A63 User Quick Setup Guide

@Configure Mode 2（CfgM2）

（Version 1.1）

SHEN VDWALL CO.,LTD
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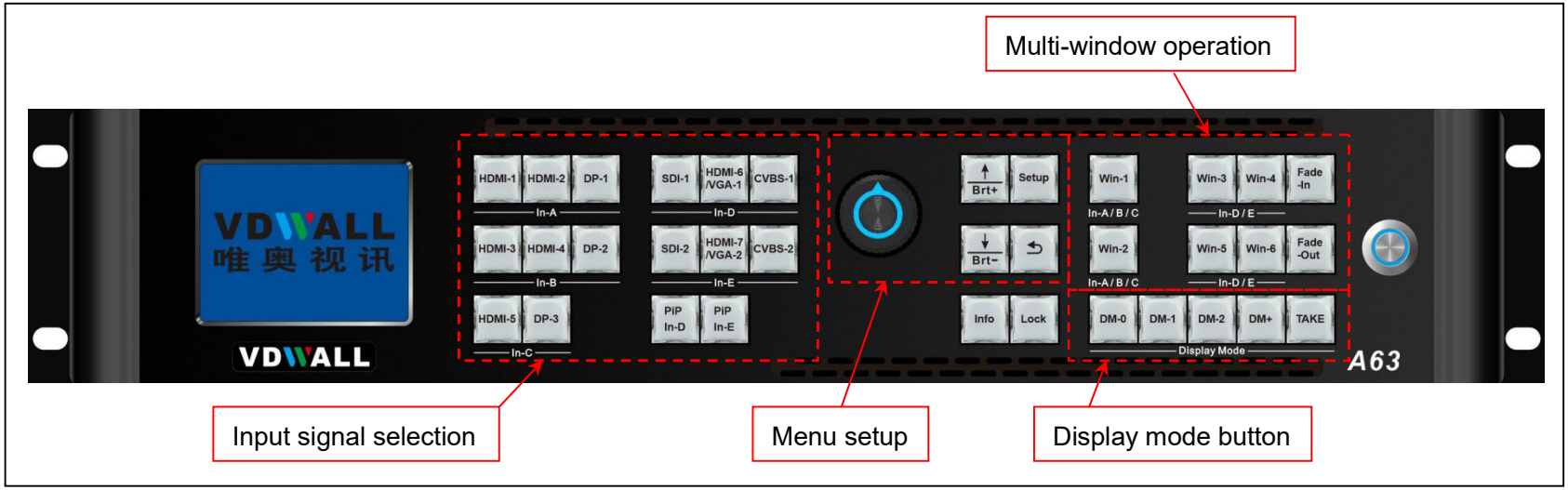
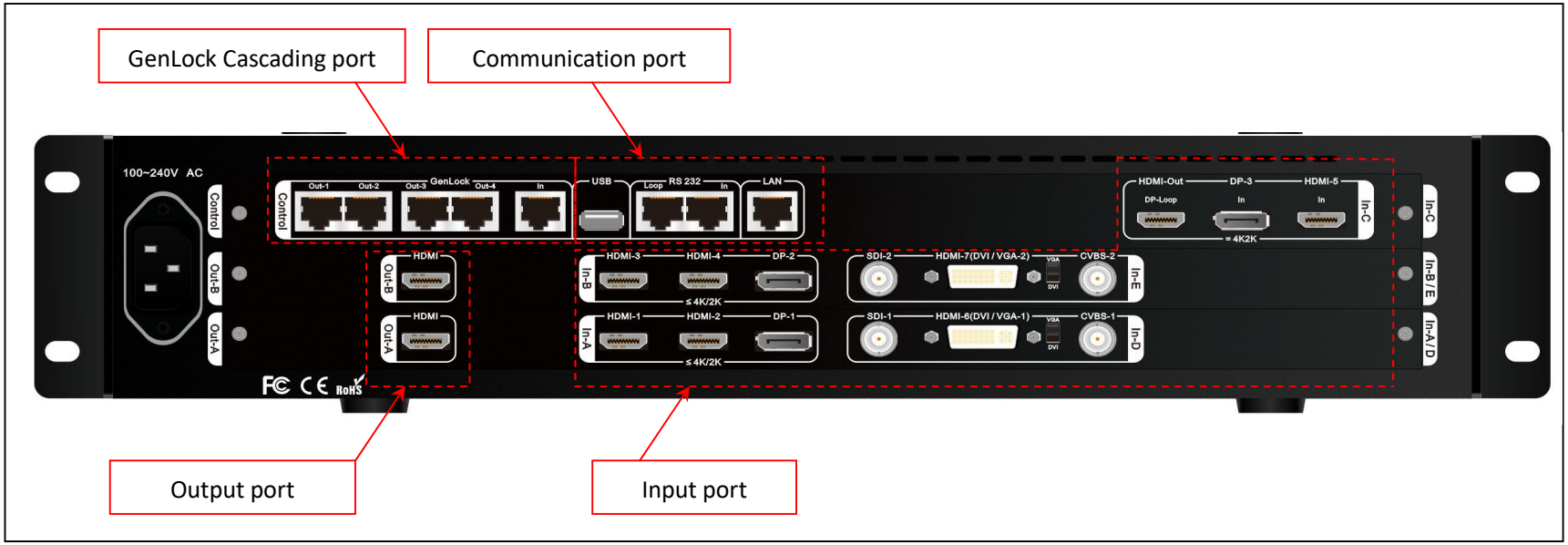
1. Front Button Description



