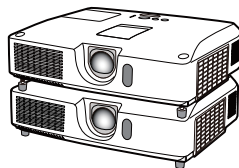**Projector**

# CP-X4021N/CP-X5021N CP-WX4021N
## User's Manual (detailed)
## Instant Stack Guide

Thank you for purchasing this product.
This manual is intended to explain only Instant Stack feature. Other than what is mentioned in this manual, please see other manuals of this product.

## Features

This projector can be used with one more same type projector to make one image on one screen with Instant Stack feature.
The two projectors can work simultaneously to make the image brighter.
Moreover, if you connect two projectors with RS-232C cross-over cable, it turns to a kind of intellectual stacking system. The two projectors can work alternately by themselves, and once one projector has an accident the other voluntarily starts to work to keep your presentation going.
These features, generically called Instant Stack, provide you with the broad use.

⚠**WARNING** ►Before using this product, be sure to read all manuals for this product. After reading them, store them in a safe place for future reference.
►Follow all the instructions in the manuals or on the product. The manufacturer assumes no responsibility for any damage caused by mishandling that is beyond normal usage defined in the manuals.

**NOTE** • The information in this manual is subject to change without notice.
• The manufacturer assumes no responsibility for any errors that may appear in this manual.
• The reproduction, transfer or copy of all or any part of this document is not permitted without express written consent.

### Trademark acknowledgment

All the trademarks in this manual are the properties of their respective owners.

# Contents

# 1. Introduction

## 1.1 Entries and graphical symbols explanation

The following entries and graphical symbols are used for the manuals and the product as follows, for safety purpose. Please know their meanings beforehand, and heed them.
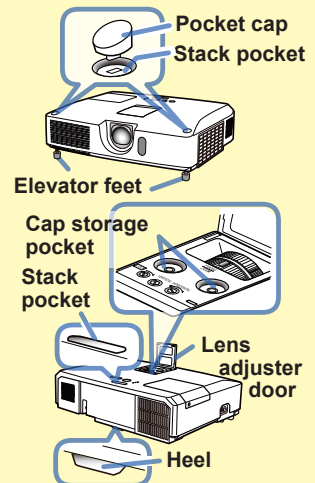
| | |
|---|---|
| ⚠**WARNING** | This entry warns of a risk of serious personal injury or even death. |
| ⚠**CAUTION** | This entry warns of a risk of personal injury or physical damage. |
| **NOTICE** | This entry notices of fear of causing trouble. |

## 1.2 Important safety instruction

The followings are important instructions for safely using the product in Instant Stack. First of all, read the following instructions and be sure to follow them always when using the Instant Stack of this product.

### For Instant Stack feature

⚠**WARNING** ► Take a special care not to fall the stacked projectors.

• When stacking two projectors, make sure the elevator feet and heel of the upper projector are inserted into the corresponding pockets of the lower projectors. (📖*11*)

• When using the Instant Stack by piling up two projectors, you can change the projection angle by adjusting the elevator feet of the unit that is placed underneath. (📖*8*) Exercise care to prevent the stacked projector from falling off or tipping over while adjusting the elevator feet.

**Pocket cap**
**Stack pocket**

**Elevator feet**

• Pile up two projectors as maximum and do not pile up three projectors or more.

**Cap storage pocket**
**Stack pocket**

• Do not install the projectors that are piled up with using the stack pockets, elevator feet and heel of the projectors at a place higher than man.

• Do not install the projectors that are piled up with using the stack pockets, elevator feet and heel of the projectors on a ceiling.

**Lens adjuster door**

• Do not touch the stacked projectors except when instructions are given in this manual. Do not hit the projectors with any type of object.

**Heel**

*(continued on next page)*

⚠**WARNING** ► Be sure to storage the pocket caps reliably and safely inside of the lens adjuster door to prevent children and pets from swallowing the caps, when taking the caps from the in stack pockets. (📖*3*)  If they swallow the caps, consult a physician immediately for emergency treatment.

⚠**CAUTION** ► Be careful not to injure your nail and finger to remove the pocket caps. (📖*3*)

**NOTICE** ► Instant Stack is a feature that brings you a very convenient way to pile up or line up two projectors.  The images projected from the two projectors may not be able to be finely superimposed on screen depending on the position or environmental of the projectors.  Especially, if the screen is curved or distorted or unlevel, the images will not be finely superimposed.

• Just after turning on, the projected images will not be so stable since the temperature inside of the projectors is rising.  Wait 20 minutes or more after turning on, before you start to adjust images to superimpose.

• The images may be shifted by temperature change, vibration and shock of being hit by something.  When you use Instant Stack, install them in stable environment.  If the images are shifted, adjust them again. (📖*9, 12, 15*)

• The images may be shifted with time by the tension or weight of connected cables.  Pay attention to arrangement of cables not to place burden to the projectors.

• It may be happened to make a mechanical noise and degrade image quality by sympathetic vibration with the piled up projectors if the volume of built-in speakers is set much higher.  In this case, check the volume setting on both projectors, and lower the volume to remove such phenomena or place the projectors side by side.

• With RS-232C connection between two projectors, a projector as Main can control the other as Sub, which is a feature called as Intellectual Stack. (📖*11*)  If you use the feature, you cannot use RS-232C communication to control projectors, since RS-232C function is occupied with Intellectual Stack.  If you wish to control projectors, use LAN connection that can be connected with one of the projectors.

• When you use Intellectual Stack, the operations or setting of some functions are restricted. Refer to this manual for detail. (📖*34*)

## For general installation

⚠**WARNING** ► Install the projector where you can access the power outlet easily.

► Do not subject the projector to unstable conditions. Install the projector in a stable horizontal position.

• Do not use any mounting accessories except the accessories specified by the manufacturer. Read and keep the manuals of the accessories used.

• For special installation such as ceiling mounting, be sure to consult your dealer beforehand. Specific mounting accessories and services may be required.

► Do not install the projector near thermally conductive or flammable things.

► Do not place the projector where any oils, such as cooking or machine oil, are used.

► Do not place the projector in a place where it may get wet.

⚠**CAUTION** ► Place the projector in a cool place with sufficient ventilation.

• Keep a space of 30 cm or more between a side of the projector and other objects such as a wall. If you install two projectors in Style *2* (📖*6*), keep a space of 30 cm or more between the two projectors.

• Do not stop up, block nor cover the projector's vent holes.

• Do not place the projector at places that are exposed to magnetic fields, doing so can cause the cooling fans inside the projector to malfunction.

► Avoid placing the projector in smoky, humid or dusty place.

• Do not place the projector near humidifiers. Especially for an ultrasonic humidifier, chlorine and minerals contained in tap water are atomized and could be deposited in the projector causing image degradation or other problems.

**NOTICE** ► Position the projector to prevent light from directly hitting the projector's remote sensor.

• Do not place the product in a place where radio interference may be caused.

# 1.3 Basic information and preparation

### Instant Stack

Instant Stack is the feature that brings you very convenient way to superimpose the images projected by two projectors. The projector is specially designed to support the feature, and has some functions to support you to install two projectors and superimpose the images.

### Intellectual Stack and Simple stack

Instant Stack covers both of the following two features.
If you link two projectors with an RS-232C cable and make necessary setting on the projectors, the projectors will automatically collaborate to work under the setting. This use is called as Intellectual Stack in this manual.
If you do not connect an RS-232C cable, the projectors will work individually.  This use is called as Simple Stack in this manual.

### Remote control for Intellectual Stack and Simple Stack

In Intellectual Stack use, one projector is set as Main and the other is set as Sub.
(&18)  If you use Intellectual Stack, only the projector as Main can receive the remote control signal. Even if you want to operate the other as Sub , you need to point at the Main with the remote control.
If you use Simple Stack, both projectors can receive the remote control signal.  To avoid the operation by the remote control to being mixed up, it is recommended to operate one projector by the remote control and to operate the other by the control panel on the projector or wired remote.  In this case the other projector should disable the remote control by KEY LOCK. (&Operating Guide → OPTION menu)

### Installation styles

There are following two styles to install two projectors. Instant Stack can support both of them.
**Style 1** : Piling them up vertically
**Style 2** : Lining them up horizontally
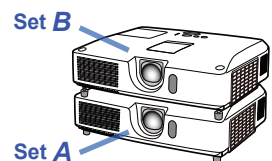This manual is mainly explained the installation of Style *1*. If you wish to install two projectors in Style *2*, refer to the articles you need in this manual.

