



# AV6000NS

## CCTV Full HD Video Codec

Smart Web Manager Overview  
(including subtitle generator..)



**AddPac**

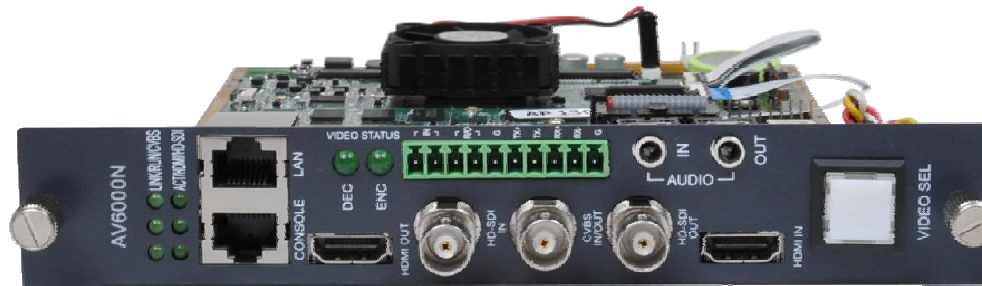
**AddPac Technology**

Sales and Marketing

[www.addpac.com](http://www.addpac.com)

# Contents

- Product Overview
- Hardware Specification
- Smart Web Manager Overview



# Product Overview

## AV6000NS Full HD Video Codec Module

- Full HD (1080i) Video Encoding/Decoding Service Features
- Video Codec : H.264 HP/MP/BP AVC Video Codec
- Video Input Interface : HDMI, HD-SDI, Analog (NTSC, PAL)
- Video Output Interface : HDMI, HD-SDI, Analog (NTSC, PAL)
- Dual Bit Streaming Support
- Full HD Subtitle Generator Service Support
- RTSP/RTP, TCP/UDP Protocol Support
- IP based Network Surveillance Solution
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Web based Management Service
- AP-NC2000D, AP-NC2000, AP-NC3000, AP-NC5000 Platform Available

# Hardware Specification

## AV6000NS Full HD Video Codec Module

RISC  
CPU

High-End  
VP

- **RISC + Video Processor Computing Power**
- **AV6000NS Video Module**
  - **Network Interface**
    - One(1) 10/100/1000Mbps Gigabit Ethernet
  - **Video Interface**
    - One(1) Channel HD-SDI Input
    - One(1) Channel HDMI Input
    - One(1) Channel CVBS Input or Output (selected by DIP Switch)
    - One(1) Channel HD-SDI Output
    - One(1) Channel HDMI Output
  - **One(1) RS-232 Console Interface (RJ45)**
  - **Camera Control Interface**
    - One(1) RS-232C, RS422, RS485 Interface for External Camera Control
  - **I/O Interface**
    - Two(2) Alarm Input /One(1) Relay Out