Category	Buttons	Description
Input signal selection	**HDMI-1**、**HDMI-2**、**DP-1**、**SDI-1**、**HDMI-6**、**CVBS-1**、**HDMI-3**、**HDMI-4**、**DP-2**、**SDI-2**、**HDMI-7**、**CVBS-2**、**HDMI-5**、**DP-3**	A63 contains 5 input cards，identified as：**In-A**、 **In-B**、 **In-C**、 **In-D** and **In-E**. **In-A**、**In-B** can access 4K or 2K signal，**In-C** only support 4K2K signal，**In-D**、**In-E** support 2K signal. Press corresponding button to select input channel for each input card, if selected channel have valid signal, button light indicator on, or else, light indicator flicker.
	PIP In-D、 **PIP In-E**	In-D、In-E card support PIP/POP(dual image) function. Press this button directly，button indicator will light up， PIP/POP function will be activated for associated input card. Henceforth, select the sub-image signal.
Multi-win operation button	**Win1**、 **Win3**、 **Win4**、**Win2**、 **Win5**、 **Win6**	Window selection button. **A63** in **CfgM2** , supports 4 window display simultaneously，identified as Win1、 Win2、Win3、Win5. In operation mode，press this button directly to assign target window at bottom or on top. In configuration mode, user firstly select target window, then configure the window parameters, including image Position&Size、image quality etc.
	Fade-In、 **Fade-Out**	**Fade-Out** , set window on top; **Fade-In** set window at bottom, usually used in Multi-window overlay display. In **CfgM2**，A63 supports 4windows overlay display. First select **Fade-Out** or **Fade-In** button, then pressing **Win-1**、**Win-2**、**Win-3** or **Win-5** button, set corresponding window on top or at bottom.
Lock Info button	**Lock**	Button lock. When this button light up，all button will be invalid except **Lock** button itself, hence avoid misoperation. Press this button 3 times continually to exit button lock mode, button indicator will light off.
	Info	Information button，display A63 configuration data and software version etc, press this button to turn page. In Cascading mode, when slave **A63** GenLock successfully locked, Info button light up,

Category	Buttons	Description
Menu setup button	**Setup**	Menu button. When A63 in **operation mode**， press this button to enter **menu setup.**
	 **Ok**	**Knob** button, rotate this button to change configuration value or press this button to confirm and apply configuration.
		Up and Down selection button. After enter **menu setup**, press this button to select menu item. When A63 in **operation mode**, press this button directly to adjust output image brightness.
		Return button. Press this button to exit present menu and return to previous menu， until A63 exit **menu setup** and enter **operation mode**.
Display mode selection button	**DM-0**、 **DM-1**、**DM-2**	Display mode selection button. Preset display mode parameters include: ***window composition,window signal source,window overlay sequence,window Position&Size***， In **operation mode**, press **DM-0**、**DM-1**、**DM-2** to switch different display mode；In **menu setup mode**，press **DM-0**、**DM-1**、**DM-2** to save present setup parameters automatically at target mode.
	DM+	Extended display mode selection button，press this button to enter more preset mode selection menu, the menu includes：DM0、DM1、DM2、DM3、DM4、DM5、DM6、DM7、DM8、DM9、DM10、DM11. Select target display mode by pressing ↑ 、↓ button.
	TAKE	When **A63** in **CfgM2**, this button is invalid.