### Tentative naming of two projectors

To be easy to follow the explanation, the following names are used in the manual for piling up installation.
**Set *A*** : A projector placed underneath
**Set *B*** : A projector placed over Set *A*


Set *B*
Set *A*

# 2. Installation

Before installation, read carefully *Important safety instruction* (📖*3~5*) for safety reason. And note the followings for proper use of the Instant Stack.

● When you use Intellectual Stack, until you set STACK MODE to SUB on one projector, both projectors can react to the remote control signal.
For installation, it is recommended to operate one projector by the remote control and to operate the other by the control panel on the projector or wired remote. In this case the other projector should disable the remote control by KEY LOCK. (📖*Operating Guide → OPTION menu*)

● Even if the images of Set *A* and Set *B* are fully superimposed once, it may shift over time.
Adjust the images again to superimpose the image.

● It may be happened to make a mechanical noise and degrade image quality by sympathetic vibration with the two projectors if the volume of built-in speakers is set to much higher.
In this case, check the volume setting on both projectors, and lower the volume to remove such phenomena. In case the image position is shifted, adjust it again.

## 2.1 Preparation with powered up

If you wish to use Intellectual Stack with RS-232C cable connection, the following setting must be confirmed on both of projectors. Otherwise, menus for Intellectual Stack on the projectors cannot be operated.

● STANDBY MODE in SETUP menu: NORMAL
(📖*Operating Guide → SETUP menu*)

● COMMUNICATION TYPE in COMMUNICATION in SERVICE menu: OFF
(📖*Operating Guide → OPTION menu*)

● STACK LOCK in SECURITY menu: OFF

If STACK LOCK is set on, any menu related to Instant Stack cannot be operated. So, it is required to set to off for installation and setting on menu.

(1) Using the ▲/▼/◄/► buttons, go down the menu tree as below;

    ADVANCED MENU > SECURITY
      > STACK LOCK

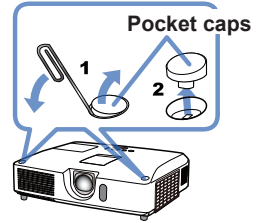STACK LOCK dialog will appear on screen. (📖*Operating Guide → SECURITY menu*)

(2) Use the ▲/▼ buttons to point at OFF, and press the ► button to complete the setting.

# 2.2 Installation of the first projector (Set *A*)

### Removing pocket caps
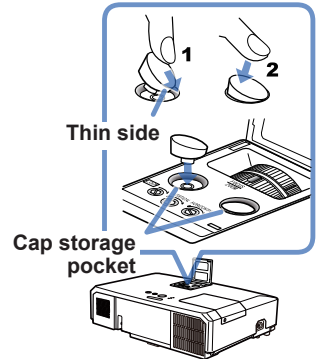When you pile up two projectors, remove pocket caps on Set *A*.

⚠**CAUTION**  ►It is recommended to use a pin or something similar to remove the caps. If you use your finger, be careful not to injure your nail and finger.

**NOTE**  • Cap storage pockets for the pocket caps are provided inside of the lens adjuster door.  Be sure to keep the caps in the storage pockets, when taking the caps from the stack pockets.
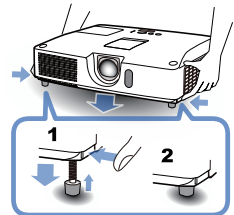To store the cap to the pocket, put thin side of the cap to the pocket first, and then firmly push down the other side of the cap to the bottom end of the pocket.  Be aware that keeping the caps solidly is extremely important to prevent children and pets from swallowing the caps.

### Preparing of elevator feet
When you pile up two projectors, set the elevator feet length minimum with using the elevator buttons on Set *A* and *B*.

⚠**CAUTION**  ►Be careful that when you pile up two projectors, a projector set over the other may slide down.

### Deciding installation position
Decide the position of Set *A* and its projection angle. (📖*User's Manual (concise)* → *Arrangement* and *Adjusting the projector's elevator*.)

**NOTE**  • The angle of gradient of Set *A* to the horizontal line should be within 12 degrees.

• Keep in mind the followings when you consider the installation position.
- **VERTICAL** adjuster should be set to upper limit position.
- **ZOOM** ring should not be set to fully wide position.
- **HORIZONTAL** adjuster is recommended to be set around center position.

## Setting up Set *A*

**1.** Turn on Set *A*.

**2.** Set the lens position to upper limit with **VERTICAL** adjuster.

> NOTE • If it is not set to upper limit, the image of Set *B* may not be able to fully overlap to the image of Set *A*.
> • If necessary, set MIRROR first, since the setting change may shift the image position. (□*Operating Guide → SETUP menu*)
> • **HORIZONTAL** adjuster is recommended to be set around center position.

**3.** Adjust the image of Set *A* to match your screen with using **VERTICAL** adjuster, **HORIZONTAL** adjuster, **ZOOM** ring and **FOCUS** ring. (□*User's Manual (concise) → Displaying the picture*)
   If necessary, also use KEYSTONE and PERFECT FIT to set the image position. (□*Operating Guide → EASY MENU or SETUP menu*).

> NOTE • **ZOOM** ring should not be set to fully wide position, otherwise the image of Set *B* may not be able to fully overlap to the image of Set *A*.  Be aware that the image size of Set *B* must be set a little wider than the one of Set *A* using **ZOOM** ring, since electrical fine tuning of image position of Set *B* never widen the image size of Set *B*.
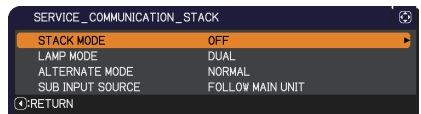> • When you use PERFECT FIT, KEYSTONE cannot be operated.  If you require to adjust the image with KEYSTONE and PERFECT FIT, adjust it with KEYSTONE first.
> • If you use Simple Stack, go to *Installation of the second projector (Set B)*. (□*11*)

**4.** Display a menu with **MENU** button.  (□*Operating Guide → Using the menu function*)

**5.** Using the ▲/▼/◀/▶ buttons, go down the menu tree as below.
   ADVANCED MENU > OPTION
     > SERVICE > COMMUNICATION
     > STACK

   STACK menu will appear on screen.
   (□*Operating Guide → OPTION menu*).



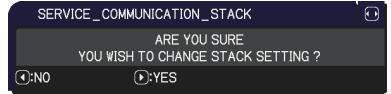*(continued on next page)*

*Installation of the first projector (Set A) - Setting up Set A (continued)*

**6.** Use the ▲/▼ buttons to point at STACK MODE, and press the ► button to display STACK MODE dialog.
Point at SUB pressing the ▲/▼ buttons, and press the ► button.

```
STACK MODE                              ⊙
OFF
MAIN
SUB
◄:RETURN        ,▶:EXIT
```

**7.** After pressing the ► button, a dialog to confirm whether or not the setting is saved is displayed.
Press the ► button to complete the setting. (&*23*)

```
SERVICE_COMMUNICATION_STACK            ⊙
              ARE YOU SURE
     YOU WISH TO CHANGE STACK SETTING ?
◄:NO              ▶:YES
```

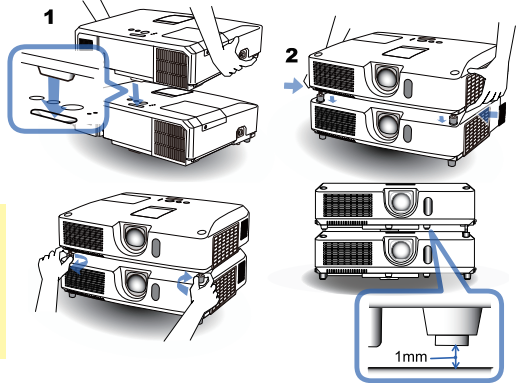**8.** Disable the remote control by KEY LOCK if you use Intellectual Stack. (&*Operating Guide → OPTION menu*)

> NOTE • During the installation, Set *A* will not be operated by the remote control after that. So, it is recommended to disable the remote control by KEY LOCK, to avoid the operation by the remote control to being mixed up.
>
> • After STACK MODE setting is completed, Set *A* (Sub) cannot receive the remote control signal. When you set STACK MODE to OFF, enable the remote control by KEY LOCK if necessary.