# Hardware Specification

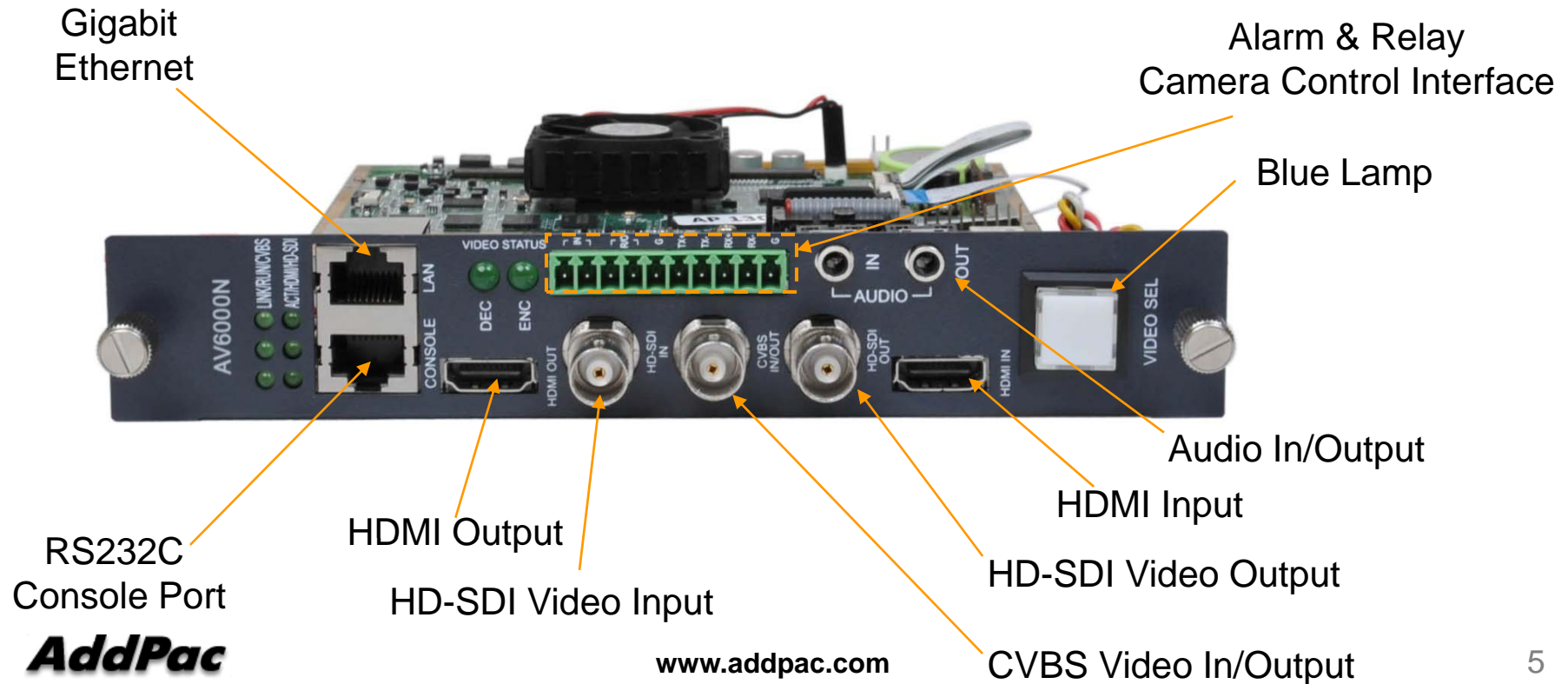
AV6000N Full HD Video Codec Module

RISC  
CPU

High-End  
VP

## Hardware Module Specification

AV6000N HD Video Encoder/Decoder Module(H.264)



# Hardware Specification

## AV6000NS Full HD Video Codec Module

### Hardware Specification

AP-NC2000D Front View



AV6000NS HD Video Module



Power On/Off Switch  
[www.addpac.com](http://www.addpac.com)

DC Power Supply



# Smart Web Manager Overview

# Contents

- System
  - Language
  - Network Setup
  - System Time
  - NTP
  - File Browser
- RTSP Basic
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  - RTSP
  - RTP
- Advanced
  - Video Port
  - Audio Port
  - Service
- Miscellaneous
  - PTZ
  - Subtitle
  - PING





# System

# System : Language

Smart Web Manager  
www.addpac.com

**System**

- Language
- Network Setup
- System Time
- NTP
- File Browser

**RTSP Basic** +

**Advanced** +

**Miscellaneous** +

### Configure Language

한국어

English

Apply

Information

AddPac Technology  
Model : AV6000NS\_G2  
H/W Version : 1.0  
S/W Version : 8.50.028  
Smart Web Version : 8.41.0.3  
Smart Web Build : Apr 20 2018  
Network : Static [172.17.205.22](#)  
Mac Address: 0002.a40a.0ffc

Description

Choose the basic language to be applied. English is set at default.

