

## 2506 Polycom Ring Detector

## **Wiring & Configuration**



#### **Order Codes**

#### 2506 Polycom Ring Detector

Document 90-00082 2019-01-15 Page 1 Algo Communication Products Ltd 4500 Beedie St Burnaby BC Canada V5J 5L2 www.algosolutions.com

(604) 454-3792 support@algosolutions.com



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## About the Algo 2506 Polycom Ring Detector

Polycom VVX phones can be configured to provide ring audio to the headset jack instead of the speaker. The Algo 2506 module detects the low-level audio from the headset jack and provides an isolated signal to activate an 8128 SIP Strobe Light, 8180 SIP Audio Alerter, 8186 SIP Horn Speaker, or 8188 SIP Ceiling Speaker directly instead of using SIP.

Only one Algo alerting device (8128, 8180, 8186, or 8188) can be connected directly to the 2506 Polycom Ring Detector at a time. However, any of the four devices can relay a signal to additional devices via the relay output connections on the back or via multicast.

#### What is Included

- 2506 Polycom Ring Detector
- Coiled Handset Cord
- Wires

#### What is not Included

- 8128 SIP Strobe Light
- 8180 SIP Audio Alerter
- 8186 SIP Horn Speaker
- 8188 SIP Ceiling Speaker



## **Getting Started - Quick Configure & Test**

*This guide provides important safety information which should be read thoroughly before permanent setup.* 

- 1. If using an 8180/8186/8188, first configure the device via the web interface, as per the instructions in this guide. Next, test that the configuration is correct by shorting a pair of wires to the input on the back of the device. (The 8128 does not require any web configuration.)
- Connect one end of a wire pair (maximum length of 20 feet) to the "+" and "-" screw input terminals on the 2506 and the other end to the relay terminals on the Algo alerting device. The pin polarity and placement varies between devices. Refer to the guide for more information.
- 3. Connect the Algo alerting device to the network via an Ethernet cable at the back of the device. Ensure that a PoE port is used for power.
- 4. Plug one end of the coiled handset cord into the RJ jack on the 2506 and the other end into the HEADSET jack on the Polycom phone.
- 5. Set the ring signal on the phone to be sent to the headset jack.
- 6. Set the VVX Polycom phone ringing volume to maximum. (Ensure that the headset is set up before the ring volume is configured.)
- 7. When an incoming call is received by the Polycom VVX phone, an audio/visual alert will be triggered.



# 8180/8186/8188 Web Interface Configuration

The Algo 8180, 8186, and 8188 web interface should be configured before any wiring connections are made to avoid damaging the 2506. The 8128 does not require any web configuration to operate with the 2506.

Connect the Algo audio device to the network via an Ethernet cable at the back of the device. Ensure that a PoE port is used for power.

After boot up, the device will beep and the intercom will have obtained an IP address. If there is no DHCP server the device will default to the static IP address **192.168.1.111**.

Directions to obtain the IP address of the SIP device can be found in 8180 SIP Audio Alerter User Guide, 8186 SIP Horn Speaker User Guide, or 8188 SIP Ceiling Speaker User Guide. The IP address may also be discovered by downloading the Algo locator tool to find Algo devices on your network: www.algosolutions.com/locator

NIGO 8180 SIP						
LOO	Audio Alerter Control Panel					
elcome to the Algo 8180 SIP Audio Alerter Co	ntrol Panel					
ting up your SIP Audio Alerter:						
ep 1: Configure your SIP Audio Alerter						
g in with the default password and use the Basic Settings page	to set up the basic information.					
ep 2: Check network settings (Optional)						
e the Network page under the Advanced Settings tab to chang CP server. Contact your Network System administrator if you	e network settings. The default setting for the plan to assign a static IP address, Mask, and	e device is to ob Gateway to the	ain its IF device.	addre	ss from	m a
ep 3: Secure your SIP Audio Alerter (Optional)						
e the Admin page under the Advanced Settings tab to change Changing the password is extremely important if the device is	he administrator password. lirectly connected to a public network.					
2p 4: Register your SIP Audio Alerter (Optional)						
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- 1. Enter the IP address (eg 192.168.1.111) into a browser such as Google Chrome, Firefox, or Internet Explorer (other than IE9).
- 2. In the web interface, enter the password to log in. The default password is **algo.**
- 3. Go to "Advanced Settings > Input/Output" tab.
- 4. Follow the appropriate instructions below, depending on the device being used.
- 5. Click "Save" in the bottom right corner of the page.
- 6. Short a pair of wires to the input on the back of the device to see if an alert is triggered. If not, verify the PoE connection and web configuration options.