# 2.3 Installation of the second projector (Set *B*)

## Piling up projectors

**1.** Put Set *B* onto Set *A*, if you want to pile up two projectors. Make sure that the heel on the bottom of Set *B* is right into the heel pocket on the top of Set *A*.

**2.** Keeping Set *B* on Set *A*, without holding Set *B* up, push the elevator buttons of Set *B* to draw the elevator feet. Make sure that the feet are reached to the bottom of the stack pockets on Set *A*.

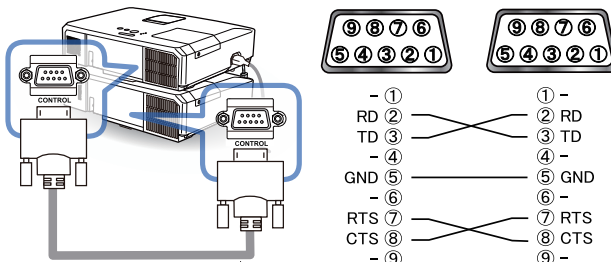⚠**CAUTION** ►Be careful that when you pile up two projectors, a projector set over the other may slide down.

**3.** Make the feet of Set *B* rotate two revolutions counterclockwise to keep about 1 mm space between a protrusion at the bottom of Set *B* and the top case of Set *A* as shown in the right.

NOTE • Keeping Set *B* slightly away from Set *A* except the heel part is required to avoid sympathetic vibration with the two projectors caused by sound out from built-in speakers.

• Be careful that if Set *B* is tilted more, the image of Set *B* may not be able to be superimposed to the image of Set *A*.

• If you have already used the elevator feet of Set *A*, make sure that the angle to the horizontal line of both sets should be within 12 degrees.

## Connecting projectors

If you wish to use Intellectual Stack, connect each **CONTROL** port on Set *A* and Set *B* with an RS-232C cross cable.

```
         ⑨⑧⑦⑥           ⑨⑧⑦⑥
        ⑤④③②①         ⑤④③②①

         – ①               ① –
      RD ②               ② RD
      TD ③               ③ TD
         – ④               ④ –
     GND ⑤ ———————— ⑤ GND
         – ⑥               ⑥ –
     RTS ⑦               ⑦ RTS
     CTS ⑧               ⑧ CTS
         – ⑨               ⑨ –
```

## Setting up Set *B*

**1.** Turn on Set *B*.

> **NOTE** • After turning on Set *B*, make sure that the image of Set *B* is not remarkably inclined compared with the image of Set *A*. If it is inclined too much, rotate the elevator feet of Set *B* to adjust the angle roughly. Check again that there is about 1 mm space between a protrusion at the bottom of Set *B* and the top case of Set *A*.

**2.** Reset the adjustment by KEYSTONE and PERFECT FIT on Set *B.*
(📖*Operating Guide → EASY MENU or SETUP menu*)

> **NOTE** • When you use PERFECT FIT, KEYSTONE cannot be operated. If it is required to reset both functions, reset PERFECT FIT function first.

**3.** Adjust image size and position of Set B with **ZOOM** ring, **VERTICAL** adjuster, **HORIZONTAL** adjuster and **FOCUS** ring to fully overlap the image of Set *A*.

> **NOTE** • Fine adjustment of image size and position later by electrical function, such as KEYSTONE and PERFECT FIT, cannot widen the image size, so it is important to fully overlap the image of Set *A* by optical adjustment.
> • If you try to operate Set *B* with the remote control, Set *A* may react as well. It is recommended to operate Set *B* with the control panel on Set *B*.
> • If you install two projectors side by side, also adjust image size and position of Set *B* to fully overlap the image of Set *A*.
> • If you use Simple Stack, it is recommended to disable the remote control on Set *B* by KEY LOCK and operate it by the control panel, or to operate it by a wired remote control, since Set *A* will react to the remote control. (📖*Operating Guide → OPTION menu*)
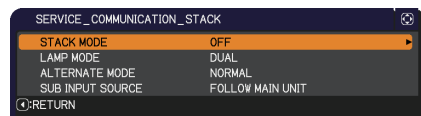> • If you use Simple Stack, go to *For Simple Stack users*. (📖*16*)

**4.** Display a menu with **MENU** button. (📖*Operating Guide → Using the menu function*)

**5.** Using the ▲/▼/◄/► buttons, go down the menu tree as below.
ADVANCED MENU > OPTION
  > SERVICE > COMMUNICATION
  > STACK
STACK menu will appear on screen.
(📖*Operating Guide → OPTION menu*).

*(continued on next page)*

**6.** Use the ▲/▼ buttons to point at STACK
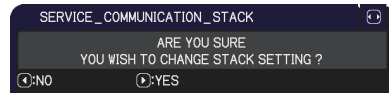MODE, and press the ► button to display
STACK MODE dialog.
Point at MAIN with the ▲/▼ buttons, and
press the ◄ button to return to the previous menu.

**7.** Use the ▲/▼ buttons to point at LAMP
MODE, and press the ► button to display
LAMP MODE dialog.
Point at DUAL with the ▲/▼ buttons, and press the ► button.

**8.** After pressing the ► button above, a dia-
log to confirm whether or not the setting is
saved is displayed.
Press the ► button to complete the setting.
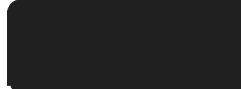(&*23*)

## 2.4 Confirmation of Main & Sub setting

**1.** Press **MENU** button on the remote control to Main (Set *B*).

> **NOTE** • In use of Intellectual Stack, the remote control signal can be received by the Main only, and the Sub ignores the remote control signal.

**2.** The MENU dialogs appear on the lower right of screen.



**Main (Set *B*)**　　　　　**Sub (Set *A*)**

**3.** If you press the ► button, the dialog is closed and a menu on Main (Set *B*) will appear when MAIN is pointed at.
If you press the ◄ button, the dialog is closed and a menu will disappear.

> **NOTE** • If these dialogs are not displayed on screen, check RS-232C cable connection (*11*) and Main/Sub setting on STACK MODE dialog. (*18*)

## 2.5 Fine adjustment of image position

To superimpose the image of Main (Set *B*) to the one of Sub (Set *A*), the image size and position of Main (Set *B*) is finely adjusted with PERFECT FIT.

### For Intellectual Stack users

**1.** Press **MENU** button on the remote control or control panel on Main (Set *B*) to display MENU dialog. Point at MAIN with the ▲/▼/◄/► buttons, and press the ► button.
Then, a menu on Main (Set *B*) will appear.



**Main (Set *B*)**

**2.** Using the ▲/▼/◄/► buttons on the remote control or Main (Set *B*) control panel, select PERFECT FIT that is existed in EASY MENU and OPTION menu of ADVANCED MENU. (&*Operating Guide → EASY MENU* or *OPTION menu*)
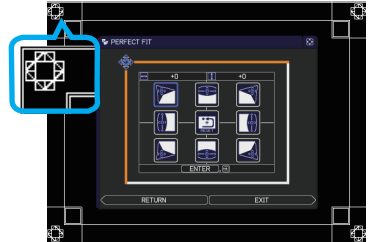The image especially arranged for Intellectual Stack appears on screen. It consists of one TEMPLATE screen with the PERFECT FIT dialog from Main (Set *B*) and another TEMPLATE screen from Sub (Set *A*).
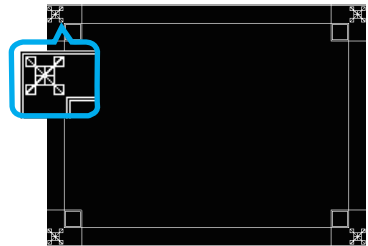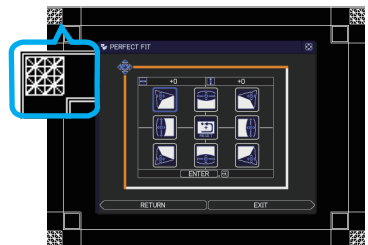


**Image from Main (Set *B*)**

**3.** Using PERFECT FIT on Main (Set *B*), adjust the image size and position of Main (Set *B*) to fully superimpose to the image of Sub (Set *A*). (&*Operating Guide → EASY MENU* or *OPTION menu*)
It is recommended to adjust it by the following way.

