

POS-1L+



User Manual



Contents

1. General Description	3
2. Installation and use Description	3
2.1 Preparation	3
2.2 Use	3
2.3 Settings	4
3. External Description	9
3.1 Front Panel	9
3.2 Rear Panel	9
4. Technical Specifications	10
4.1 Physical specifications	10
4.2 Electrical specifications	10



1. General Description

The POS-1L+ is devices designed for broadcasting parameter and control FM transmitter system via Local Area Network or Internet

This device has LAN 10/100 Mbits/Sec. when connect it in your network. You can monitor parameter of FM transmitter system and control it in real time such change power transmission, off power, etc. on anywhere if your can connected on your network

2. Installation and use Description

This chapter contains the necessary information for installing and using the machine. In the event any aspects are not completely clear, for example when using the machine for the first time, we recommend you carefully read the entire description contained in this manual.

2.1 Preparation

Unpack the POS-1L+ and before doing any other operation, be sure it has not been damaged during transport. In particular check that all the connectors are in perfect condition.

The main fuse can be accessed from the outside on the rear panel. Extract the fuse carrier with a screwdriver to check its integrity or for replacement, if necessary. The fuse to be used is this type 30A @220VAC

Check that the POS-1L+ switches are in the "OFF" position. The POS-1L+ has one switch for the mains power supply cable and completely interrupts the machine's mains power supply.

Connect the AC Output to Exciter and Amplifier.

Connect the RS-232 cable From Exciter to DATA IN 1.

Connect the RS-232 cable From Amplifier to DATA IN 2.

Connect the LAN cable.

Connect the AC Input cable.

2.2 Use

Check that the POS-1L+ switches are in the "OFF" position.

Check that the Exciter switches are in the "ON" position.

Check that the Amplifier switches are in the "ON" position.



2.3 Settings

POS-1L+ can be configuration via Internet Explorer. Before setup POS-1L+ please connect POS-1L+ and Computer on same Network. Power on POS-1L+

Open Internet Explorer and enter http:// and follow with IP Address of POS-1L+ on address bar

- Enter Username and Password for access. Default Username: "admin" no password.
- After you can access on page will display as picture below

• [2] http://192.168.1.124/index.htm	💌 🕺 😽 🗙 🌆 Live Search	
e Edit View Favorites Tools Help		
avorites 🛛 🏀 R Radio Network		5
	Radio Network	
Monitor App	plications and Configurations	
Monitor App	plications and Configurations	
<u>Monitor App</u>	Dications and Configurations	
<u>Monitor App</u> [<u>Monitor Station</u>] [<u>FM Exciter Setup</u>]	Dlications and Configurations] - Monitor Station Parameter] - FM Exciter Setup Parameter	
Monitor App [<u>Monitor Station</u>] [<u>FM Exciter Setup</u>] [FM Amplifier Setup]	Dlications and Configurations] - Monitor Station Parameter] - FM Exciter Setup Parameter] - FM Amplifier Setup Parameter	
Monitor App [Monitor Station] [FM Exciter Setup] [FM Amplifier Setup] [AC Power Control]	Dications and Configurations - Monitor Station Parameter - FM Exciter Setup Parameter - FM Amplifier Setup Parameter - AC Power Control for Transmitter	
Monitor App [<u>Monitor Station</u>] [<u>FM Exciter Setup</u>] [<u>FM Amplifier Setup</u>] [<u>AC Power Control</u>] [Station Name Setup]	Dications and Configurations - Monitor Station Parameter - FM Exciter Setup Parameter - FM Amplifier Setup Parameter - AC Power Control for Transmitter - Station Name Setup	
Monitor App [<u>Monitor Station</u>] [FM Exciter Setup] [FM Amplifier Setup] [<u>AC Power Control</u>] [Station Name Setup] [IP Configuration]	Dications and Configurations - Monitor Station Parameter - FM Exciter Setup Parameter - FM Amplifier Setup Parameter - AC Power Control for Transmitter - Station Name Setup - IP Configuration for Device	
Monitor App [<u>Monitor Station</u>] [FM Exciter Setup] [FM Amplifier Setup] [AC Power Control] [Station Name Setup] [IP Configuration] [Password Setup]	Dications and Configurations - Monitor Station Parameter - FM Exciter Setup Parameter - FM Amplifier Setup Parameter - AC Power Control for Transmitter - Station Name Setup - IP Configuration for Device - Password for Access Device	

