchronized with the Internet.
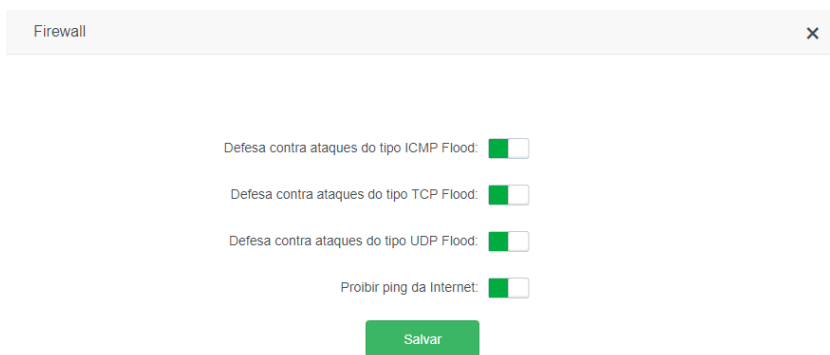
MAC address filter

MAC address filter configuration screen

The *MAC Address Filter* allows you to control Internet access to certain devices on your network, directly on your router. The blocking is done through the MAC address of the device (smartphone, tablet, computer, etc.) that you want to block or allow.

» **Filter type:** allows you to switch between filter mode. The available modes are *Block listed* (blocks devices listed in the rules) and *Allow listed* (allows only devices added to the rules to access the Internet).

» **Blocked devices:** identification of the blocked device (option displayed when the selected filter type is *Block listed*). Enter a name to help you identify which device is this.

» **Allowed devices:** device identification allowed (option displayed when the selected filter type is *Allow listed*). Enter a name to help you identify which device is this.

» **MAC address**: allows you to enter the MAC address of the device for which the rule should act.

In the first line of the list, you can add a new device to the filter. After filling in the fields, click *Add* and then click *Save*.

The list of rules created will appear right below. To delete a rule just click 🗑.

Firewall

Firewall configuration screen

In the menu *Firewall* you can enable or disable some options that can protect the router and your internal network from some known types of attacks. The types of attacks that can be enabled or disabled are:

» **Defense against ICMP Flood attacks:** the *ICMP Flood* is the act of sending as many ICMP packets as possible in the shortest amount of time in order to slow down your connection and may even prevent you from connecting to the Internet. Leaving this option active will identify this type of attack and prevent it from being executed.

» **Defense against TCP Flood attacks:** the *TCP Flood* is the act of sending the largest number of TCP packets in the shortest time possible, in order to slow you connection and may even prevent you from connecting to the Internet. Leaving this option active will identify this type of attack and prevent it from being executed.

» **Defense against UDP Flood attacks**: the *UDP Flood* is the act of sending as many UDP packets as possible in the shortest amount of time in order to slow down your connection and may even prevent you from connecting to the Internet. Leaving this option active will identify this type of attack and prevent it from being executed.

» **Prohibit ping from the Internet:** disables the response to ping received from the Internet. It helps to make your network more secure by making it difficult for someone to know that your router is on the Internet and try to make some kind of attack or improper access.

We recommend using the default router settings. If you want to change any option, just click on the button next to the desired option and then on *Save*.

Static route

Rota Estática				✕
				Número máximo de regras: 10
Rede de destino	Máscara de sub-rede	Gateway	WAN	Opções
			WAN1	+ Adicionar
0.0.0.0	0.0.0.0	10.1.27.1	WAN1	Sistema
10.0.0.0	255.255.255.0	0.0.0.0	br0	Sistema
10.1.27.0	255.255.255.0	0.0.0.0	WAN1	Sistema
224.0.0.0	240.0.0.0	0.0.0.0	br0	Sistema

Static route configuration screen

In the menu *Static Route* you can add routes to other networks you wish to access. In addition, you can view the default routes created by the system.

To add a static route, fill in the fields as follows:

» **Destination Network:** enter the network you wish to access.
» **Subnet mask:** in this field enter the subnet mask of the specified network in the field *Destination network*.
» **Gateway:** in this field, enter the IP address of the gateway (router) that can route data to the specified network in the field *Destination Network*.

After completing the fields, click *Add*.

The list of rules created will appear right below. To delete a rule just click 🗑.

Note: items marked as System, are internal router routing rules and cannot be deleted.

