

# AV KVM Over Fiber Matrix Switcher

User Manual

Version 2017 V1

Available from B2B Online Portal **CNE**AV.eu

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### Welcome

### About This Manual

This Manual is applicable to AVCLink (AV KVM Over Fiber Matrix Switcher). Thank you for choosing DigiBird, please read this manual carefully before using the product.

All pictures in this manual are only for reference, information in this document is subject to change without notice.

# **Cautions and Notes**

The following symbols are used in this manual:

i	Notoc	The necessary hints, additions and explanations to help you to understand the con-
	Notes	tent of the manual more clearly.
	Cautions	This symbol indicates best practice information to show recommended
	Cautions	and appropriate manner to use this product efficiently.
	Warnings	The important operating instruction that should be followed to avoid any potential
	warnings	damage to hardware or property, data loss, or personal injury.

#### The following spellings are used in this manual:

Spelling	Description
<key></key>	Description of a key on the keyboard
<key +="" key=""></key>	Press keys simultaneously
<key, key=""></key,>	Press keys successively
[Menu item]	Description of a menu item in the software

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### Trademarks

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# Disclaimer

While every precaution has been taken during preparation of this manual, the manufacturer assumes no liability for errors or omissions. The manufacturer assumes no liability for damages resulting from the use of the information contained herein.

The manufacturer reserves the right to change specifications, functions, or circuitry of the product without notice.

The manufacturer cannot accept liability for damage due to misuse of the product or due to any other circumstances outside the manufacturer's control (whether environmental or installation related). The manufacturer shall not be liable for any loss, damage, or injury arising directly, indirectly, incidentally, or consequently from the use of this product.

# Introduction

DB-AVCLink is a powerful KVM matrix switcher, which completely transmits audio, video and KVM signal via fiber optical or twist pair without losses and latency, widely used in application of utility, security, government, and financial industry, etc.

DB-AVCLink consists of *Matrix Device* and *Optic Transfer Unit*. The chassis sizes are 8U and 26U; and the *Optic Transfer Unit* means Transmitter and Receiver.

# Matrix Device

### Front Panel

### 8U chassis (160x ports)

The front panel of the 8U chassis is shown as below. You are able to change the IP address via the front panel, see <u>Set IP Address</u> for details.



#### 26U chassis (576x ports)

The Front Panel of 26U chassis is shown as below. You are able to change the IP address via the front panel, see <u>Set IP Address</u> for details.

Introduction



### Rear Panel

### The rear panel consists of below main slots:

Input / Output Port	Mixed dual-optical I/O ports, which can be defined to be input when connected with the transmitter/ Tx or to be output when connected with the receiver/Rx.
Input Slot	The slot to populate the input card, that includes eight (8x) pairs of dual-optical ports to be connected with the transmitter/Tx.
Output Slot	The slot to populate the output card, that includes eight (8x) pairs of dual-optical ports to be connected with the receiver/Rx.
CMC Slot	The Confidence Monitoring Slot to populate the CMC (Confidence Monitoring Card) card for local monitoring.
Control Slot	Slot for control board. There are two control board to ensure the system running as normal.Populated with Dual Control cards for backup.
Power Slot	The slot for the PSU (Power Supply Unit).
Fan Slot	The slot for the cooling fans with auto adjustment feature.

Please tighten the screws when insert the card into the slot.

### 8U chassis (160x ports)

The 8U chassis includes twenty (20x) I/O slots (no matter input or output), two (2x) control slots, one (1x) CMC slot, and two (2x) PSU slots.

#### Introduction

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### 26U chassis (576x ports)

The 26U chassis includes thirty-six (36x) input slots, thirty-six (36x) output slots, two (2x) control slots, one (1x) CMC slot, and two (2x) PSU slots.

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Power				-		Ĉ			-		Ċ			-		C			-			

Set IP address

Operation

OSD

#### Introduction



POWER	Power indicator.
IR	IR indicator. (Reserved for future use.)
RUN	RUN indicator: illuminate when operating normally.

# **Optic Transfer Unit**

DVI Trai	nsmitter
Front Panel	Rear Panel
DIGIBIRD OVERO VERO TXO OVERO O TXO O TXO OVERO O TXO O TXO OVERO O TXO	
DVI Re	eceiver
Front Panel	Rear Panel
HDMI Tra	ansmitter
Front Panel	Rear Panel
DIGIBIRD AVCLINK Transmitter	HDMI IN LOOP OUT AUDIO IN USB DC 12V
HDMI F	Receiver
Front Panel	Rear Panel
4K HDMI 1	- Fransmitter
Front Panel	Rear Panel
DIGIBIRIO AVCLINK Transmitter	O O O O O O O O O O O O O O O O O O O
4K HDMI	Receiver
Front Panel	Rear Panel
DP Trar	Ismitter
Front Panel	Rear Panel
	HDMI IN LOOP OUT AUDIO IN USS DC 12V
	ansmitter
Front Panel	Rear Panel
DIGIBIRD OFORER OVERSO AVCLINK Transmitter Transmitter Transmitter Transmitter	O O O O O HDMI IN LOOP OUT AUDIO N USB DC 12V
VGA Tra	nsmitter
Front Panel	Rear Panel

DIGIBIRD AVCLink Transmitter	
SDI Trar	nsmitter
Front Panel	Rear Panel
DIGIBIRD AVCLink Transmitter	SDIN LOOP OUT AUDIO IN USS DC 12V
SDI Re	ceiver
Front Panel	Rear Panel

### Setup

For the first time, users are recommended to test your matrix prior to install for your project. This will assist you to avoid any cabling problems, and start to integrate with your system more efficiently.

Setup of the matrix

- 1. Install the I/O cards (usually be populated well by DigiBird)
- 2. Connect RX and TX to the I/O ports
- 3. Connect keyboard, mouse, and monitor to the RX
- 4. Connect sources (server, DVD, computer, media player, workstation...) to the TX
- 5. Connect the matrix to the power supply
- 6. Connect the control computer to the control card via RJ45 or RS232 port.