Figure 1 Main Page



• Click on [Login] link and enter username / password

🖉 System Settings - Windows Internet Explo	rer	
🔆 🔄 🔻 🙋 http://192.168.1.124/Login.cgi	💌 😒 🐓 🔀 Live Search	P -
Eile Edit View Favorites Iools Help		
🔆 Favorites 🏾 🏀 System Settings		👌 • 🗟 • 🏾 *
Home	Radio Network	firmware ver. 1.03
	User Login	
Items	Setting	
Username		
Password		
	Logout	
Done	Internet	🗛 🔹 🔍 100% 🔹 🎵

Figure 2 Login

• After enter, click on Login button if username / password are correct. Login button will go to disabled stage and Logout button will go to enabled as picture below.

🖉 System Settings - Windows Internet Explorer		
🕞 🕞 🗢 🙋 http://192.168.1.100/Login.cgi	💌 🖄 😽 🗙 ಶ Live Search	P -
Eile Edit View Favorites Tools Help		
🔆 Favorites 🛛 🏾 🏀 System Settings		👌 • 📾 • 👋
Home	Radio Network	Firmware ver. 1.03
	User Login	
Items	Setting	
Username		
Password		
	Login	
Done	Internet	<u>▼</u> ≪à • ♥ 100% • //
Home Items Username Password Done	Radio Network User Login	Emilips (m. 1.0) Fmilips (m. 1.0) √A • [*] 100% •

Figure 3 Login

• Click on main link for go to main page



• Click on [IP Configuration] link page will show as picture below

Network Settings - Windows Internet Explorer		
😋 😔 🔻 慮 http://192.168.1.100/network.cgi	💌 🖄 🐓 🗙 ಶ Live Search	<u> م</u>
<u>Eile E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp		
🖕 Favorites 🛛 🌈 Network Settings		<u>`</u> ` ∎ · <u>`</u>
Home	Radio Network	firmware ver, 1.03
	IP Configuration Setup	
Items	Setting	
LAN IP Address	192.168.1.100	
Sub Net Mask	255.255.255.0	
Default Gateway	192.168.1.1	
Primary DNS Server	194.25.2.129	
Secondary DNS Server	194.25.2.130	
	Change	
one	Internet	

Figure 4 IP Configuration

- Enter IP address and network parameter, after complete click on Change button, devices will save parameter and reboot please wait about 30 seconds.
- Setup Station Name by click [Station Name Setup] on main page , page will show as picture below

Station Name Setup - Windows Interne	t Explorer	
🔊 💿 🔻 🙋 http://192.168.1.100/Snam	e.cgi 🔄 🔀 😽 🗙 🌆 Live Search	
Elle Edit View Favorites Iools Hel Favorites 🏈 Station Name Setup	p	🏠 • 🖾 •
Home	Radio Network	firmware ver. 1.03
	Station Name Setup	
Items	Setting	
Input Name		
	Save	

• Enter station name (Max. 50 Character) and click on Save button



• Click on main link for go to main page and click [AC Power Control]

POS POWER Control - Windows Internet Explorer		-D×
🕞 🕞 🔻 🔊 http://192.168.1.100/ACcontrol.cgi	💌 🗟 😽 🗙 輝 Live Search	P -
Eile Edit View Favorites Tools Help		
Geravorites Or POWER Control		🔄 • 📾 • 👘 👋
Home	Radio Network	firmware ver. 1.03.
	AC POWER CONTROL	
Items	Setting	
AC Power Control	□ on	
	Save & Apply	
Done	Internet	🐴 • 🔍 100% • 🎵

Figure 5 AC Power Control

- Click on Check box and click on Save & Apply for turn on AC power of Exciter and Amplifier
- Click on main link for go to main page and click [FM Exciter Setup]