(1) Adjust four corners roughly in turn as below.

Top left → Top right
→ Bottom right → Bottom left.

(2) Adjust four corners finely in turn as same as above.



**Image from Sub (Set *A*)**



**Superimposed image**

**NOTE** • Refer to *NOTE for all users*. (&*16*)

## For Simple Stack users

**1.** Press **MENU** button on the remote control to open a menu on Set *A*.

**2.** Use the ▲/▼/◄/► buttons to open TEMPLATE dialog, then select STACK on the dialog. (📖*Operating Guide → SCREEN menu*)

**3.** Press **MENU** button on the control panel of Set *B* to open a menu.

**4.** Use the ▲/▼/◄/► buttons to select PERFECT FIT that is existed in EASY MENU and OPTION menu of ADVANCED MENU. (📖*Operating Guide → EASY MENU or OP-TION menu*).
PERFECT FIT dialog appears on screen.

**5.** Using PERFECT FIT on Set *B*, adjust the image size and position of Set *B* to fully superimpose to the image of Set *A*.
It is recommended to adjust it by the following way.

(1) Adjust four corners roughly in turn as below.
  Top left → Top right → Bottom right → Bottom left.
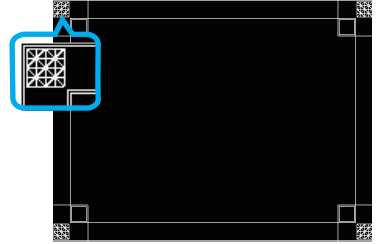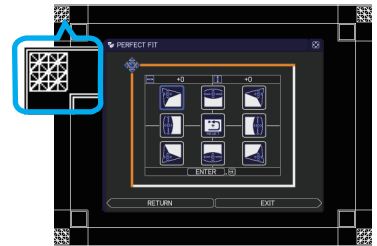
(2) Adjust four corners finely in turn as same as above.

**STACK of TEMPLATE**

**PERFECT FIT dialog
on STACK of TEMPLATE**

---

 **NOTE for all users** • Refer to *PERFECT FIT* of *EASY MENU* or *OPTION menu* in the *Operating Guide* for the detail of PERFECT FIT.

• Even if you place two projectors side by side (Style *2*), adjust the image position of one projector to the other's with the same way as explained above.

• It is strongly recommended to use a flat screen. If you use a curved or distorted screen, it is very difficult to adjust two images to be superimposed, even if you use pin/barrel adjustment on PERFECT FIT.

• Even though you try to finely adjust the images from two projectors, it may not be possible to superimpose the images depending on input signals. In this case, try to resolve it with the following measures.
- Press **AUTO** button of the remote control or execute AUTO ADJUST EXECUTE (📖*Operating Guide → IMAGE menu*) on each of the projectors.
- Adjust H POSITION and V POSITION (📖*Operating Guide → IMAGE menu*) on each of the projectors.
- Check RESOLUTION setting on INPUT menu, and if it is different between the two projectors, change the setting to the same. (📖*Operating Guide → INPUT menu*)

# 3. Setting on STACK menu

Using STACK menu, set the Intellectual Stack operation.

NOTE • If you use Simple Stack without RS-232C cable connection, skip this chapter.

• If you do not need to change the setting that is set during the installation explained prior to this chapter, jump to *3.3 Selecting lamp working mode*. (&*19*)

• Read carefully *3.7 Important information for Intellectual Stack*. (&*24*)
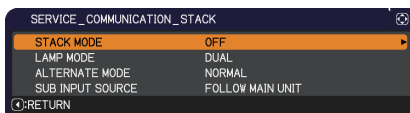
## 3.1 Displaying STACK menu

Using the ▲/▼/◄/► buttons, go down the menu tree as below.

ADVANCED MENU > OPTION
  > SERVICE > COMMUNICATION > STACK

STACK menu will appear on screen.
(&*Operating Guide → OPTION menu*). The
setting for Intellectual Stack operation is started from the menu.

| SERVICE_COMMUNICATION_STACK | |
| --- | --- |
| STACK MODE | OFF |
| LAMP MODE | DUAL |
| ALTERNATE MODE | NORMAL |
| SUB INPUT SOURCE | FOLLOW MAIN UNIT |
| :RETURN | |

NOTE • The following setting must be confirmed on both of projectors. Otherwise, STACK menu on the projectors cannot be operated. (&*7*)

- STANDBY MODE in SETUP menu: NORMAL
  (&*Operating Guide → SETUP menu*)
- COMMUNICATION TYPE in COMMUNICATION in SERVICE menu: OFF
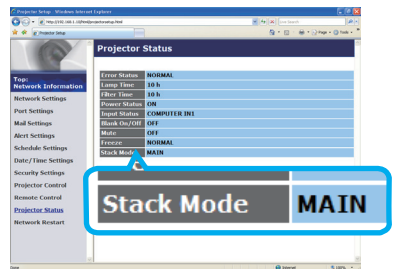  (&*Operating Guide → OPTION menu*)
- STACK LOCK in SECURITY menu: OFF (&*7*)

## 3.2 Selecting Main, Sub or off

If you wish to turn on Intellectual Stack, select either MAIN or SUB. When a projector is set to MAIN and the other is set to SUB in STACK MODE dialog, Intellectual Stack is started. If you wish to turn off Intellectual Stack, select OFF.

**1.** Point at STACK MODE with the ▲/▼ buttons in STACK menu, then press the ► button to display STACK MODE dialog.

**2.** Use the ▲/▼ buttons in the dialog to point at MAIN, SUB or OFF.

  **OFF** : for disabling Intellectual Stack
  **MAIN** : for assigning the projector to Main that is works as a control tower.
  **SUB** : for assigning the projector to Sub that works as a follower.

**3.** Press the ◄ button to turn back to previous menu, or the ► button to complete the setting. (&23)

---

 **NOTE** • After setting Main or Sub, the setting information can be monitored on Web Control. (&*Network Guide → Web Control*) Select Projector Status on the main menu of web control. Stack Mode item shows whether your projector is set to Main or Sub, even though STACK MODE is set to OFF.

## 3.3 Selecting lamp working mode

Select one of lamp working mode, DUAL use or ALTERNATE use.

**1.** Point at LAMP MODE with the ▲/▼ buttons in STACK menu, then press the ► button to display LAMP MODE dialog.

**2.** Use the ▲/▼ buttons in the dialog to point at DUAL or ALTERNATE.
**DUAL** : for turning on the projectors at the same time.
**ALTERNATE** : for turning on the projectors alternately.

**3.** Press the ◄ button to turn back to previous menu, or the ► button to complete the setting. (&*23*)
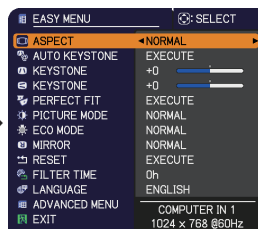
---

NOTE • If DUAL is selected for the LAMP MODE, a menu to select MAIN or SUB may be displayed on screen first when a button on the control panel of the projector or remote control is pressed. If displayed, select one of them which you want to operate. Refer to some example below.
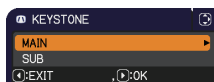- When **MENU** button is pressed, a menu to select MAIN or SUB is displayed. Then, if MAIN is selected, a menu either EASU MENU or ADVANCED MENU on Main projector is displayed.
- When **KEYSTONE** button is pressed, a menu to select MAIN or SUB is displayed. Then, if MAIN is selected, the KEYSTONE menu on Main projector is displayed.

• When DUAL is selected for LAMP MODE, operating restrictions are as follows.
- AUTO POWER OFF and FREEZE functions on both projectors is disabled.
- The test patterns arranged for CUSTOM of GAMMA and COLOR TEMP are not displayed.
- It takes a little longer than on other mode to turn on the projectors, which is not malfunction.