2. Back Panel Port Description



1） Input signal port

A63 can build in 5 input cards utmost：

- In-A、In-B is 4K input card，each card contains HDMI2.0×2 and DP1.2×1，support 4K2K_60Hz UHD Signal and 2K HD signal access in
- In-C is 4K input card，contains HDMI2.0×1 and DP1.2×1，only support 3840*2160_60/50/30/25/24 Hz UDH signal
- In-D、In-E is 2K input card，each card consists of CVBS×1、3G-SDI×1、HDMI（DVI / VGA）×1 ，HDMI version is 1.3 . HDMI input port is compatible with DVI、VGA signal，when access in VGA signal，set the DIP switcher to VGA side

2） Output signal port

- **A63** provides 2 HDMI output port，identified as OUT-A、OUT-B. Both ports support output resolution 3840*2160_60Hz or 3840*2160_50Hz
- **In configuration mode 2(CfgM2)**, Out-A and Out-B display identical image

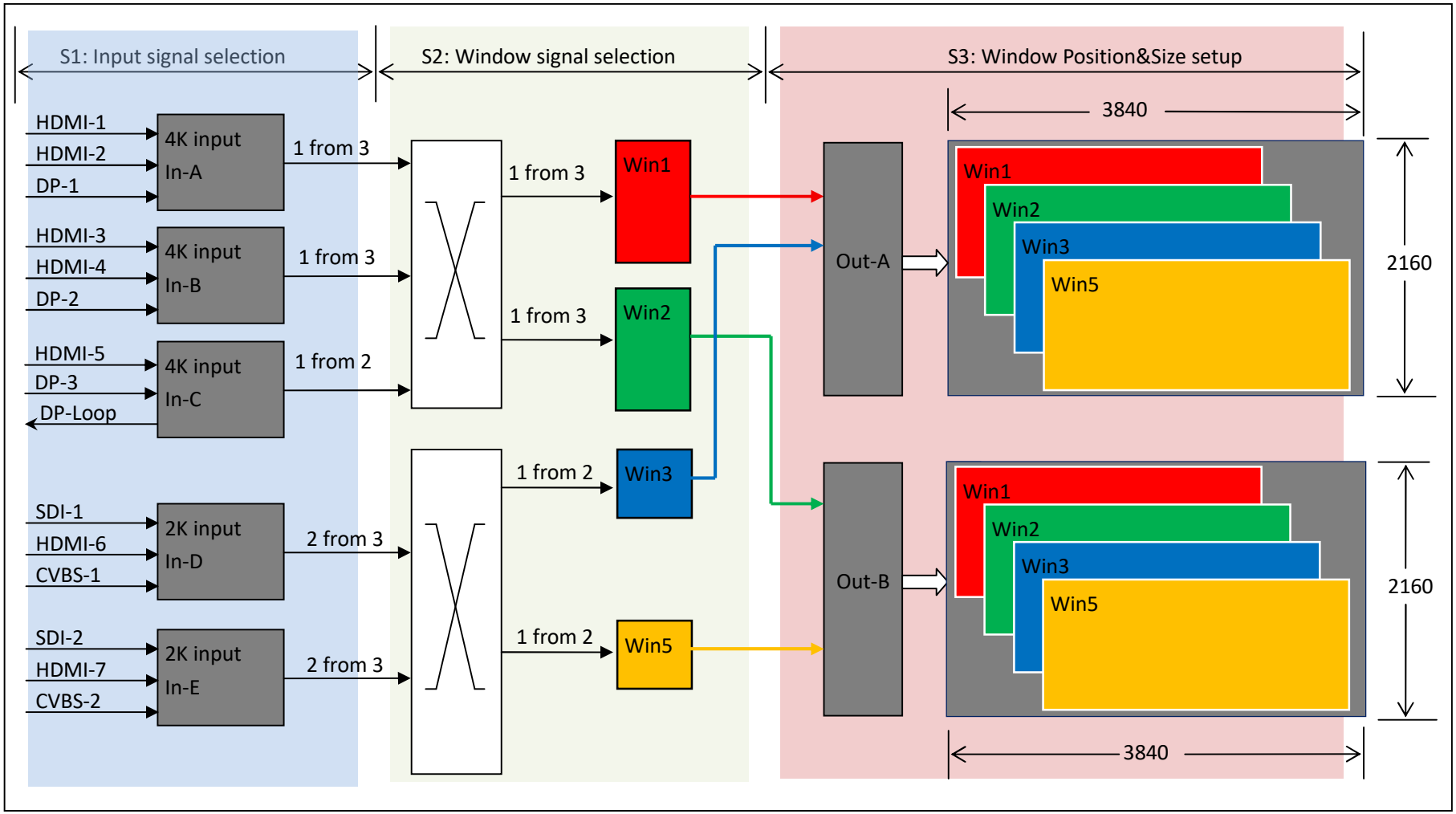
3） Communication port

- LAN：TCP / IP Enthernet control port
- USB and RS232 control port

4） GenLock Cascading port

- **A63** support multi-device cascading，realize extended input and output resolution driving
- In cascading mode, slave **A63** receive synchronous command from master **A63** VIA GenLock In port, master **A63** send out synchronous command VIA GenLock Out port
- **A63** provides Out-1、Out-3、Out-3、Out-4 total 4 GenLock output，supports 5 device cascading.

3. In CfgM 2 Mode, A63 Image Processing Procedure



Description:

1）A63 image processing procedure is divided into 3 main steps：

S1：Select input signal channel for input card

S2：Select signal source for Multi-window

S3：Adjust Position&Size of Multi-window

2）Select input signal channel for input card（S1）

2.1）**A63** contains 3 types of input card：

4K input card：In-A 、In-B

4K direct input card：In-C

2K input card：In-D、In-E

2.2）In-A support both 4K and 2K input，select one channel from HDMI-1、HDMI-2 or DP-1 for In A

2.3）In-B support both 4K and 2K input，select one channel from HDMI-3、HDMI-4 or DP-2 for in B