DDNS

DDNS	✕

DDNS: ▢

Provedor de Serviço: no-ip.com ▾ Registrar

Nome de usuário: [   ]

Senha: [   ]

Nome do domínio: [   ]

Status da conexão: Desconectado

Salvar

DDNS configuration screen

Through the DDNS feature you can add a dynamic No-IP and DynDNS service host to your router. You must register your information directly on the website of one of the services, and then inform in the router the parameters for authentication.

Tip: to access the page of each of the servers (DynDNS and No-IP), you can click on the link *Register* of the web interface, after selecting the service in the field *Service Provider*.

Fill in the information according to the host registration at your preferred provider and click *Save*.

Port forwarding

Redirecionamento de Portas				✕
			Número máximo de regras: 16	
Endereço IP interno	Porta interna	Porta externa	Protocolo	
	Inicial - Final	Inicial - Final	TCP ▾	+ Adicionar

Port forwarding configuration screen

Port forwarding is used to release Internet access to specific ports of your local area network (LAN) devices.

This feature can be accessed through the menu *Advanced Settings>Port forwarding* in the ACtion RG 1200 web configuration interface.

To add a new rule, fill in the fields according to the following guidelines.

- » **Internal IP Address:** this must be the IP address of the device on your internal network that will receive the forwarded traffic.
- » **Internal Port:** these fields must indicate the port or range of ports used by the device application reported in the field *Internal IP Address*.
- » **External Port:** these fields must indicate the port or range of ports that will concentrate the Internet traffic that will be directed to the ports reported in the field *Internal Port* of the device reported in the field *Internal IP Address*.
- » **Protocol:** indicates the transport protocol to be used. You need to confirm this information for the forwarding to be successful. The options are *TCP*, *UDP* and *TCP&UDP*. If you want to forward both protocols (TCP and UDP) to the same destination, you must select *TCP&UDP*.

After completing the fields, click *Add*.

The list of rules created will appear right below. To delete a rule just click 🗑.

DMZ

DMZ	✕

DMZ: ▮

Endereço IP: 10.0.0. 100

Salvar

DMZ configuration screen

This feature allows you to set up a device on your network to receive all connection requests received via the Internet and that do not have any specific forwarding rules.

To set a device as DMZ:

1. Go to the menu *Advanced Settings>DMZ;*
2. Enable the function by activating the option *DMZ*;
3. Fill in the field *IP Address* with the address of the device you want to turn into a DMZ;
4. Click on *Save*.

UPnP

Host Remoto	Porta remota	Host local	Porta local	Protocolo
anywhere	8080	10.0.0.121	8080	TCP

UPnP configuration screen

UPnP allows applications to request port forwarding to the router automatically. This option is enabled by default. If you want to disable it, go to the menu *If you want to disable it, go to the>UPnP* of the web configuration interface and uncheck the option *UPnP*. In the same menu you can see which applications and devices are being forwarded via *UPnP* request.

4.10. System settings

The following describes the options available in the menu *System Settings* of the ACtion RG 1200 web interface.

LAN settings

LAN settings screen

In the menu *LAN Settings* you can change the following settings:

» **LAN IP Address:** IP address of the router LAN. When changing this information you should use the new IP address to access the router interface or perform access using the address *http://meuintelbras.local*.
» **Subnet mask:** LAN subnet mask of the router.

» **DHCP Server:** allows to enables or disables the DHCP server in the LAN of the router. When disabling the DHCP server, you must configure an IP address in each device connected to the router.
» **IP Address interval:** the DHCP server will deliver to the devices connected to the router an IP address within the specified range.
» **Lease Time:** the time interval the device will be able to use the IP address. After the end of this time the device will automatically request a new IP address from the router or renew the lease time.
» **Configuring DNS manually**: if you want to use specific DNS servers, you can enable this option and enter the servers in the *Primary DNS Server* and *Secondary DNS Server.*

IP address reservation

IP address reservation configuration screen

In the menu *IP address reservation* you can reserve an IP address for a device, so that it always receives the same IP address when connecting to the router.

When you enter the menu *IP address reservation*, the list of devices will appear with the following information:

» **Device name:** device name. This name can be changed on the screen *Manage Devices*, *Parental Control* or *Parental Control.*
» **MAC Address:** MAC address of the device. This field cannot be changed.
» **IP Address:** When no association has been configured for the device, this field tells you the current IP address of the device. To change, just click on the field and edit, or select the option *Manual* and then enter a new IP address.
» **Status:** informs if the device is connected to the router:

 Device connected to the router

 Device is not connected to router

» **Options:** the following options are available:

 Click to associate the IP address to the device

 Click to remove the IP address association to the device

 Click to delete a manually created rule

If the device is not appearing in the list, you can add it manually by entering the information in the first line of the list and clicking *Add*.