Darwin AVCLink Control System is a web-based software platform.

This manual is based on an 8U Matrix. The connection diagram is shown as below.



# Login

You should open the Browser, such as chrome, to visit the Darwin AVCLink Control System. The control computer and the Matrix must be in the same LAN network under the same domain.

Open the Chrome and input the IP of the Matrix, then press the <Enter> key. The default IP address of the Matrix is 192.168.1.200. You can change the IP address through the push buttons on the front panel, see "Set IP address" for details.

Darwin AVCLink Control X	603-8-
← → C 🗋 192.168.1.205/8080/darwin/frame/login/index.html	ዬ ☆ ≡

• You can input the user name and password in the Login page. The default user name is "admin", the password is "123", which can be changed after login.

Darwin AVCLink Control x		
← → C 🗋 192.168.1.205:8080/darwin/frame/login/index	html	% ନ ≅
	DIGIBIRD	
	Darwin AVCLink Control System	
	Jusir Marrie	
	Password	
	<ul> <li>Remember user name and password</li> </ul>	
	Login	

# Overview

### Dashboard



The dashboard is shown as below when you login successfully.

1 Scene	If you save a configuration as a scene, the scene will be listed here. You can recall, rename, delete, or preview a scene under right-click menu.
2 Toolbar	The toolbar includes some function buttons, you can enter the dash- board, logout, save scenes, refresh system, preview configuration, and search ports through the filter.
3 Input /Output Ports	Here lists all the Input /Output ports you set, and the system will automatically detect the available ports.
4 Switching Relations	In this area, system will display the input and output ports that you selected.
5 Execution Area	Click the <b>[OK]</b> button to confirm, system will execute switching and KVM operation. Click the <b>[Cancel]</b> button to abandon.

Tool bar details:

			Backup status Log out Current user Alarm Backstage Language
avclink			admin 🐻 🛈 🕀 🕸 English 🔻
Save Scene		₽ Preview	Search ports
Save current configuration	Refresh port status	Preview current configuration	Search ports to filtering

### Settings

Click the icon 🔯 in the toolbar to enter the settings. The **[Settings]** includes: Config, user management, backup, alarm, system upgrade, and device license etc.

The 8U's port property supports custom-defined. When the matrix you use is an 8U chassis, you can see the [Unconfigured ports] in the middle of the page. The unconfigured ports are not connected to the sources or monitors and can be preconfigured as input or output, see <u>Configure Ports</u> for details.

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← → C □	192.168.1.205:8080/darwin/frame/m	anage/index.html?i	=0.703790732426568	9			%☆ ≡
DIGIBIRD	<b>`</b>				admin	<b>5</b>   O	🕀   Dashboard >
	O Refresh Iu Audio	III Resolutio	n			Search ports	
Config	① Input ports	Select all	O Unconfigured	ports	Select all 🕤	Output ports	Select all
Users	(1-1) 3-1 ( <b>2</b> ) (1-2)	1-2 0 6	1-5 1-5	1-6	1	3) 1-3 (1) (1) (1)	(14) 14 🕡 🏢 🐚
Backup			1-7 4-7	1-8 1-8			
() Alarm	2		4-1 4-1	4-2 4-2			
Ŷ.			4-3 4-3	4.4 4.4			
System Upgrade			(4-5) 4-5	4-6			
8 <b>9</b> 8			47 47	4-8 4-8			
Custom Resolution			(5-1) 5-1	5-2 5-2			
Factory			Ga sa	(GA) sa			

### Switch

Switching a video resource to any display(s). The operation is as follows:

• Select an input signal in the [Input ports] list.

DARWIN X												6	
← → C 🗋 192.168.1.205:8	080/darwin/fram	ie/mainpage/inc	ex.html?0.59	891538624	55173								•ಿ ಭ ≡
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Scene	100												
	Save Scene	O Refresh	民 Preview					Search p	orts				
	<ol> <li>Input ports</li> </ol>					Outpu	t ports						Select all
	1-1 1-1	1-2	) 1-2			1-3 1	a (E) (E	1-4	1-4		-		
	Selected KM	Connected											
					Ok	Cancel							

 Select any output port(s) in the [output ports] list which you want to switch to. You can also select all output ports by clicking [Select all] button on the upper right corner of the [Output ports] list. (To cancel a selected port, click the port again.)

DARWIN X								
← → C 🗋 192.168.1.20	05:8080/darwin/frai	me/mainpage/ind	dex.html?0.59891538	862465173				₽ა☆ ≡
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	P Save Scene	O Refresh	B Preview		S	earch norts		
	Input port	5	-		Output ports			Select all
	(1-1) 1-1		1.2	6	13 13 00	1-4 1-4		
		90				O a	00	
	Selected KN	Connected						
	1-1	1-3						
				Ok	Cancel			

- Click **[Cancel]** to abandon your selection.
- Click **[OK]** to enable the switching.

DARWIN	×			
- → C 🗅 192.168	3.1.205:8080/darwin/frame/mainpa	age/index.html?0.59891538624651	73	¶a ☆ 📒
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cene	B Save Scene O Refr	esh 🖪 Preview	Search ports	
	Disput ports		Output ports	Select all
	1-1 1-1	1-2 1-2 (1)	1-3 1-3 (D) (D) (1-4) 1-4	
	Selected KM Con	nected		
		-3 (1-4)		
		[	Ok Cancel	
	Selected KM Con	nected	Ok Cancel	

### KVM

#### Set KVM channel

If you want to use the keyboard and mouse (referred as KM hereafter) to switch and control all resources, you should connect the keyboard and mouse to the RX through the USB cable, connect the resources to the TX through the USB cable as well.

Then you are able to setup via this software:

• Select an input port, then the selected output ports will be listed on the right.



• In the **[Output ports]** list, click the icon () of an output port which you want to use KVM via. The **[Switching Relations]** list will show the output ports you selected.

