

IP Audio | User Manual



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Overview

The Speco SPIP series are IP based paging speakers designed for indoor and outdoor applications. Our Speco IP speakers are compatible with both the SIP & the ONVIF protocol. This will allow for the use of VoIP in applications. Each IP speaker has up to 10 RTP multicast addresses. Alarm in and HTTP URL can combine with our alarm systems. Pre-recorded messages and scheduled broadcasting are also another way that the Speco IP speakers meet the paging demands.





Web Configuration

- 1) Download Speco Audio Manager from Specotech.com.
- 2) This can be found under the support tab at Specotech.com.



- 3) Extract the zip-file and run the exe for Speco Audio Manager on your computer.
- 4) Put the Speco Audio Manager shortcut on to your desktop/laptop.
- 5) Lastly run Speco Audio Manager and click on scan device. This will find every Speco IP speaker on the network.

🗴 Sp	eco Audi	o Man	lager			
Q	Scan De	evice	🔹 RTP Multicast 🔇	Options		
	No.		Device Name	MAC	IP Address	Netmask
	1	谢	Speco_IP Speaker	5c:f2:07:60:20:b0	192.168.56.162	255.255.255.0
	2	€	Speco_IP Speaker	5c:f2:07:60:21:10	192.168.56.141	255.255.255.0



Logging into the IP Speaker

- 1) Through the Speco Audio Manager if you double click on one of the speakers IP addresses it will direct you to the web interface of that IP speaker.
- 2) Every Speco IP speaker will have the same default username & password.
- 3) Click on "Sign in" to log into the IP speaker.

Username: admin | Password: 1234

Speco technologies			
Username			
Password			
	Sign in	Cancel	

Navigating the Web Interface

Once logged into the IP speaker there will be eleven menus to choose from. The following menus are:

- 1) Status
- 2) Basic
- 3) ONVIF
- 4) SIP Account
- 5) Audio
- 6) Media File
- 7) Alarm
- 8) Schedule
- 9) **RTP Multicast**
- 10) Firewall
- 11) System



Status Menu

On this menu the information consists of the date/time, the devices ID, the firmware version, how much space is free on the device, the SIP account status, and the network information will also be listed at the bottom of the page. It's important to know that you can only view the information here.

Speco Technologies			
Status	Status		
Basis	Device Time	06-14-2023 23:35:12	
Dist	Device ID	5034D46828A4791C	
ONVIF	Firmware Ver	SPIP-V3.3.15	
SID Account	Free Space	3836KB	
SIFACOUR	SIP1 Status	NONE	
Audio	SIP2 Status	NONE	
Media File			
Alarm	Network		
Cabadida	MAC Address	5C:F2:07:60:20:B1	
Schedule	IP Address	192.168.56.151	
RTP Multicast	Subnet Mask	255.255.255.0	
Firewall	Gateway	192.168.56.1	
Firewall	Primary DNS	8.8.8.8	
System	Secondary DNS	64.72.64.10	
			Refresh

Basic Menu

The Basic Menu will list the date/time, and the network settings. On this menu you will be able to make any necessary changes to the settings. Every IP speaker will be set to DHCP by default. If you wanted to change the IP speaker to static, you can do this by clicking on the static IP address button and clicking save at the bottom.

Speco technologies				
Status	Date/Time			
Basic	Device Time	06-15-2023 22:53:30		
ONVIF	Update Mode	NTP 🗸		
SIP Account	TimeZone	GMT+00:00 V		
Audio	NTP Server	pool.ntp.org		
Media File	NTP Interval	10	Minutes	
Alarm			Save	
Schedule	Network			
RTP Multicast	O DHCP			
Firewall	Static IP Address			
System	IP Address	192.168.56.151		
	Subnet Mask	255.255.255.0		
	Gateway	192.168.56.1		
	Primary DNS	8.8.8.8		
	Secondary DNS	64.72.64.10		
			Save	
	Network Advanced			
	Http/Https	Http&Https ¥	*Take effect after restarti	
	T tup/T tup's	r mpos mpo	I and onest diter restall?	