Internet port settings

Configurações da porta Internet ✕

MTU:	1500
Velocidade:	Auto negociação ▼
Endereço MAC:	Padrão ▼ Padrão:00:1A:3F:45:46:4F

Salvar

Internet port settings screen

On this screen, you can configure the following *Internet* port parameters:

» **MTU:** the modification of the MTU parameter should only be performed when requested by your ISP, or when the router is being used in some scenario where the default value does not work. For most cases the default value (1500) can remain unchanged.

» **Speed**: you can set the speed of the *Internet* port by setting a specific value or allowing automatic negotiation by selecting the option *Autonegotiation*.

» **MAC Address:** allows you to associate a different MAC address from the default to your router's *Internet* port. You can manually enter the desired MAC address using the option *Configure MAC address*, copy the MAC address of your current device to the *Internet* port using the option *Clone Local MAC Address* or use the default MAC address using the option *Default*.

Time settings

Configurações de Hora ✕

Selecione o fuso horário:	(GMT-03:00) Brasília, Brasil ▼
Hora atual:	10-01-2019 17:31:27 (Horário sincronizado com a Internet)

No horário de verão, favor selecionar o fuso (GMT-02:00) Brasília, horário de verão.

Salvar

Time settings screen

On this screen, you can select the time zone of your region and view the current router time. The system date and time will be updated when ACtion RG 1200 has Internet access.

Note: Brasilia time zone is GMT-03:00, Amazonas GMT-04:00, Acre GMT-05:00 and Fernando de Noronha GMT-02:00.

Login password

Login password configuration screen

To change your router's web configuration interface password, you must fill in the fields shown and click *Save*.

When you do this, you will be directed to the screen where you should log into your router's web configuration interface, using the new password you registered.

Restart/Factory Default

Screen with restart options and factory default

If you wish to restart your router, you can perform this procedure in two ways:

1. Through the web configuration interface, in the menu *System Settings>Restart/Factory Default,* click on the button *Restart* and wait, following the on-screen instructions;
2. You can simply remove the power cord from your router and plug it in again, or remove the power supply from the outlet and plug it in again;

Through this screen you can also return the ACtion RG 1200 to factory default settings. In this case, all your current settings will be lost.

To restore the product to factory default settings via the web configuration interface:

1. In the menu *System Settings>Restart/Factory Default* of the web configuration interface, click the button *Factory Default;*
2. Wait while the configuration is restored, following the directions displayed by the web interface.

To restore the product to factory default settings via the physical RST/WPS button:

1. Plug the router into the outlet and wait for it to start (SYS led flashing);
2. Press the button *RST/WPS,* located on the back of the ACtion RG 1200, for about 20 seconds until the LEDs light up (1 second) and turn off afterward;

3. Release the button *RST/WPS* and wait while the setting is restored. This will take about 2 minutes.

After restoring the settings, the router will return all parameters to the factory default, so if you want to use it again, you will have to make the necessary settings again.

Firmware update

| Atualização de Firmware | ✕ |
| Versão atual: 1.0.3 |
| Tipo de atualização: ● Atualização Online ○ Arquivo |
| Nenhuma versão mais recente está disponível. |
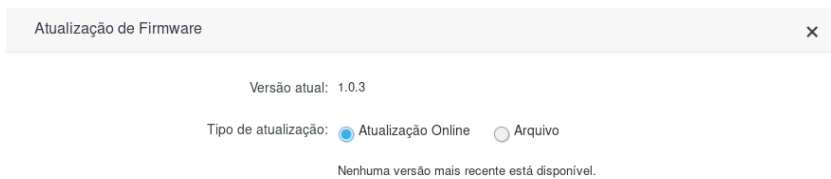
Firmware update screen

When an update is available, ACtion RG 1200 will display a warning when accessing the configuration web interface. To update, simply click *Yes* and then *Update*.
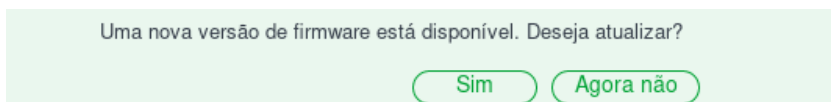

Uma nova versão de firmware está disponível. Deseja atualizar?