DARWIN X		
← → C 🗋 192.168.1	1.205:8080/darwin/frame/mainpage/index.html	<b>%</b> ☆ <del>≡</del>
DIGIBIRD	avclink	admin 😹 🛈 🕀 🕸 English 🔻
Scene	B Save Scene O Refreshing.	Search ports
	Input ports	Output ports Select all
	(1-1) 1-4 (B) (1-2) 1-2 (B)	1-3 1-3 1 2 14 14 19 17
	Selected KM Connected (1-3) (1-4)	
		Ok Cancel

• Click **[OK]** button, then you can control the selected resource that connected to the TX by the KM.

DARWIN X		
← → C 🗋 192.168.1.2	05:8080/darwin/frame/mainpage/index.html	<b>%</b> ☆) =
DIGIBIRD	avclink	admin 📆 🛈 🕀 🕸 English 🔻
Scene		
	🖹 Save Scene 🕐 Refresh 🔣 Preview	Search ports
	Input ports	Output ports Select all
	(1-1) 1-1 (B) (1-2) 1-2 (B)	1-3 1-3 C C (1-4 1-4 C (R)
1921681.2055080/dawin/avdin/s	Selected         KM         Connected           (1-1)         (1-3)         (1-4)           (1-3)         (1-4)         (1-4)	Cancel

### OSD

Press **<Ctrl** + **Shift** + **Alt** + **I>** keys on the keyboard that connected to the RX to enable the OSD. You are able to switch any resource or enable the KVM.

#### 1、Login

• Press <**Ctrl** + **Shift** + **Alt** + **I**> on the keyboard to enable OSD.

	CURRENT SOURCE NUM:01-1
LOG_IN	
SOURCES	
QUICK_SET	USER ·
DEV_INFO	PASSWORD:
HELP	OK CANCEL

• Input username and password (Default username: admin; password: 123).

	CURRENT SOURCE NUM:01-1
LOG_IN	
SOURCES	
QUICK_SET	IISER• admin
DEV_INFO	PASSWORD: ***_
HELP	OK CANCEL

Press <Enter> key to move the curser to [OK] button, and press <Enter> key again to login.



- 2 Switch
  - You will enter the **[SOURCES]** interface after you login. The **[SOURCES]** interface will list all ports online and offline, the gray highlighted means that offline and the white one means that on line.

	CURRENT SOURCE NUM:01-1 BLACK: NOT-ON-POSITION, AHITE: ON-POSITION
LOG_IN	
SOURCES	01-1 01-2 01-3 01-4 01-5 01-6 01-7 01-8
OULCK SET	02-1 02-2 02-3 02-4 02-5 02-6 02-7 02-8
QUICK_SEI	03-1 03-2 03-3 03-4 03-5 03-6 03-7 03-8
DEV_INFO	04-1 04-2 04-3 04-4 04-5 04-6 04-7 04-8
	05-1 05-2 05-3 05-4 05-5 05-6 05-7 05-8
HELP	06-1 06-2 06-3 06-4 06-5 06-6 06-7 06-8
	07-1 07-2 07-3 07-4 07-5 07-6 07-7 07-8
	Page 1-3

• Press <1><↓><←><→> keys to move the curser, then press <**Enter**> key again to select one port.

	CURRENT SOURCE NUM:01-1 BLACK: NOT-ON-POSITION, AHITE: ON-POSITION PLEASE AELECT: 1-KVM 2-VIDEO 3-CANCEL
OG_IN	
URCES	<b>01-1 01-2 01-3 01-4 01-5 01-6 01-7 01-8</b>
	02-1 02-2 02-3 02-4 02-5 02-6 02-7 02-8
SET	03-1 03-2 03-3 03-4 03-5 03-6 03-7 03-8
	04-1 04-2 04-3 04-4 04-5 04-6 04-7 04-8
	05-1 05-2 05-3 05-4 05-5 05-6 05-7 05-8
	06-1 06-2 06-3 06-4 06-5 06-6 06-7 06-8
	07-1 07-2 07-3 07-4 07-5 07-6 07-7 07-8
	Page 1-3

There are three options: press <1> key to enable KVM; press <2> key to switch the rsource; press <3> key to cancel.

	CURRENT SOURCE NUM:01-1 BLACK: NOT-ON-POSITION, AHITE: ON-POSITION
LOG_IN	SOURCE SWITCH SUCCEEDED!!!
SOURCES	01-1 01-2 01-3 01-4 01-5 01-6 01-7 01-8
	02-1 02-2 02-3 02-4 02-5 02-6 02-7 02-8
QUICK_SET	03-1 03-2 03-3 03-4 03-5 03-6 03-7 03-8
DEV INFO	04-1 04-2 04-3 04-4 04-5 04-6 04-7 04-8
	05-1 05-2 05-3 05-4 05-5 05-6 05-7 05-8
IELP	06-1 06-2 06-3 06-4 06-5 06-6 06-7 06-8
	07-1 07-2 07-3 07-4 07-5 07-6 07-7 07-8
	Page 1-3

- 3、Quick switch
  - You can press **<Esc>** key to return upper menu. Press <↑><↓> keys to the **[QUICK\_SET]** option > press **<Enter**> key to enter the menu.



• Input the number of the input port. For example: if you input "01-1", the front "01" means the sequence number of slot, the "1" means the sequence number of the port (01-1 means the first port on the #1 input card, each card has 8x ports).



 Press <Enter> key, the curser will move to below options: [KVM] to enable KVM to the source; [VIDEO] to display the source; [CANCEL] to adandon the operations.



• Use < > < > < > < keys to select, then press < **Enter**> key to confirm.



4、 Device info

Press **<Esc>** key to return the menu bar **>** select **[DEV\_INFO]** option**>** press **<Enter>** key. The **[DEV\_INFO]** interface will show you the output resolution, resolution mode, audio mode, serial number, and the mac address.



#### 5、Help

Press **<Esc>** key to return the menu bar **>** select **[HELP]** option **>** press **<Enter>** key. The **[Help]** interface will show you the shortcut of OSD operation.



