# Cloud Platform Operation Manual on LedArt



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# Chapter 1 Overview

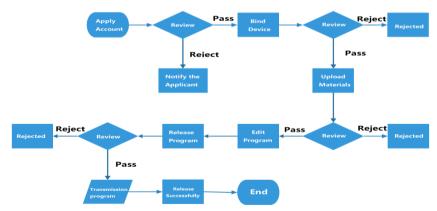
## 1. System Module

The cloud platform controlled by the mobile APP-LedArt, contains login interface, equipment, programs, materials, tasks and setting modules.



Fig. 1-1 System Management Module

- > Login Interface: login, registration, change password and switch language.
- Device: device grouping, device on/off line, time correction, brightness adjustment, update firmware and so on. Click "details" to see device information, program information, release record and online and offline records.
- Program:include single program and program list setting, create new programs, edit program, program preview, release programs and so on. You can check the release record and play control and so on in the program list.
- Materials:upload videoes, pictures, GIF and mterials waiting for manual review.
- Log:program released record, program release status and program record unreviewed.
- Setting:account information, change the bound mobile phone number, account management, set sub account and rolemanagement.



#### 2. Program Release Process

Fig. 1-2 Release Process

1) If the fail to release program due to the network interruption, the data will be automatically reissued after the network communication is normal;

2) If the data delivery fails due to insufficient device disk space, the data will not be reissued automatically.

3) Applying for an account, binding device, uploading materials, and releasing programs need to be reviewed by the platform administrator

# Chapter 2 Module Function

# 1.Login Interface

# 1) Login Account

Open "LedArt", which default is the stand-alone version, click "Settings" in the lower right corner, as shown in Figure 2-1, choose to switch to the cloud platform, then you can enter the login interface.

5:31 PM   595KB/s ऌ Settings	M 🗟 🛐	5:34 PM 11.5KB/s (3 Set 19:10)
Language	>	
🔁 Firmware management	>	Account login
🖻 Hardware parameter mana	gement >	User name, mobile phone number, email
🟠 Download management	>	
Selection tool	>	Password
🗟 Wi-Fi password	>	Account login
Program read back		Single vision Forget password   Registe
∝ Share app	>	
⑦ Help	>	
About us	>	
loud platform	>	
🗄 Display products	>	
🖆 Clear cache	0 B	
Account	>	
Program Device	्रुः Settings	
	3	

Fig. 2-1 Login Interface

# 2) Register Account

Click "register account" in the login interface, Figure 2-2.

10 <sup>10</sup> .11 🕱		🐼 💷 + 10.51
User name		
4-20 chara	cters, beginning v	vith a letter, cannot
Password		
Password le	ength is 8~32 dig	its, and must conta
Confirm pa	ssword	
Please re-er	nter the password	1
Company n	ame (optional)	
Please ente	r the company or	team name
Mailbox		
Please ente	r your vaild email	
E-mail verif	ication code	
E-mail verifi	cation code	Get
V Agree	erms of Service a	nd Privacy Policy
	Registered	

Fig. 2-2 Interface of Registering an Account

Note: A. You can get a verification code by email.

B. You must fill in the correct company name, and email address so that the platform administrator can review it smoothly.

#### 3) Retrieve Password

Click "Forgot Password" in the login window, enter the email adress bound to the account, and the system will send a verification code to the email, as shown in Figure 2-3, enter the verification code, and the password can be reset in the next step, Figure 2-4.

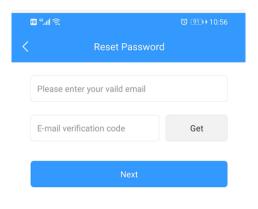


Fig.2-3 Get Verification Code

<	Set password	
	Enter password	
	Confirm password	
	ОК	

Fig.2-4 Retrieve Password

# 2. Device Management

Device management is divided into two parts: device list and device map.

Each online device is in the ungrouped list by default, as shown in Figure 2-5.

6:00 PM   1	.7KB/s ⊘		280	- 
ê	D	evice list		· · · ·
🗌 test (	1			^
	-00-A324 Plaver	45 1920×108	30	
Ungro	uped 🕕			~
Dav	9-A0B89	128x128		
Q		\$		ŝ

Fig.2-5 Device List



gray represents offline, green represents online.

# 1) Device Grouping

Click " — " in the upper left corner, select "Manage Group", and then click " — " to create a group at the same level, Figure 2-6.