Sim   Agora não

New version available message

To update your router firmware manually, you must go to the menu *System Settings>Firmware update* and choose the type of update:

» **Online update:** if a new firmware version is available just click on *Update* and follow the screen procedures. If no newer version is identified the message *No newer version is available* will appear.

» **File:** to update the router using a firmware file, simply browse for the file in the option *Select the firmware file* and click *Update*. The latest version of the software for your router can be found at our website.

Backup/restore

Backup/Restauração ✕

Backup

Clique no botão Backup para salvar as configurações em seu computador.

Restaurar

Clique no botão Restaurar para carregar uma configuração salva em seu computador.

Screen with configuration backup and restore options

To generate the file with the backup of your router settings just click the button *Backup* and then confirm the operation. The file will be downloaded according to your web browser settings and can be used to restore your ACtion RG 1200 when needed.

To restore the settings using a previously generated backup file, click the button *Restore* to choose the file from your device and select the backup file. Please wait by following the on-screen instructions.

Remote management

| Gerenciamento Remoto | ✕ |

Gerenciamento Remoto: [ON]

Endereço IP remoto: `0.0.0.0`

Porta: `8080`

[Salvar]

Remote management configuration screen

Remote management settings allow access to the ACtion RG 1200 configuration web page via the Internet.

» **Remote management:** enables the function, so that the router allows access to the configuration web page via incoming connections through the *Internet* port . Once the function is enabled, you can specify a port for the connection through the field *Port*.

» **IP Address:** if you want to limit access to the configuration web page to only one IP address, specify in this field. The default value *0.0.0.0* allows any IP address to remotely access the product web configuration page (through authentication using the login password of the page).

» **Port:** port through which you want to allow access, via internet, to the router's web configuration interface. By default the configured port is *8080*.

To make any change click *Save* and wait for the configuration to complete.

Note: *for security reasons, it is necessary to create* a password to access the product's configuration web interface. Avoid using simple values like admin, 1234, among others. Prefer stronger passwords that prevent unwanted access to your router settings.

System Status

Through this option various information related to the operation of ACtion RG 1200 is displayed. This same information is accessible by clicking on the router figure in the *Internet Status* menu page.

System Logs

The logs page displays information other than the events that occurred during the router's operating time.

Automatic maintenance

| Manutenção Automática | ✕ |

Agendar reinicialização do sistema: [ON]

Reinicializar à(s): `03` : `00`

Atraso: ☑ Atrasar a manutenção do roteador enquanto tiver usuários com tráfego maior que 3KB/s.

[Salvar]

Automatic maintenance configuration screen

The function *Automatic Maintenance* allows you to restart the router daily at a specific time. By default, this function is enabled, so the product will restart at the scheduled time as long as there are no users connected with traffic over 3 kB/s. You can change the time at which the router will restart in the option *Restart*. If you want to restart your router even when you have traffic over 3 kB/s, uncheck the option *Delay*.

Note: automatic maintenance works when the router time is synchronized with the internet and when the product is active for more than 05:00 hours.