Enter OSD: <Ctrl + Shift + Alt + I>

Quit OSD: <Ctrl + Esc>

Move Curser: < $\uparrow$ >< $\downarrow$ >< $\leftarrow$ >< $\rightarrow$ >

Enter/quit function screen: <Enter>/<Esc>

# Preview of current status

Click **[Preview]** button to enter the preview interface. You can check the current switching and KVM status.



### Scene

You can configure some frequently-used switching relationships and save them as scenes that you want to enable only by on-click operation.

Save

• Click [Save Scene] button.



 Input Scene ID and Scene Name in the [Save Scene] window, then click [OK] button to confirm.

If you want to save the current configuration and cover that already saved, just need to set the same Scene ID.

Save Scene			×
Scene ID			
1			
Scene N	me:		
scene			
		Ok	Cancel

### Preview

You can preview the scene before recalling it to avoid misoperation.



Right click the scene > choose [Preview the Scene].

#### Recall

Right click the scene > choose [Recall the Scene] > click [OK] button to recall.



#### Rename

Right click the scene > choose **[Rename]** > input the Scene Name > click **[OK]** button to rename.

	Save Scene	× 1-3 (E) (F) (1-4) 1-4
Scene Ul scene Recall the Scene	Scene ID: 1 Scene Name:	
Preview the Scene      Rename      Delete The Scene	scene1	Cancel

#### Delete

Right click the scene > choose [Delete the Scene] > click [OK] button to delete.



# Port Configuration

Enter the settings to configure the property, audio mode, name and resolution of input and output ports.

### Configure ports

The matrix supports mixed I/O ports (except the 26U model), which can be defined to be input or output automatically according connection with TX (input) or RX (output).

For example: set some unconfigured ports to be input ports:

• Select one or more unconfigured ports.

	x 192.168.1.205:8080/darwin/frame/man	age/index.html?i	r=0.703	790732426	689							
DIGIBIRD	$\mathbf{N}$							łmin	6		0	Dashboard
	O Refresh In Audio	III Resolutio	on						Search po	irts		
Config	Input ports	Select all	$\odot$	Unconfigure	ed ports		Select all	Θ	Output p	orts		Select all
Users		2 💭 bi	1-5	) 1.5	1-6	1-6	$\supset$	1-3	1-3		1-4	14 📾 🔳 🖬
Backup			1.7	) 1-7	1-8	1-8						
() Alarm	5		4-1	) 4-1	4-2	4-2						
Ω.			(4-3)	4-3	44	4-4						
System Upgrade			4-5	4-5	4-6	4-6						
<b>8</b> \$8			4-7	) 4-7	4-8	4-8						
Custom Resolution			5-1	) 5-1	5-2	5-2						
Factory			6.7	) <b>5</b> .2		5-4						

• Click the circle and drag to the left area.

DARWIN	×	Name and a second s			
← → C 🗅	192.168.1.205:8080/darwin/frame/mar	nage/index.html?r=0.703790732426	5689		¶ා ☆ ≡
DIGIBIRD	<b>`</b>			edmin 👪   🛈	🕀   Dashboard >
G	O Refresh Idi Audio	Resolution		Search ports	
Config	<ul> <li>Input ports</li> </ul>	Select all 🕜 Unconfigur	red ports Se	lect all 🕤 Output ports	Select all
Users	1-1 1-1 1-2	1-2 📮 📷 🕹 4-1 4-1	4-2 4-2	1-3 1-4 1	(1-4) 1-4 💓 🌐 🕍
Backup			4.4 4.4		
	2	1.6 1.6	4-6 4-6		
<u>ф</u>			4-8 4-8		
System Upgrade		5-1 5-1	5-2 5-2		
\$\$8		5-3 5-3	54 54		
Custom Resolution		5-5 5-5	5-6 5-6		
Factory		(E.7) E.7	(c.a) 5.8		

• The selected ports will be assigned as input. (The input ports should be connected to TX later.)

DARWIN	×					
DIGIBIRD	192.168.1.205:8080/darwin/trame/mana	ge/index.html?r=	0.7037907324265689	adm	in 🚯   🛈	Ho ☆ =
0	O Refresh Idi Audio	III Resolution			Search ports	
Config	Disput ports	Select all	O Unconfigured ports	Select all	Output ports	Select all
Users			(4-1) 4-1 (4-2	4-2	1-3) 1-3 (12) (11)	14 14 💓 🖬 🖢
Backup	1-5 1-5 📮 🖬 (1-6 1-6	••	(4-3) 4-3 (4-4)	4-4		
() Alarm		🖵 ba	4-5 4-5 4-6	4-6		
Ω,			(4-7) 4-7 (4-8)	4-8		
System Upgrade			(5-1 5-1 (5-2	5-2		
\$¢3			(5-3) 5-4 (5-4)	5-4		
Custom Resolution			(5-5 5-5 (5-6	5-6		
Factory			(c.7) c.7 (c.a	1.6		

*The 26U model does NOT support mixed I/O ports, the* **[Unconfigured Port**] is not applicable and it will show fixed input and output lists.

You can drag the pre-configured ports back to [Unconfigured ports] area, but the ports that have connected to the TX/RX can NOT be moved.

#### Rename the Port

Select a port > double-click in the middle area > input the name > click on the blank area or press **<ENTER**> key to save.



#### KVM status

Click 🥮 button of a port, then you will see the KM connection status.



### Audio configuration

The RX/Tx support audio channel. You can select embedded or separated audio channel for HDMI or SDI version:

The  $(M_{\rm e})$  icon means embedded audio, and the  $(M_{\rm e})$  means separated audio.



If you want to set multiple ports at once, you can select more ports > click Audio button > select the audio mode in the pop-up window > click [OK] to confirm the operation.