#### 8180 Web Configuration

Jutput			
Speaker Mode	● Auto ◎ External ◎ Internal ◎ Disabled ④ The "External" speaker mode cannot be used if "Relay Input" mode is selected for the Speaker Terminal Function.		
Relay Mode	Both      CRing      CPage      CDisabled		
Message Waiting Light	●None ©On ©Flash		
Heartbeat Light	©Enabled  ©Disabled		
Page Light			
Input			
Input Speaker Terminal Function	Speaker Output  Relay Input		
(nput Speaker Terminal Function Relay Input Polarity	Speaker Output ®Relay Input ®Normally Open Contact ®Normally Closed Contact		
Input Speaker Terminal Function Relay Input Polarity Ring Tone	©Speaker Output ©Relay Input ©Normally Open Contact ©Normally Closed Contact Chime.wav (?)		
Input Speaker Terminal Function Relay Input Polarity Ring Tone Ring Duration	Speaker Output      Relay Input     Onormally Open Contact     Chime.wav (?)     Play Once      Play While Held      Play until Cancelled     The Play until Cancelled     The Play until Cancelled* mode requires the Ring/Alert Mode setting to be set to *Call to Cancel*.		

- Set the "Speaker Terminal Function" to "Relay Input".
- Ensure that "Relay Input Polarity" is set to "Normally Open Contact". Other configuration options can be set as desired.