**A menu to select**
**MAIN or SUB**

**A menu on Main**

**A menu to select**
**MAIN or SUB**

**A menu on Main**

*(continued on next page)*

NOTE • When DUAL is selected for LAMP MODE, the following settings are recommended because Main and Sub projectors may display different images on screen.
- Set the same image on TEMPLATE and START UP functions on Main and Sub projectors.
- Capture the same image on MyScreen on Main and Sub projectors.
- Save the same image on MY IMAGE on Main and Sub projectors.
- Set the same content of message for Messenger function (📖*Network Guide → Messenger Function*) on Main and Sub projectors.

• When DUAL is selected for LAMP MODE, the image shift causes degradation of image quality on screen. Set MIRROR setting in advance of image position adjustment. When MIRROR setting (📖*Operating Guide → SETUP menu*) is changed, the image position is shifted.

• When ALTERNATE is selected, if an error is occurred and the lamp is turned off on a working projector, the other automatically starts to work. In a case an RS-232C cable is disconnected or AC power is not supplied, the other will not work.

• Even when ALTERNATE is selected, if one or both of PIN LOCK and TRANSITION DETECTOR are set to ON (📖*Operating Guide → SECURITY menu*), the both projectors will turn on. Then, after inputting security code for each one, one of projector will turn off.

• In the Intellectual Stack use, **POWER** indicator on the control panel of projector operates in different way from normal use. (📖*Operating Guide → Troubleshooting*)  When Main and Sub projectors are in standby mode, if **STANDBY/ON** button on the remote control or control panel of Main projector is pressed, Main projector will decide projectors to turn on in accordance with STACK MODE setting.
- While Main projector is selecting projectors to turn on, **POWER** indicator on Main projector is blinking in green.
- If Main projector is required to turn on, **POWER** indicator on Main projector turns to steady green after the lamp is on, as same as usual.
- If only Sub projector is required to turn on, **POWER** indicator on Main projector turns to steady orange after Sub projector turns on.
- If an error is occurred on Main projector, Sub projector turns on and **POWER** indicator on Main projector is lighting or blinking in red.

## 3.4 Selecting lamp switching mode

The setting is required only when ALTERNATE is selected at LAMP MODE dialog. (&*19*)  Select one of lamp switching mode, AUTO or NORMAL, in the ALTERNATE use.

**1.** Point at ALTERNATE MODE with the ▲/▼ buttons in STACK menu, then press the ► button to display ALTERNATE MODE dialog.

**2.** Use the ▲/▼ buttons in the dialog to point at AUTO or NORMAL.

**AUTO** : for turning on one projector that has the lamp which usage time is shorter than the other's one.

**NORMAL** : for turning on one projector that was not used last time.

**3.** Press the ◄ button to turn back to previous menu, or the ► button to complete the setting. (&*23*)

---

NOTE  • ALTERNATE MODE dialog can be operated on Main projector, when ALTERNATE is selected on LAMP MODE dialog.

• To maintain quality and reliability of two projectors, it sometimes happens to turn on a projector that has a lamp being used longer time than the one of the other projector even if AUTO is selected.

---

## 3.5 Selecting input source to Sub

**1.** Point at SUB INPUT SOURCE with the ▲/▼ buttons in STACK menu, then press the ► button to display SUB INPUT SOURCE dialog.

**2.** Use the ▲/▼ buttons in the dialog to point at FOLLOW MAIN UNIT or FIXED (COMPUTER IN 1).

**FOLLOW MAIN UNIT** : for setting the input source on Sub projector as same as the one on Main projector.
**FIXED (COMPUTER IN 1)** : for setting the input source on Sub projector to **COMPUTER IN1** port which is connected to **MONITOR OUT** port on Main projector.

**3.** Press the ◄ button to turn back to previous menu, or the ► button to complete the setting. (&*23*)

---

NOTE  • If FIXED (COMPUTER IN 1) is selected, either **COMPUTER IN 1** or **IN 2** port can be selected as an input source on Main projector.  When **COMPUTER** or **VIDEO** button on the remote control or **INPUT** button on the projector is pressed, MAIN INPUT SOURCE dialog will be displayed on screen. Select COMPUTER IN 1 or IN 2 with the ▲/▼ buttons.

 • If FIXED (COMPUTER IN 1) is selected, **COMPUTER IN1** port on Sub projector should be connected to **MONITOR OUT** port on Main projector with a computer cable.  The image that is input from the selected port is output from **MONITOR OUT** port on Main projector and input to **COMPUTER IN1** port on Sub projector.  The setting for MONITOR OUT on Main projector is invalid when FIXED (COMPUTER IN 1) is selected. (&*Operating Guide → SETUP menu*)

• If FIXED (COMPUTER IN 1) is selected, video signals can be input to **COMPUTER IN1** and **IN 2** ports on Main projector.  Set the port which a video signal is input to with COMPUTER IN, and set the video format on VIDEO FORMAT.  Refer to *Inputting image to Sub from Main* (&*28*) and *Inputting image to Sub from Main - Video signal (either COMPONENT or VIDEO)* (&*32*)
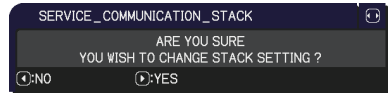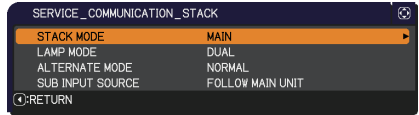
# 3.6 Exiting STACK menu

Before exiting from menu operation for Intellectual Stack, checking all the setting on STACK menu is recommended.  In a dialog from the STACK menu, press the ◄ button to return to the STACK menu.

Refer to the following to exit from menu opereation for Intellectual Stack.

### In the STACK menu

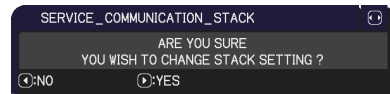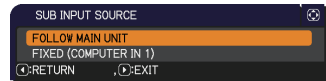When you press the ◄ button (as RETURN) with any setting change, the confirmation dialog will appear.

● Pressing the ► button (as YES) in the dialog saves the setting, and closes the dialog. The screen is turned to black while the setting is activating, so wait for a while.

● Pressing the ◄ button (as NO) in the dialog returns to the COMMUNICATION menu without saving the setting. (📖*Operating Guide → OPTION menu → SERVICE*)

### In a dialog from the STACK menu

When you press the ► button (as EXIT) with any setting change, the confirmation dialog will appear.

● Pressing the ► button (as YES) in the dialog saves the setting, and closes the dialog. The screen is turned to black while the setting is activating, so wait for a while.

● Pressing the ◄ button (as NO) in the dialog closes the dialog without saving the setting.

# 3.7 Important information for Intellectual Stack

This section does not explain the menu operation, but gives you some important information for setting Main/Sub projectors.  Read all carefully.

● If you use Intellectual Stack, one projector must be set to Main and the other to Sub.

● If you pile up two projectors, the control panel of the projector laid underneath cannot be operated, so that it is strongly recommended to set the projector laid underneath to Sub and the other to Main.

● Any keys except **STANDBY/ON** button on the control panel of Sub projector are disabled. Operate the projectors with the control panel of Main projector or the remote control.

● Even if pressing **STANDBY/ON** button of Sub projector, it is not possible to turn off Sub projector only. If you press the button for more than 3 seconds, Main and Sub projectors are turned off.  Even if you press the button, you can turn on neither Main nor Sub projector.

● Main projector can receive the signal from the remote control but Sub projector cannot, so the remote control should be pointed at Main projector.

● If you use a wired remote control, connect the plug to Main projector, not to Sub.

● If you use a simple PC mouse function, connect both of Main and Sub projectors to your computer with USB cables.

● AUTO SEARCH function is disabled while the projector is used in Intellectual stack.

● Sub projector cannot be turned on through network communication to Sub and by Web control on Sub.  Sub projector should be controlled though Main projector.

● Remote Control function on Web Control of Sub projector is disabled. (*Network Guide → 3.11 Remote Control*)

● If the projectors are tried to turn on with using Power on & Display on feature on Messenger function, the projectors will exit from Intellectual stack and display the message accordingly.  If you wish to start Intellectual stack again, select MAIN/SUB again on both projectors in STACK MODE dialog, or turn off and on again for both projectors.