DIGIBIRD	<b>`</b>																ədmir	n 🔝		C	D	₿	ľ	Dashboar	rd ≯
6	Î	O Refre	sh	Lu	Au	idio		III Resol	ution									Search	n ports						
Config	Ð	Input	t por	ts				Select	all	0	Jncon	figu	red por	ts		Select	all E	Outp	ut port	ts				Select	tall
Users		1-1) P(	c (			-2)	1-2	•		(4-1)	4	4		(4-2)	4-2		R	1-3) 1-3		) (		-4) 1-4			
Backup	(	1-5) 1-	5	•		-6)	1-6	<b>Q</b> (b)		Audio		3		(a.a)	44		×								
() Alarm		1-7) 1-				-8)	1-8	(Q) (In	)				3 Separat	ed 🕘 Em	bedded										
ŶĿ														[	4 Ok	Cancel	1								
System Upgrade												-1		(5-2)											
8 <b>\$</b> 8										(5-3)	5	-3		(5-4)	5-4										
Custom Resolution										(5-5)	. 3	-5		(5-6)	5-6										
Factory										67	5	-7		(c.a)	5.8										

#### Resolution

Set the Resolution

Select the output ports that you want to change the resolution > click • III Resolution button > to select resolution.

	×	e/index.html?r=	0 40698456671088934	() () () () () () () () () () () () () (
DIGIBIRD			0.10000.000000000	admin 🚯   ①   ⊕•   Dashboard
i i	O Refresh Int Audio	2 III Resolution		Search ports
Config	<ul> <li>Input ports</li> </ul>	Select all	Unconfigured ports     Select	t all 🕤 Output ports Select all
Lisers	(1-1) PC (1-2) 1-2	( <b>)</b> 0	(4-1) +1 (4-2) +2	
Backup	1-5 1-5 📮 🐚 1-6 1-6	🖵 (h)	(4-3) 4-3 (4-4) 4-4	
() Alarm	1.7 1.7 📮 <b>in</b> 1.8 1.8	<b>• b</b>	(4-5) 4-5 (4-6) 4-6	
<u>A</u> .			(4.7) 4.7 (4.8) 4.8	
System Upgrade			(5-1) 5-1 (5-2) 5-2	
æ				

• The system support two resolution modes: Inherit and Custom. Inherit means the output resolution will be the same with that of input. Custom means to set a firmed or customized output resolution no matter how the input resolution is.

Resolution		×
Inh	erit 🖲 Custom	
Resolution:	640*480@75 <b>*</b>	
	Ok	Cancel

• If you select the Custom option, you can choose a resolution in the drop down list. You can add a resolution if cannot find in this list. See <u>Custom Resolution</u> for details.



#### Custom resolution

To add a custom resolution.

• Click the **[Custom Resolution]** button, then you will see the built-in resolutions list.

BIRD										ədır	in 🚳		🕀   Deshbo
-1. (i)	(⊕ Add	🕞 Delete		P Edit									
	Name	Horizon	Horizon	Horizon	Horizon	Active P	VSYNC	Vertical Total (V	. Vertical Polarity	Vertical Sync W	Vertical Front Po	Active Lines	Custom Resolu
	640*480@75	840	1	64	16	640	75	500	1	3	1	480	Yes
	720*483@30	858	0	28	57	720	30	525	o	6	5	483	Yes
	720*483@60	858	0	28	57	720	60	525	0	6	5	483	Yes
**	720*576@25	864	0	28	57	720	25	625	0	6	5	576	Yes
	720*576@50	864	0	28	57	720	50	625	0	6	5	576	Yes
	800*600@60	1056	0	128	40	800	60	628	0	4	1	600	Yes
۶. 	960*2160@25	1100	0	22	44	960	25	2250	0	10	8	2160	Yes
ide	960"2160@30	1100	0	22	44	960	30	2250	0	10	8	2160	Yes
3	1024*768@60	1344	1	136	24	1024	60	806	1	6	3	768	Yes
om	1024*768@75	1312	0	96	16	1024	75	800	0	3	1	768	Yes

 Click [add] button > fill in data in the pop-up window > click [OK] button to save.

IBIRD					Custom Resolution	j.	×	admin (20		L3*   Dashbo
lo i	Add	🕞 Delete		dit	Horizontal Total (H.Total )	Arguments requin				
ontig	Name	Horizon	Horizon He	prizon Hor	Horizontal Polarity	Arguments require	tical Sync V	Wi Vertical Front Pc	Active Lines	Custom Resoluti
22	640*480@75	840	1	64 1	Horizontal Sync Width	Arguments requin	3	1	480	Yes
	720*483@30	858	0	28 5	Horizontal Front Porch	Arguments require	6	5	483	Yes
	720*483@60	858	0	28 5	Active Pixels	Arguments requin	6	5	483	Yes
	720*576@25	864	0	28 5	VSYNC Frequency	Arguments require	6	5	576	Yes
	720*576@50	864	0	28 5	Vertical Total (V.Total)	Arguments require	6	5	576	Yes
	800*600@60	1056	0	128 4	Vertical Polarity	Arguments requin	4	1	600	Yes
stem	960*2160@25	1100	0	22 4	Vertical Sync Width	Arguments require	10	8	2160	Yes
grade	960*2160@30	1100	0	22 4	Vertical Front Porch	Arguments requin	10	8	2160	Yes
ĝ8	1024*768@60	1344	1	136 2	Active Lines	Arguments requin	6	3	768	Yes
	1024*768@75	1312	0	96 1		3	3	1	768	Yes

*Y*ou can modify or delete the resolutions that you added, but can NOT change the builtin resolution.

### Alarm

The system will provide alarm in abnormal situation for trouble-shooting.

For example, if the I/O port connected to the wrong TX/RX, the software will alarm you and guide how to solve the problem.

1、 The alarm in dashboard

The wrong connected port will be highlighted with pink and it shows the detail information in the toolbar.