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# System : Network Setup

The screenshot displays the 'Smart Web Manager' interface for 'Network Setup'. The left sidebar contains navigation options: System (Language, Network Setup, System Time, NTP, File Browser), RTSP Basic, Advanced, and Miscellaneous. The main content area is titled 'Network Setup' and includes the following fields:

- Hostname: HD-Codec
- IP Address: 172.17.205.22 (A.B.C.D)
- Network Mask: 255.255.0.0 (A.B.C.D)
- Default Router: 172.17.205.22 (A.B.C.D)
- Static IP (selected) and DHCP (unselected) radio buttons.
- DNS Server, Primary DNS Server, and Secondary DNS Server input fields.
- An 'Apply' button with a green checkmark.

Below the main setup is a 'Secondary Address' section with a table for adding additional IP addresses:

Address (A.B.C.D)	Network Mask (A.B.C.D)	Control
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

On the right side, there is an 'Information' panel with the following details:

- AddPac Technology
- Model: AV6000NS\_G2
- H/W Version: 1.0
- S/W Version: 0.50.020
- Smart Web Version: 8.41.0.3
- Smart Web Build: Apr 20 2018
- Network: Static 172.17.205.22
- Mac Address: 0002 a40a 01fc

A 'Description' panel below it explains that the command sets up WAN port and that the static IP address is assigned from the service provider.

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# System : System Time

The screenshot displays the 'System Time' configuration page in the Smart Web Manager interface. The page is titled 'System Time' and features a left-hand navigation menu with options: System (expanded), Language, Network Setup, System Time (selected), NTP, and File Browser. Below the menu are sections for RTSP Basic, Advanced, and Miscellaneous. The main content area contains two primary settings: 'System Time' and 'Time Zone'. The 'System Time' field is set to 5:11:06 AM on 11/05/2018. The 'Time Zone' field is currently empty, with a note indicating it should be a name and offset from GMT. An 'Apply' button is located below these settings. On the right side, there are two informational panels: 'Information' and 'Description'. The 'Information' panel lists device details such as Model (AV6000NS\_G2), H/W Version (1.0), S/W Version (8.50.028), Smart Web Version (8.41.0.3), Smart Web Build (Apr 20 2018), Network (Static 172.17.205.22), and Mac Address (0002.a40a.0ffc). The 'Description' panel explains that this page sets time-related information for the equipment.

Smart Web Manager  
www.addpac.com

**System**

- Language
- Network Setup
- System Time**
- NTP
- File Browser

RTSP Basic

Advanced

Miscellaneous

### System Time

System Time  Month  Day  Year  Hour  Minute  Second

Time Zone  Hour   Min  (Time zone name and offset from GMT)

#### Information

AddPac Technology  
Model : AV6000NS\_G2  
H/W Version : 1.0  
S/W Version : 8.50.028  
Smart Web Version : 8.41.0.3  
Smart Web Build : Apr 20 2018  
Network : Static [172.17.205.22](#)  
Mac Address: 0002.a40a.0ffc

#### Description

Sets the time-related information of the equipment.  
Set the related information such as the current time change, time zone, etc.

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# System : NTP

The screenshot shows the 'Smart Web Manager' interface for configuring NTP. The page title is 'Smart Web Manager' with the URL 'www.addpac.com'. The main content area is titled 'NTP' and contains the following fields:

- Enable  Disable
- Primary Server:  (Domain Name or IP Address)
- Secondary Server:  (Domain Name or IP Address)
- Interval:  (1-72 hours)
- Hours Offset:  :  (-23-23 hours) : (0-60 minute)

At the bottom of the configuration area is an 'Apply' button with a green checkmark icon.

On the right side, there are two informational panels:

- Information:** AddPac Technology, Model: AV6000NS\_G2, H/W Version: 1.0, S/W Version: 8.50.028, Smart Web Version: 8.41.0.3, Smart Web Build: Apr 20 2018, Network: Static 172.17.206.22, Mac Address: 0002.a40a.0ffc
- Description:** Set up Time Server of Device

At the bottom of the page, there is a copyright notice: ©AddPac Tehchnology, all rights reserved.

