iPump 525

IP Media Player
Quick Start Guide

WEGENER®

General Information

The **WEGENER iPump 525** is an IP media player capable of decoding IP streams or playing stored content from its internal hard disk drive. It provides MPEG-4 AVC (ITU-T H.264) HD and SD decoding and delivers brilliant wide screen pictures with as little as 6 Mb/s of data. It accepts media files and play-lists delivered using Assured File Delivery via **Compel**. Additional information can be found on the **WEGENER** web site at: www.wegener.com.

Unpacking and Inspection

The box containing the unit should include:

- The **IPUMP 525** Unit
- This **Quick Start Guide**
- Component Video Cable
- Composite Video/Stereo Audio Cable

- A UL Safety Sheet
- An AC Power cord

- Power Supply Module

Carefully unpack the unit and the ac power cord and inspect for obvious signs of physical damage that might have occurred during shipment. Any damage claims must be reported to the carrier immediately. Be sure to check the package contents carefully for important documents and materials.

NOTE: Save the original packing materials and shipping containers in case the unit must be returned for repair. Packing the unit in another container in such a way that the unit is damaged will void the warranty.

Environmental Operating Conditions and Physical Specifications

Item/Limit	Specification
Use	Indoor
Altitude	Up to 2000 meters
Temperature Range	10° C to 40° C
Relative Humidity (max.)	80% for temperatures up to 31° C decreasing linearly to 50% relative humidity at 40° C
Weight	5 pounds or 2.25 kilograms
Dimensions (H x W x D)	2.1" x 10.6" x 9.0" or 53.3 mm x 269.2 mm x 228.6 mm
Input Power Rating for iPump 525	12VDC 2.3A

Installation

The **iPump 525** may be mounted in a standard 19-inch equipment rack or set up for desktop operation. In either location, maintain a clean, dry environment for the **iPump 525**.

Desktop Installation

1. Place the unit on a flat surface where it will not be subject to spills, impacts, or excessive heat.
2. Route cables to the unit so that they will not be hit or pulled, causing damage to the connectors or to the unit itself. Ensure a sufficient flow of cool air so that the unit's operating ambient temperature range is not exceeded.

> **WARNING: FCC-Mandated Suppression of Radio Frequency Emissions**
>
> This is a **Class A** product. In a domestic environment this product may cause radio interference for which the user may need to take mitigating action.
>
> If the Ethernet port has a cable connected to it, that cable must be properly shielded and grounded to minimize RF emissions that could interfere with nearby equipment.

Circuit Protection and Earthing

When connecting the iPump 525 to the power supply, review the ratings of all equipment in the circuit to ensure that the branch circuit, as well as the power source, will not be overloaded. Also make sure that the unit is properly grounded and/or that a protected power strip is used to attach it to the power supply.

## Front Panel Controls and Indicators

The iPump525 can be controlled via Compel network control, local terminal, and On-Screen-Display. Normally, Compel is the primary method of controlling the iPump525.

iPump 525 Front Panel Controls and Indicators

Item	Description
Power Button	Turn decoder on/off
Menu	Activate / Deactive OSD menu
Arrow buttons	Arrow buttons navigate through the menus.
Enter	Selects next menu level or item selected on OSD.
Power LED	Indicates on/off
Network LED	Off when not connected to Compel, On when connected to Compel, Flashing when processing a command from Compel.
Error LED	Off when no warnings or alarms exist, Slow blink when a warning exists, Fast blink when an alarm exist.
Record LED	On when recording.
Download LED	On when downloading content, Flashing when downloading application code.

Rear Panel Connections

iPump 525 rear panel view
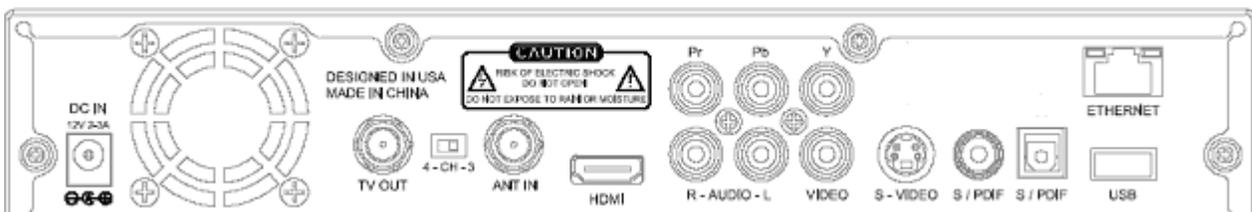
iPump 525 Rear Panel Connections

