A65

4K Mosaic Processor

User Manual V1.1
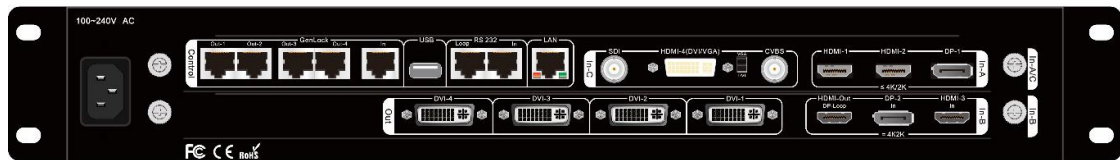
Contents

Chapter 1: Safety precautions

⚡ Danger !

There is high voltage in the processor, to prevent any unexpected hazard, please do not open the cover of the device,unless you are a maintenance personnel.

⚠ Warning !

1) This device shall not encounter water sprinkle or splash, please do not place anything containing water on this device.

2) To prevent fire, keep this device far from any fire source.

3) If this device gives out any strange noise, smoke or smell, please immediately unplug the power cord from receptacle, and contact local dealer.

4) Please do not plug or unplug DVI signal cable if the device is powered on.

⚠ Caution !

1) Please thoroughly read this manual before using this device, and keep it safe.

2) In the event of lighting or when you are not going to use the device for a long time, please pull the power plug out of receptacle.

3) Nobody other than professional technicians can operate the device, unless they have been appropriately trained or under guidance of technicians.

4) To prevent equipment damage or electric shock, please don't fill anything in the vent of the device.

5) Do not place the device near any water source or anywhere damp.

6) Do not place the device near any radiator or anywhere under high temperature.

7) To prevent rupture or damage of power cords, please handle and keep them properly.

8) Please immediately unplug power cord and have the device repaired, when

    1. Liquid splashes to the device.

    2. The device is dropped down or cabinet is damaged.

    3. Obvious malpractice is found or performance degrades.

Chapter 2：Packing list

Please unpack the product with care, and then check whether all the following items are included in the package. If anything is missing, please contact the dealer or distributor.

Standard accessories;

The accessories supplied with this product may differ from the following pictures, but they are applicable for the regions where you live (LED sending card is optional accessory)

1.5m Power cable X1	1.5m DVI cable X1 DVI to HDMI adapter X1	0.5m DVI cable X4
1.5m HDMI cable X1	DVI-I to VGA adapter X1	1.5m DP cable X1
Product data U disk X1	Quick operation instruction X1	1.5m USB cable X1

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3

Chapter 3：Hardware connection

3-1 Rear panel signal port overview
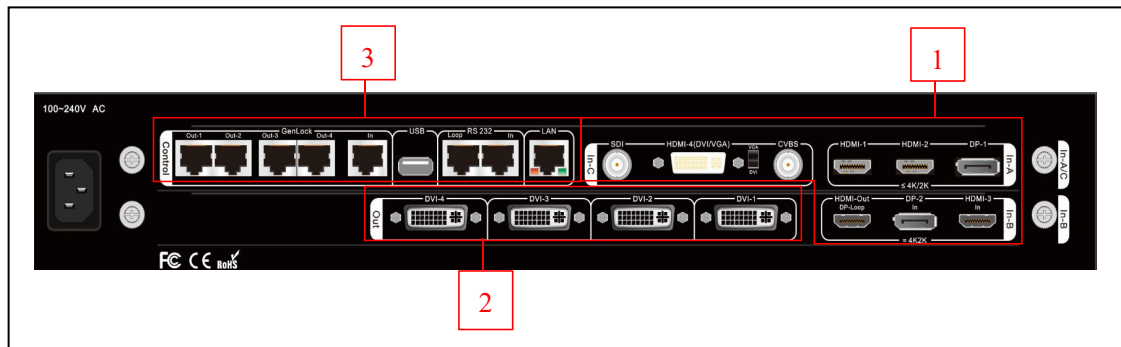
Picture 3-1　Rear panel signal port

①Video input port　　　②Video output port　　　③Communication port

3-2 Port description

1.　Video signal input

A65 include 3 video input cards, the series numbers are In-A、In-B、In-C.

In-A is 4K input card;

In-B is 4K direct input card;

In-C is 2K input card;

2K input card constitutes 4 input channels, signal input port description as the following table：

Ports	Description
CVBS	1 channel of PAL/ NTSC format composite video input
HDMI(DVI/VGA)	1 channel of HDMI1.3 digital signal input（compatible with DVI，can access in VGA input via switch beside the port）
SDI	1 channel of SDI digital serial signal input

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4

4K input card provides 3 input channel, input port description as the following table:

Ports	Description
HDMI	2 channel of HDMI2.0 digital input
DP	1 channel of DP1.2 digital input

4K direct input card input port description as the following table:

Ports	Description
HDMI	1 channel of HDMI2.0 digital signal input (only support 4K input)
DP	1 channel of DP1.2 digital signal input (only support 4K input)
HDMI Out	DP1.2 Loop out signal of this card

2. Video signal output

A65 offers 4 DVI outputs, output port description as the following table:

Ports	Description
DVI-1 ~ DVI-4	4 channels of DVI output ports, connect to LED sending card or LCD monitor .

3. Communication port

Ports	Description
LAN	Local area network TCP/IP network control port
USB	USB communication port
RS232 In	Serial communication port, RS232 electrical level，connect to PC RS232 port，for PC software control
RS232 Out	RS 232 cascading output port, RS232 electrical level，several processors can be controlled by single PC
GenLock In/Out	Sync lock frame signal, input and output

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5

3-3 Hardware connection diagram
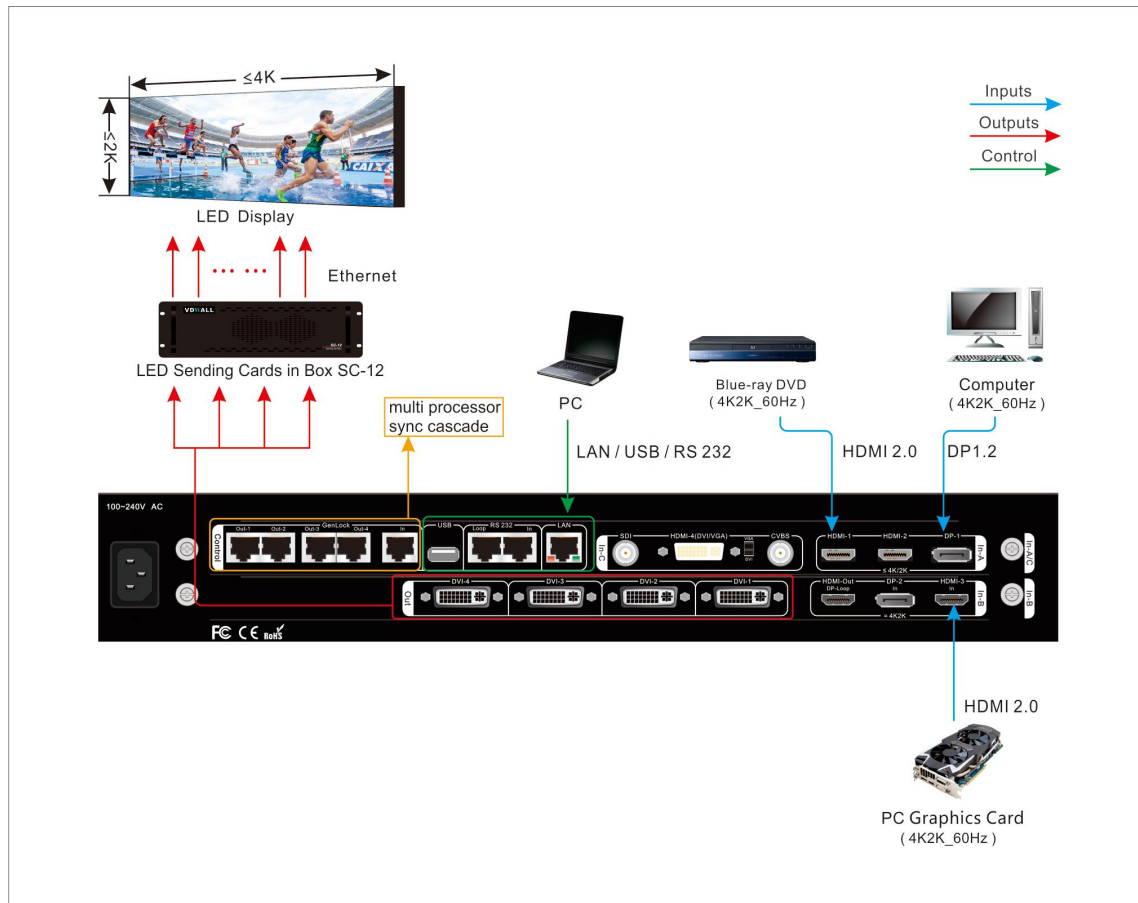
Picture 3-2   Hardware connection diagram