# System : System Information

The screenshot shows the 'Smart Web Manager' interface with the 'System Information' page selected. The left sidebar contains a navigation menu with categories: System, RTSP Basic, Advanced, and Miscellaneous. The main content area displays system details in a table format. On the right, there is an 'Information' box with technical specifications and a 'Description' box which is currently empty.

System Information	
H/W Version	REV 1.0
S/W Version	8.50.028
MAC Address	0002.a40a.0ffc
Network Information	Static <a href="#">172.17.205.22</a>
WAN LINK Status	100Mbps FULL Duplex Link UP
Current Time	Fri May 11 10:53:52 2018
System Startup Time	Fri May 11 10:42:36 2018
System Running Time	0 days 00:11:16

**Information**

AddPac Technology  
Model : AV6000NS\_G2  
H/W Version : 1.0  
S/W Version : 8.50.028  
Smart Web Version : 8.41.0.3  
Smart Web Build : Apr 20 2018  
Network : Static [172.17.205.22](#)  
Mac Address: 0002 a40a 0ffc

**Description**

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# System : File Browser

Smart Web Manager  
www.addpac.com

**System**

- Language
- Network Setup
- System Time
- NTP
- File Browser**

**RTSP Basic**

**Advanced**

**Miscellaneous**

### File Browser

bin/	Directory	2016-Dec-26 05:54:49
cfg/	Directory	2018-May-11 10:44:53
controller/	Directory	2016-Dec-26 05:54:42
database/	Directory	2016-Dec-26 05:54:42
fonts/	Directory	2018-May-10 17:16:43
images/	Directory	2016-Dec-26 05:54:48
libs/	Directory	2016-Dec-26 05:54:48
log/	Directory	2017-Mar-05 23:51:02
ptz/	Directory	2018-Apr-10 18:18:20
rdk/	Directory	1970-Jan-22 07:08:38
run/	Directory	2018-May-10 17:16:50
subtitle/	Directory	2018-Apr-11 14:04:40
upload/	Directory	2018-May-10 17:16:50

찾아보기... Upload

**Information**

AddPac Technology  
Model : AV6000NS\_G2  
H/W Version : 1.0  
S/W Version : 8.50.028  
Smart Web Version : 8.41.0.3  
Smart Web Build : Apr 20 2018  
Network : Static [172.17.205.22](#)  
Mac Address : 0002.a40a.0ffc

**Description**

Provides file browser function.



# RTSP Basic



# Basic : Audio/Video

**Smart Web Manager**  
www.addpac.com

**System** +

**RTSP Basic** -

- Audio/Video
- RTSP
- RTP

**Advanced** +

**Miscellaneous** +

## Audio / Video Setup

Video Input  NTSC  PAL

Video setup

Channel	Codec	Bandwidth(kbps)	Picture size	Frame rate(fps)	I-frame Interval(second)	Max-conn
video0/0:0	h264	1024	1920x1080p	30	1	
video0/0:1	h264	1024	1280x720	30	1	
video0/0:2	h264	1024	720x480	30	1	
video0/0:3	h264	1024	640x240	30	1	

Audio setup

Channel	Codec
audio0/0	g711u

Apply

Information

AddPac Technology  
Model : AV6000NS\_G2  
H/W Version : 1.0  
S/W Version : 8.50.028  
Smart Web Version : 8.41.0.3  
Smart Web Build : Apr 20 2018  
Network : Static [172.17.205.22](#)  
Mac Address : 0002.a40a.0ffc

Description

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# Basic : RTSP

# Basic : RTP

The screenshot displays the 'Smart Web Manager' interface for configuring RTP. The main content area is titled 'RTP Setup' and contains two tables for managing RTP streams.

**RTP Stream Table:**

Index	Video Channel	Audio Channel	Target IP	Video Port	Audio Port	
<input type="checkbox"/> 1	video0/0:0	audio0/0	172.17.205.21	20000	21000	Delete

**Insert RTP Stream Table:**

Index(1-256)	Video Channel	Audio Channel	Target IP	Video Port	Audio Port	
<input type="text"/>	none	audio0/0	<input type="text"/>	<input type="text"/>	<input type="text"/>	Insert

At the bottom of the configuration area are 'Apply' and 'ReStart' buttons.