2.4）In-C is direct 4K input，can only access in 3840×2160_60Hz/50 Hz/30 Hz/25 Hz/24Hz standard 4K UHD signal, select HDMI-5 or DP-3 for In C

2.5）In-D is 2K input card，can select signal from SDI-1、HDMI-6 or CVBS-1. when open PIP-D，can select one another channel as sub image

2.6）In-E is 2K also input card，can select signal from SDI-2、HDMI-7 or CVBS-2. when open PIP-E，can select one another channel as sub image

2.7）All the signals mentioned above can be selected by **A63** front panel button

3）Select signal source for each window（S2）

3.1） **A63 In configuration mode 2(CfgM2)，A63** support 4 windows display，Win1、Win2、Win3、win 5

3.2） Win1、Win2 can select signal source from In-A、In-B or In-C

3.4） Win3、Win5 can select signal source from In-D or In-E

4）Adjust Position&Size of each window（**S3**）

4.1）Out – A display Win1 、Win2，Win3、Win5 4 images

4.2）In **CfgM2** mode，Win1、Win2、Win3、Win5 can randomly set Position&Size within 4K2K

In **CfgM2** mode，Win1、Win2、Win3、Win 5 can randomly set overlay sequence

In **CfgM2** mode，Out-A Out-B display identical image

4. Menu Setup

A63 supports 3 configuration mode：

Configuration mode 0（CfgM0） ------ Switcher mode

Configuration mode 1（CfgM1） ------ Mosaic mode

Configuration mode 2（CfgM2） ------- 4 image mode

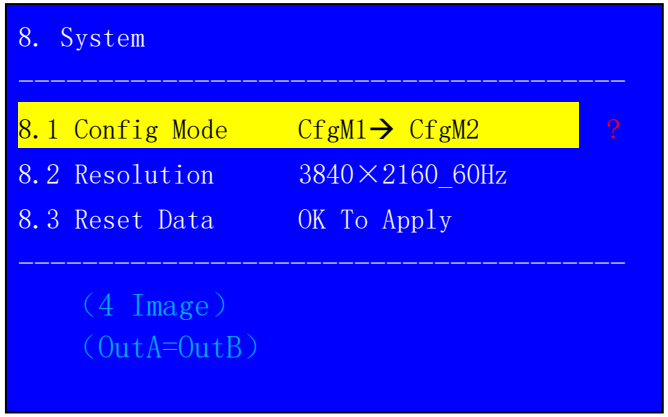


Figure 4-1

- Detailed description of 3 configuration mode please refer to 《A63 configuration mode definition》

- When A63 in operation mode， press **Setup** button to enter setup menu，
  press ↑ 、↓ and **Setup** enter "*8.1 Config Mode*"
  Rotate **Knob** to select configuration mode，

  then press ↓ button， enter "*8.3 Reset Data*"， press **OK** to apply，
  A63 will automatically reboot and apply the selected configuration mode

- Usually no need change A63 configuration mode unless in essential

- Usually， user need adjust "*8.2 Resolution*". A63 provides 2 output resolution：
  3840×2160_60Hz、3840×2160_50Hz

- When apply "*8.3 Reset Data*"， all existed configuration data in A63 will be initialized and reset to default values.