#### 8180G2 Web Configuration

Auto         Terminal Block Functions           Speaker Mode              • Auto              • Disabled             • Output              • Provide             • Output              • Provide             • Output             • Provide               • Output             • Provide             • Provid	nput/Output Emergency Alerts More Pag	ge Extensions More Ring Extensions
put/Output         Terminal Block Functions         Speaker Mode <ul> <li>Auto</li> <li>Internal</li> <li>External</li> <li>Disabled</li> <li>Whete the Auto mode is not available when the Relay Terminal Function is set to Input.</li> </ul> Relay Terminal Function <ul> <li>Output</li> <li>Input</li> <li>Relay Normally Open</li> <li>Relay Normally Open</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed with Supervision</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed with Supervision</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed with Supervision</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed with Supervision</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed</li> <li>Relay Normally Cosed</li> <li>Relay Supervision</li> <li>Relay Terminal Function</li> <li>Relay Supervision</li> <li>Relay Terminal Function switch</li> <li>Augo 1204 Volume Control Switch with Supervision</li> <li>Relay Terminal Function Switch</li> <li>Relay Terminal Function Switch</li> <li>Relay Terminal Function Switch Relay Terminal Function Switch Relay an uniticast for monitoring applications, When microphone start Terminal Terminal Function Switch Relay Terminal Fanction Switch Relay Terminal Fanction Switch Relay Terminal Function</li> <li>Relay Terminal Fanction Switch Relay Terminal Fanctis and Switch Relay Site Site Site Site Site Site Site Si</li></ul>		
Terminal Block Functions         Speaker Mode         Speaker Mode         Relay Terminal Function         Output Trans         Plasbled         Bisabled         Relay Terminal Function         Output Trans         Relay Normally Open with Supervision (e.g. Algo 1203 Call Switch)         Relay Normally Coded         Phate Switch         Other Switch with Supervision         Algo 1202 Call Button         Output Education         Algo 1204 Volume Control Switch         Algo 1204 Volume Control Switch with Supervision         Audio Streaming         Microphone Always On         Other Science         View millicast for monitoring applications. When microphone audio via multicast for monitoring applications. When incorphone audio to a local speaker and multicast only, is in requires Multicast for monitoring applications. When incorphone science audio to a local speaker and multicast only, is in requires Multicast for nonitoring applications. When Microphone audio to a local speaker and multicast only, is in requires Multicast for the audio to a	out/Output	
Auto       Internal       External       Disabled         Speaker Mode       @Note that Auto mode is not available when the Relay Terminal Function is set to Input.         Relay Terminal Function       @Output       Entry Iterminal Function is set to Input.         Relay Input Mode       @Disabled       @Disabled         Plasabled       @Relay Normally Open with Supervision (e.g. Algo 1203 Call Switch)       Relay Normally Closed         Relay Normally Closed       @Relay Normally Closed       @Relay Normally Closed         Mute Switch       @Algo 1202 Call Button       @Algo 1202 Call Button         Algo 1202 Call Button       @Algo 1202 Call Button       @Algo 1202 Call Button         Audio Streaming       @Enabled       @Disabled         Microphone Always On       @Enabled       @Disabled         Wern incorphone station is active, the device will act as multicast for monitoring applications, When microphone stadio via multicast for stare microphone audio the duticast mater reparations of the setting in Basic Settings > Multicast for foreteming is active, the dwice will act as multicast forete	Ferminal Block Functions	
Speaker House       Autor of Internal © Usabled         @Note that Auto mode is not available when the Relay Terminal Function is set to Input.         Relay Terminal Function       © Output @Tinput         Input       @Relay Normally Open         Relay Input Mode       @Relay Normally Open with Supervision (e.g. Algo 1203 Call Switch)         @Relay Normally Closed       @Relay Normally Closed         @Algo 1204 Volume Control Switch       @Algo 1204 Volume Control Switch         @Algo 1204 Volume Control Switch with Supervision       @Algo 1204 Volume Control Switch with Supervision         Audio Streaming       @Enabled @Disabled       @Internative data as multicast for monitoring applications. When microphone atraining a sutive, the device will as a sufficient set of the settings of the se	Chapter Meda	Auto Tatanal Catanal Objected
Relay Terminal Function       Output Imput         Input       Plasblad         Relay Input Mode       Plasblad         Relay Normally Open       Relay Normally Closed         Relay Normally Closed       Relay Normally Closed         Algo 1202 Claip Button       Algo 1202 Claip Sutton         Algo 1204 Volume Control Switch       Algo 1204 Volume Control Switch         Algo 1204 Volume Control Switch       Algo 1204 Volume Control Switch         Algo 1204 Volume Control Switch       Algo 1204 Volume Control Switch         Audio Streaming       The Feature will stream the microphone audio via multicast for monitoring applications. When microphone Always On         Import Fridgered       Action         Action When Input Triggered       Action         Action Complex Triggered       Make SIP Volce Call Make SIP Call with Tone Stream Mic Audio" will stream microphone audio file to a local speaker and multicast if configured. "Stream Mic Audio" will stream microphone audio file to a local speaker and multicast if "donfigured." "Stream Mic Audio" will stream microphone audio file to a local speaker and multicast if Configured. "Stream Mic Audio" will stream microphone audio file to a local speaker and	Speaker Houe	Auto OInternal OExternal Obsabled     Internal Auto mode is not available when the Relay Terminal Function is set to Input.
Input         Relay Input Mode	Relay Terminal Function	Output