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6

3-4 Technical specification

Input signal index		
Quantity / type	3×HDMI 2.0（VESA/CEA-861） 2×DP1.2（VESA） 1×CVBS 1×DVI-I（VESA/CEA-861，support VGA/DVI/HDMI 1.3a） 1×SDI（SDI/HD-SDI/3G-SDI）	
Composite video format	PAL/NTSC	
Composite video amplitude / Impedance	1V（p_p）/ 75Ω	
VGA format	PC（VESA）	≤1920×1200_60Hz
VGA amplitude / Impedance	R、G、B = 0.7 V（p_p）/ 75Ω	
DVI /HDMI format	PC（VESA）	≤1920×1200_60Hz
	HDMI1.3（CEA-861）	≤1080p_60Hz
SDI format	SMPTE259M-C SMPTE 292M SMPTE 274M/296M SMPTE 424M/425M	480i_60Hz 576i_50Hz 720p、1080i、1080p
HDMI 2.0 (HDCP 2.2）	PC（VESA）	≤4096 x 2160_60Hz
	HDMI2.0（CEA-861）	
DP1.2 (HDCP 2.2）	DisplayPort1.2（VESA）	≤4096 x 2160_60Hz
Input port	VGA：24+5 DVI_I　　　HDMI 2.0：HDMI type A CVBS：BNC　　　　　DP：DP port DVI：24+5 DVI_I　　　　SDI：BNC/ 75Ω	
Output signal index		
Quantity / type	4×DVI	
DVI format	2160X1160_50Hz、2048X1200_50Hz、1920X1200_50Hz、 1920X1080_50Hz、1680X1440_50Hz、1440X1680_50Hz、 1200X1960_50Hz、1200x1600_60Hz、1440x1440_60Hz、 1600x1344_60Hz、1920×1080_60Hz、2160x960_60Hz、 User-defined output resolution	
Output port	DVI OUT：24+1 DVI_D	

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7

Others	
Control port	RS232/USB/LAN
Input voltage	100-240VAC 50/60Hz
Rated power consumption	35W
Ambient temperature	0-45 ℃
Ambient humidity	15-85%
Product size	482.6(L) x 380(W) x 66.6(H)mm
Packing size	535(L) x 475(W) x 145(H)mm
Weight	G.W：8.5Kg, N.W：6.0Kg

3-5 Installation dimension
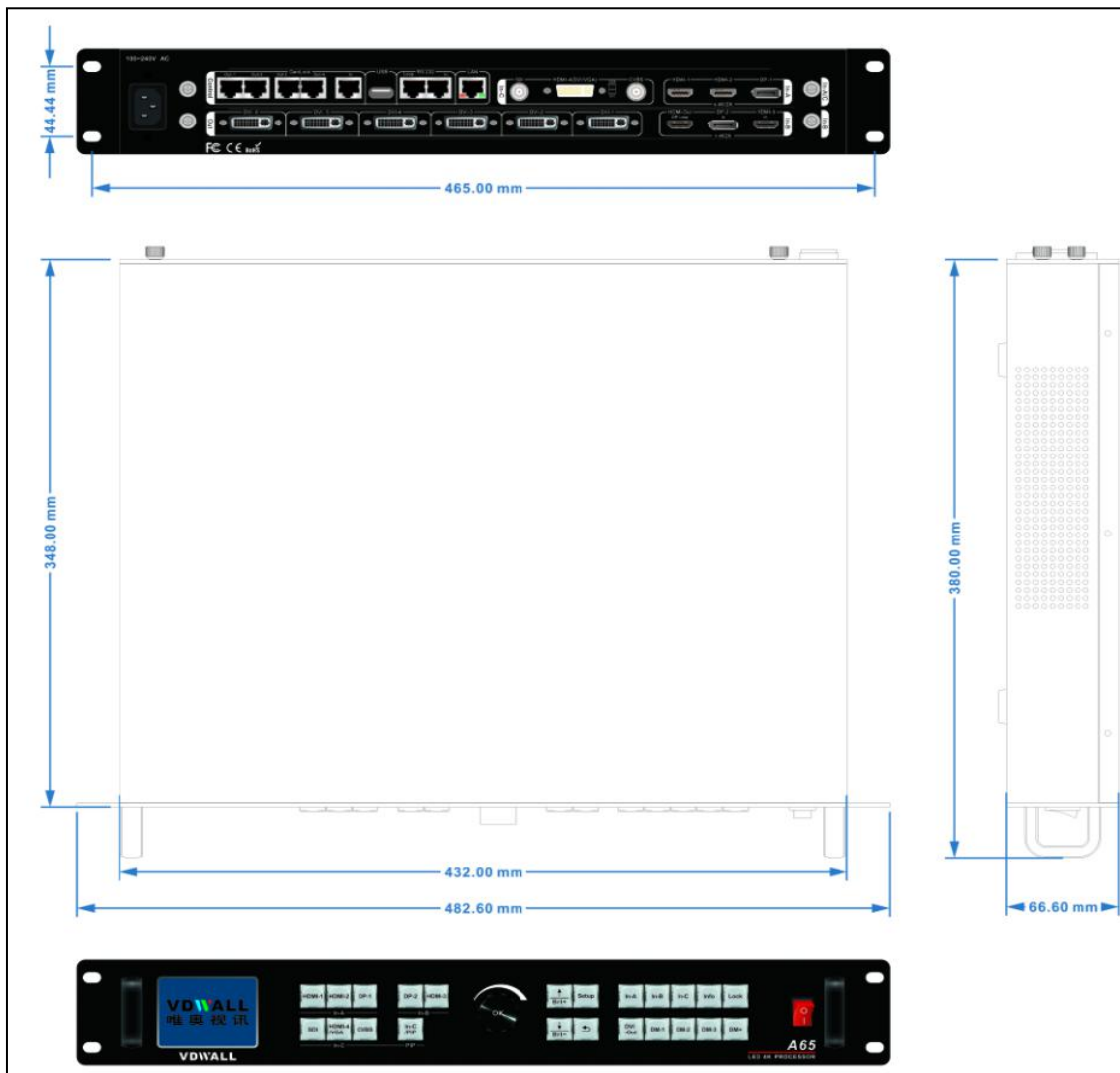
Picture 3-5a   Installation dimension drawing