5. Frequently Asked Questions (FAQ)

What to do when I can't access the Internet?	Check if all cables are connected correctly, according to the item*3. Instalação* and that all network equipment is active. Turn the router and the other equipment that provide your Internet connection off and on again. Check with your Internet Service Provider to ensure that there is no problem with your broadband service. If the problem continues, contact our technical support for more details.
What do I do when I can't access the web wizard?	Check all physical connections, according to the item*3. Instalação*. Your computer/laptop must be connected to the *LAN* port of your router, or connected to your router's Wi-Fi network. Make sure that your computer is configured to *obtain an IP address automatically* from the network settings. Try accessing your ACtion RG 1200 via the link *http://meuintelbras.local*.
What can I do if I forget the wireless password?	Connect a device via the network cable to one of the *LAN* ports on the router. Then, using a web browser, access the ACtion RG 1200 configuration interface, go to the menu *Wi-Fi Network Settings > Wi-Fi Network Name and Password* and set your password again.
What can I do if I forget the password to access the web interface?	Restore the factory settings by pressing the button *RST/WPS* on the back of the ACtion RG 1200 for about 20 seconds until the leds light up (1 second) and turn off afterward.
What do I do when the 5 GHz network does not appear in my device?	Make sure the 5 GHz Wi-Fi Network is not disabled by going to the ACtion RG 1200 Setup page in the menu *Wi-Fi Network Settings > Wi-Fi Network Name and Password*. Since not all devices support 5 GHz frequency, check the technical specifications of your device to see if it supports 5 GHz Wi-Fi networks.
What to do when I can't get a good Wi-Fi connection?	For a good connection to the router, your device must be within the signal range of the router, i.e., receiving Wi-Fi signal properly, and with little interference from other Wi-Fi routers or devices at the same operating frequency (2.4 or 5 GHz). To improve your connection you can try: » Refer to the item *Cuidados e segurança* to check the best place to install your router. » Change your router's operating channel. Refer to the topic*Canal e largura de banda* in the item*4.5. Configurações da rede Wi-Fi* for more information. » Some devices do not support higher speeds. Check the technical specifications of your device to see if it supports the same technologies as your router.
My device's Wi-Fi network (mobile phone, computer) sometimes disconnects and reconnects to the router's network. What to do?	**Option 1:** did you save both Wi-Fi networks (2.4 and 5 GHz) on your device, leaving it to automatically choose between them? If so, remove one of the networks on your device (for example, forgetting the network on the smartphone). Make sure the behavior stops happening. Some devices may be switching between saved networks, so you'll notice disconnections. We recommend keeping saved only one of the networks on the device that has this problem. **Option 2:** did you give equal names to the Wi-Fi 2.4 and 5 GHz networks? If so, change the names to make them different. For example, if your 2.4GHz network has been set up with the name My Network, change the name of the 5GHz network to My 5G network in the menu *Wi-Fi network settings > Wi-Fi network name and password*. For more details on Wi-Fi settings, please refer to the item *4.5. Configurações da rede Wi-Fi*. *Note: If no option solves your problem, please contact our support.*

Warranty term

It is expressly stated that this contractual warranty is given subject to the following conditions:

Name of customer:

Signature of the customer:

No. of the invoice:

Date of purchase:

Model: Serial No:

Reseller:

1. All parts and components of the product are under warranty against possible manufacturing defects, which may present, for a period of 5 (five) years – comprising 3 (three) months of legal warranty and 57 (fifty seven) months of contractual warranty –, counted from the date of purchase of the product by the Consumer, as stated in the invoice of purchase of the product, which is part of this Term throughout the national territory. This contractual warranty includes the free exchange of parts and components that have a manufacturing defect, including the expenses with the labor used in this repair. If there is no manufacturing defect, but flaw(s) from improper use, the Consumer will bear these expenses.

2. The product installation must be done in accordance with the Product Manual and/or Installation Guide. If your product needs to be installed and configured by a qualified technician, look for a suitable and specialized professional, and the costs of these services are not included in the value of the product.

3. If you notice a defect, you should immediately contact the nearest Authorized Service listed by the manufacturer – only they are authorized to examine and remedy the defect during the warranty period provided herein. If this is not adhered to, this warranty will lose its validity, as it will be characterized as the violation of the product.

4. In the event that the Customer requests home care, the Customer should refer to the nearest Authorized Service for the technical visit fee. If the need for withdrawal of the product is found, the expenses arising, such as transportation and safety to and from the product, are under the responsibility of the Consumer.

5. The warranty will totally lose its validity in the event of any of the following: a) if the defect is not of manufacture, but caused by the Consumer or by third parties alien to the manufacturer; b) if the damage to the product comes from accidents, claims, agents of nature (lightning, floods, landslides, etc..), humidity, mains voltage (overvoltage caused by accidents or excessive mains fluctuations), installation/use in disagreement with the user manual or due to natural wear of parts, pieces and components; c) if the product has been influenced by chemical, electromagnetic, electrical or animal (insects, etc.); d) if the product's serial number has been tampered with or erased; e) if the device has been violated.

6. This warranty does not cover loss of data, so it is recommended, if the product is concerned, that the Consumer make a regular backup copy of the data contained in the product.

7. Intelbras is not responsible for the installation of this product and also for any attempts of fraud and/or sabotage on its products. Keep software and application updates, if any, up to date, as well as network protections necessary to protect against hackers. The equipment is under warranty against flaws within its normal conditions of use, and it is important to be aware that, since it is an electronic equipment, it is not free from frauds and scams that may interfere with its correct functioning.

As these are the conditions of this Term of Additional Guarantee, Intelbras S/A reserves the right to change the general, technical and aesthetic characteristics of its products without prior notice.

The manufacturing process of this product is not covered by ISO 14001 requirements.

All images in this manual are illustrative.

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talk to us

Customer Support: (48) 2106 0006
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Customer Service: 0800 7042767
Where to buy? Who installs it? 0800 7245115