**Information Panel:**

AddPac Technology  
Model : AV6000NS\_G2  
HW Version : 1.0  
S/W Version : 8.50.028  
Smart Web Version : 8.41.0.3  
Smart Web Build : Apr 20 2018  
Network : Static [172.17.205.22](#)  
Mac Address: 0002.a40a.0ffc

**Description Panel:**

Set server and client related information for RTSP operation. Set display information as needed.

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Advanced

# Advanced : Video Port

The screenshot displays the 'Smart Web Manager' interface for 'Video Port Configuration'. The left sidebar contains navigation tabs: System, RTSP Basic, Advanced (selected), and Miscellaneous. Under 'Advanced', sub-tabs include Video Port (selected), Audio Port, and Service. The main configuration area includes:

- Select Video Port:** A dropdown menu currently set to 'video0/0'.
- Input Select:** Radio buttons for HDMI (selected), HD-SDI, and Composite. A note indicates '(default HDMI)'.
- h264-profile:** Radio buttons for base (selected) and high.
- Interval:** A numeric input field set to '2', with a note '(default 2, 1-120)'.
- brightness, contrast, saturation, hue:** Each has a numeric input field set to '128', with a note '(default 128, 0-255)'.

An 'Apply' button with a green checkmark is located at the bottom of the configuration area. On the right side, there are two panels: 'Information' and 'Description'. The 'Information' panel lists system details:

- AddPac Technology
- Model: AV5000NS\_G2
- HW Version: 1.0
- SW Version: 8.50.028
- Smart Web Version: 8.41.0.3
- Smart Web Build: Apr 20 2018
- Network: Static [172.17.205.22](#)
- Mac Address: 0002.a40a.0ffc

The 'Description' panel is currently empty. At the bottom of the interface, a copyright notice reads: '©AddPac Tehchnology , all rights reserved.'

# Advanced : Audio Port

The screenshot displays the 'Smart Web Manager' interface for 'Audio Port Configuration'. The top navigation bar includes the title 'Smart Web Manager' and the URL 'www.addpac.com'. The left sidebar contains menu items: 'System', 'RTSP Basic', 'Advanced' (expanded to show 'Video Port', 'Audio Port', and 'Service'), and 'Miscellaneous'. The main content area is titled 'Audio Port Configuration' and features the following settings:

- Select Audio Port:** A dropdown menu currently set to 'audio0/0'.
- Input Select:** Radio buttons for 'mic' (selected), 'line', 'SDI', and 'HDMI'. The default is 'mic'.
- Input Gain:** A dropdown menu set to '9', with '(default 9)' indicated.
- Output Select:** Radio buttons for 'headphone' (selected), 'line', 'SDI', and 'HDMI'. The default is 'line'.
- Output Gain:** A text input field set to '50', with '(default 50, 0-63)' indicated.

An 'Apply' button with a green checkmark is located at the bottom of the configuration area. On the right side, there is an 'Information' panel with the following details:

- Model: AV5000NS\_G2
- HW Version: 1.0
- SW Version: 8.50.028
- Smart Web Version: 8.41.0.3
- Smart Web Build: Apr 20 2018
- Network: Static [172.17.205.22](#)
- Mac Address: 0002.a40a.0ffc

A 'Description' panel is also present but empty. The footer of the interface reads '©AddPac Tehchnology , all rights reserved.'

# Advanced : Service

Smart Web Manager  
www.addpac.com

System +  
RTSP Basic +  
Advanced -  
• Video Port  
• Audio Port  
• Service  
Miscellaneous +

## Service

Application Services ⓘ

<input checked="" type="checkbox"/> Enable Telnet	Server Port	<input type="text" value="23"/> (default 23, 1-65535)
<input checked="" type="checkbox"/> Enable HTTP	Server Port	<input type="text" value="80"/> (default 80, 1-65535)
<input checked="" type="checkbox"/> Enable FTP	Control Port	<input type="text" value="21"/> (default 21, 1-65535)
	Data Port	<input type="text" value="20"/> (default 20, 1-65535)

Apply

Information

AddPac Technology  
Model : AV6000NS\_G2  
H/W Version : 1.0  
S/W Version : 8.50.028  
Smart Web Version : 8.41.0.3  
Smart Web Build : Apr 20 2018  
Network : Static [172.17.205.22](#)  
Mac Address: 0002.a40a.0ffc

Description

Enable or disable Telnet, HTTP, FTP and so on.