RS232 connection cable and wire order

Note: 1. A is RS232 female connector

2. B is RJ45 connector

3. Accord with emergency decree,

The wires must be soft
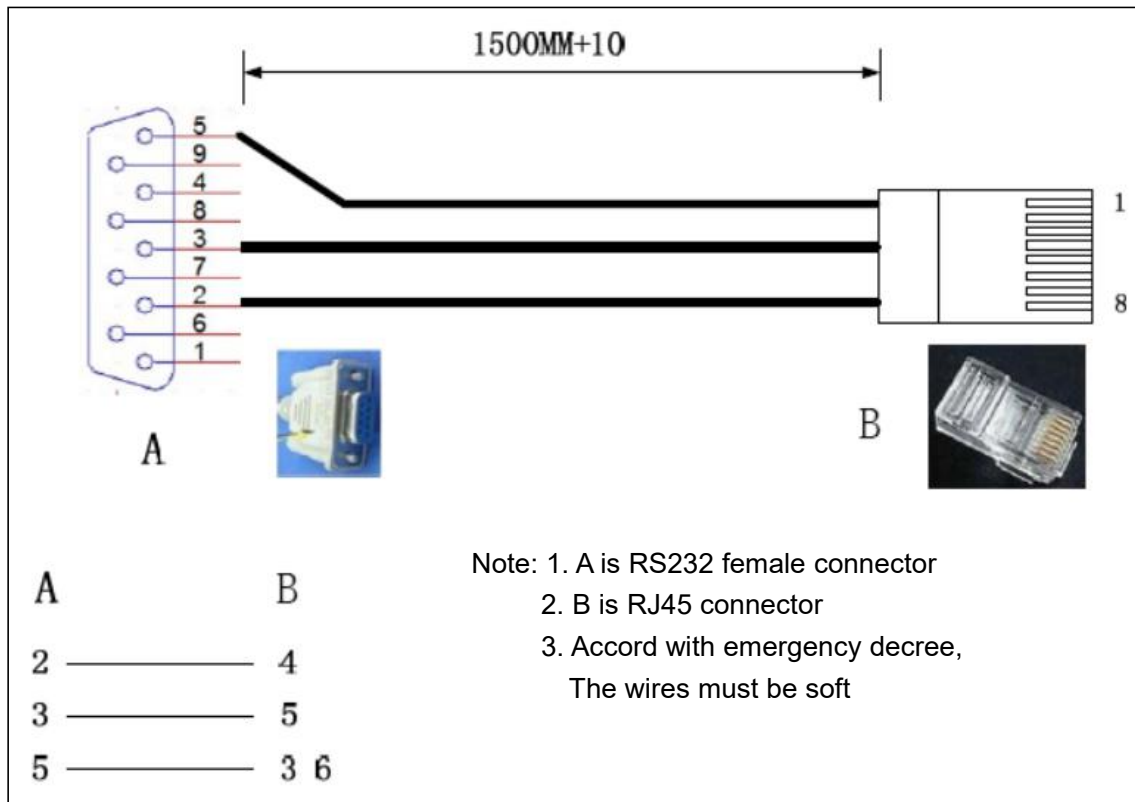
Picture 3-5b   RS232 connection cable and wire order

Genlock network connector wire order

A port: (standard 586B): white orange, orange, white green, blue, white blue, green, white brown, brown.

B port: (standard 586B): white orange, orange, white green, blue, white blue, green, white brown, brown.
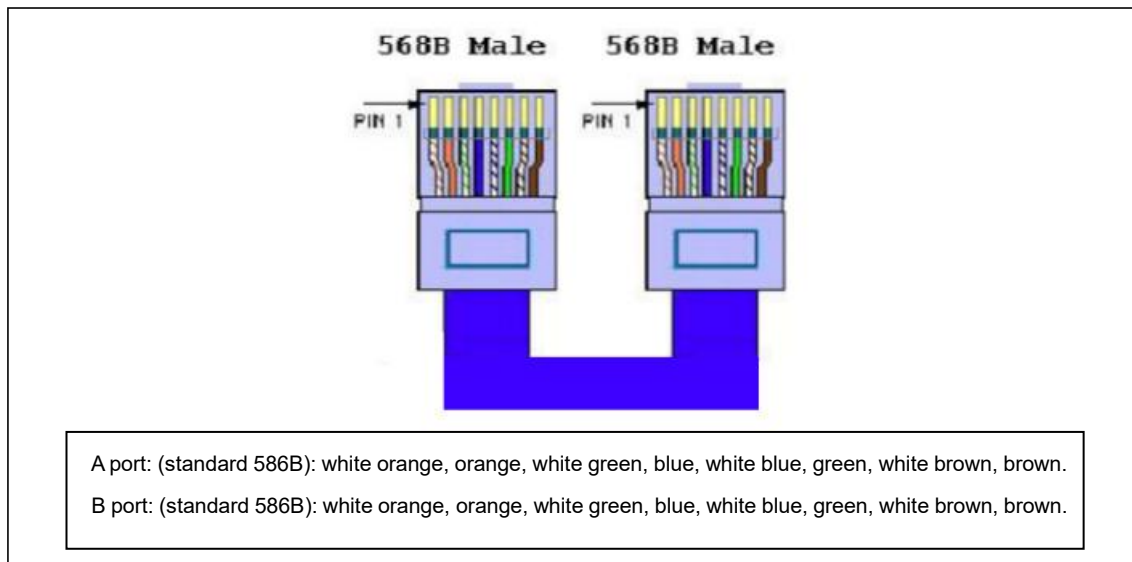
Picture 3-5c   Genlock network cable and wire order

Chapter 4: Front panel button description

4-1 Front panel button sketch map
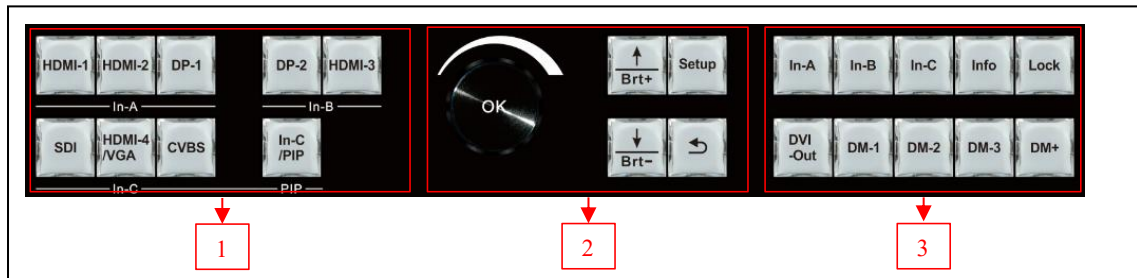
Picture 4-1   Front panel button sketch map

①Input card button

②Setup button

③Other function button

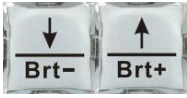| Category	Button	Description
Input Signal Selection Button	HDMI1、HDMI2、DP-1、DP-2、HDMI-3、SDI、HDMI-7、CVBS	A65 built in 3 input cards，identified as：In-A、In-B、In-C. In-A can access in 4K or 2K signal，In-B only support 4K2K signal，In-C support 2K signal. Press signal button directly to select signal channel for each input card, if selected signal is valid, button indicator will light up, or else flicker. Press VGA button of In-C to automatically calibrate VGA signal.
	In-C/PIP	In-C input card provides PIP/POP dual image display. Press this button, button indicator light up, PIP/POP function will be activated，henceforth select sub-Image source by pressing signal source button.
Source Card Selection Button	In-A、In-B、In-C	Source card selection button. Press this button to switch A65 signal source card, corresponding button indicator will light up.
DVI Output Port Switch Button	DVI-Out	In menu setup, press this button to switch DVI output port.
Lock Info Button	Lock	Button lock. Press this button directly, button indicator will light up, all button on front panel will be invalid, except Lock button itself, so as to avert misoperation. Press this button 3 times repeatedly to exit button lock mode, button indicator will light off.
	Info	Information button，press this button to check A65 setup information and firmware version, press continually to turn page When A65 in Genlock cascading, If slave A65 Genlock signal locked, **Info** button indicator light up, or else flicker.

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11

Category	Button	Description
Menu Setup Button	**Setup**	Menu setup button. **A65** in **operation mode**, press this button to enter menu setup
	Ok	**Knob** or **OK** button, rotate this button to adjust setup value, press this button to save or apply configuration
	↓ Brt− ↑ Brt+	Up and Down selection button. **A65** in **configuration mode**, press this button to select menu item. In **operation mode**, press this button directly to adjust output image brightness
	↰	Return or Exit button. Press this button to exit present setup and return to previous setup menu, until **A65** enter **operation mode**
Display Mode Selection Button	**DM-1**、 **DM-2**、 **DM-3**	Display mode selection button. Display mode can preset size&position of input and output signal. Press **DM-1**、 **DM-2**、 **DM-3** directly to recall different display mode; in menu setup, press **DM-1**、 **DM-2**、 **DM-3** to select target display mode for parameter saving
	DM+	More display mode selection button. **A65** provides 16 preset display mode，identified as： DM1、DM2、DM3、DM4、DM5、DM6、DM7、 DM8、DM9、DM10、DM11、DM12、DM13、DM14、DM15、DM16. the last 3 display mode for backup usage, can't be modified or recalled directly. Press ↑ 、 ↓ button to select display mode，press **OK** button to confirm and apply

Chapter 5: User basic operation instruction

After processor boot up, A65 will automatically detect the quantity and configuration information of current device, the default LCD interface as following picture.

```
In-A: HDMI1

In-B: HDMI3

In-C: HDMI4              PIP: SDI

_____

Output Mode:      DM1
Input Source:     In-C
Out Port:         DVI4
In Pos.&Size:    (0,3840,0,2160)
Out Pos.&Size:   (0,1920,0,1080)
```

Picture 5-0 LCD interface:System default operation interface

The top 3 rows show signal channel of each input card, for instance, In-C source from HDMI4, PIP signal is SDI;

The 4th row shows current output display mode is DM1;

The 5th row shows current display content from In-C;

The 6~8th rows illustrate current output port Size&Position Info;

In operation mode, valid operation includes:

   1: Input card operation: input signal selection and PIP operation;

   2: Output card operation: output port selection, display mode selection;

   3: Other operation: mode duplication and brightness adjustment; info check and button lock and
   other operation.