Relay Input Mode       Disabled         Relay Normally Open with Supervision (e.g. Algo 1203 Call Switch)         Relay Normally Closed         Relay Normally Closed         Relay Normally Closed         Relay Normally Closed         Mute Switch with Supervision         Algo 1202 Call Button         Algo 1202 Call Button         Algo 1204 Volume Control Switch         Microphone Always On         Enabled ® Disabled         @ Enabled ® Disabled         @ Enabled ® Disabled         @ This feature will stream the microphone audio via multicast for monitoring applications.         When incorphone streaming is active, the device will act as multicast stater regardless of the setting in Basic Settings > Multicast. Note that streaming is only available while the device is idle (it will be interrupted if a Page call is active).         Action       @ Play Tone® Make SIP Voice Call @ Make SIP Call with Tone @ Stream Mic Audio         @ Play Tone® will play a recorded audio file to a local speaker and multicast if configured. "Stream Mic Audio" will stream microphone audio to multicast ority, so it requires Multicast."         Tone/Pre-recorded Announcement       chime.wav         Tone Duration       @ Play Once @ Play While Held         Output Light       @ Disabled         @ Duable the light on the speaker entirely (keep the light off even when the speaker is active).         Output	Input	
Algo 1202 Call Button         Algo 1204 Volume Control Switch         Algo 1204 Volume Control Switch with Supervision    Audio Streaming          Microphone Always On	Relay Input Mode	Disabled Relay Normally Open Relay Normally Open with Supervision (e.g. Algo 1203 Call Switch) Relay Normally Closed Relay Normally Closed with Supervision Mute Switch Mute Switch
Audio Streaming         Microphone Always On		Algo 1204 Volume Control Switch Algo 1204 Volume Control Switch Algo 1204 Volume Control Switch with Supervision
Microphone Always On  Enabled ®Disabled  This feature will stream the microphone audio via multicast for monitoring applications. When microphone Streaming is active, the device will act as multicast Master regardless of the setting in Basic Settings > <u>Multicast</u> . Note that streaming is only available while the device is idle (it will be interrupted if a Page call is active).  Action  Action  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Ton Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Ton Stream Mic Audio  Play Ton Make SIP Voice Call Make SIP Call with Ton Stream Mic Audio  Play Ton Play Ton Play Ton Play Ton Play Ton Play Ton Play Play Ton Play Play Play Play Play Play Play Play	Audio Streaming	
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Action       Image: Play Tong Make SIP Voice Call Make SIP Call with Tone Stream Mic Audio Image: Play Tone" will play a recorded audio file to a local speaker and multicast if configured. Image: Play Tone" will play a recorded audio file to a local speaker and multicast if configured. Image: Play Tone" will play a recorded audio file to a local speaker and multicast only, so it requires Multicast Image: Play Tone Play Tone Image: Play Tone Tone Pre-recorded Announcement         Tone/Pre-recorded Announcement       Image: Chime.wav         Tone Duration       Image: Play Once Play While Held         Output       Image: Play Once Play While Held         Output Light       Image: Play Enabled Image: Play Play Play Play Play Play Play Play	Action When Input Triggered	
Tone/Pre-recorded Announcement       chime.wav         Tone Duration <ul> <li>Play Once</li> <li>Play While Held</li> </ul> Output <ul> <li>Output Light</li> <li>Enabled</li> <li>Disable the light on the speaker entirely (keep the light off even when the speaker is active).</li> </ul> Output Light Colour <ul> <li>Blue</li> <li>Red</li> <li>Heartbeat Light</li> <li>Flash the light every 30 seconds to indicate that the device is powered and running.</li> </ul>	Action	● Play Tone ● Make SIP Voice Call ● Make SIP Call with Tone ● Stream Mic Audio ④ Play Tone" will play a recorded audio file to a local speaker and multicast if configured. "Stream Mic Audio" will stream microphone audio to multicast only, so it requires Multicast "Master" mode to be enabled in "Basic Settings > <u>Multicast</u> ".
Tone Duration   Play Once Play While Held  Output  Output Light  Output Light  Output Light  Output Light Colour  Blue Red  Heartbeat Light  Flash the light every 30 seconds to indicate that the device is powered and running.	Tone/Pre-recorded Announcement	chime.wav 🔻
Output         Output Light         Image: Disable distribution of the speaker entirely (keep the light off even when the speaker is active).         Output Light Colour         Image: Disable distribution of the speaker entirely (keep the light off even when the speaker is active).         Output Light Colour         Image: Disable distribution of the speaker entirely (keep the light off even when the speaker is active).         Output Light Colour         Image: Disable distribution of the speaker entirely (keep the light off even when the speaker is active).         Output Light Colour         Image: Disable distribution of the speaker entirely (keep the light off even when the speaker is active).         Output Light Colour         Image: Disable distribution of the speaker entirely (keep the light off even when the speaker is active).         Image: Disable distribution of the speaker entirely (keep the light off even when the speaker is active).         Image: Disable distribution of the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entirely (keep the light even y and the speaker entis active).         Image: Di	Tone Duration	●Play Once   ○Play While Held
Output Light	Output	
Output Light Colour <ul> <li>Blue</li> <li>Red</li> </ul> <li>Heartbeat Light             <ul> <li>Enabled</li> <li>Disabled</li> <li>Flash the light every 30 seconds to indicate that the device is powered and running.</li> </ul> </li>	Output Light	Enabled Disabled Disable the light on the speaker entirely (keep the light off even when the speaker is active).
Heartbeat Light ©Enabled ©Disabled () Flash the light every 30 seconds to indicate that the device is powered and running.	Output Light Colour	●Blue ○Red
	Heartbeat Light	<ul> <li>Enabled          Disabled         (i) Flash the light every 30 seconds to indicate that the device is powered and running.     </li> </ul>