6:01	I PM   0.3KB/s Ö	Device list	an ⊕ 100 	6:02 РМТ0.9КВ/s छ < Management Group	an ⊗ œ⊃	6:02 РМ   0.3КВ/s 😇 🥥	M \$ 50
Sep	arate Group		$\sim$	test La11302		IIII test la11302	
	nagement Gr Idled progran	-	$\sim$			Group Name	
Ren	dlee program	1 UST		Ad	d peer group	$\begin{array}{c} \text{Please enter a name:}\\ \text{LCD}\\ \\ \text{Confirm}\\ \\ \text{Confirm}\\ \\ \text{Q}\\ $	а а а а а а а а а а а а а а а а а а а
						123 P P 1	*** 3~
Ģ	8	\$	= ¢				Ē

Fig. 2-6 Add Sub Account

In the ungrouped, select the device, and then click the "set group" above to assign it to the corresponding group, as shown in Figure 2-7.

6:03 PM   1.5KB/s 🗇	Device list	%i € ®) 	6:07 PM   9.3KB/s ☺ < Separat	ा स्टब्स् e Group रिस्	6:07 PM   1.0KB/s ऌ	Device list	) ( ) 
Separate Group		^	test la11302		test 0		~
Management Gro	1920/10	80 •	LCD				^
Bundled program Remove device	n list	$\sim$	Ungrouped		M20-00-A	3245 1920x1080	•
Search for		$\sim$			Ungrouped	1	$\sim$
	\$	E \$			<b></b>	☆ 🗉	{ĝ}
- ~	M	C (2)				~ 0	653

Fig.2-7 Set Group

In addition, in the group, you can also create sub-groups, as shown in Figure 2-8.

< Manageme	Management Group					
test la11302						
LCD						
Ungrouped	Add peer group					
	Add subgroup					
	Edit name					
	Delete					

Fig. 2-8 sub-group in group

# 2) Device Information

Click the device to enter the details interface of selected device. On this interface, you can view the basic information of the device, including networking mode, firmware version, playback status, remaining space, etc., as shown in Figure 2-9.

6:07 PM   0.1KB/s 🗑	M 🗟 🗊	6:07 PM   0.4KB/s 🗇	1 q B
🖹 Device list		< Equipn	nent details 🛛 😶
test 0	$\sim$	Device ID	M20-00-A3245
	~	Name	MagicPlayer
M20-00-A3245 1920x1080	•	Online status	Online
MadicPlaver	-	Player version numb	er 1.3.7.0
Ungrouped 1	~	Locked state	Locked
		Volume	73%
		Remaining space	5.42GB
		Playing state	Stop play
		Multi-screen synchr	onization Shut down
		Screen rotation	Not selected
		Configuration	RAM: 2GB, ROM: 8GB
		Start Time	2021/03/18 18:00:02
		Android version num	nber 7.1.2
		Kernel version numb	er 4.4.143
		Compiled version	1598522203000
		Screenshots	View Carried out
		Time	>
		Brightness	>
	<u>ين</u>	Switch machine	>
ע ≣ ייע די	502		

Fig. 2-9 Device Details

- > Device ID: ID of selected device now;
- > Name: name of selected device now;

- Online status: Online means the device is connected, offline means the device is disconnected;
- Locked status: Lock the device, no operations can be performed on the terminal, only related to the display;
- FPGA version: The current device's mailing software version, which is related to some function;
- > Volume: Current device volume;
- > Remaining space: Space left in the device;
- > Playing state: Program is playing, turned off or on screen, etc.;
- Multi-screen synchronization: The content on multiple screens is the same, and the playback progress is the same;
- Screen rotation: Screen rotation 90°, 180° and 270°;
- > Play mode: Loop play or sequence play;
- > Key Function: Change the function of the test button;
- > Firmware version: Check the firmware version;
- > Time: Time on device;
- Brightness: Brightness on device;
- > Switch machine: Set the switch time of the device;
- Networking information: How the device connects to the Internet-wired, Wi-Fi or 4G;
- Release record: Can view the task release record of the device;
- Program information: You can view the number of programs in the device, the name of the program, and the space occupied by the program, and you can "delete" and "preview" the program;
- Online and offline records: You can view the online and offline records of the device.

# 3) Delete Program

Click [Device], then select "Program Information", select the corresponding program to delete, Figure 2-10.