ONVIF Menu

The ONVIF menu consists of an enable/disable option for ONVIF. You can also set the ONVIF username and password.

*ONVIF will be enabled by default.

Speco Technologies		
Status	ONVIF	
Basic	ONVIF Enable	
ONVIF	User Name	admin
SIP Account	Password	1234
Audio		Save
Media File		
Alarm		
Schedule		
RTP Multicast		
Firewall		
System		

SIP Account Menu

The SIP account menu allows you to create up to two separate SIP accounts. SIP is a protocol that initiates a direct call to that specific VoIP device, and this will include IP speakers. This will give you the option to have two-way audio with IP speakers that have a built-in microphone.

Status	SIP Set					
Basic	Account	Account 1	NONE			
ONVIF	User Name	Admin				
SIP Account	Auth ID	Admin				
Audio	Password	••••				
Media File	Display Name	Account 1				
Alarm	Server Host	192.168.56.151		Expire Ti	me	Set the expire time of registered account information
Schedule DTD Mollicent	Server Port	1500		Ringing	Tone	5 system ringtones and 10 users upload media files
Firewall	Outbound Proxy	Disable 🗸		Auto An	swer	answer immediately and answer delay when a calling incomes
System	Expire Time	100	Seconds	Incomin	g Notify	Put an input URL, when a incoming call ringing, URL take effect
	Ringing Tone	bell1 V	\odot	Answer	Notify	Put an input URL, when a incoming call answered, URL take effect
	Auto Answer	Answer Immediatly				
	Incoming Notify					
	Answer Notity					
			Save			
	SIP Advanced					
	SIP Protocol	UDP Y				
			Save			



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Audio Menu

The Audio menu will have the option to select between four different audio codecs: **OPUS**, **G.722**, **G.711U**, **and G.711**. In this menu you can also set the volume control of the IP speaker. If the IP speaker has a microphone, you will see the option to enable the microphone and set the volume of the IP speaker.

atus Codec sic Codec Setting I OPUS MIC Enable III VIF I 6.722 Gain None III do III III III III III III do III IIII IIIII IIIII IIIII IIIII IIIII IIIII IIIII IIIII IIIII IIIIII IIIIII IIIIII IIIIII IIIIII IIIIIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Speco technologies						
sic Codec Setting Image: OPUS MIC Enable Image: OPUS WF G.722 Image: OPUS	tatus	Codec			MIC		
NMF Gain None P Account G 3711U Volume (0-100) 44 do G 3711A AEC Time (1-200) 20 mms arm Speaker AGC Anno Anno ACC Time (1-200) 20 mms hedule Volume (0-100) 37 AGC Anno Addr Image: Constraint of the second anno anno anno anno anno anno anno a	asic	Codec Setting	☑ OPUS		MIC Enable		
P Account Image: Section of the se	NVIF		☑ G.722		Gain	None 🗸	
dia AEC AEC adia File AEC Time (1-200) 20 ms arm Speaker AGC Mode Auto hedule Volume (0-100) 37 AGC Mode Auto P Multicast Amp Auto OFF YES AGC Targe(0-31) 30 ewalt Jitter Buffer (60-2000) 360 ms AGC Gain (0-90) 30 stem HPF Image: Constraint of the state of the s	IP Account		☑ G.711U		Volume (0-100)	44]
def File AEC Time (1-200) 20 ms arm Speaker AGC AGC hedule Volume (0-100) 37 AGC Mode Auto TP Multicast Amp Auto OFF YES AGC Target (0-31) 3 ewall Jitter Buffer (60 - 2000) 360 ms AGC Gain (0-90) 30 stem HPF Image: Speaker Image: Speaker Image: Speaker NR Image: Speaker NR Image: Speaker	udio		☑ G.711A		AEC	Z	_
And Speaker AGC ☑ hedule Volume (0-100) 37 AGC Mode Auto ✓ rP Muticast Amp Auto OFF YES YES AGC Target (0-31) 3 ewall Jitter Buffer (60 - 2000) 360 ms AGC Gain (0-90) 30 stem HPF Image: Constraint of the state of	ledia File	Orașelare		1	AEC Time (1-200)	20	ms
Add Volume (0-100) 37 Add C Mode Auto Map Auto OFF YES AGC Target (0-31) 3 rewall Jitter Buffer (60-2000) 360 ms AGC Gain (0-90) 30 stem HPF I Image: Stem Stem Stem Stem Stem Stem Stem Stem	Jarm	Speaker			AGC		
Amp Auto OFF YES AGC Target (0-31) 3 rewall Jitter Buffer (60 - 2000) 360 ms AGC Gain (0-90) 30 stem HPF Image: Comparison of the parison of the par	chedule	Volume (0-100)	37		AGC Mode	Auto 🗸	
AGC Gain (0-90) 30 stem HPF Image: Stem HPF Image: Stem Im	TP Multicast	Amp Auto OFF	YES 🗸		AGC Target (0-31)	3	
stem HPF C HF C H	irewall	Jitter Buffer (60 - 2000)	360	ms	AGC Gain (0-90)	30	
NR D NR Z NR Level 3 V	ystem	HPF			HPF		
NR Level 3 🗸		NR			NR		_
					NR Level	3 🗸	