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13

5-1 Input card operation

Under user operation status, input card operation includes: input card signal selection and PIP operation.

1.Input card signal source selection

Input card A: press button `HDMI-1`、 `HDMI-2`、 `DP-1` to select corresponding signal source;

Input card B: press button `DP-2`、 `HDMI-3` to select corresponding signal source;

Input card C: under non PIP mode state, press `SDI`、 `HDMI-4`、 `CVBS-1` to select corresponding

signal channel;

Note:　HDMI-4 can select VGA input or DVI/HDMI input by toggling switch beside the DVI port.

Switch up: VGA signal
Switch down: DVI/HDMI signal
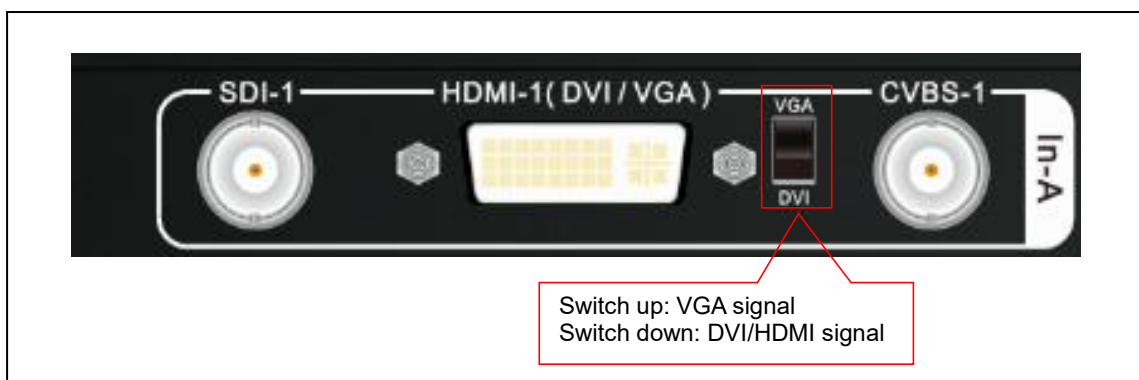
Picture 5-1a　　DVI-I port switch

2. Input card PIP operation

Input card C: press button `PIP/In-C` to enter or exit PIP. When in PIP ready status, press button

`SDI`、 `HDMI-4`、 `CVBS` to select sub-image signal source;

3. VGA input signal automatic calibration

For input card In-C, if selected VGA signal is valid, press **VGA** button repeatedly for automatic VGA

calibration, press ⟲ to exit menu.

```
Tips
--------------------------------------------

VGA Auto Adjust

Press <VGA> to start

Press <Return> to cancel

--------------------------------------------
```
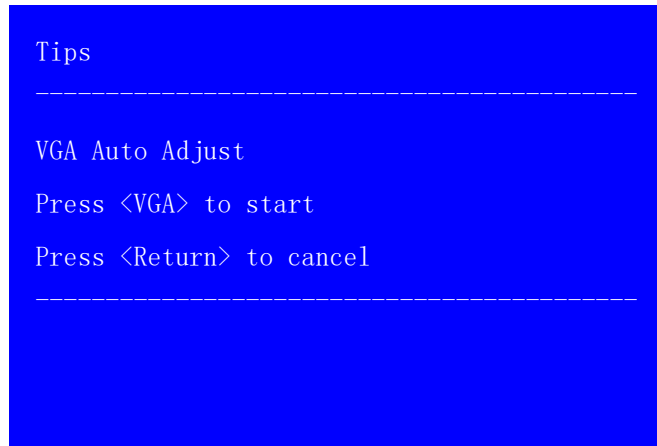
Picture 5-1b   VGA automatic calibration

5-2 Output card operation

In operation mode, output card operation includes: output card display mode selection, mode duplication, output brightness adjustment.

1. Output card display mode recall and mode duplication

A65 offers 16 preset display mode, defined as DM1-DM16, DM1~DM13 is accessible for user direct modification and recall, DM14~DM16 only for mode duplication or backup, can't be edited directly.

Under user operation state, display mode 1,2,3 can be recalled directly by pressing button DM1、DM2 and DM3 , other display modes can be selected by pressing DM+ button, then enter more display mode selection menu, press ↑ 、↓ button to select different display mode，press OK button to confirm and apply.

```
Output Mode: DM2
————————————————————————————————————————

DM1        DM2      DM3        DM4
DM5        DM6      DM7        DM8
DM9        DM10     DM11       DM12
DM13       DM14     DM15       DM16

————————————————————————————————————————

Source Mode              DM3
Destination Mode         DM11
Copy                     OK to apply
```
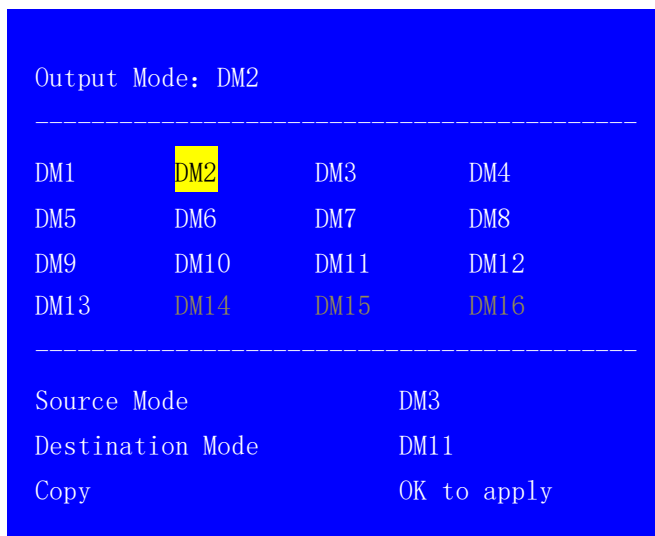
Picture 5-2a   LCD interface: display mode

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16

2. Output brightness setup

Brightness adjustment ranges from 0 – 255, "0" represents the minimum brightness level, press **Brt+** button to increase brightness, and press **Brt-** button to decrease, or rotate **Knob** button to adjust brightness value. In order to guarantee sufficient grayscale, the default and optimized brightness is 128.

```
Brightness                    Default
------------------------------------------

1.  Brightness      32            128

------------------------------------------
```

Picture 5-2b LCD interface: Output brightness setup

5-3 Other functions operation

Besides above operations, there are lock button operation, system Info function and other related operations.

1.Lock button operation

Under operation state, press Lock button to lock all front panel button, only LAN, RS232, USB control is active, thus to prevent remote control and front panel control conflict. A65 will automatically enter key lock state once received remote control instructions.