● Main and Sub projectors have common setting for the following.
  - Muting feature (*Operating Guide → Temporarily muting the sound*)
  - Magnifying feature (*Operating Guide → Using the magnify feature*)
  - ASPECT and OVER SCAN (*Operating Guide → IMAGE menu*)
  - COMPUTER IN (*Operating Guide → INPUT menu*)
  - MESSEAGE (*Operating Guide → SCREEN menu*)
  - MY BUTTON (*Operating Guide → OPTION menu*)
  - TEMPLATE (*Operating Guide → SCREEN menu*)

● The following functions are disabled.
   - Executing of AUTO KEYSTONE (&*Operating Guide → SETUP menu*)
   - STANDBY MODE (&*Operating Guide → SETUP menu*)
   - AUTO SEARCH (&*Operating Guide → OPTION menu*)
   - Turning on/off AUTO KEYSTONE (&*Operating Guide → OPTION menu*)
   - DIRECT POWER ON (&*Operating Guide → OPTION menu*)
   - MY SOURCE (&*Operating Guide → OPTION menu*)
   - COMMUNICATION TYPE (&*Operating Guide → OPTION menu → SERVICE → COMMUNICATION*)

● The input source from the following ports cannot be selected.
   - **USB TYPE A**, **USB TYPE B**, **LAN**

● An error message will be displayed if an error is occurred on projectors while operating on Intellectual stack.

When an error is occurred, a full dialog will be displayed on screen.  After around 20 seconds without any key input, the full dialog will be turned to a small dialog.  When a small dialog is displayed, pressing the ◄ button displays a full dialog again.

**Full dialog**

**Small dialog**

A number on projector icon means that "**1**" indicates Main projector and "**2**" does Sub.

Refer to a message on screen as shown below and take a necessary action to solve the problem.

   **Example:**

   **Cover Error**: Lamp cover is opened.

   **Lamp Error**: Lamp does not light up.

   **Fan Error**: Cooling fan has a problem.

   **Temp Error**: Temperature in projector is too high.

   **Air Flow Error**: Check exhaust vent that may be blocked, since temperature in projectore is too high.

   **Filter Error**: Filter timer counts hours more than the setting hours on Filter Message menu. (&*Operating Guide → OPTION menu → SERVICE*)

   **Cold Error**: Air temperature around projector is too low.

● If it is necessary to turn off one of projectors for error handling or anything else, turn off both projectors to start Intellectual Stack correctly when turning on.

● If PIN LOCK or TRANSITION DETECTOR of security function on both projectors are set to ON, the both projectors will turn on once. Input security code for Main first and Sub next. If ALTERNATE mode is selected, one of the projectors will be turned off automatically. (□*Operating Guide → SECURITY menu*)

● If SECURITY function on one of projectors are set to on, it is required to input security code as below, when turning on.

  - In DUAL mode, both projectors will turn on. Input the security code for the projector that is locked by the SECURITY function.

  - In ALTERNATE mode, if a projector locked by the SECURITY function is due to turn on by ALTERNATE mode setting only the projector will turn on, and if not both projectors will turn on. Input the security cord for the projector locked by SECURITY function. After the security lock is released, if two projectors turned on, one of the projectors will turn off.

# 4. Connecting cables

To superimpose two images to one screen, the same image is required to input to Main and Sub projectors. There are some options to input image to the projectors. This chapter shows you such option for connection of cables. Read this chapter to find one that matches to your demand.

> NOTE • If you use Simple Stack without an RS-232C connection, Main and Sub projectors mentioned below do not exist. So, be aware that Main read as a projector and Sub does as the other in this chapter.
> • For detail of input port, specs, connections and so on, refer to *Connecting with your devices* (← 📖*Operating Guide*) and Connection to the ports (← 📖*Operating Guide - Technical*)

## 4.1 Connecting RS-232C cable

If you use Intellectual Stack, connect RS-232C port on Main and Sub projectors with an RS-232C cross cable. (📖*11*) If you use Simple stack, it is not required.

> NOTE • If the cable that connects two projectors working in Intellectual Stack is disconnected, the projectors exit from Intellectual Stack and start to work individually. Even if the cable is just connected again, Intellectual Stack will not restart. Go through the following procedure to restart Intellectual Stack.
> (1) Leave the both projectors unattended for 10 seconds or more after the cable is disconnected, to let projectors recognize that.
> (2) Turn off the both projectors, and allow them to cool sufficiently.
> (3) Reconnect the two projectors with the RS-232C cable, and turn them on again. Then Intellectual Stack will restart.
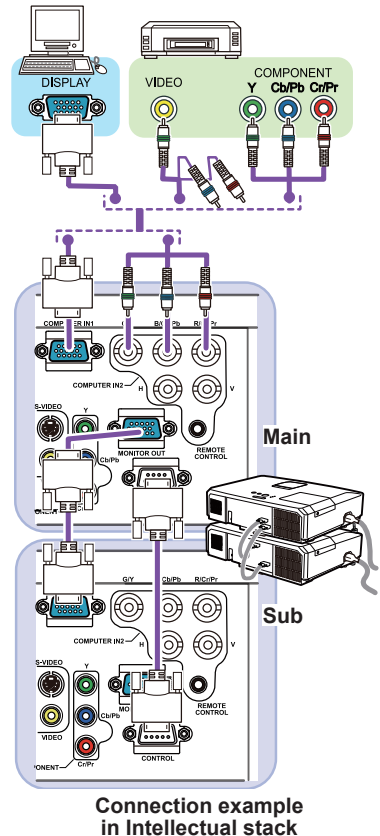
## 4.2 Connecting signal cables

There are two options to input image to Sub projector.  (📖*22, 23*)
- Inputting image to Sub from the **MONITOR OUT** port on Main.
- Inputting image to Sub and Main individually.

### Inputting image to Sub from Main

**1.** Connect the **MONITOR OUT** port on Main to **COMPUTER IN1** port on Sub with a computer cable.

**2.** Connect your image device to one of input port on Main.

**NOTE for Intellectual Stack** • As an input port on Main projector in Intellectual Stack, **COMPUTER IN1** and **IN2** are available.  Do not use other ports for image input.
- If you wish to input a component signal, input it to **COMPUTER IN1** and **IN2**.
- If you wish to input a video signal, input it to **Y** pin of component signal on **COMPUTER IN1** and **IN2**.

**NOTE for Simple Stack** • As an input port on the projector that is connected a computer cable to the ports **MONITOR OUT**, **COMPUTER IN1** and **IN2** that can be output from **MONITOR OUT** port are available. (📖*Operating Guide → SETUP menu*)  If you wish to use other input port, input the image to Sub and Main individually.



**Connection example in Intellectual stack**

### Inputting image to Sub and Main individually

**1.** Split output signal from your image device to two with a signal splitter or something similar.

**2.** Connect your image device to the same input port on Main and Sub projectors.

**NOTE for Intellectual Stack** • As an input port on Main projector in Intellectual Stack, **LAN**, **USB TYPE A** and **USB TYPE B** cannot be used.

**NOTE for Simple Stack** • As an input port on the projectors, any input ports which signal can be split to two are available.

# 5. Setting for input port on menu

## 5.1 Preparing menu operation

If you use Simple Stack without RS-232C cable connection, select the input port that you connect the cables to, pressing **COMPUTER** or **VIDEO** button on the remote control or **INPUT** button on the control panel on both projectors. For setting of the MONITOR OUT, refer to SETUP menu in the *Operating Guide*. Then, the setting is finished.

If you use Intellectual Stack with RS-232C cable connection, the setting or changing anything related to menu operation for Intellectual Stack requires to be done on Main projector. So Main projector should be working for input source setting on Intellectual Stack.

## 5.2 Checking Main projector's operating status

On Intellectual Stack, setting or changing related to menu operation requires to be done on Main projector. Before starting menu operation for Intellectual Stack, check whether or not Main projector is working as below.
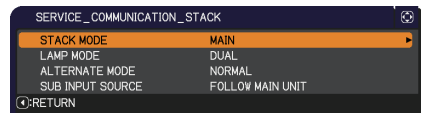
1. Press **MENU** button on the remote control.

2. If MENU dialog as right appears on screen, it is confirmed that the two projectors are working in DUAL mode and Main projector is surely working.
   Go to *5.4 Setting on menu*. (&*31*)
   If the dialog does not appear, LAMP MODE is set to ALTERNATE and either Main or Sub projector is working. Go to next.