6:07 PM   0.1KB/s 😇	11 <del>(</del> )	6:08 PM   1.8KB/s 🗇	11 R ED	6:10 PM   1.3KB/s 🕤	%i ≈ ®>
🖹 Device list		< Equipment	details …	< Program information	Delete
test 0	$\sim$	Locked state	Locked	LCD 16.41MB 2021/03/18 18:10:07	
	^	Volume	73%	10.4111b 2021/03/10 10/10/07	
M20-00-A3245 1920x1080 C	lick •	Remaining space	5.42GB		
Ungrouped 1	$\sim$	Playing state	Stop play		
		Multi-screen synchroniza	ation Shut down		
		Screen rotation	Not selected		
		Configuration RA	AM: 2GB, ROM: 8GB		
		Start Time	2021/03/18 18:00:02		
		Android version number	7.1.2		
		Kernel version number	4.4.143		
		Compiled version	1598522203000		
		Screenshots	View Carried out		
		Time	>		
		Brightness	>		
		Switch machine	>		
		Networking information	Wired network $>$		
		Release record	>		
		Program information	>		
	<u>نې</u>	Online and offline record	ds >		

Fig. 2-10 Delete Program

# 4) Other setting

Select single or multiple devices in the device list, and click "..." in the upper right corner to perform time correction, brightness setting, power on and off, etc., as shown in Figure 2-11.

Operation manual of cloud platform oon phone (search for "LedArt" in mobile application stores and download)

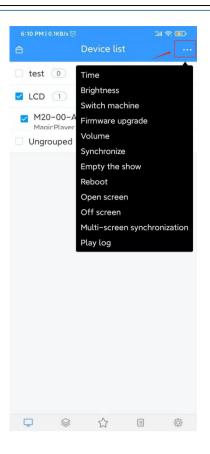


Fig. 2-11 Other Setting

# 3.Program Management

# 1) Program List

Click [Program] at the bottom to enter the program list, Figure 3-1.

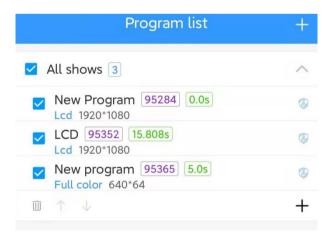


Fig. 3-1 Program List



3 : There are 3 programs in total

- > New Program . Program name, can be renamed;
- Lcd: Program type;
- 1920\*1080: Resolution;
- 30.0s
  Total duration;
- ▶ 87057 : Program ID;
- If this icon is red, it means that the program is suspected of containing sensitive words or illegal information, which can only be released after manual review;

#### 2) New Program

Click " 🚟 ", define the program name, set the screen width and height in the new program dialog box or select the corresponding device to read back the screen width and height, click "OK", Figure 3-2.

7:26 PM   0.0KB/s 😇 🐵	11 R 💷	7:26 PM   0.0KB/s 🕤	• M 🗢 🗹	7:26 PM   0.9KB/s	ପ 🔿	31 R 📼
Program			lew program		New program	
All shows 3	\$₽ 	Program name	9	0,0 1920,1080		
New Program 95284	New program 🛞	New program				
LCD 95352 15.808s Lcd 1920*1080	Batch release	Resolution				
New program 95365	Delete show Release history	Width	1920			
Full color 640*64	Search for +	Height	1080	8		
	Bind to playbill	Choose devie	ce >			
Program list 0s 0 Full color 128*128	~	choose devi	/	- 3		
		Equipment ty	/pe LCD ▼			
			Full color LCD	Progra		50%
				Specify date		
				Specify time		
				Mon., Tues.,	Wed.、Thur.、Fri.、Sa	at. , Sun. >
				Specify the pla	aying time	
			ок			

Fig. 3-2 New Program

# 3) Edit Program

On the editing page, you can add multiple areas, pictures, videos, texts, spreadsheets, web pages, etc. After editing, click "Save", Figure 3-3.

