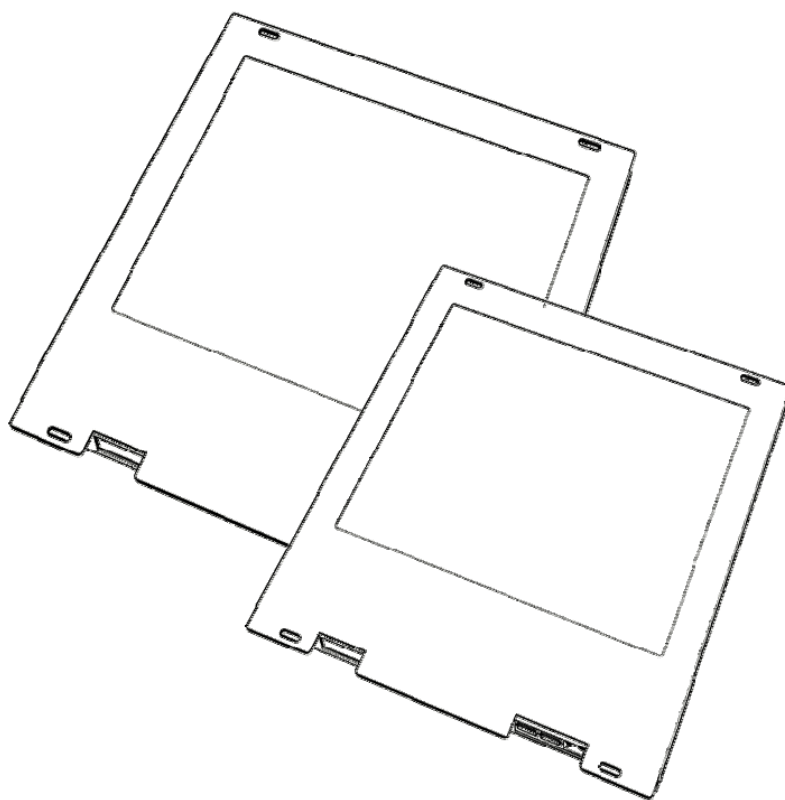


# LCD 10.4 寸&12.1 寸

## 多媒体液晶显示器使用说明书

OPERATION MANUAL



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## 1. 产品介绍 PRODUCT DESCRIPTION

### 1.1 产品效果图 Product Picture



### 1.2 LCD10.4 显示器参数 LCD10.4 Technical Parameter

屏幕尺寸 Screen Size	LCD10.4	工作电压 VOL	DC16.5-32V
RTC	内置	扬声器 Speaker	内置(1W)
显示区域 Display Zone	210.8mm×157.8mm	分辨率 Resolution	1024*768
显示视角 Visual Angle	85-85-85-85	工作环境 Work Environment	-10 ~ 60°C, 10~95%RH
对比度 Contrast Ratio	500:1	存储环境 Storage Environment	-20 ~ 70°C, 10~95%RH
USB	USB2.0 TypeA	网络 Network	10/100M

### 1.3 LCD12.1 显示器参数 LCD12.1 Technical Parameter

屏幕尺寸 Screen Size	LCD12.1"	工作电压 VOL	DC16.5-32V
RTC	内置	扬声器 Speaker	内置(1W)
显示区域 Display Zone	243.8mm×182.8mm	分辨率 Resolution	1024*768
显示视角 Visual Angle	85-85-85-85	工作环境 Work Environment	-10 ~ 60°C, 10~95%RH
对比度 Contrast Ratio	500:1	存储环境 Storage Environment	-20 ~ 70°C, 10~95%RH
USB	USB2.0 TypeA	网络 Network	10/100M

## 2. 功能特性 FUNCTIONS

- 实时显示电梯的楼层信息、运行方向、功能状态等信息。Real-time display of floor information, direction and functional status of elevator.
- 实时显示日期、星期、时间。Display Date, week, clock.
- 具有视频、图片的播放功能。With video, pictures, media function.
- 内置扬声器。 Built-in speakers.
- 支持 RJ45 网口主副屏同步显示。Support RJ45 Network Port main and synchronous display.
- 可通过 U 盘更新界面主题、视频、图片等。Update interface theme, video, images by U disk.
- 显示器空闲待机。Standby when elevator is IDLE.