  In the following paragraph, we will illustrate configuration mode 2（CfgM2） step by step

（Step1）：Input And Output Signal Conection

1.1） Connect input signal to **A63** input card

1.2） Connect OUT-A to main screen, usually LED screen

1.3） Connect OUT-B to 4K LCD monitor

1.4） Usually，system connection as Figure 4-2：

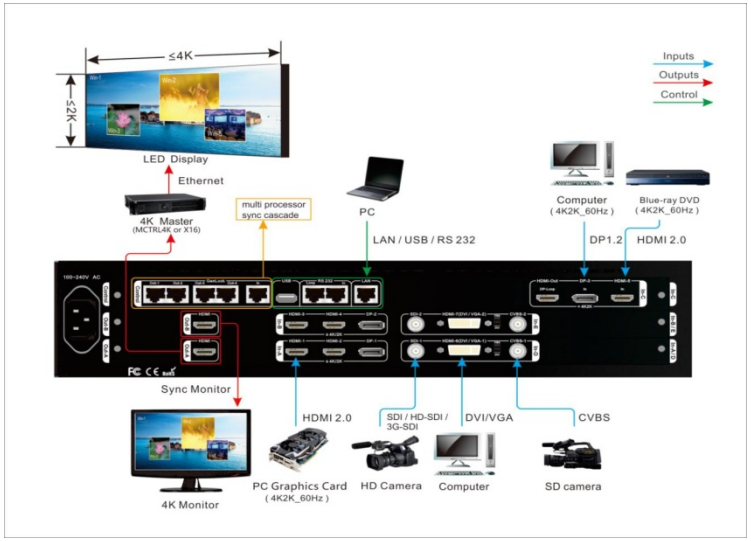


Figure 4-2

（Step2）：Power On Processor

2.1） **A63** power on, wait for boot up

2.2） As Figure 4-3， **Configuration mode 2** boot up image

2.3） Win1 select In-A as signal source
Win 2 select In-A as signal source
Win 3 select In-D as signal source
Win 5 select In-D as signal source

2.4） Win5 -> Win3 -> Win2 -> Win1 standards for overlay order, Win5 on top, win1 at bottom

2.5） Display mode 0（DM0）

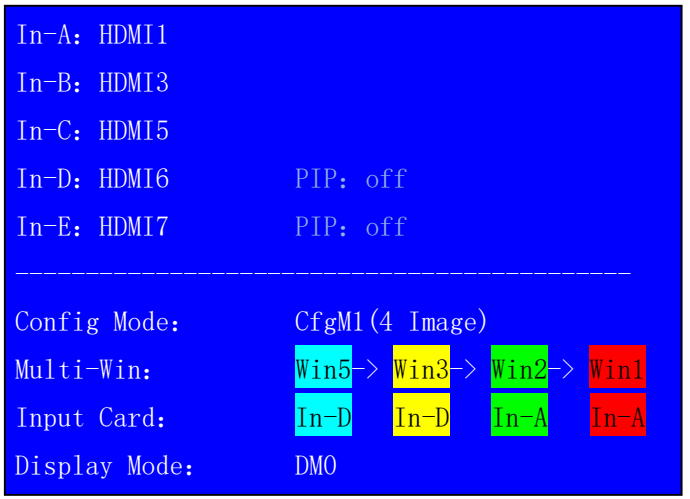


Figure 4-3

（Step3）：Select Input Signal

3.1）Press signal selection button to select input signal channel

3.2）If selected channel have valid signal, button indicator will light up, or else, button indicator will flicker

3.3）If selected signal channel have valid signal, **A63** LCD will display the input signal format

3.4）Press **PIP In-D** button to activate In-D PIP/POP function， select the sub image signal source for In-D

3.5）Press **PIP In-E** button to activate In-E PIP/POP function， select the sub image signal source for In-E

（Step4）：Window Source Selection

4.1）Press **Setup** 、↓、↑ button enter menu "*3.2 Win1 Source*" ,
rotate **Knob** to select Win1 signal source

4.2）Similarly, select Win2、Win3、Win5 signal source

4.3）All above configuration data is saved in "DM0" ,
As Figure 4-4 red frame show, current display mode is "DM0",
press **DM-1**、**DM-2** or **DM+** button to select other display mode
.