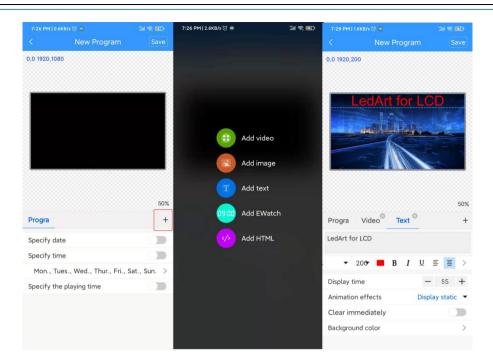


Fig. 3-3 Program Editing Interface

A. Select the picture or video area, you can add multiple pictures or videos to play in turn.

7:30 PM   0.0KB/s (	ð 👄	311 <del>(</del> ) 📧 (
<	New Program	Save
0,0 1920,1080		
		No.
		La
-		
-		
		50%
Prog <u>ra <b>Vide</b></u>	o <sup>©</sup> Text <sup>©</sup>	
Progra Vide	lext	+
+		
Keep aspect rat	io	

Fig. 3-4 Add multiple pictures

Note: Video, text, and clock editing are similar, so won't be mentioned here. It is worth noting that the video, text or clock area under a program is overlapped, and multiple pictures or videos can be added to a picture or video area to play in a loop. But if you want to play the video or text again after the picture is played, you need to add another program.

#### 4) Release Program

Exit the program editing interface, select one or more programs with the same size in the program list, and release the program, as shown in Figure 3-5.

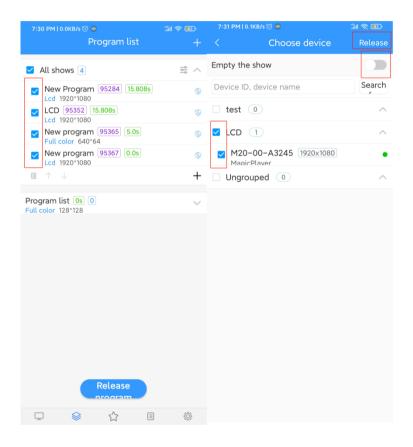


Fig. 3-5 Release Program

Note:

1. When multiple programs are released at the same time, the program size must be the same;

2. When the program is released, if you choose the "Empty the show", all the programs send before on the device will be cleared, and then the new program will be updated; the default is not to turn on this, the default is to add a new program after the original program;

3. If the device has the same ID number, it will replace the program send before with the same ID number by default;

$\checkmark$	New Program	95284	15.808s	(3)
_	Lcd 1920*1080			*

Fig. 3-6 Program ID

For example, the program ID-87057 has been sent to the device, and then I edit the program again, add pictures or videos, etc., and then send it. By default, the previously sent program-220 will be overwritten.

After releasing, check the sending status in the task list, as shown in Figure 3-7.

7:33 РМ   514КВ/s © ⊜ Task list	<b>اللہ (19</b>	7:33 PM   539KB/s ऌ <	। 💿 👘 🕲 🖬 🛪 🗃 Task details 💦 📿
Update program 2021/03/18 18:10:02	1/1 >	Task ID	182902
Real-time instruction 2020/12/18 13:12:24	1/1 >	Creator Event type	la113 Update program
Setting parameters 2020/12/18 13:10:05	1/1 >	Task status	Completed
Real-time instruction 2020/12/18 13:08:12		Send successfu Failed to send	illy 1 0
Real-time instruction 2020/11/16 09:38:49	0/1 >	Total events	1
Real-time instruction	0/1 >	Creation time Event list	2021/03/18 18:10:02
Real-time instruction 2020/11/12 11:53:59			
Real-time instruction 2020/10/26 10:47:36	1/1 >		
Setting parameters 2020/10/22 11:47:50	1/1 >		
Real-time instruction 2020/09/23 16:03:42	1/1>>		
Real-time instruction 2020/09/21 16:34:01	1/1>>		
Setting parameters 2020/09/21 16:32:54	1/1>>		
🛲 Real-time instruction 口 😪 ☆			

Fig. 3-7 Task Status

# 5) Program List

Click the "+" at the upper right corner of the program management interface, as shown in Figure 3-8, set the program name, screen width and height or select the device to read back the screen width and height, and then click "OK".

Program list	+	< New p	rogram list	Program list	+
All shows 3	i	Program name		All shows 3	~
New Program 95284 15.808s	۲	Program list		Program list 0s 0	~
✓ LCD 95352 15.808s Lcd 1920*1080	۵	Resolution		Full color 128*128	
New program 95367 0.0s	۲	Width	1920	Program list 0s 0 Lcd 1920*1080	
Lcd 1920*1080	+	Height	1080		+
Program list 0s 0	~	Choose device	>		
full color 128*128	Ť	Equipment type	LCD 👻		
Release				Release	
				program	
	(j)		ОК		

Fig.3-8 Add Program List

A. Click  $\stackrel{\text{def}}{=}$ , select "Binded Device"  $\rightarrow$  "Add", then select the device, and click "OK", as shown in Figure 3-9.