- Set the "Relay Terminal Function" to "Input".
- Set the "Relay Input Mode" to "Relay Normally Open".
- Ensure that "Action" is set to "Play Tone". Other configuration options can be set as desired.



#### 8186/8188 Web Configuration

Status Basic Settings Additional Features	Advanced Settings   System   Logout
	Kuensions More King Extensions
General	
Relay Input Mode	Chicalised Relay Normally Open Relay Normally Closed Relay Normally Closed Relay Normally Closed with Supervision Speaker Volume/Mute Algo 1202 Call Button
Audio Streaming	
Microphone Always On	©Enabled @Disabled
Action	Make SIP Voice Call      Make SIP Cole Call      Make SIP Call with Tone      Stream Mic Audio     MPlay Tone' will play a recorded audio file to a local speaker and multicast if configured. "Stream     Mic Audio' will stream microphone audio to multicast only, so it requires Multicast "Master" mode to     be enabled in "Basic Settings > <u>Multicast</u> ".
Tone/Pre-recorded Announcement	chime.wav 💌
Tone Duration	●Play Once
Dutput	
Output Light	Senabled Disabled Disabled bits of the speaker entirely (keep the light off even when the speaker is active)
Heartbeat Light	$\bigcirc$ Enabled $\textcircled{O}$ Disabled $\textcircled{I}$ Flash the blue light every 30 seconds to indicate that the speaker is powered and running.
Output Relay	<ul> <li>Enabled Disabled</li> <li>Disable the relay output on the speaker</li> </ul>

- Set the "Relay Input Mode" to "Relay Normally Open".
- Ensure that "Action" is set to "Play Tone". Other configuration options can be set as desired.

## ALGO

## **Wiring Connections**

*The 8180/8186/8188 web interface should be configured before any wiring connections are made to avoid damaging the 2506. The 8128 does not require any web configuration to operate with the 2506.* 

The 2506 can be connected to an Algo alerting device via the following setup:

 Use a screwdriver to connect a wire pair into the "+" and "-" terminals via the screw input connector on the 2506. It is recommended to keep wiring distances to maximum of 20 feet (indoor only) due to low audio levels.



