

# **Display Power Management**

## **User Guide**

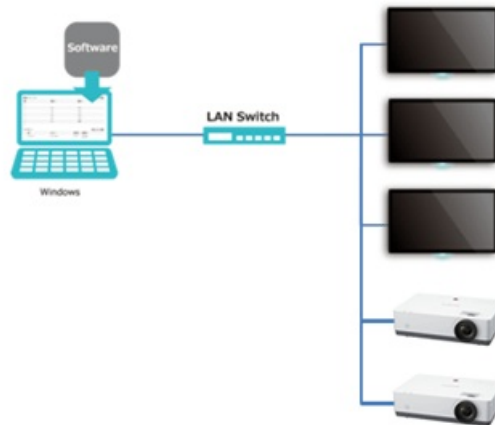
## Table of Contents

1. Overview	3
2. Required Environment	4
2.1. Display	4
2.2. Server PC	4
2.3. Operating PC	4
3. Preparation	5
4. Install Display Power Management to server PC	6
4.1. Install .NET Framework 3.5 to the server PC (only for Windows 8.1)	6
4.2. Install Display Power Management to the server PC	6
5. Using the application	7
5.1. Setting Time	7
5.2. Setting of BRAVIA	7
5.3. Setting of Data Projector	7
6. Open power management web page	8
6.1. Power Management Page	8
Trademark Notices	12

# 1. Overview

Display Power Management can control power status of multiple displays via network remotely.

You can control power status not only manually but by a schedule. And you can also watch current TV power status.



About the latest product information, please visit the following URL:

- <https://pro-bravia.sony.net/resources/software/display-power-management/>

## 2. Required Environment

### 2.1. Display

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- Sony Professional Display/BRAVIA
  - BRAVIAs which support professional mode
- Sony Data Projector
  - Projectors which support SDCP (Simple Display Control Protocol) or ADCP (Sony Advanced Display Control Protocol)

### 2.2. Server PC

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<b>Supported OS</b>	Windows 7/8.1/10
<b>Supported PC</b>	PC which has a processor faster than Intel Core i5.
<b>RAM</b>	At least 2 GB. More than 4 GB is recommended.
<b>Storage</b>	More than 400 MB is required.
<b>Network</b>	Wired or wireless network. A wired network is recommended.

### 2.3. Operating PC

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<b>Supported Web Browser</b>	Internet Explorer 11, Google Chrome
<b>Supported PC</b>	PC on which a supported web browser can run.
<b>Monitor Resolution</b>	More than 1024x768. Higher than 1280×1024 is recommended.

# 3. Preparation

Please prepare following devices.

- Server PC
- Operation PC

## **4. Install Display Power Management to server PC**

If you use Windows 8.1, you need to install .NET Framework 3.5 before installing the application.

### **4.1. Install .NET Framework 3.5 to the server PC (only for Windows 8.1)**

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[1] Please execute 'Control panel' > 'Programs' > 'Programs and Features' > 'Turn Windows features on or off' as an Administrator in the control panel.

[2] Enable the check box of '.NET Framework 3.5 (includes .NET 2.0 and 3.0)', and press the 'OK' button.

### **4.2. Install Display Power Management to the server PC**

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[1] Please execute the .msi file of the application installer.

[2] Please install the application according to the message shown in the dialog box.

[3] After completion of installation, Display Power Management is registered as a Windows service. It starts automatically at the boot of Windows.

## 5. Using the application

### 5.1. Setting Time

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This application runs based on the time zone of the server PC.  
Please note that the time of the display is not used.

### 5.2. Setting of BRAVIA

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1. Please change the mode to 'Pro settings mode'.
  - The method of change mode of display is written in BRAVIA B2B technical manual.
2. Please change following settings.
  - Settings > Network > Home network setup > IP Control > Authentication  
Please set to 'None'.
  - Settings > Network > Home network setup > IP Control > Simple IP Control  
Please set to 'enable'.
3. Please change the mode to 'Pro mode'.

### 5.3. Setting of Data Projector

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1. Open web browser.
2. Set IP address of projector to URL. (<http://xxx.xxx.xxx>)
3. Set PJ Talk as below.
  - [Community]: SONY
  - [PORT]: 53484

## 6. Open power management web page

You can open the web page of power management by following URL.

<b>URL of power management</b>	http://[IP address of server PC]:40001 (e.g. http://192.168.100.100:40001)
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### 6.1. Power Management Page

The screenshot shows the Power Management web page. It has two main sections: 'Power Schedule' and 'Display'.

**Power Schedule:** This section has a table with columns 'Day of week' and two columns for 'ON' and 'OFF' times. Red boxes and numbers highlight specific parts: '1' points to the 'ON' column header, '2' points to the 'OFF' column header, and '9' points to the 'Edit Power Schedule' button.

**Display:** This section has a table with columns: '#', 'Name', 'IP address', 'Status', 'Control', and an 'Edit' button. Red boxes and numbers highlight specific parts: '3' points to the '#' column, '4' points to the 'Name' column, '5' points to the 'IP address' column, '6' points to the 'Status' column, '7' points to the 'Control' column, and '8' points to the 'Change Input' dropdown. A 'Control All Displays' button is also visible.

**Figure 1**

In the power management page (Figure 1), you can see the schedule of power on/off of display (1, 2), name of display (4), IP address of display (5), current power status of display (6). Meaning of power status is explained in following chart.

Status	Description
Offline	Display is not connected to the server.
Power ON	Display is connected to the server, and the power status of the display is On.
Power OFF	Display is connected to the server, and the power status of the display is Off.

By pressing Control button (7), you can change the power status of display manually. Even after changing power status of display by this button, the power status of display can be changed by schedule. When



Change Input (8) is selected, you can change the input of selected display.

By pressing Edit Power Schedule button, the page moves into the editing-schedule mode.

By pressing Display Edit button, the page moves into the editing-display mode.

You can control power and input status by all connected displays by Control All Displays (9). HDMI1-4 is for BRAVIA, while InputA-F is for Projector.

## 6.1.1. Editing Schedule

When you press the Edit Power Schedule button, the schedule editing menu is shown (Figure 2).

Day of week	ON <sup>1</sup>	OFF <sup>2</sup>
Sun		
Mon	9:00	18:00
Tue	9:00	18:00
Wed	9:00	18:00
Thu	9:00	18:00
Fri	9:00	18:00
Sat		

**3**

Figure 2

In this mode (Figure 2), you can edit the time of power-on and power-off of display by a day of week (1, 2). You can set both or one value of power-on time and power-off time. When you want not to change display power status in a day of week, please keep it to white spaces. After completion of editing the time of power-on and power-off, please press Complete button (3) to save them.

## 6.1.2. Editing Display

#	Name <sup>4</sup>	IP address <sup>5</sup>	Pre-shared key <sup>6</sup>	<sup>7</sup>
1	Display1	192.168.0.3		Delete
2	Display2	192.168.0.4		Delete

**1**  **2**

Figure 3

In this mode (Figure 3), you can edit the display information to connect to the server. At first, you need to add entry of display by pressing Add Display button (1). On the entry of display, please set BRAVIA or

Projector by icon (3), display name (4) and IP address of the display (5).

When authentication setting of BRAVIA (refer to 5.2) is enabled, Please set Pre-Shared Key (6). Projector is out of scope about this authentication scheme.

If you want to add more than one entry, please press Add button again. After adding entries, please press Complete button (4) to save them. If you want to delete an entry, please press Delete button (7).

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