3. Using the ▲/▼/◄/► buttons, go down the menu tree as below.

   ADVANCED MENU > OPTION
     > SERVICE > COMMUNICATION
     > STACK

   STACK menu will appear on screen.
   (&*Operating Guide → OPTION menu*).

4. Check STACK MODE setting in STACK menu.
   - If MAIN is shown, it is confirmed that Main projector is working. Go to *5.4 Setting on menu*. (&*31*)
   - If SUB is shown, it is confirmed that Main projector is turned off and Sub is working. Go to *5.3 Starting Main projector*. (&*30*)

## 5.3 Starting Main projector
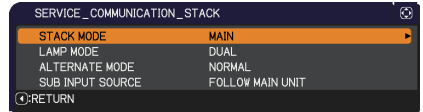
After performing *Checking Main projector's operating status* section, it is confirmed that the two projectors are set to ALTERNATE MODE and Sub projector is working at the moment. Since the setting for Intellectual Stack can be changed while Main projector is working, this section shows you how you can switch from Sub projector to Main.

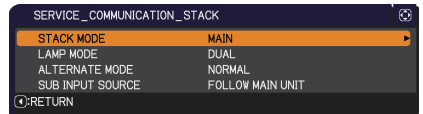1. Using the ▲/▼/◄/► buttons, go down the menu tree as below.

ADVANCED MENU > OPTION
> SERVICE > COMMUNICATION > STACK

STACK menu will appear on screen.
(📖*Operating Guide → OPTION menu*)

2. Check ALTERNATE MODE setting in the menu.

If NORMAL is shown, two projectors are powered on in turn. So, if the stacked projectors are restarted, Main projector will turn on.
(1) Press **STANDBY/ON** button on the remote control or control panel of Main projector, and then Sub projector will turn off.
(2) After cooling down of the projector turn on again with pressing **STANDBY/ON** button. Main projector will turn on this time.

If AUTO is shown, one of projector having a lamp that is shorter usage time is powered on. So, even though the stacked projectors are restarted, Main projector may not turn on. Take the following process to turn on Main projector.
(1) Use the ▲/▼ button to point at STACK MODE, and press the ► button to display STACK MODE dialog.
(2) Use the ▲/▼ button to point at OFF, and then press the ► button to complete the setting. (📖*23*)
(3) Display STACK MODE dialog again with the same process above.
(4) Use the ▲/▼ button to point at SUB, and then press the ► button to complete the setting. (📖*23*)
(5) After exiting, wait for 10 seconds or more.
(6) Press **STANDBY/ON** button on the remote control or control panel of Main projector, and then Sub projector will turn off.
(7) After cooling down of the projector turn on again with pressing **STANDBY/ON** button. Main projector will surely turn on this time, even if AUTO is set on LAMP MODE.

3. Now, Main projector is working, so you can set or change the setting for Intellectual Stack. Proceed to *5.4 Setting on menu*. (📖*31*)

> **NOTE** • If Main projector cannot turn on with an error or something wrong on Main, Sub projector will turn on even if you take the procedure as mentioned above. Take necessary action for Main projector to recover first, and then change the setting for Intellectual Stack.

## 5.4 Setting on menu

If you use Intellectual Stack with RS-232C cable connection, follow the instruction as below. In the case of inputting image from Main to Sub, note that the operation is different if you use computer signal, or video signal such as **COMPONENT** and **VIDEO**.

### Inputting image to Sub from Main - Computer signal

**1.** If STACK menu is already on screen, proceed to **3** below. Otherwise press **MENU** button on the remote control.
If MENU dialog is displayed, use the ▲/▼ buttons to point at MAIN, and press the ► button. Then, a menu appears on screen.
If not, a menu directly appears on screen.

**2.** Using the ▲/▼/◄/► buttons, go down the menu tree as below.
ADVANCED MENU > OPTION
> SERVICE > COMMUNICATION > STACK

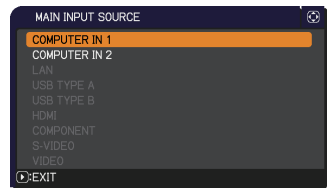STACK menu will appear on screen.
(📖*Operating Guide → OPTION menu*)

**3.** Use the ▲/▼ buttons to point at SUB INPUT SOURCE, and press the ► button to display SUB INPUT SOURCE dialog.

**4.** Use the ▲/▼ buttons to point at FIXED (COMPUTER IN 1) , and press the ► button to complete the setting. (📖*23*)

**5.** Press **COMPUTER** or **VIDEO** button on the remote control or **INPUT** button on the control panel on Main projector, MAIN INPUT SOURCE dialog is displayed on screen. Use the ▲/▼ buttons to point at the source you connected a cable to, and press the ► button to complete the setting.

> **NOTE** • When FIXED (COMPUTER IN 1) is selected, the MONITOR OUT setting is invalid. (📖*Operating Guide → SETUP menu*)
> • When FIXED (COMPUTER IN 1) is selected, only **COMPUTER IN1** and **COMPUTER IN2** can be selected, and other input cannot.
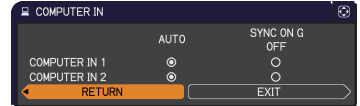> • When FIXED (COMPUTER IN 1) is selected, if any buttons related to input port setting, such as **COMPUTER**, **VIDEO**, **MY SOURCE/DOC.CAMERA** and **MY BUTTON** (if any function related to input source is assigned) buttons on the remote control, and **INPUT** button on the projector is pressed, the dialog to select input source is displayed.

## Inputting image to Sub from Main
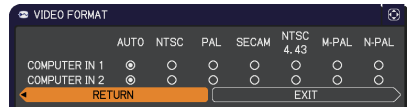## - Video signal (either COMPONENT or VIDEO)

**1.** If STACK menu is already on screen, proceed to **3** below. Otherwise press **MENU** button on the remote control.
If MENU dialog is displayed, use the ▲/▼ buttons to point at MAIN, and press the ► button.  Then, a menu appears on screen.
If not, a menu directly appears on screen.

**2.** Press **MENU** button on the remote control or control panel on Main projector.  Then, using the ▲/▼/◄/► buttons, open COMPUTER IN dialog.  (🕮*Operating Guide → INPUT menu*)

**3.** If you input component signal on either **COMPUTER IN 1** or **IN 2** port, set AUTO at the port.  Then, use the ▲/▼/◄/► buttons to point at EXIT and press the ► button to complete the setting.
If you input video signal on either **COMPUTER IN 1** or **IN 2** port, set VIDEO at the port. If it is necessary to select a video format, use the ▲/▼/◄/► buttons to point at RETUEN and press the ◄ button to display INPUT menu, otherwise use the ▲/▼/◄/► buttons to point at EXIT and press the ► button to complete the setting.

**4.** Select VIDEO FORMAT in INPUT menu to display VIDEO FORMAT dialog.
Select AUTO or appropriate format for the port that you input video signal.
Then, use the ▲/▼/◄/► buttons to point at EXIT and press the ► button to complete the setting.
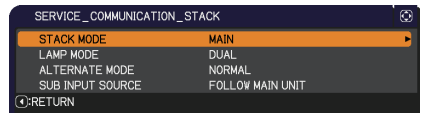
## Inputting image of Sub and Main individually

**1.** If STACK menu is already on screen, proceed to **3** below. Otherwise press **MENU** button on the remote control.
If MENU dialog is displayed, use the ▲/▼ buttons to point at MAIN, and press the ► button.  Then, a menu appears on screen.
If not, a menu directly appears on screen.

**2.** Using the ▲/▼/◄/► buttons, go down the menu tree as below.
ADVANCED MENU > OPTION
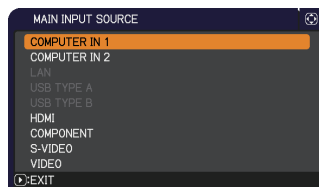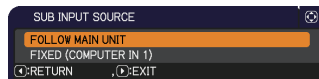> SERVICE > COMMUNICATION > STACK
STACK menu will appear on screen.
(🕮*Operating Guide → OPTION menu*)

*(continued on next page)*

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**3.** Use the ▲/▼ buttons to point at SUB INPUT SOURCE, and press the ► button to display SUB INPUT SOURCE dialog.