2. As per the table below, connect the wires from the 2506 to the relay input (speaker output on 8180) on the device of choice:

*Note: The pin polarity/placement varies between devices. Ensure correct polarity is used with each device.* 





	8180 SIP Audio Alerter
	• 2506 "+" to Pin 1
LR95233 Speaker Output To External Speaker(s)	• 2506 "-" to Pin 2
Audio Output To Stave Amplifier	
	*The speaker output on the
CE ST-00047D Day Contact relay	8180 is used as relay input.
0	
00000	
	8180 SIP Audio Alerter (G2)
	• 2506 "+" to Pin 6
LR95233 Constant Output To External Speaker(s) To 2 Strings	• 2506 "-" to Pin 5
C C sr-appert Dry Contact Relay May be Configured as	
Bput or Durput	
	8186 SIP Horn Speaker
•	
000000	<ul> <li>2506 "+" to Pin 4</li> <li>2506 "-" to Pin 3</li> </ul>
	• 2300 - to Fin 3
SPEAKE FC Rives	
	8188 SIP Ceiling Speaker
	• 2506 "+" to Pin 1
	• 2506 "-" to Pin 2
RELAY / SW RELAY INPUT OUTPUT	

Algo Communication Products Ltd 4500 Beedie St Burnaby BC Canada V5J 5L2 www.algosolutions.com

(604) 454-3792 support@algosolutions.com



- 3. Connect the device to the network via an Ethernet cable at the back of the device. Ensure that a PoE port is used for power.
- 4. Plug the coiled handset cord into the RJ jack of the 2506.
- Plug the other end of the handset cord into the HEADSET jack of the Polycom VVX phone.
- 6. Ensure that the ring signal on the Polycom VVX phone is sent to the headset jack. On the phone interface go to:





#### Settings > Basic > Preferences > Audible Ringer > select Headset

 Set the VVX Polycom phone ringing volume to maximum by pressing volume up (+) key on the phone, while idle or ringing. The ring level should appear on the phone's display screen.

*Note: Ensure that the headset is set up before the ring volume is configured.* 

 When an incoming call is received by the Polycom VVX phone, a visual/audio alert will be triggered.





## **Triggering Multiple Devices**

Multicast can be used to trigger alerts from one 8128, 8180, 8186, or 8188 device to any number of additional Algo alerting products with multicast capability (8128, 8180, 8186, 8188, etc). Neither SIP registration nor SIP licencing will be required. This can be used to provide both audible and visual alerting, or for coverage of large areas.

When using multicast, ensure that all the alerting devices are connected to the same subnet and VLAN. The alerting device that is connected directly to the 2506 should be set as a multicast master and all the additional devices as multicast slaves.

For further multicast configuration details, refer to product specific documentation (8128 SIP Strobe Light User Guide, 8180 SIP Audio Alerter User Guide, 8186 SIP Horn Speaker User Guide, and 8188 SIP Ceiling Speaker User Guide).

Non-SIP devices, like the Algo 1128 LED Strobe Light can also be activated using the relay output on the back of the 8180/8186/8188 to the relay input on the back of the non-SIP devices. Thus, once activated, the 8180/8186/8188 will trigger additional visual alerts on the 1128.



## Testing

Call the Polycom VVX phone to activate the 8128/8180/8186/8188. Ensure only one alerting device is connected directly to the 2506 at a time.

### Troubleshooting

#### **Wiring Connections**

To verify that the 8128/8180/8186/8188 is powered and configured correctly, short the wire pair on the input of the alerting device and see if an audio/visual alert is triggered. If not, verify the PoE connection and web configuration options (8180/8186/8188 only).

If the 8128/8180/8186/8188 functions correctly, next verify the polarity of the wiring between the alerting device and the 2506.

If a continuous alert is triggered or the alerting device is activated when the phone isn't, the pin polarity may be reversed.

#### **Headset Jack**

Ensure that the ring signal is sent to the headset jack on the Polycom VVX phone. On the phone interface go to:

Settings > Basic > Preferences > Audible Ringer > select Headset

#### **Phone Volume**

Ensure that the phone ringer volume is set to a max. The volume should be configured after the headset is set up.