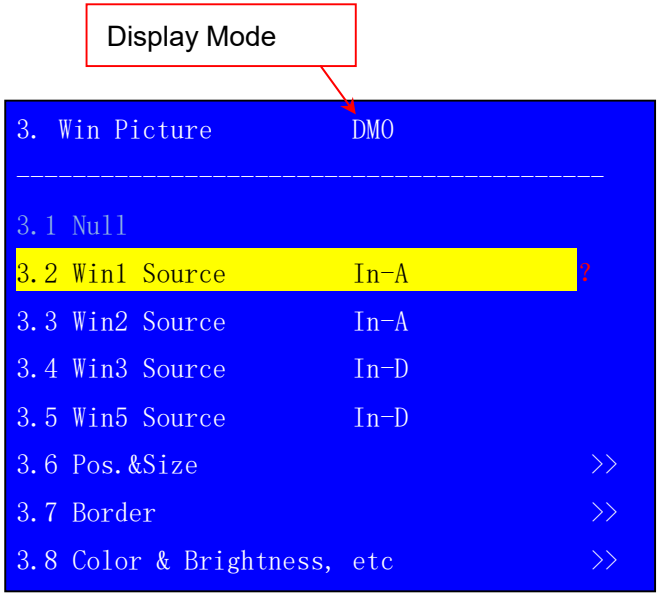


Figure 4-4

（Step5）：Multi-Window Position&Size Setup

5.1）**A63 in display mode 2**（**CfgM2**），

Win1、Win2、Win3、Win5 Position&Size is adjustable

5.2） Window position is identified by coordinates, the start point is top left(0.0), position range within 3840×2160，

defined as：

H_Start (Horizontal start)

V_Start (vertical start)

5.3） window size defined as Width and Height

5.4） As Figure 4-5 , Win3 size and position setup

5.5） Refer to Figure 4-5, Win1 position is（0，0），size is 3840×2160， whole image display

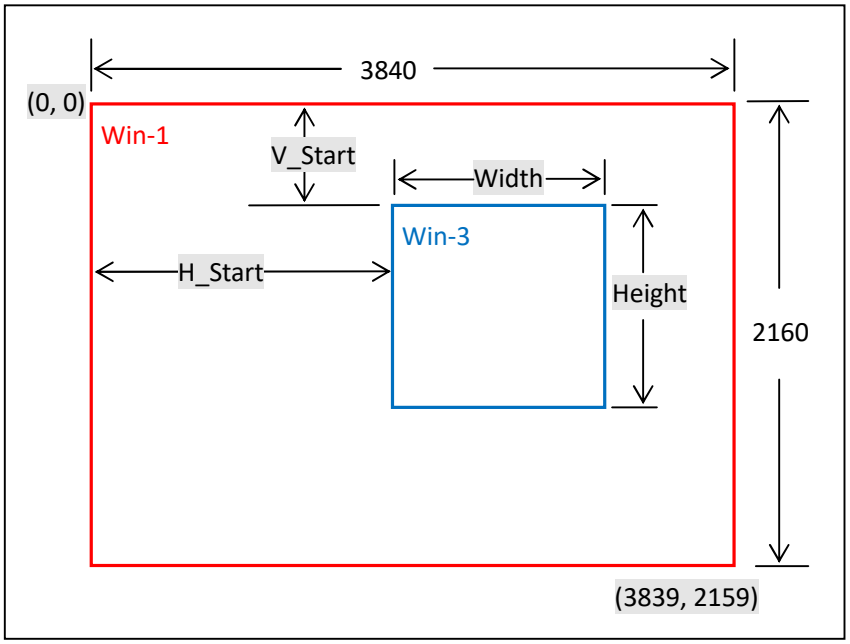


Figure 4-5

5.6） Enter menu "*3.6 Pos.&Size*" ， as Figure 4-6

5.7） press **Win-1**、**Win-2** 、**Win-3** 、**Win-5** button to select target window
（As Figure 4-6：the selected window is Win2）