Signal	Connector	Description
DC IN	Male Power Jack	+12 VDC @ 2.3A
TV Out	Type F	NTSC Modulated Output to TV
4 – CH - 3	Slide Switch	Select Channel 3 or 4 Output to TV
ANT IN	F	Input from TV Antenna
HDMI	Type A receptacle	High Definition Multimedia Interface – Digital Video/Audio
Pr	RCA Phono	Analog Component Video Pr
Pb	RCA Phono	Analog Component Video Pb
Y	RCA Phono	Analog Component Video Y
R-Audio	RCA Phono	Analog Audio Output – Right
Audio - L	RCA Phono	Analog Audio Output – Left
Video	RCA Phono	Analog Composite Video - CVBS
S-Video	4 pin Din	Analog Y/C Separated Video
S/PDIF	RCA Phono	S/PDIF Coax Digital Audio
S/PDIF	Optical TosLink	S/PDIF Optical Digital Audio
Ethernet	RJ-45	Ethernet 10/100 BaseT
USB	USB	USB 2.0

OSD (On-Screen Display)

You may control or monitor the iPump525 using the OSD and front-panel buttons. With a video monitor attached to the iPump525 through any of the video output ports of the unit, press the menu button to activate the OSD. You may use the push buttons to navigate through the menus displayed to view the existing settings.

OSD Menus

The **OSD** information displays white text on a blue background overlying 80% of the video output from the iPump 525 server. View the **OSD** from a monitor connected to any of the video output ports of the iPump 525 server.

Navigating OSD Menus

Use the arrow and Enter buttons on the iPump 525's front panel to navigate and edit the fields on the **OSD** menus.

iPump 525 Types of OSD Action Fields

Button	Actions		
	Main Menu	**Submenu**	**Edit Mode**
Enter	selects submenu or dropdown list	goes to editable field	accepts changes
right arrow	no action	no action	moves cursor to right
left arrow	exits **OSD**	goes to previous menu level	moves cursor to left or abandon changes
up arrow	goes to next or previous menu item	goes to next or previous menu item	increases value of highlighted item
down arrow	goes to next or previous menu item	goes to next or previous menu item	decreases value of highlighted item

Main Menu

The main menu displays the unit serial number at the top.

Current Program

Displays the current IP address and port number of the IP stream being decoded.

Subtitling Setup

Navigates to the subtitling setup menu which allows enabling/disabling of subtitling and selection of the subtitling language. Subtitling may be enabled only if closed captioning is in the Passthru mode.

Advanced

Navigates to the advanced menu, which allows more detailed monitor and control functions, such as viewing software versions, decoder setup, and audio setup.

Exit OSD

Exits the OSD. This may also be done by the left arrow key. The OSD will time out and exit in 1 minute if no action is taken.

Decoder Setup

The Decoder Setup menu is accessed by selecting Advanced in the Main Menu, followed by Unit Setup. It allows the user to adjust the video output of the unit.