FM - Station Setup - Windows Interne	t Explorer		_ _ ×
G S 🗢 🖉 http://192.168.1.100/STs	etup1.cgi	💌 🗟 🔸 🗙 輝 Live Search	- ٩
Eile Edit View Favorites Tools H	elp		
🙀 Favorites 🏾 🏉 FM - Station Setup			<u>`</u> `````
			-
Home	Radio	Network	
	•		firmware ver. 1.03
	FM Ex	kciter Setup	
Items	Setting	Description	
Power Control	I ON	ON/OFF Power Transmission	
Frequency Target	87.50	Frequency Range 87.50 to 108.00 MHz	
Power Target	1	Power Output Range 0 to 9999 W	
Reflect Target	1	Power Reflection Range 0 to 100 W	
Temperature Target	40	Temperature Protection Range 40 to 50 °C	
		Set	
		001	
			×
Done		Internet	🖌 🔹 💐 100% 👻 🖉

Figure 6 FM Exciter Setup

• Enter parameter for Exciter and click on Set button, POS-1L+ will send setup parameter to Exciter and user can see result on [Monitor Station] Page



e <u>E</u> dit ⊻iew F <u>a</u> vorites <u>T</u> ools <u>H</u>	jelp		
Favorites 🧉 FM - Station Setup			🛛 🟠 • 🖾 •
6.004			
lome	Radio	Network	firmware ver. 1.0
	FM Am	plifier Setup	
Items	Setting	Description	
Power Control	I ON	ON/OFF Power Transmission	
Power Target	1	Power Output Range 0 to 9999 W	
Reflect Target	1	Power Reflection Range 0 to 100 W	
Temperature Target	40	Temperature Protection Range 40 to 50 °C	
		Cot .	
		Set	

• Click on main link for go to main page and click [FM Amplifier Setup]

Figure 7 FM Amplifier Setup

- Enter parameter for Amplifier and click on Set button, POS-1L+ will send setup parameter to Amplifier and user can see result on [Monitor Station] Page
- For monitor parameter of exciter and amplifier on line click [Monitor Station] on main page

s	👌 • 🖸 •
Network Monitoring St	ystem nute 33 Sec.
FM Exciter	FM Amplifier
0 Day 0 Hour 0 Minute 0 Sec.	0 Day 0 Hour 0 Minute 0 Sec.
0	0
OFF	OFF
OFF	
0.0	
0	
0	
0	
OFF	
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

Figure 8 Monitor Status

*Parameter will automatic refresh every 10 seconds but if you want to manual refresh click on Refresh button



3. External Description

This chapter reports the elements of the front and rear panels of the POS-1L+ with a brief description of each of them.

3.1 Front Panel



[1] AIR FLOW	Grid for the intake of the air flow of the forced ventilation
[2] POWER	ON/OFF switch.
[3] ON	Green LED, light when the POS-1L+ is working.
[4] LAN	Green LED, light when the send or receive data via LAN.
[5] STATUS	Green LED, light when the receive data from Exciter or Amplifier.
[6] CONTROL	Green LED, light when Exciter and Amplifier power on.

3.2 Rear Panel



[1] MAIN INPUT [2] FUSE	Mains supply terminal, 180 - 240V 50-60 Hz. Fuse holder. Use a screwdriver to access the fuse Contains the general protection fuse rated 30 A.
[3] MAIN OUTPUT [4] LAN [5] DATA IN 1 [6] DATA IN 2 [7] DATA OUT 1	Output supply terminal for supply to Exciter and Amplifier. RJ-45 LAN connecter use for monitor and control. RS-232, DB-9, for connect with Exciter. RS-232, DB-9, for connect with Amplifier. RS-232, DB-9, for Maintenance.
[8] DATA OUT 2	RS-232, DB-9, reserve.



4. Technical Specifications

4.1 Physical specifications

Panel size Depth Weight Working Temperature

4.2 Electrical specifications

A.C. power supply A.C. output current LAN Connection 483 mm (19") x 44 mm (1 3/4") (1U) 240 mm (9 1/2") 1.5 Kg 0 °C - 50 °C

≅ 180 V - 240 V 50 - 60 Hz Max. 30 A 10/100 MBits/Sec.