Program list     +     Bound device     Add to     Choose device       All shows 3     Search     Device ID, device name     Search       Program list (%) 0     test
All shows 3 Control hand Contro
Program list Us U
Program list 0s 0 C 1
Lcd 19201080
Image: Player       Untie
Batch release
Delete playbill
Edit name Release history
Search for
Bound device No data
Release
□ ♀ ☆ 目 ↔

Fig. 3-9 Add New Device

B. Add new programs in the program list, as shown in Figure 3-10.

		7:35 PM   0.0KB/s 😇 ••	31 <del>\$</del> 53	7:36 PM   2.3KB/s 🗇 😑	
Program list		Program list		< New program	
All shows 3	$\sim$	All shows 3		0,0 1920,1080	
Program list 0s 0 Full color 128*128	$\sim$	Program Program name			
Program list 0s 0	÷ ^	Pro Please enter a name:	⇒ ^		
	+	New program	+		
		Confirm			
					50
		\$\$ ≡ © ⊕ <i>∿</i> Q	•	Progra	
		0-	▼ 8 9 0 1 0 P	Progra Specify date	
		Q W E R T Y U	* 7		
		Q W E R T Y U	* 7	Specify date	50 - - - - - - - - - - - - - - - - - - -
		$ \begin{array}{c} \widehat{0}1 \\ \widehat{0} \\ $	к ỉ	Specify date Specify time	
Release		$ \begin{array}{c} \widehat{0}1 \\ \widehat{0} \\ $	к ỉ	Specify date Specify time Mon., Tues., Wed., Thur., Fr	

Fig. 3-10 Add Program in Program List

C. Creating a new program is the same as the program editing operation introduced above. You can create multiple programs, and then release or synchronize these programs to the device, as shown in Figure 3-11.

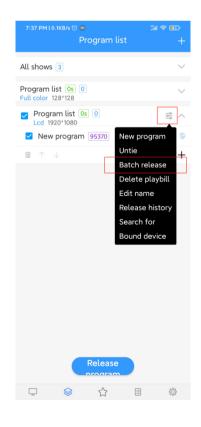


Fig. 3-11 Program List

# Note:

Batch release: Send programs to device selected, the program on the device (the program ID is different from the currently released program ID) will still be retained, and the new program (new ID) will be added to the device;

#### 4. Materials Management

In the material list, all resource information can be previewed by default, and can also be filtered and previewed by pictures and videos, as shown in Figure 4-1. Click on a picture or video to zoom in and preview. In unreviewed materials, you can view the uploaded but unreviewed materials.

		aterials ~	≈ © +
Material na	ime		Search
A be marked will Record Hamilton a district, Risking - (Missiner) - (Missiner) - image_1	可 <sup>一</sup> 场 <b>4108</b>		D:00:15 ?视频 −
Ţ		☆	 ŝ

Fig.4-1 Materials Management List

In order to save time, the resources to be played (pictures, videos) can be uploaded to the server in advance, and the resources on the server can be directly called in the process of editing the program, which reduces the waiting time and effectively improves the efficiency.

Click the "+" button in the upper right corner of the material list, and click the "Select" button in the pop-up dialog box to select the material to be uploaded, Figure 4-2.

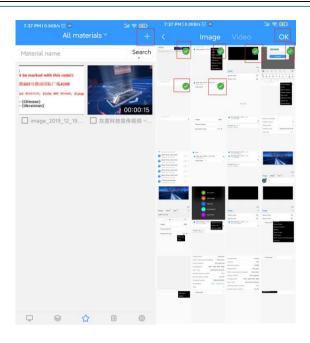


Fig. 4-2 Upload Materials

# 5.Task List

In the task list, you can view all records. Select a task, you can view the task details and task status.

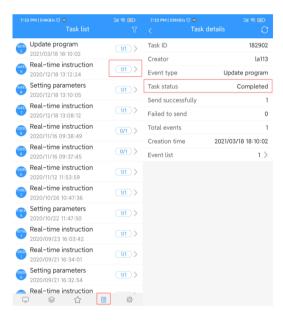


Fig. 5-1 Task Status

Among them, the statistical status: A/B, A represents the number of successfully sent; B represents the total number of tasks (devices) that have been successfully sent; such as 1/1, which means that a task has been sent successfully, and the total number of tasks is 1;

# 6.Setting

Setting management includes three parts: language, switching version and account information, as shown in Figure 6-1.