5.8） Press **DM-0**、**DM-1**、**DM-2** 、**DM+** to select display mode
（As the Figure 4-6, the red arrowhead select DM0）

A63 can preset 12 display modes

5.9） Enter menu "*3.6.1 Out Width*"， rotate **Knob** to adjust value，
press **OK** to save setup value

5.10） Enter menu "*3.6.2 Out H_Start*"， rotate **Knob** **to** adjust value，
press **OK** to save setup value

5.11） Enter menu "*3.6.3 Out Height*"， rotate **Knob** to adjust value，
press **OK** to save setup value

5.12） Enter menu "*3.6.4 Out V_Start*"， rotate **Knob** to adjust value，
press **OK** to save setup value

5.13） Repeat procedure 5.7）-5.12）, adjust the other window's Position&Size（**Win-n**）
save more multi-window display mode **DM-n**

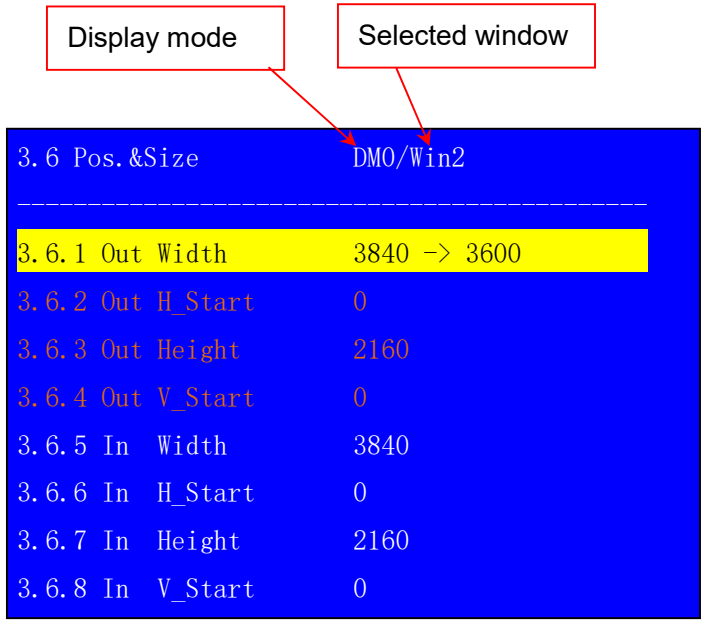


Figure 4-6

（Step6）：Input Signal Image Cropping

6.1）Win1、Win2 can arbitrarily crop 4K2K input image at any Position&Size

6.2）As the Figure 4-7, the input image size in red frame is 3840×2160, the Position&Size of cropped image in red dot frame are defined by the following 4 parameters:

Input width （In_Width）
Input horizontal start （In_H_Start）
Input height （In_Height）
Input vertical start （In_V_Start）

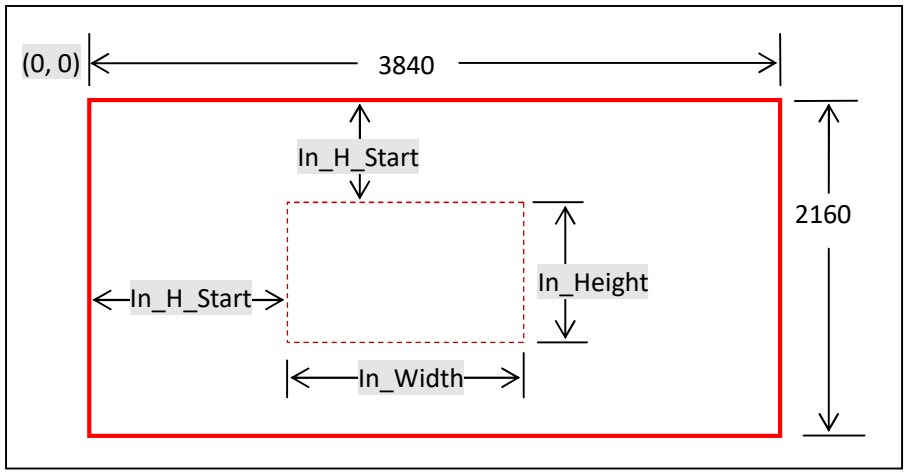


Figure 4-7

6.3） Enter menu "*3.6 Pos.&Size*"， as Figure 4-8

6.4） Press **Win-1** button to set target window,（as the Figure 4-8： Win2）
A63 can crop any Position&Size of input signal