← → C 192.168.1.	205:8080/darwin/fram	ne/mainpage/ind	lex.html			0	• ස ස්
DIGIBIRD	avclink				admin	r 😷 🕸	English •
	Save Scene	O Refresh	E Preview		Search po Plos	link 1-5 Type error ase check the input and	
	Input port	5		Output ports		All	Select all
	1-1 1-1	1-2	) 1-2	1-3 1-3 (1)	R 14 14		
	1-5 1-5		) 1-6				
	1-7 1-7	(I) (1-8	) 1-8				
	Selected KN	Connected					
	(1-1)	(1-3) (1	-4)				
				Ok Cancel			

2、The alarm in settings

There will be an alarm message at the bottom, on which you can click the **[Click here to config]** button to solve the problem. The system will correct the properties of the port according to TX/RX info.



### 3、Alarm log

You are able to check or filter the alarm log in the menu of [Alarm].

DARWIN	×	and the second se		6 0 0 - 8
← → C [	] 192.168.1.205:8080/darwin/frame/manage/index.html?menu=ala	irm_management		¶s☆ ≡
DIGIBIRD	<b>N</b>		edmin 🐻   🕐	🕀   Dashboard >
Config	* All day ▼ State:Alarming▼ @Refresh			
**	Alarm Information	Alarm source	Alarm date	Relieved date
Users	Today 2017/08/02			
Backup	avclink 1-5 Type error     Please check the input and output type.	AVCUnk	2017/08/02 18:56:35	
	8			
ft System Upgrade				
Custom Resolution				
Factory	21			

## Users

You can add more users and setup different authorities.

#### Add a user

• Click [Users] in the menu bar.

C 192.168.1.205:8080/darwin/frame/manage/index.htm	nl?menu=alarm_management		<b>%</b>
BIRD		admin 🐻   ም	🕒   Deshboar
All day V StateAlarming CRefresh	<u>k</u>		
Alarm Information	Alarm source	Alarm date	Relieved date
Today 2017/08/02			
avclink 1-5 Type error		2017/08/02 18:56-15	
P Please check the input and output type.	AVCUek	and a find on an and a	04040350
···			
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tion			
é			

- Click Add button to open the [add new user] window.
- Fill in the user info > click **[OK]** button to confirm.

Add new u	ser		×
	Full Name:		-
	user		Optional
	Account ID:		
	user		
	Password:		Required
	Phone:		
	Email:		Optional
	Availability:		
	⊛Yes ⊚No		Required
		Yes	Cancel

• The added user information will be shown in the list.

Account ID	Full Name	Email	Phone	Availability
admin	admin			Yes
user	user			Yes

#### Authorities

You can distribute different authorities for different account.

1. Select one account > click Authorities button to open the [Authority] window.

#### Menu authorities

Click **[Menu]** button to set the software operating rights. For example, if you want to prohibit the <u>Config</u> and <u>Users</u> function for the "user" account, you should operate as follows: Set the **[Home Page]** and **[Setup Menus]** to be **Enable** > Set the **[Config]** and **[Users]** to be **Disable** > Click **[Save]** button to confirm.

1	Authority	View	
1	🖌 😋 Home Page	Enable     Disable	
2	AVCLink	Enable Disable Inherit	
	🖌 😋 Setup Menus	Enable     Disable	
	Config	Enable Disable Inherit	
	🖌 🔁 Users	Enable     Disable     Inherit	
	a 🗃 Authorities	Enable Disable Inherit	
	Permissions Saved	Enable     Disable     Inherit	
	🖹 Delete User	Enable Disable Inherit	
	Add User	○ Enable ○ Disable ● Inherit	
D	🖹 Edit User	○ Enable ○ Disable ● Inherit	
		Save	Disable

Au	uthority							
Me	enu AV	CLink						
	Authority		View					
1	4 😑 Hom	e Page 🔹 🖲 E	En able Disable					
2	A 🗐	VCLink Enabl	le Disable Inherit					
3	🔺 😋 Setu	ip Menus 🔍 🖲 E	Enable Disable					
4	E C	onfig OEnabl	le®Disable©Inherit					
5	4 😋 U	sers OEnabl	le®Disable©Inherit					
6	4 0	Authorities	le Disable Inherit					
7		Permissions Saved	le Disable Inherit					
8	E	Delete User	le <sup>©</sup> Disable® Inherit					
9	E	Add User						
10		] Edit User OEnabl	le <sup>©</sup> Disable® Inherit					
			Save Disable					

#### **Input Source authorities**

Click **[AVCLink]** button to set the input source authorities. For example, if you do not want the "user" account to operate the **[1-2]** and **[1-6]** input source, you should operate as follows: Set the **[Input ports]** to be **Enable** > Set the **[1-2]** and **[1-6]** to be **Disable** > Click **[Save]** button to confirm.

Menu AVCI i		
Authority	View	
1 🔺 🗁 Input p	Enable®Disable	e
2 🖹 [PC]	n able Disable In	herit
3 📑 [1-2	n able Disable In	herit
4 📑 [1-6	nable <sup>O</sup> Disable®In	herit
5 🚺 [1-7	nable <sup>©</sup> Disable®In	herit
6 🚺 [1-8	nable <sup>©</sup> Disable®In	herit
		Save Disable

Authority     View       1     Input ports     ®Enable@Disable       2     IPC]     Enable@Disable@Inherit       3     IPC]     Enable@Disable@Inherit       4     IPC]     Enable@Disable@Inherit       5     IPC]     Enable@Disable@Inherit       6     IPC]     Enable@Disable@Inherit		AVCLink	Menu
Imput ports     Imput ports       Imple:     Imple:       Imple:     Imple:	View	thority	Au
2     Import     Import       3     Import     Import       4     Import     Import       5     Import     Import       6     Import     Import       7     Import     Import       8     Import     Import       9     Import     Import       9     Import     Import       9     Import     Import       9     Import     Import	Enable Disable	🔁 Input ports	1 4
3               [1-2]            4              [1-6]              Enable® Disable® Inherit            5              [1-7]              Enable® Disable® Inherit            5              [1-8]              Enable® Disable® Inherit	○Enable○Disable●Inherit	[PC]	2
4               [1-6]             5              [1-7]            6              [1-8]	○ Enable ● Disable ● Inherit	[1-2]	3
5     Im [1-7] <ul> <li>Enable® Inherit</li> <li>5</li> <li>Im [1-8]</li> <li>Enable® Inherit</li> </ul>	○Enable Disable Inherit	<b>[</b> 1-6]	4
5 🕞 [1-8]	Enable     Disable     Inherit	[1-7]	5
	○Enable○Disable●Inherit	🗎 [1-8]	5