OSD Decoder Setup Menu
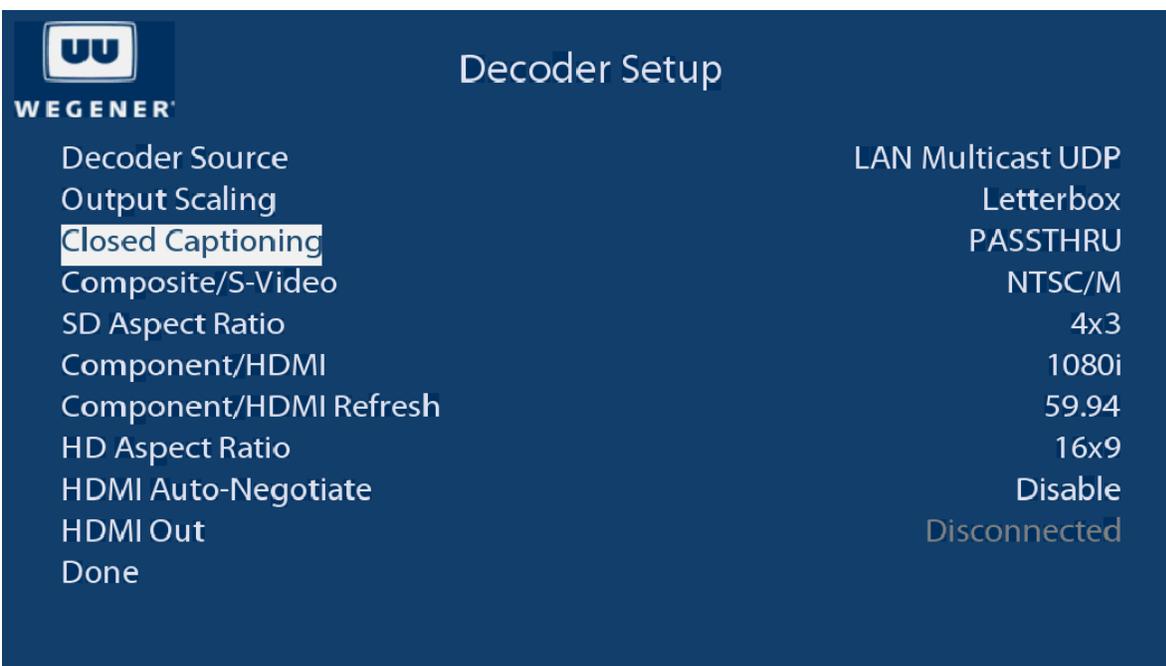
Decoder Source

Controls source of input for the A/V decoder. The source can be set to Multicast UDP from LAN/Ethernet port, Unicast UDP from LAN/Ethernet port, or Off.

Output Scaling

Controls the behavior aspect ratio if the content does not match the TV Aspect Ratio. In Letterbox mode, black bars are displayed either at the top/bottom or at the sides for better viewing quality. The Pan/Scan mode is also available. Improvement in viewing experience depends on the source contents.

Closed Captioning

PASSTHRU Mode allows the TV to decode/display closed captioning. Alternatively, the server can decode/render closed captioning if the mode is set to CC1-4. CC1-4 may be selected only if subtitling is disabled.

Composite/S-Video

Selects video output format for the composite video outputs and S-video output (if available).

SD Aspect Ratio

Selects the aspect ratio for the composite video outputs and S-video output (if available).

Component/HDMI

Selects video output resolution of the component and HDMI outputs when HDMI Auto-Negotiate is disabled or HDMI output is not connected.

Component/HDMI Refresh

Selects the video vertical refresh rate of the component and HDMI outputs when HDMI Auto-Negotiate is disabled or HDMI output is not connected.

HD Aspect Ratio

Selects the aspect ratio of the component and HDMI outputs.

HDMI Auto-Negotiate

When enabled, the output resolution and refresh rate of the component and HDMI outputs are set per the DDC data received from the TV.

HDMI Out

Displays current mode/resolution of the component and HDMI outputs.

Web Interface

The web interface allows users to view the status and logs of the unit, as well as upload assets from the unit. It is designed to perform best with Mozilla FireFox web browser.

Status view

The status view displays the current status of the unit, including the serial number, software versions installed, decoder status, Compel statistics and file download status.

Status	File Manager	Logs

S/N: 360796 | Reciever's Local Time: 01/08/2000 13:59:18 EST | ● All Good ▷

General Status

Unit Information	
Unit Label	i562-003
Serial Number	360796
Software Version	v320a5
Backup Version	316
Model Number	562-1-1-2-01-1-1-1-2
Up Time	7 days 18:59:13
Free Disk Space	68.613 GB

Signal Quality	
Receiver Mode	Tracking Signal OK
First Acquired	1 days 01:30:26
Last Acquired	1 days 01:30:09
Eb/No	8.5 dB
RF Level (0-100)	33
Errored Seconds	23
Fades	2

Decoder Status	
Decoder 1 Setting	Follow Tune (Prog: 7) - Lang: ***
Decoder 1 File State	Play Live

File Download Status	
Number of Current Downloads	0
Avg. IP Bandwidth (Last 5 Seconds)	0.000 Kbps

COMPEL Statistics	
COMPEL PID	0x1026 (4134)
Time Since Last Header	186:58:21
Time Since Last Addressed	00:59:59
Total Addressed Packets	0
Total Processed Packets	0

Clear Diagnostics

Copyright © 2009 by Wegener Communications, All rights reserved. Software Version: v320a5, Unified Software Version: USW.1.70a4,

The green LED icon will indicate the state of the unit and clicking this will show any warnings or alarms, if present.

Status	File Manager	Logs

S/N: 360796 | Reciever's Local Time: 01/08/2000 14:19:40 EST | ● All Good ▽

● No indications

Last Updated: Friday, January 07, 2000 12:31:07 PM

(Click to close)

Unit Information		ality
Unit Label		lode
Serial Number		ired
Software Version	v320a5	Last Acquired

File Manager view

The file manager view allows the user to view the assets currently on the unit. Assets are user provided video, audio, image, or text files downloaded via Compel.