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# Miscellaneous



# Miscellaneous : PTZ

The screenshot displays the 'Smart Web Manager' interface for configuring a camera's PTZ (Pan/Tilt/Zoom) settings. The interface is organized into several sections:

- Navigation Menu (Left):** Includes 'System', 'RTSP Basic', 'Advanced', and 'Miscellaneous'. Under 'Miscellaneous', 'PTZ' is selected.
- Camera PTZ Controls (Top Center):** A set of directional buttons for Zoom (+/-), Home, and Focus.
- Configuration Form (Center):**
  - Server:**  Enable  Disable
  - Server Protocol Type:** dropdown menu set to 'addpac'
  - Server Protocol Port:** input field '5000' with range '<1-65535>'
  - Server Protocol Report:**  Enable  Disable
  - PTZ Device Protocol:** dropdown menu set to 'camera'
  - PTZ Device Address:** input field '0' with range '<0-255>'
  - PTZ Channel:** dropdown menu '0/0' with 'Slot/Port' label
  - PTZ Port Type:** dropdown menu set to 'rs232'
  - PTZ Port Baudrate:** dropdown menu '9600' with 'bps' label
  - PTZ Camera Model:** dropdown menu 'addpac' with note 'Used when the <PTZ Device Protocol> is <camera>'
  - PTZ Control:**  Enable  Disable
- Information Panel (Right):**
  - Information:** AddPac Technology, Model: AV6000NS\_G2, HW Version: 1.0, SW Version: 8.50.028, Smart Web Version: 8.41.0.3, Smart Web Build: Apr 20 2018, Network: Static 172.17.205.22, Mac Address: 0002.a40a.0ffc
  - Description:** (Empty field)

An 'Apply' button is located at the bottom left of the configuration form. The footer of the page reads '©AddPac Tehchnology , all rights reserved.'

# Miscellaneous : Subtitle

Smart Web Manager  
www.addpac.com

System  
RTSP Basic  
Advanced  
Miscellaneous

- PTZ
- Subtitle
- Ping
- Gratuitous ARP

### Camera Subtitle

Server  Enable  Disable

Server Protocol Type

Server Protocol Port  <-1-65535>

Font Thickness

Font Size Adjust  <-0-30>

Font Border Thickness Adjust  <-1-2>

Apply

\* To enter arrow symbols in character captions: Up Arrow: @<L> Down Arrow: @<D> Left Arrow: @<L> Right Arrow: @<R>  
\* Image file names are case sensitive. Image file location: /home2/subtitle/