6.5） Press **DM-0**、**DM-1**、**DM-2** 、**DM+** to select the target preset mode, all parameters will be automatically saved in this mode
（As the right picture, the selected mode is DM0）
A63 can preset maximum 12 display modes

6.6） Enter menu "*3.6.5 In Width*"， rotate **Knob** to adjust value，press **OK** to save setup value

6.7） Enter menu "*3.6.6 In H_Start*"， rotate **Knob** to adjust value，press **OK** to save value

6.8） Enter menu "*3.6.7 In Height* "， rotate **Knob** to adjust value，press **OK** to save value

6.9） Enter menu "*3.6.8 In V_Start*"， rotate **Knob** to adjust value，press **OK** to save value

6.10）Repeat procedure 6.5）-6.12）, adjust the other window Position&Size（**Win-n**）save more multi-window display mode **DM-n**

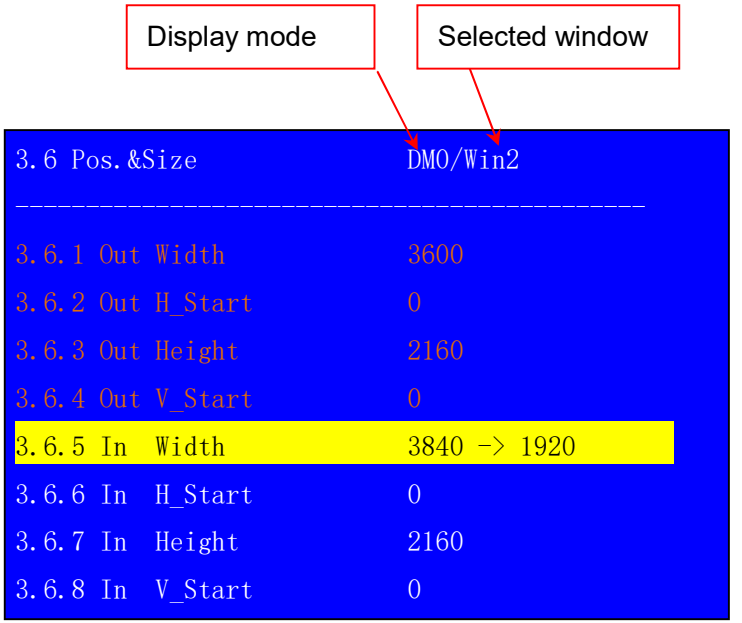


Figure 4-8

5. A63 Common Operation

（1） A63 Display Mode switching

- A63 in 4 image mode， user may preset several display mode. For instance, 4 layers overlay or overlapped display.
- Press button **DM-0**、**DM-1**、**DM-2** ， Out-A and Out-B will instantly apply display mode without any latency.
- Press **DM+** button for more display mode selection，press ↑ 、↓ button to select DM0、DM1、DM2、DM3、DM4、DM5、DM6、DM7、DM8、DM9、DM10 or DM11，then press **OK** button to apply the selected mode.

（2） Display mode duplication

- Display mode can preset parameters that consists of window composition、signal source and overlay sequence
- A63 provides 12 preset display modes, please refer to chapter *4 Menu Setup* to configure different display mode. In pursuit of fast modify and save display mode, we may use mode duplication function to copy current DM to target DM, then modify current mode efficiently
- Press **DM+** and ↑ 、↓ button, select "*Source Mode DM0*" , rotate **Knob** to select source mode
- Press ↓ button， enter " *Destination Mode DM1*"， rotate **Knob** to select target mode
- Press ↓ button ， enter "*Copy OK To Apply* "， press **OK** button， mode duplication accomplish
- Source Mode and Destination Mode can be selected from DM0-DM11, be aware that DM9-DM11 as backup mode can't be edited directly, but permit being modified by duplication, hence to avert important display mode destroyed by misoperation

（3） Assign image on top or at bottom

- A63 in **A63** in **CfgM2 ,** supports 4 window display simultaneously， identified as Win1、Win2、Win3、Win5. 4 Window randomly arrange overlay order

- Firstly press **Fade-In** or **Fade-Out** button

- Secondly press **Win-1**、**Win-2**、**Win-3** or **Win-5** button to assign target window at bottom or on top

- Enter menu "*6. Switch Time Cut*" , rotate **Knob** to configure switching time， including：

  Cut

  Fade 1S

  Fade 2S

  Fade 3S