The explanation of three levels are as follows:

Enable The user will be permitted to user have this authority.
Disable The user will be NOT permitted to have this authority.
Inherit The permission will be decided by the status of the upper level or menu. For example, the status of [Users] is
Inherit, so it will be Enable when the [Setup Menu] is
Enable, and will be Disable when the [Setup Menu] is
Disable.

 Using the "user" account to login, you will see the differences between "admin" and "user": there is no the [Users] option in the menu bar on the dashboard, and the user can't operate the [1-2] and [1-6] resources.



### Edit

- Choose an account.
- Click Letter button.
- Fill in the new information in the pop-up window.
- Click **[OK]** button to confirm.

DARWIN	×			
← → C D	192.168.1.205:8080/darwin/frame/manage/i	ndex.html?r=0.5185995271895081		ଷ ପ୍ର ≡
DIGIBIRD				⊕   ⊕   Deshboard >
Config	Add  Add mobile user	Update the user account.	X Q Search	
	Account ID	Fu Full Name: 3	Phone	Availability
Users	admin	user		Yes
	user	Password:		Yes
Backup				
		Phone:		
Alarm	1	Email:		
ŶĿ		AusTabilita		
System Upgrade		@Yes ONo		
æ		<b>A</b>		
o⊌o Custom		ves Cance	e	
Resolution				
Factory				

#### Delete

- Choose an account.
- Click ODelete button.
- Click **[OK]** button in the pop-up window to confirm.

DARWIN	×				
← → C 🗋 1	192.168.1.205:8080/darwin/fram	ne/manage/index.html?r=0.51859	95271895081		¶o යේ ≡
DIGIBIRD	<b>`</b>			admin 🐻	①   🕀   Dashboard >
Config	Add O Add mobile	e user 🖌 Edit 🖉 🕞 Delete	Authorities     Please enter the us	ser name	
	Account ID	Full Name	Email	Phone	Availability
Users	admin	admin			Yes
	user	user			Yes
				~	
васкир		Message		~	
()		0	Are you sure to delete the user	17	
Alarm	1		3	l and	
ŵ,			UK UK	Cancel	
System					
opgiude					
\$\$					
Custom Resolution					
Factory					

# Backup and Restore

You can save the system configuration as backup file to the Matrix or PC in case of losing the configuration. The backup can be restored at any time.

### Backup

• Click the [Backup] button in the menu bar.

D DARWEN	×						ł		
← → C □ 1	92.168.1.205:8080/darwin/frame/manage/index.html?r=0.10494566359557211			_	_	_		¥ % 🔂 🗏	
DIGIBIRD		admin	10					Dashboard	
Config	③Fuckey Data ♠ Barters ↓ Dealiesd ↑ Tylind & Bartery								
<b>1</b> 0	Backup Tine					Jack	np Type		
Backup									
() Alarm	1								

• Click Deckup Data button to backup the hardware and software configuration, and the backup file will be stored in the matrix.

DARWIN		×		-								ł	
< → C	192.10	58.1.205:8080/dar	win/frame/mar	age/index.htm	nl?r=0.553387	6798581332			_	_			*a☆ =
DIGIBIRD								admin	50		D		Dashboard >
Config	Î	🕒 Backup Data	Sestore	X Delete	Jovaloud	t Upload & 1	Restore						
Lusers					Backup 2017-08-03	Tine 2 19:59:01					,	ackup Type Uzer	
Backup													
(!) Alarm	8												
िर् System Upgrade													
Custom Resolution													
Factory													

Select a backup file in the list, then click I pownload button to download it to PC.

D DARWIN	×				10.0	le	8 0 0
← → C 🗋 192	.168.1.205:8080/darwin/frame/manage/index.h	tml?r=0.5533876798581332					¶a ☆ ≡
			ədmin	6	٩	⊕	Dashboard >
Config	🕤 İschep Dets 🔰 İsttare 🗮 Milere	Towards The Street of Stre					
Le Users		1 2017-09-02 19:59:01				Backup Type Vasr	
Backup		Download					
() Alarm		Download Data Package(2017-08-02 19:59:01)					
ft System Upgrade							
Custom Resolution							
Factory							

**1** The AVCLink is able to backup data every day automatically and keep for 7 net days one time. The data on the 1<sup>st</sup> day will be displaced on the 8<sup>th</sup> day.

#### Restore

1. Restore the Matrix configurations.

Select a backup > click Sectore button.

DARWIN	×		ł	
$\leftrightarrow \Rightarrow  G$	192.168.1.205:8080/darwin/frame/manage/index.html?r=0.5533876798581332			•ි ක ≡
DIGIBIR	D			Dashboard >
Config	Of Suday lines 29 Interes X Sales 4 Section 1 Spice 6 Sectors			
Let Users			Backup Type Vsur	
Backup	Confirm X			
(!) Alarm	Are you sure to restore the active data?2017-08-02 19:59:01 2 Note: The system will restart, please login again.			
रि) System Upgrade	3 Yes Cancel			
Custom Resolution				
Factory				

2. Restore the PC configurations.

Click **Please choose a file**] button in the pop-up window > select a file that already stored before > click **[Upload]** button to restore the configuration.

Uploa	ad & Restore	×
	Please choose a file. Upload	
	0%	

3. The restore process

The screen will display a processing page when the system restoring. It is about 2 minutes to complete.