	X(-1920)	Y(-1080)	Type	Font	Font size	Font color	Border color	Background	Underline	Captions / Image file name	
1	<input type="text" value="800"/>	<input type="text" value="900"/>	<input type="text" value="text"/>	<input type="text" value="gothic"/>	<input type="text" value="large"/>	<input type="text" value="black"/>	<input type="text" value="black"/>	<input type="text" value="transparent"/>	<input checked="" type="checkbox"/>	<input type="text" value="AddPac_AV6000NS"/>	Delete
2	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="text"/>	<input type="text" value="gothic"/>	<input type="text" value="large"/>	<input type="text" value="white"/>	<input type="text" value="black"/>	<input type="text" value="transparent"/>	<input type="checkbox"/>	<input type="text"/>	Delete
3	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="text"/>	<input type="text" value="gothic"/>	<input type="text" value="large"/>	<input type="text" value="white"/>	<input type="text" value="black"/>	<input type="text" value="transparent"/>	<input type="checkbox"/>	<input type="text"/>	Delete
4	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="text"/>	<input type="text" value="gothic"/>	<input type="text" value="large"/>	<input type="text" value="white"/>	<input type="text" value="black"/>	<input type="text" value="transparent"/>	<input type="checkbox"/>	<input type="text"/>	Delete
5	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="text"/>	<input type="text" value="gothic"/>	<input type="text" value="large"/>	<input type="text" value="white"/>	<input type="text" value="black"/>	<input type="text" value="transparent"/>	<input type="checkbox"/>	<input type="text"/>	Delete
6	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="text"/>	<input type="text" value="gothic"/>	<input type="text" value="large"/>	<input type="text" value="white"/>	<input type="text" value="black"/>	<input type="text" value="transparent"/>	<input type="checkbox"/>	<input type="text"/>	Delete
7	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="text"/>	<input type="text" value="gothic"/>	<input type="text" value="large"/>	<input type="text" value="white"/>	<input type="text" value="black"/>	<input type="text" value="transparent"/>	<input type="checkbox"/>	<input type="text"/>	Delete
8	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="text"/>	<input type="text" value="gothic"/>	<input type="text" value="large"/>	<input type="text" value="white"/>	<input type="text" value="black"/>	<input type="text" value="transparent"/>	<input type="checkbox"/>	<input type="text"/>	Delete

Apply

Information  
AddPac Technology  
Model: AV6000NS\_G2  
HW Version: 1.0  
SW Version: 8.50.028  
Smart Web Version: 8.41.0.3  
Smart Web Build: Apr 20 2018  
Network: Static 172.17.205.22  
Mac Address: 0002 a40a 0ffc

Description

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# Miscellaneous : Ping

Smart Web Manager  
www.addpac.com

System +  
RTSP Basic +  
Advanced +  
Miscellaneous -  
• PTZ  
• Subtitle  
• Ping  
• Gratuitous ARP

### Ping

Host address:  Start

```
PING 172.17.1.1 (172.17.1.1): 56 data bytes  
64 bytes from 172.17.1.1: icmp_seq=0 ttl=64 time=1 ms  
64 bytes from 172.17.1.1: icmp_seq=1 ttl=64 time=1 ms  
64 bytes from 172.17.1.1: icmp_seq=2 ttl=64 time=1 ms  
64 bytes from 172.17.1.1: icmp_seq=3 ttl=64 time=4 ms  
64 bytes from 172.17.1.1: icmp_seq=4 ttl=64 time=1 ms  
  
--- 172.17.1.1 ping statistics ---  
5 packets transmitted, 5 packets received, 0% packet loss  
round-trip min/avg/max = 1/2/4 ms
```

Information  
AddPac Technology  
Model: AV6000NS\_G2  
H/W Version: 1.0  
S/W Version: 8.50.028  
Smart Web Version: 8.41.0.3  
Smart Web Build: Apr 20 2018  
Network: Static [172.17.205.22](http://172.17.205.22)  
Mac Address: 0002.a40a.0ffc

Description  
Verify the outgoing Ping to the outside from the device by entering IP address and URL  
Verify network status of the location in where the terminal is located

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# Miscellaneous : Gratuitous ARP

The screenshot displays the 'Smart Web Manager' interface for configuring 'Gratuitous ARP'. The page title is 'Gratuitous ARP'. On the left, a sidebar menu shows 'Miscellaneous' expanded with options for PTZ, Subtitle, Ping, and Gratuitous ARP. The main content area features a 'Local IP Address' dropdown menu set to '172.17.205.22' and a 'Send' button with a green checkmark icon. On the right, an 'Information' panel lists device details: AddPac Technology, Model: AV6000NS\_G2, HW Version: 1.0, SW Version: 8.50.028, Smart Web Version: 8.41.0.3, Smart Web Build: Apr 20 2018, Network: Static 172.17.205.22, and Mac Address: 0002.a40a.0ffc. A 'Description' panel is also present but empty. The footer contains the copyright notice: ©AddPac Tehchnology , all rights reserved.



# Thank you!

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Sales and Marketing

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