Under lock state，press Lock button three times repeatedly to unlock.

```
Button Lock
-------------------------------------------

Keypad Invalid

LAN Valid

RS232 Valid

USB Valid
-------------------------------------------
```
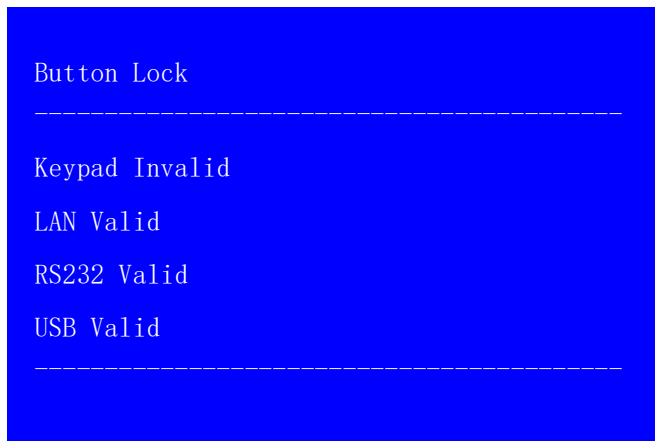
Picture 5-3a LCD interface: Button lock

2.Check system information （Info）

Press Info button into System Info menu, check processor info and firmware version etc. Press ↑,↓ button turning page，press ⮌ to exit. System Info menu as following.

```
System Info                        1/7
-------------------------------------------

Model：          A65
Version：        V0.1.2
IP：             192.168.1.8
MASK：           255.255.255.0
GATE：           192.168.1.1
MAC：            76-64-77-1A-2B-3A
Device ID：      1
-------------------------------------------
```
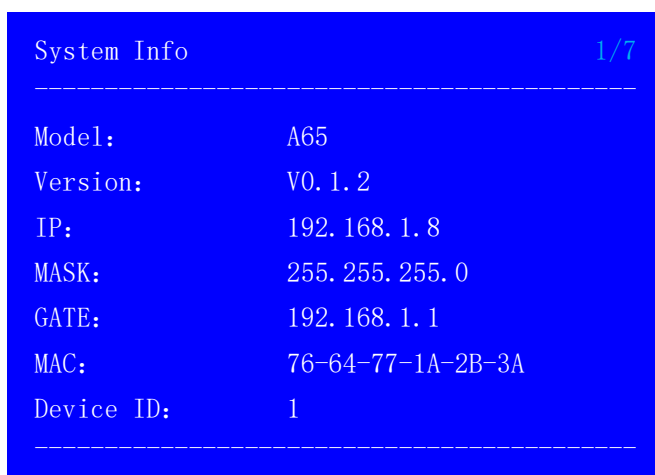
Picture 5-3b LCD interface: System info

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18

```
System Info                              2/7
_____

Made data:              2020-04
_____
```
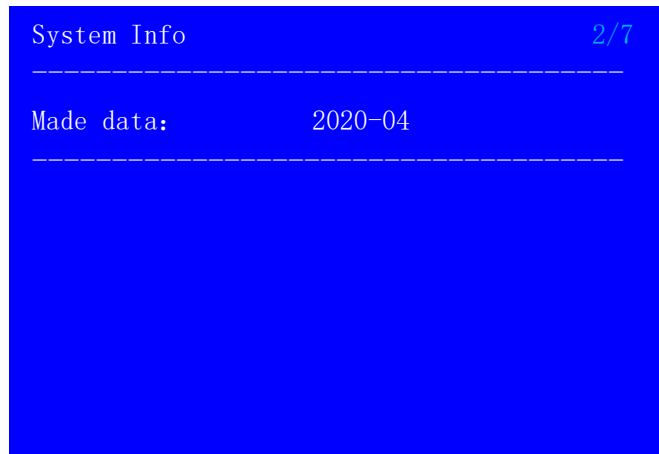
Picture 5-3c LCD interface: System info

```
Input - A(UHD)                           3/7
_____

Version:                V1.1.0
Source:                 HDMI1
Input Signal:           No Input
_____
```
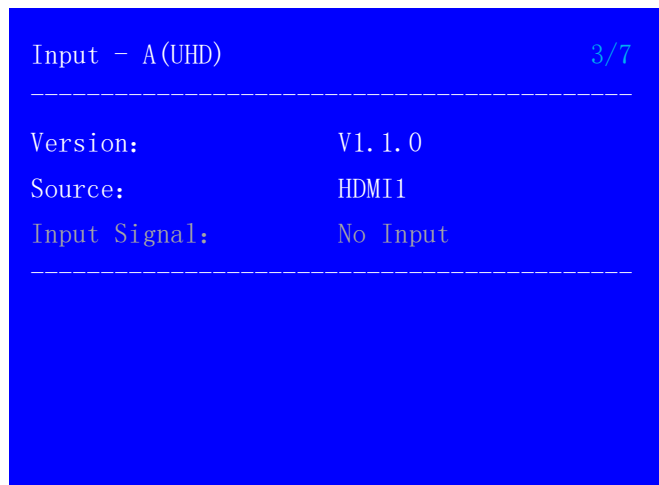
Picture 5-3d LCD interface: System info

```
Input - B(Direct)                        4/7
_____

Source:                 HDMI3
Input Signal:           No Input
_____
```
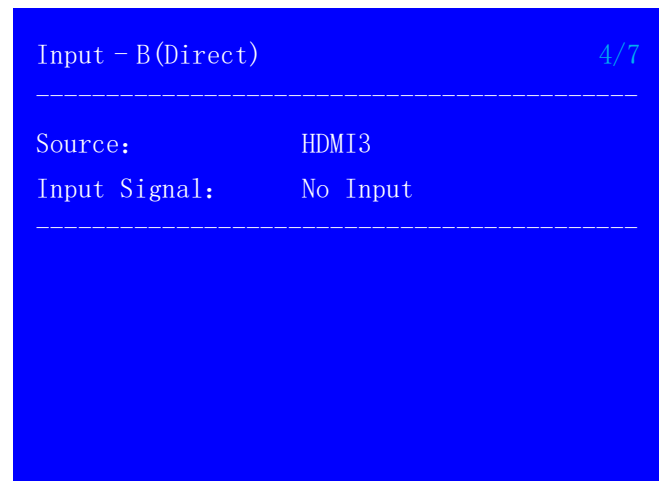
Picture 5-3e LCD interface: System info

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19

```
Input Card - C(HD)                    5/7
----------------------------------------

Version:              V1.1.0
Main:                 HDMI4
Input Signal:         1080p_60Hz
PIP:                  Off
Input Signal:         No Input

----------------------------------------
```

Picture 5-3f LCD interface：System Info

```
Output                                6/7
----------------------------------------

Version:              V2.1.3
Resolution:           1920x1080_60Hz

----------------------------------------
```

Picture 5-3g LCD interface：System Info

```
System Random Checksum                7/7
----------------------------------------

In-C:  CF8F0E8E0D8D0C8    CF8F0E8E0D8D0C8

Out：  1F8F0E8E0D8D0C8    1F8F0E8E0D8D0C8

----------------------------------------
```

Picture 5-3h LCD interface：System Info

Chapter 6: User setup menu

User setup menu consists of 5 sections, *Language setup, Video Input setup, Output Image setup, Communication setup, System setup.*

```
Setup
————————————————————————————————————

1. 语言/Language          中文

2. Video Input                   >>

3. Output Image                  >>

4.Communication                  >>

5. System                        >>

————————————————————————————————————
```
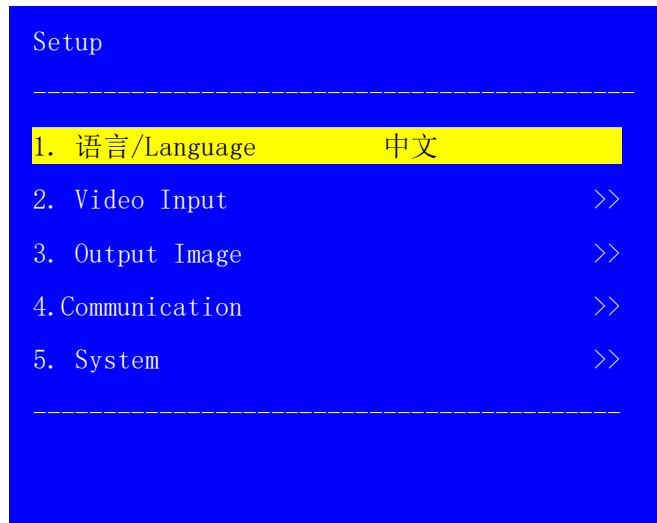
Picture 6-0 LCD interface：Setup

After device boot up, press **Setup** button into user setup menu, press ↑,↓ button to select menu item, press **knob** button (**OK** button) into menu, press ⤺ button return to previous menu. Description as following:

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21

6-1 Language setup

After system boot up, press Setup into user setup menu, first item 1.语言/Language, under this menu rotate Knob button to switch language, press OK button to confirm and apply.

```
Setup
_____

1. 语言/Language          中文

2. Video Input                    >>

3. Output Image                   >>

4. Communication                  >>

5. System                         >>

_____
```
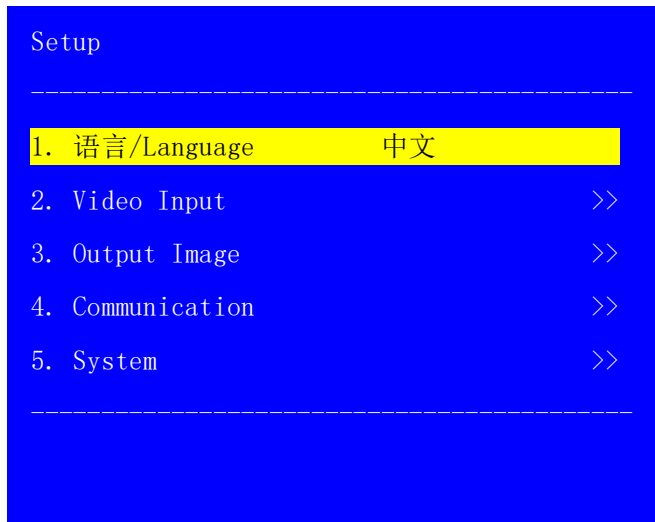
Picture 6-0 LCD interface：Setup

6-2 Video input setup

After system boot up, press **Setup** into user setup menu, select 2.Video Input by pressing ⇑,⇓ button, press **OK** button into this menu, this menu is used to set the parameters of Input card-C.

```
2. Video Input
---------------------------------------------
2.1 Input card- C                          >>
---------------------------------------------
```
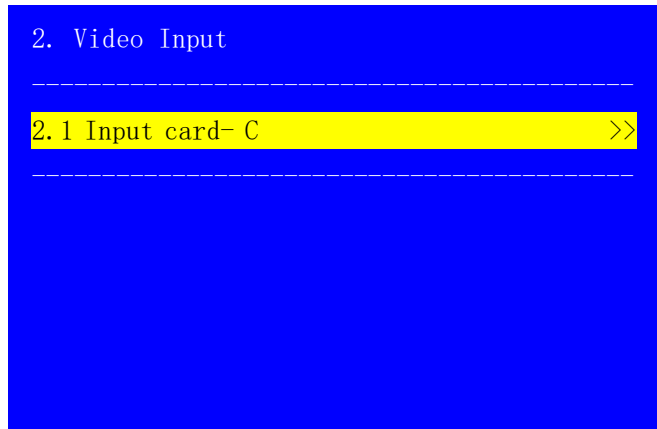
Picture 6-2a LCD Interface：Video input setup

```
2.1 Input card（In-C）
---------------------------------------------
2.1.1 Main Setup                           >>
2.1.2 PIP Setup                            >>
2.1.3 Color&Brightness,etc.                >>
2.1.4 Resume Data       OK to apply
---------------------------------------------
```
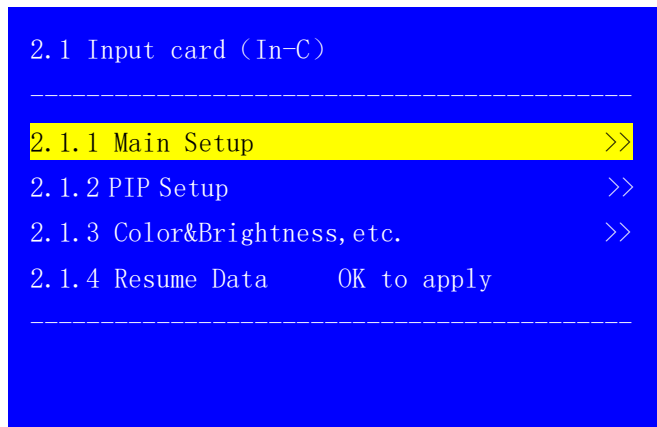
Picture 6-2b LCD Interface：Video input setup

1.PIP setup

Main Setup and PIP Setup menu is used to configure main image and sub image size and position. Under this menu, press ↑,↓ button to select the item, rotate **Knob** button to adjust current parameter, press OK button to confirm and apply.

```
2.1.1 Main setup (In-C)
――――――――――――――――――――――――――――――――――――――――
2.1.1.1 Out Width        1920
2.1.1.2 Out H_Start      0
2.1.1.3 Out Height       1080
2.1.1.4 Out V_Start      0
――――――――――――――――――――――――――――――――――――――――
```
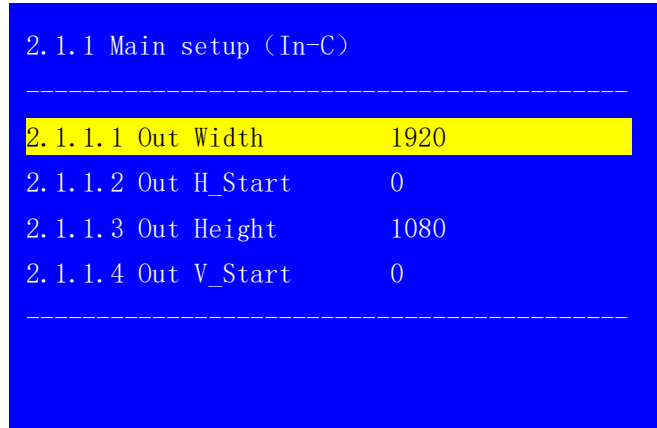
Picture 6-2c LCD interface：Main setup

```
2.1.2 PIP setup (In-C)
――――――――――――――――――――――――――――――――――――――――
2.1.2.1 Out Width        640
2.1.2.2 Out H_Start      16
2.1.2.3 Out Height       480
2.1.2.4 Out V_Start      16
――――――――――――――――――――――――――――――――――――――――
```
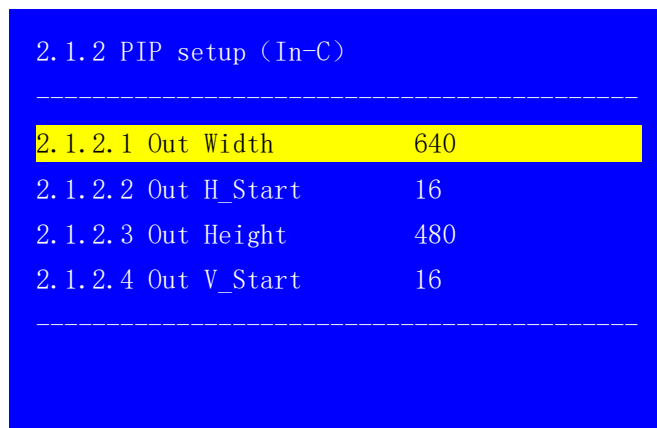
Picture 6-2d LCD interface：PIP setup

2.Color & Brightness,etc.

Color & Brightness,etc. menu is used to set the brightness, grayscale, and color parameters of the input signal. Press ↑,↓ button to select the item, then rotate Knob button to adjust current value, press OK button to confirm and apply.

```
2.1.3 Color & Brightness, etc.        Default
———————————————————————————————————
2.1.3.1 Bias            50 -> 45      50
2.1.3.2 Brightness      50            50
2.1.3.3 Color           50            50
———————————————————————————————————
```
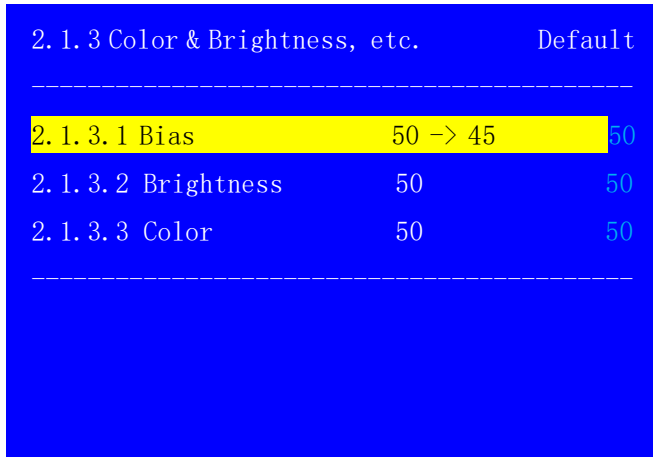
Picture 6-2e LCD Interface：Color & Brightness, etc