C starting Damin. X C	
🗲 🤿 🖸 192.168.1.205:8080/darwin/frame/manage/index.html?r=0.605561372358352	☆ =
Jandino -	
coacing	
Starting Darwin	

# Upgrade

Select and upload the upgrade file to complete. The user is able to request the latest firmware from your sales or contact our team at <u>sales@digibirdtech.com</u>.

- Enter the settings > click the [System Upgrade] button in the menu bar.
- Click [Please choose a file] button to add a file.
- Click [Upload & Upgrade] button to confirm upgrading.



# **Factory Configuration**

You can set the Factory Configuration if need, including Running Rate (Only the 4K device), Single Fiber Mode (When there is no need of KVM function), Default configuration (Eliminate all user configurations).

DARWIN	×								
← → C	192.168.1.205:8080/dar	win/frame/man	age/index.html	r=0.9399938671	849668				<b>₽</b> ☆ <b>■</b>
DIGIBIRD	<b>\</b>						admin 🐻	0	Dashboard >
Users	Speed Config 6.4G ¥	Reset Data							
					Single fiber config				
Backup	Card\Channel	1	2	3	4	5	б	7	8
$\bigcirc$	1	0		0	0		0	0	0
Alarm	2	0		0	0	8	0	0	
~	3			0	0				
14	4	0		8	0			0	0
Upgrade	5	0			0	0		0	
æ	6							0	
Custom	7	0		0				0	0
Resolution	8	0	0	0	0		0	0	8
E\$	9								
622 Factory	10	0	8	8	8		0		8
Config	11			8			0	0	
Ē	*2	-	-	1		-	-	-	
License					Cik				

#### Running Rate

If your Optic Transfer Unit support 4K, you can set the running rate to be 6.4G (Supports 4K) or 3.2G (Supports 1080P).



#### Single Fiber Mode

Each I/O card consists of 8x dual optical ports to transmit video and KM (control) signal via 2x pcs single mode fiber cables. If you don't need to use KM feature, you are able to use the dual optical ports to transmit 2x video signals in which one is input and the other is output, hence to make the I/O quantity double.

Operation as follows:

- 1. Select the ports which you want to change to be single mode;
- 2、 Click [OK] button at the bottom of the page.

3、Click [OK] button in the pop-up window to confirm. The system will restart and eliminate all the configurations you set before.

DARWIN	×								
- > C D	192.168.1.205:8080/da	rwin/frame/man	age/index.htr	nl?r=0.9135132	369119674				<b>略</b> 公 <b>三</b>
IGIBIRD	<						admin 🚳		Deshboard     Deshboar
Lusers 2	Speed Config 6.4G •	Reset Data							
⊟					Single fiber confi	g			
Backup	Card\Channel	1	2	3	4	5	6	7	8
$\bigcirc$	1	8		æ	8	2	2		
Alarm	2	8	8	8		0		8	0
~	3	8	0	Message		×		0	0
ેર	4	0	8	0	his action will reset data	and restart the server	0	0	0
Upgrade	5	8	8	()	would you like t	o proceed ?		8	
æ	6	8			3	Ok Cancel	8	8	
Q⊌D Custom	7	8		8					
esolution	8	0		8	0		8	8	0
E.	9	8	8	8		•	0	8	
	10	8	6	8	0	8	8	8	8
Config	11	8		8			8		
License	17				2 ok	]	-		- *

4. After the system restart, you can see the configured single ports with single mode in the **[Input Ports]** and **[Output Ports]** list.

avclink				admin 脳 🛈	🕀 🕸 English 🔹
B Save Scene	O Refresh	E Preview		Search ports	
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(13) 14		) 14	(1-3) 1-3	14 14	
(1-5) 1-6		) 14	(1-5) 1-5	1-6 1-6	
(17) 1-		8-1-8	(1-7) I-7	1-8 1-8	
Selected K3	4 Connected				

### Factory config

You can reset the factory settings:

- 1. Click [Reset Data] button in the [Factory Config] page.
- 2. Click the **[OK]** button in the pop-up window to confirm.

· → C □ 1	92.168.1.205:8080/d	arwin/frame/ma	inage/index.htn	nl?r=0.5934576	512907514				<b>%</b>
IGIBIRD	S						admin 题	©	🕀   Dashboard
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$\odot$	1	0	.0		0		0		0
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~	3	0	0	Message		>			•
151	4			0	This action will reset data	and restart the server		0	
Upgrade	5			Ų.	would you like to proceed ?		8		
æ	6				2	Ok Cancel	8		
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	12								

# License

For renew your license, please contact your sales or contact our team <u>sales@digibirdtech.com</u>.



# Appendix

# Glossary

The following terms are commonly used in this manual or in video and KVM technology.

Term	Explanation
Optic Transfer	Means the transmitter (TX) and receiver (RX) to connect with the ma-
Unit	trix input and output.
Fiber Cable	Single-mode or multi-mode fiber cables.
RX	The Receiver connected to the monitor, keyboard, mouse and Matrix.
ТХ	The Transmitter connected to the source (video, audio and USB) and
	Matrix.
KVM	Keyboard, Video and Mouse.
OSD	The On-Screen-Display control method to operate the device.
DisplayPort	A VESA standardized interface for an all-digital transmission of audio
	and video data. It is differentiated between the DisplayPort standards
	1.1 and 1.2. The signals have LVDS level.
DVI	Digital video standard, introduced by the Digital Display Working
	Group. Single Link and Dual Link standard are distinguished. The sig-
	nals have TMDS level.
HDMI	An interface for an all-digital transmission of audio and video data. It
	is differentiated between the HDMI standards 1.0 to 1.4a. The signals
	have TMDS level.
RCA (Cinch)	A non-standard plug connection for transmission of electrical audio
	and video signals, especially with coaxial cables.
VGA	Video Graphics Array (VGA) is a computer graphics standard with a
	typical resolution of 640 x 480 pixels and up to 262,144 colors. It can
	be seen as a follower of the graphics standards MDA, CGA and EGA.



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