Jitter buffer: Helps make the audio more stable.

Amp Auto OFF: Will be set to "Yes" by default. This will eliminate any noise when not broadcasting.

Media File Menu

The Media File menu consists of 5 preset bell options to choose from. You can also set up to 10 of your own audio files and play the files directly through the IP speaker. The Maximum media file size is listed as a total of 3836 kilobytes. ***Through Speco Audio Manager there is no file size limit**

Status	System F	File				
Basic	#	t Nar	ne			
ONVIF	1	bell	1			⊙ ⊲
SIP Account	2	bell	2			⊙ ⊄
Audio	3	i bell	3			⊙ ⊲
Media File	4	bell	4			⊙ ⊲
Alarm	5	bell	5			⊙ ⊲
Schedule						
RTP Multicast	User File	(3836K)	B free)			
	#	t Nar	me File			
Firewall	1	use	infile1	Browse	۲	
System	2	use	rfile2	Browse	۲	
	3	use	erfile3	Browse	۲	
	4	use	erfile4	Browse	۲	
	5	use	erfile5	Browse	۲	
	6	i use	erfile6	Browse	۲	
	7	' use	rfile7	Browse	۲	
	8	use	erfile8	Browse	۲	
	9	use	erfile9	Browse	۲	
	1	0 use	rfile10	Browse	۲	



Alarm Menu

The Alarm menu allows for the user to set up one alarm input/output to the IP speaker. By default, you will have to enable the alarm input. The alarm output will have to be selected through this menu first, then it will play either one of the preexisting media files or it will play a custom audio clip. Once the alarm is enabled, you will also have the option to enable "Play File Enable", which means you can take the example URL commands, and they will play the audio clip by just sending it through a web address.

speco	
Status	Alarm In
Basic	Alarm Enable
ONVIF	Play File bell1 ~ 🕥
SIP Account	Cycle Mode Once only ~
Audio	Save
Media File	
Alarm	Http URL
Schedule	Play File Enable
RTP Multicast	Example1: http://192.168.56.151/api/piay?action=start&file=bell1
Firewall	Example2: http://192.168.56.151/api/play?action=start&file=userfile1& mode=once&volume=10
System	Example3: http://192.168.56.151/api/play?action=start&file=userfile1& mode=multiple&count=10&volume=20
	Example4: http://192.168.56.151/api/play?action=start&file=userfile1& mode=duration&count=10&volume=30