3. Resume data setup

```
2.1 Input Card (In-C)
———————————————————————————————————
2.1.1 Main Setup                      >>
2.1.2 PIP Setup                       >>
2.1.3 Color & Brightness, etc.        >>
2.1.4 Resume Data       OK To Apply
———————————————————————————————————
Write System Data to In-C
```
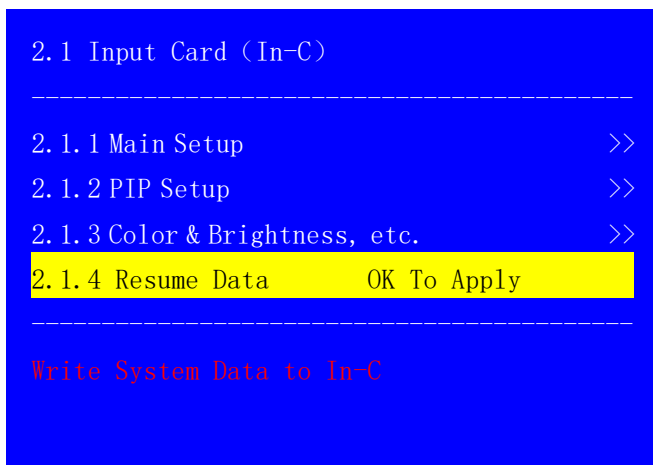
Picture 6-2f LCD interface：Input card resume data setup

Resume Data function is used to restore system data to the input card, it is generally used after replacing input card. Press ↑,↓ button to select the Resume Data menu, press OK button twice to apply Resume Data, thus the processor will restore data to the current input card.

6-3 Output image setup

After processor boot up, press **Setup** button into menu. Press ⇑,⇓ button to select 3. Output Image, press **OK** button into the following menu. This menu is used to adjust output image parameters.

```
3.  Output Image          1920x1080_60Hz
------------------------------------------

3.1 Fast Mosaic                      >>
3.2 Manual Mosaic                    >>
3.3 Color & Brightness, etc.         >>
3.4 Switch Color                     >>
3.5 Resume Data         OK to Apply
------------------------------------------


```
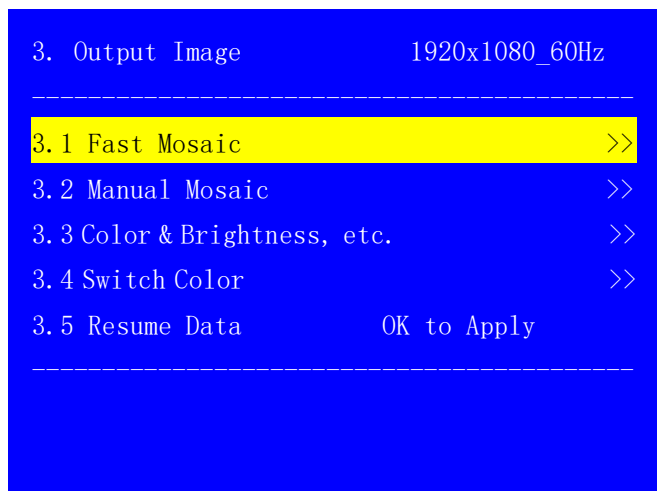
Picture 6-3a LCD Interface：Output image setup

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26

1.Mosaic setup

3.1 Mosaic setup menu constitutes 3.1 Fast Mosaic and 3.2 Manual Mosaic . The distinctions are described as following table:

Mosaic Menu	Description
4.2 Fast Mosaic	User set total screen resolution and units screen resolution, processor automatically calculate mosaic parameter and apply
4.3 Manual Mosaic	Manually configure input and output parameters of each output port, generally used for fine-tuning after fast mosaic

```
3.1 Fast Mosaic                DM1/DVI1
_____

3.1.1 LED Panel        Panel 1
3.1.2 LED Total Width       3840
3.1.3 LED Total Height      2160
3.1.4 Unit Width            1920
3.1.5 Unit Height           1080
3.1.6 Unit H_Start            0
3.1.7 Unit V_Start            0
3.1.8 Auto Calculation    OK to Apply
```

Picture 6-3b LCD Interface：Fast mosaic

Fast mosaic procedures

1. Press display mode button (M0,M1,M2,M+) to select the display mode;

2. Press DVI-Out to select the target output port;

3. Firstly set the total width and height of the LED screen, secondly set the size and position of the unit screen driven by the corresponding output port. 3.1.4 Unit Width and 3.1.5 Unit height is screen unit physical size, 3.1.6 Unit H_Start and 3.1.7 Unit V_Start identify unit screen position on whole LED screen;

4. Select 3.1.8 Auto Calculation, press OK button to apply the configuration, A65 will automatically calculate and complete the mosaic;

5. If fast mosaic has misalignment, user can enter 3.2 Manual Mosaic to adjust the input and output parameter manually;

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27

```
3.2 Manual Mosaic              DM1/DVI1
_____
3.2.1 In Width        3840           3840
3.2.2 In H_Start      0              0
3.2.3 In Height       2160           2160
3.2.4 In V_Start      0              0
3.2.5 Out Width       1920           1920
3.2.6 Out H_Start     0              0
3.2.7 Out Height      1080           1080
3.2.8 Out V_Start     0              0
```

Picture 6-3c LCD Interface：Manual mosaic

3.2 Manual Mosaic menu is usually used for fine-tuning after fast mosaic.

Setup procedure: Select 3.2 Manual Mosaic, press the display mode button （ DM1, DM2, DM3, DM+ ） to select preset mode, then press DVI-n to select corresponding DVI output port, press ↑,↓ button to select the menu item, rotate Knob to adjust parameter value, press OK to save and apply.

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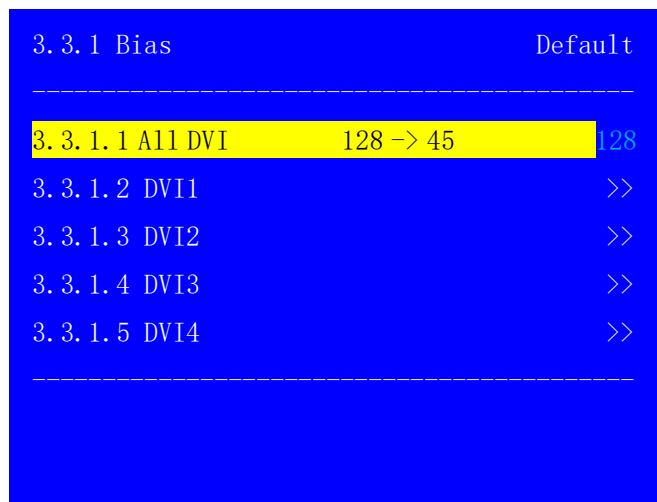
28

2.Image quality setup

Enter 3.3 Color & Brightness, etc. menu, this menu is used to set the grayscale, brightness and color parameters of output image.

Setup procedure: Enter 3.3 Color & Brightness, etc. menu, press ⬆️,⬇️ key to select the menu item, rotate Knob button to adjust the current parameters, press OK to save and apply.

```
3.3 Color & Brightness, etc.
------------------------------------------
3.3.1 Bias                            >>
3.3.2 Brightness                      >>
3.3.3 Color                           >>
------------------------------------------
```

Picture 6-3d LCD Interface： Image quality setting

```
3.3.1 Bias                       Default
------------------------------------------
3.3.1.1 All DVI      128 -> 45        128
3.3.1.2 DVI1                          >>
3.3.1.3 DVI2                          >>
3.3.1.4 DVI3                          >>
3.3.1.5 DVI4                          >>
------------------------------------------
```

Picture 6-3e LCD Interface： Image quality setting

```
3.3.2 Brightness                    Default
————————————————————————————————————————
3.3.2.1 All DVI        128 -> 45        128
3.3.2.2 DVI1                            >>
3.3.2.3 DVI2                            >>
3.3.2.4 DVI3                            >>
3.3.2.5 DVI4                            >>

————————————————————————————————————————
```

Picture 6-3f LCD Interface：Image quality setting

```
3.3.3 Color                         Default
————————————————————————————————————————

3.3.3.1 All DVI        128 -> 45        128
3.3.3.2 DVI1           128              128
3.3.3.3 DVI2           128              128
3.3.3.4 DVI3           128              128
3.3.3.5 DVI4           128              128

————————————————————————————————————————
```

Picture 6-3g LCD Interface：Color setting

3.Switch color setup

```
3.4 Switch Color                    Default
_____

3.4.1 Red              0                 0
3.4.2 Green            0                 0
3.4.3 Blue             255               255

_____
```

Picture 6-3h LCD Interface：Switch color setup

Switch Color menu is used to set the transition background color during signal switching, the default color is pure blue.