Click the assets folder to view the list of assets. The assets may be viewed or downloaded by clicking on the file name.

Logs view

The logs view allows the user to view the "as run" log or the "operational" log.

The "as run" log lists all assets that have been played by the unit.

The "operational" log lists any changes in tuning.

Diagnostics interface

By holding down the control key on the keyboard and clicking the Wegener logo in the top left corner, a diagnostics interface may be accessed.

Diagnostic Interface
Back to main

Terminal Command
ver

System Mgmt
App Upload
Hotscript Upload
Download Settings

Reports
Help
Applcation Info
Carrier
Decoder(s)
General Parameters
Groups
HTTP Downloads
Network Services
Preset Table
Profiles
PSI
Return Path
Settings
Triggers

Miscellaneous
Clear Log [AsRun Op]
Clear HDD Failure (causes reboot)
Compel Required [Yes No]
Compel PID
Compel Header
Compel Over Ip
PID Counts (clear)
H/W Info
OS Status
Process Tree
Check LAN on Dialout [Yes No]
Legacy Diag (clear)

Asset DB Info
Coming Soon

Debug Status
(Select an Item)

Logs
(Select an Item)

```
Terminal Command - ver

Version Information
----------------------------------------
Serial Number:        360796
S/W Version:          v320a5
Backup S/W Version:   316
Unified S/W Version:  USW.1.70a4


(Help)
```

From this interface, in addition to many other actions, the user can play a file or playlist of files from the hard disk drive.

Play file

To play a file, in the terminal command box, type "playfile 1 filename". The filename must include the path, which should always begin with "/assets" and the file extension, which should always be ".ts". Files are MPEG2 transport stream files. For example, "playfile 1 /assets/myasset/myfile.ts" will play myfile.ts, located in the myasset folder under the assets folder. Files are considered a temporary insert, that is they play one time and then the iPump525 will return to the previous source.

Play list

A playlist is an .xml file that contains a list of files to play. Playlists are transferred to the iPump525 via Compel. To play a playlist, in the terminal command box, type "playlist play 1 listname 1". The listname will be the name only. The path for playlists is fixed and no extension is included. The last "1" in the command means loop the playlist repeatedly, if the "1" is omitted or a "0" is typed, the playlist will play only once. For example: "playlist play 1 mylist 1" will play mylist repeatedly. "playlist play 1 mylist" will play mylist once. To stop a playlist that is playing repeatedly, change the decoder source: "decoff 1" will turn off the decoder and there will be no video/audio output. "decodelanip 1 224.1.1.101 8208" will change to the LAN/Ethernet multicast on IP address 224.1.1.101, port 8208.

Compel Method

CAUTION: Changing the method of Compel control should be done with care as it could result in a loss of control if not set correctly. It is recommended to issue the specific method setup commands mentioned below before issuing the "compel method" command.

The unit may be controlled via the Compel control system using one of two connection methods, mcast or http. The method is set by issuing one of the following commands:

"compel method http" - This is the default control method. Compel will hold all commands in a database until retrieved by the unit over IP. With this method, a server IP address must be set in the unit that matches the Compel IP address. This is done with the command: cmplint srvraddr [address] , where [address] is the Compel IP address. Assets will also be retrieved via this server address.

"compel method mcast" - Compel will control the unit by sending commands in a multicast IP transmission. The multicast IP address and port must be set by issuing the following command: "compel mcsetup [address] [port]", where [address] is the multicast IP address and [port] is the multicast port number. When using this method, Compel will also deliver assets over a multicast IP transmission and the multicast address and port for asset delivery must also be set by issuing the following command: "afd mcsetup [address] [port]" , where [address] is the multicast IP address and [port] is the multicast port number.

Warranty

The following warranty applies to all **WEGENER** products:

> All **WEGENER** products are warranted against defective materials and workmanship for a period of one year after shipment to customer. **Wegener Communications** ' obligation under this warranty is limited to rep airing or , at W egener Communications' option, replacing p arts, subassemblies, or entire assemblies. **Wegener Communications** shall not be liable for any special, indirect, or consequential damages. This warranty does not cover p arts or equipment, which have been subject to misuse, negligence, or accident by the customer during use. All shipping cost s for warranty rep airs shall be prepaid by the customer. There are no other warranties, express or implied, except as st ated herein.

Technical Support

In the event that the unit fails to perform as described, contact **Wegener Communications** Customer Service at:
- Phone: (770) 814-4057
- Fax: (770) 232-0621
- E-mail: service@wegener.com

Corporate Office:	Service Department:
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