Settings	
🗢 Language	>
Switch stand-alone version	>
Account	>



# 1) Change Language

Currently supports 20+ languages such as Chinese, English, Turkish, Spanish, Japanese, Russian..., Figure 6-2.

2:52 PM   0.4KB/s <sup>™</sup>	în 🗟 💼	2:52 PM   0.3KB/s 🗇 ··	31 I I I I I I I I I I I I I I I I I I I
Settings		< Language	
Language	>	Following system	0
☐ Switch stand-alone version	>	中文简体	0
Account	>	中文繁體	0
		English	•
		Türk	0
		Deutsch	0
		español	0
		فارسی	0
		日本語	0
		한국어	0
		русский	0
		polski	
⊊ <b>⊗ ☆</b> ≣	<b>\$</b>	Cancel	ОК

Fig. 6-2 Language Change

Among them, the language of the mobile phone is the following system, and what language will the software language be switched to. If the mobile phone system language software does not support it, it will be switched to English.

# 2) Switch Version

As shown in Figure 6-3, after switching to the stand-alone version, the supported functional modules are different.

2:52 PM   0.4KB/s 😇 😶	31 I I I I I I I I I I I I I I I I I I I	2:54 PM   534KB/s 🗇 · ·	31 R B
Settings		Der Progr	am list -
Language	>	Screen11 Full color A5 128*128	
Switch stand-alone ver	rsion >	Sew program1	
Account	>	$\square$ $\uparrow$ $\downarrow$	New program
		Se	end

Fig. 6-3 Switch Version

# 3) Account Information

Account information includes Account ID, User name, Mobile phone number and Mailbox, etc., Fig. 6-5.

2:52 PM I 0.4KB/s ☺ ·· Settings	11 <b>q 8</b> 0	2:54 РМ   3.8КВ/s 🗇 ·· < Ваsic Info	ିଲା କ୍ଲ 📼 rmation
Language	>	Account ID	3391
Switch stand-alone version	>	User name	la113
8 Account	>	Company Name	灰度科技
Account	/	Mobile phone number	15663766392 >
		Mailbox	>
		Two-factor authentica	tion
		Character En	terprise administrator
		Last login	2021/03/19 14:52:08
		Last login IP	36.157.196.171
		Change Password	>
		Sign	out
	<b>\$</b>	Sign	Jui

Fid.6-4 Permission Settings

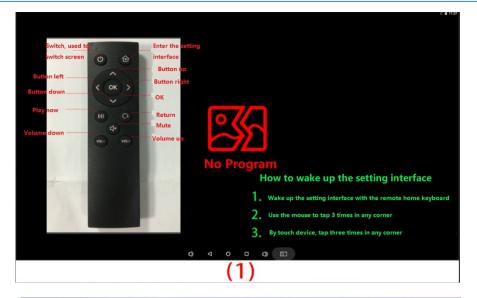
Note:

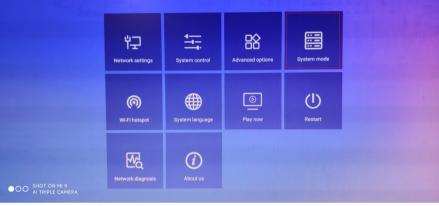
- Turn on Two-factor authentication, when log in to your account, need a password + mobile phone verification code;
- > Where user modified the phone number, but when modifying, the verification code received by the old phone must be required;
- > When changing the password, mobile phone verification code is also required.

## Note:

# Cloud Platform Device Binding Instructions (terminal device operation)

1. Account and Controller Binding Settings





	Syst	em mode			
System mode			•	Stand-alone	
Stand-alone setting					
Loading mode			•	Сору	
Play time					
Fill style			•		Þ
SHOT ON MI 9 AI TRIPLE CAMERA		Cance			

System r	System mode	
Stand-alone		
Networking	•	

Networking set Server address https://www.led-cloud.co		System mode	•
Server address https://www.led-cloud.co	System mode		Networking
	Networking set		
Username Enter username click Save	Server addres		https://www.led-cloud.com
coordinatione Efficience Save	Username	Enter username, click Save	
Connection Status Not connected	Connection S	tatus	Not connected
	MI 9 CAMERA	Save	Cancel