Setup procedure: press ⇑,⇓ key to select **3.4 Switch Color,** press **OK** to enter menu , press ⇑,⇓ key to select the menu item, rotate **Knob** button to adjust parameters, press **OK** to save and apply.

4.Resume Data

```
3. Output Image         1920x1080_60Hz
_____

3.1 Fast Mosaic                          >>
3.2 Manual Mosaic                        >>
3.3 Color & Brightness,etc.              >>
3.4 Switching Color                      >>
3.5 Resume Data          OK to apply
_____

Write System Data to Out
```
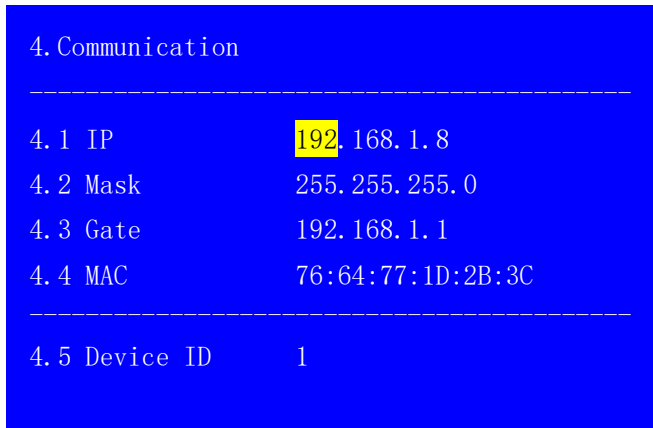
Picture 6-3i LCD interface：Output image setup

3.6 Resume Data menu is used to restore system data to the corresponding output, which is generally used after changing output card. Press ⇑,⇓ to select the 3.5 Resume Data menu, press **OK** to select, press **OK** again to confirm and apply as prompt .

6-4 Communication setup

Press **Setup** to enter the setup menu, press ↑,↓ button to select 4. Communication. Press **OK** button to enter the following menu.

```
4.Communication
---------------------------------------------
4.1 IP              192.168.1.8
4.2 Mask            255.255.255.0
4.3 Gate            192.168.1.1
4.4 MAC             76:64:77:1D:2B:3C
---------------------------------------------
4.5 Device ID       1
```

Picture 6-4a LCD Interface： Communication data setup

 4.Communication menu is used to set the processor's network communication parameter. Under this menu, press ↓ button to select parameter need adjusted, rotate the **Knob** button to adjust value, press **OK** to confirm and save. Press ⤺ to exit menu. Then processor LCD screen will prompt user that network parameter changed and need reboot, follow the instruction, power off and power on to reboot device.

6-5 System setup

Press **Setup** button into user setup menu, press ⇑,⇓ to select the 5.system, then press **OK** into menu as following picture

```
5 System
------------------------------------------
5.1 Output Res.          1920x1080_60Hz
5.2 Init Data            Press <OK >to apply
------------------------------------------
```
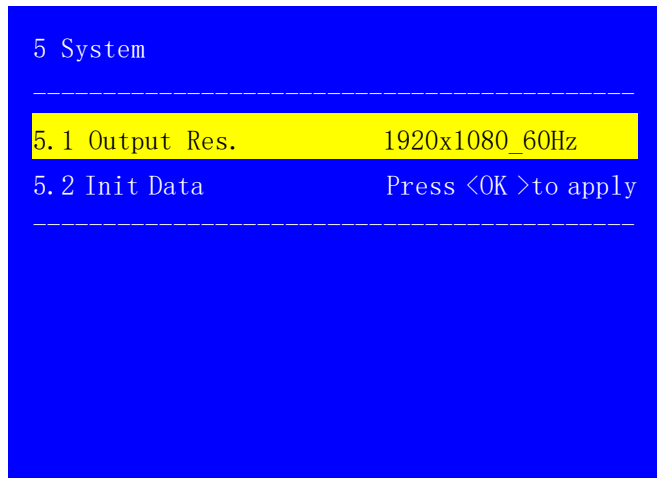
Picture 6-5a LCD interface：System Setup

With this menu, user can setup the output resolutions for output card or initialize the device.

5.2 Init Data is used to reset the device to factory default status.

Setup procedures: enter 5.2 Init Data, press **OK** to confirm selection, then press **OK** again to apply.

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33

1.Output resolution setup

```
5 System
_____
5.1 Output Res.         1920x1080_60Hz
5.2 Init Data           Press <OK >to apply
_____




```
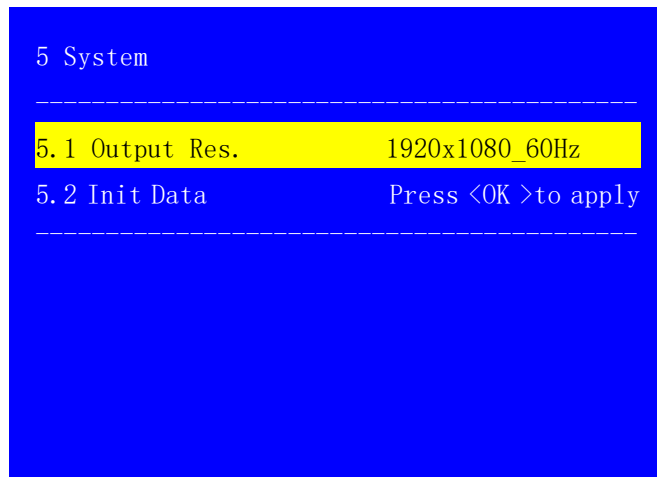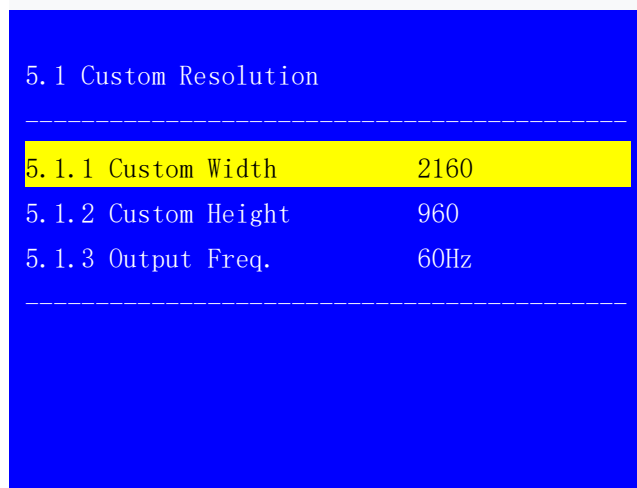
Picture 6-5b LCD Interface：System setup

5.1 Output Res. menu is used to set the output resolution of the output card. Under this menu, rotate the knob to select the output resolution , press **OK** to enter the 5.1 Init Data menu, and then press **OK** again, the new output resolution will take effect after the processor automatically restarts.

In addition to the fixed preset output resolution, A65 also allows user defined output resolution. For the Custom Resolution, after entrance, user need set 5.1.1 Custom Width, 5.1.2 Custom Height and 5.1.3 Output Freq. Parameter. Then enter menu 5.2 Init Data, press **OK** to apply, A65 will automatically reboot, after reboot, new output resolution will take effect.

```
5.1 Custom Resolution
_____
5.1.1 Custom Width       2160
5.1.2 Custom Height      960
5.1.3 Output Freq.       60Hz
_____




```

Picture 6-5c LCD interface：Custom output resolution

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34

Appendix: Manual modification record

Version	Time	Description	Custom
V1.0	2020.3.20	First release	Lts
V1.1	2020.4.15	Update the front panel picture and description	Lts

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35