**4.** Use the ▲/▼ buttons to point at FOLLOW MAIN UNIT, and press the ► button to complete the setting. (&*23*)

SUB INPUT SOURCE
FOLLOW MAIN UNIT
FIXED (COMPUTER IN 1)
◄:RETURN , ▷:EXIT

**5.** Press **COMPUTER** or **VIDEO** button on the remote control or **INPUT** button on the control panel on Main projector, MAIN INPUT SOURCE dialog is displayed on screen. Use the ▲/▼ buttons to point at the source you connected a cable to, and press the ► button to complete the setting.

MAIN INPUT SOURCE
COMPUTER IN 1
COMPUTER IN 2
LAN
USB TYPE A
USB TYPE B
HDMI
COMPONENT
S-VIDEO
VIDEO
▷:EXIT

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NOTE • When FOLLOW MAIN UNIT is selected, if you set input source on whichever Main or Sub projector, the same input port is automatically set on other projector.
• When FOLLOW MAIN UNIT is selected, **LAN**, **USB TYPE A** and **USB TYPE B** cannot be selected.
• When FOLLOW MAIN UNIT is selected, if any buttons related to input port setting, such as **COMPUTER**, **VIDEO**, **MY SOURCE/DOC.CAMERA** and **MY BUTTON** (if any function related to input source is assigned) buttons on the remote control, and **INPUT** button on the projector is pressed, the dialog to select input source is displayed.

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## 6. Restriction on Schedule function

This model supports schedule function on Web Control feature. (&*Network Guide → 3. Web Control → 3.7 Schedule Settings*)  If you use Intellectual Stack with RS-232C cable connection, there are some restriction on the function.  If you use Simple Stack without RS-232C cable connection, there is no restriction on the function.

Whichever you use Intellectual Stack or Simple Stack, be careful about the schedule settings that you have set before you start to use them, which may cause unexpected change of setting while using them.

See the following for the restriction on Intellectual Stack.  When you use Simple Stack, skip this chapter.

**Restriction on Main projector**

| Functions | | | LAMP MODE | | | |
|---|---|---|---|---|---|---|
| | | | DUAL | ALTERNATE | | DUAL/ ALTERNATE |
| | Projector power | Main | ON | ON | OFF | OFF |
| | | Sub | ON | OFF | ON | OFF |
| Power On | | | ✔ | ✔ | ✔ | ✔ |
| Power Off | | | ✔ | ✔ | ✔ | ✔ |
| Input port change | | | ✔ *1) | ✔ *1) | ✔ *1) | ✔ *1) |
| My Image | | | ✔ | ✔ | X *2) | X *2) |
| Messenger | | | ✔ | ✔ | X *2) | X *2) |
| Slide Show | | | X *3) | X *3) | X *3) | X *3) |

**Restriction on Sub projector**

| Functions | | | LAMP MODE | | | |
|---|---|---|---|---|---|---|
| | | | DUAL | ALTERNATE | | DUAL/ ALTERNATE |
| | Projector power | Main | ON | ON | OFF | OFF |
| | | Sub | ON | OFF | ON | OFF |
| Power On | | | X *3 | X *3 | X *3 | X *3 |
| Power Off | | | ✔ | ✔ | ✔ | ✔ |
| Input port change | | | ✔ *1) | ✔ *1) | ✔ *1) | ✔ *1) |
| My Image | | | ✔ | X *2) | ✔ | X *2) |
| Messenger | | | ✔ | X *2) | ✔ | X *2) |
| Slide Show | | | X *3) | X *3) | X *3) | X *3) |

✔ : The schedule can put into Web Control even if the projector is working in Intellectual stack, and the schedule will be executed.

✔ *1): The schedule setting can put into Web Control while the projector is working

*(continued on next page)*

in Intellectual Stack.  If input port is tried to change to any port that is allowed to use on Intellectual Stack by schedule function the schedule will be executed, but if not the schedule will not be done.

**X** *2): The schedule can put into Web Control even if  the projector is working in Intellectual Stack, but the schedule will not be executed.

**X** *3): The schedule setting cannot put into Web Control while the projector is working in Intellectual Stack.  The schedule will not be executed.

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NOTE  • If the schedule is not executed, an alert message will be sent out in any case in accordance with Schedule Execution Error setting on Web Control. (📖*Network Guide → 3. Web Control → 3.6 Alert Settings*).
• If the schedule function is set to turn off the power, Main and Sub projectors will be turned off when the projectors are working in Intellectual Stack.
• If the schedule function on Main projector is set to turn on the power, the projectors will start to work in accordance with LAMP MODE setting.
• When two projectors are working in DUAL mode, while a projector is displaying some menu on screen the schedule function for My Image and Messenger on the other projector will not be executed.
• Power Off in the chart means that the projector is turned off by settings on Intellectual Stack or by **STANDBY/ON** button on the remote control or control panel of Main projector, and is in standby mode.
• The projectors cannot be turned on by the schedule function on Sub projector. Set it on Main projector if necessary.
• When Sub projector is turned off in ALTERNATE mode, the schedule function on Sub projector to turn off Sub will be executed without an error.

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## 7. Troubleshooting

About the phenomenon confused with a machine defect, check and cope with it according to the following table.

**Phenomena that may be easy to be mistaken for machine defects**

| Phenomenon | Cases not involving a machine defect | Reference page |
|---|---|---|
| Intellectual Stack does not work. | **The electrical power cords are not plugged in Main and Sub.**<br><br>To use Intellectual Stack feature, supply Main and Sub projectors with AC power. If one of the projector is not supplied, Intellectual Stack becomes invalid on the other even if it is supplied with AC power. | 📖*8* in *User's Manual (concise)* |
| | **RS-232C cable is not connected to Main and Sub projector correctly.**<br><br>To use Intellectual Stack, connect Main and Sub projectors with RS-232C cross cable. If not connected, Main projector cannot control Sub. | 📖*11* |
| | **The setting for Intellectual Stack on menu is not done properly.**<br><br>Check the setting on STACK menu on Main and Sub projectors. To use Intellectual stack, STACK MODE must be set to MAIN on one projector and to SUB on the other. | 📖*18* |
| | **Signal cables are not connected correctly.**<br><br>Check the connection of cables. Also confirm that the cable connection and the port setting on menu are matched. | 📖*28*<br><br>📖*10 - 14* in *Operating Guide* |
| Main and Sub do not work collaboratively. | **RS-232C cable is not connected to Main and Sub projector correctly.**<br>Connect RS-232C cable properly and restart Main projector. | 📖*11* |

*(continued on next page)*

| Phenomenon | Cases not involving a machine defect | Reference page |
|---|---|---|
| STACK menu cannot be operated. | **The settings on projectors are not set for Intellectual Stack feature.**<br><br>Check the following settings on Main and Sub projectors.<br>- STANDBY MODE in SETUP menu: NORMAL<br>- COMMUNICATION TYPE in COMMUNICATION in SERVICE menu: OFF<br>- STACK LOCK in SECURITY menu: OFF | 📖7 |
| Projector does not react the remote control. | **The remote control points at Sub projector.**<br><br>When the projector is working on Intellectual Stack, only Main projector can receive the remote control signal.  So, point at Main projector when you use the remote control. | 📖6 |
| Images are not overlapped properly or defocused. | **Two images are not superimposed correctly.**<br><br>Adjust **ZOOM** ring, **VERTICAL** adjuster, **HORISONTAL** adjuster and **FOCUS** ring to superimpose them.<br>If necessary, also adjust PERFECT FIT and KEYSTONE. | 📖8<br><br>📖15 |
| Though you try a fine adjustment, the images from two projectors are not superimposed. | **There is something different on adjustment between two images**.<br><br>Try to resolve it with the following measures.<br>- Press AUTO button of the remote control or execute AUTO ADJUST EXECUTE on each of the projectors.<br>- Adjust H POSITION and V POSITION on each of the projectors.<br><br>- Check RESOLUTION setting on INPUT menu, and if it is different between the two projectors, make it same. | 📖24 in *Operating Guide*<br>📖38 in *Operating Guide*<br>📖42 in *Operating Guide* |