Schedule Menu

This menu will allow the user to create a custom schedule. The schedule menu is designed to be used for schools, factories, and office projects. The schedule allows for the user to make a regular bell, announcement or alarm happen at a specific time/date. In each IP speaker there are 10 different schedules that can be created. To create a schedule, click on the edit option, and then a new schedule window will come up. Enable the schedule and customize the schedule you wish to create by: giving it a name, start time/end time, allowed days in the schedule, action time, action type, the file it will be playing, and lastly the cycle mode. After creating the schedule click save at the bottom.

ule							Schedule Add/Edit		
#	Name	Time	Action	File	Edit option	Delete option	Schedule Enable		
1						Ē	Schedule Name		
2						莭	Start Date	01/01/2022 📋	
3						莭	End Date	12/31/2099 📋	
4						莭	Allowed Days	🗹 Mon 🗹 Tue 🗹 Wed	🗹 Thu 🔽 Fri 🔽 Sat 💟 Su
5						莭	Action Time	08:00 AM	
6						莭	Action Type	Start	
7						莭	Play File	bell1	· •
8						莭	Cycle Mode	Once only	
9						莭			Save
10						Ô			



RTP Multicast Menu

The RTP multicast menu will be used to set up RTP addresses to zone out the IP speakers. RTP stands for **Real-Time Transport Protocol**. This allows the user to stream audio over the internet, thereby enabling VoIP (Voice over Internet Protocol). On this menu you will see a list from 1 through 10. This means you can create up to 10 RTP addresses, and depending on what slot you put the RTP address in will determine what priority it is set too. Number 1 being the highest priority on the list & number 10 being the lowest priority on the list. This will allow you to do priority paging. After creating an RTP list, click save at the bottom.

*RTP address Range: 224.0.0.0-239.255.255.0

*Port Range: 1500-6300

Priority	IP Address (e.g. 239.255.0.1:5004) Example liste
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	



Firewall Menu

This menu is used primarily to keep your network safe. You can edit the firewall settings by clicking on the edit option. From the edit option, you can add any specific rules that you wish to add to your IP speaker's firewall. To do this you have to first enable the firewall rules to do this. You can also add firewall defensive rules to the IP speaker. Again, this will have to be enabled first to use this feature. You can create up to 5 rules for both categories in your firewall settings.

ll Rul					
#	Name	Type I	IP/MAC	Action	
1					Â
2					Ô
3					Ô
4					Ô
5					ŵ
atic D	efense Rule	5			u
atic D	efense Rule	5 Frotocol	Bort Bongo	Poto	Ш
atic D #	efense Rules Name	S Protocol	Port Range	Rate	u
atic D # 1	efense Rule: Name	s Protocol	Port Range	Rate	ŭ
atic D # 1	efense Rule: Name	s Protocol	Port Range	Rate	ī
atic D # 1 2 3	efense Rule: Name	s Protocol	Port Range	Rate	1 1 1 1 1
atic C # 1 2 3 4	lefense Rule: Name	S Protocol	Port Range - - -	Rate	1 1 1 1 1 1 1

Firewall Rules

Firewall Defensive Rules

Firewall Add/Edit			Automatic Defense Add/Edit			
Enable			Enable			
Name			Name			
Rule Type	IP v					
Protocol	ALL ~		Protocol	TCP ~		
IP Address			Port Range	\$	-	\$
Net Mask			Rate (1-10000)	\$	/s	
Action	ACCEPT ~					Save Cancel
		Save	1			



System Menu

The System menu will allow you to Reboot, Reset, and upgrade the firmware of the IP speaker. On this page you will also be able to change the IP speaker's username and password from the default to a more unique username and password if needed.

e	
Reboot	Reboot Device Now
Reset	Reset to Factory Setting
Upgrade	Browse No file selected.
curity	
User N	ame
Passv	vord
New User N	ame
New Passv	vord
Confirm Passv	vord
L	Save



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