## 3. 设备接口 DEVICE CONNECTORS



接口名称 Connector Name	连接器型号 Type	接口编号 Interface number	信号定义描述 Description
通讯接口/RSL JC1	VH3.96-4AW	1	RSL+电源正极+24V
		2	RSL-电源负极 GND
		3	RSL CLK 输入时钟 CLK
		4	RSL DAT 输入数据 DA
USB 接口 USB Connector	USB2.0	USB1 USB2	连接鼠标设置参数; Connect mouse to set parameters 更新界面主题; Update the interface theme; 更新视频 Update video
RJ45 网口 RJ45 Network	RJ45 Network		主副屏同步视频使用 The primary and secondary screens are synchronized for video

备注 Remarks:

【1】USB 接口：两个标准的 USB2.0 接口，**可用于系统升级、播放视频更换、更改液晶屏设置等**。（功能相同，无主次区分） USB interface: Two standard USB2.0 interface, can be used for system upgrade, play video replacement, change the LCD screen Settings, etc. (Same function, no distinction between primary and secondary)

【2】RJ45 网口：用于液晶屏主、副机播放视频的同步，网线长度可达 10 米。 RJ45 Port: used for the synchronization of video playback between the main and auxiliary units of the LCD screen, and the length of the network cable can reach 10 meters.

### 4. 液晶显示器设置 LCD DISPLAY SETUP

鼠标端口插入液晶显示屏的 USB 接口（预留两个 USB 接口，插入任一接口即可），界面上鼠标标识可以任意移动时，在界面的任意位置**双击鼠标右键**进入液晶屏设置界面，设置界面包含【设置界面语言设置】，【时间、日期设置】，【正常&休眠亮度设置】，【休眠时间设置】，【媒体&通知音量】，【IP 地址设置】和【主题界面设置】。

Insert the mouse into the USB interface of the LCD screen (two USB interfaces are reserved for the LCD, and you can insert it into any interface). When the mouse identifier on the interface can be moved at any time, double-click the right mouse button at any position on the interface to enter the LCD screen setting interface, which includes [setting interface language setting], [time and date setting], [Normal and sleep brightness setting]. [Sleep time Settings], [Media & Notification volume], [IP address Settings] and [Theme interface Settings].

#### 4.1 设置界面语言设置（退出） Set The Settings Interface Language(Exit)

第 1 步：将鼠标**光标**置于“语言选择”框内的操作对象（中文和英文），鼠标**单击左键**实现“中文设置界面”和“英文设置界面”的切换。

Step 1: Place the mouse cursor in the operation object (Chinese and English) in the "Language Selection" box, and left-click the mouse to switch between "Chinese Settings Interface" and "English Settings Interface".

第 2 步：设置完成后，鼠标**左键单击**设置界面的“退出”即可完成设置。

Step 2: After the setup is complete, left-click "Exit" on the setup interface to complete the setup.



中文设置界面 Chinese Setting Interface

英文设置界面 English Setting Interface

## 4.2 显示亮度设置（退出） Display Brightness Setting(Exit)

### 4.2.1 正常显示亮度设置（退出） Normal Display Brightness(Exit)

第 1 步：将鼠标光标置于“正常亮度”框内，按住鼠标左键不松开，上下滑动鼠标或者将鼠标光标置于“正常亮度”框内，上下滑动鼠标滚轮即可进行修改操作。（出货默认正常亮度为 100%）

Step 1: Place the mouse cursor in the "Normal brightness" box, hold down the left button of the mouse, slide the mouse up and down or place the mouse cursor in the "normal brightness" box, slide the mouse wheel up and down to modify the operation.(Shipment default normal brightness is 100%)

第 2 步：设置完成后，鼠标左键单击设置界面的“退出”即可完成设置。

Step 2: After the setup is complete, left-click "Exit" on the setup interface to complete the setup.



### 4.2.2 休眠显示亮度设置（退出） Set The Sleep Display Brightness Setting(Exit)

第 1 步：将鼠标光标置于“休眠亮度”框内，按住鼠标左键不松开，上下滑动鼠标或者将鼠标光标置于“休眠亮度”框内，上下滑动鼠标滚轮即可进行修改操作，休眠亮度主要影响到液晶屏的功耗。（出货默认休眠亮度为 50%）

Step 1: Place the mouse cursor in the "Sleep Brightness" box, hold down the left mouse button without letting go, slide the mouse up and down or put the mouse cursor in the "Sleep Brightness" box, and slide the mouse wheel up and down to modify the operation, the sleep brightness mainly affects the power consumption of the LCD screen. (The default sleep brightness of the shipment is 50%)

第 2 步：设置完成后，鼠标左键单击设置界面的“退出”即可完成设置。

Step 2: After the setup is complete, left-click "Exit" on the setup interface to complete the setup.



### 4.3 休眠时间设置（退出） Sleep Time Setting(Exit)

**第 1 步：**将鼠标光标置于“休眠时间”框内的左右箭头，单击鼠标左键即可进行修改操作，共有 4 种休眠时间可供用户选择，分别是 5 分钟，15 分钟，60 分钟和永不休眠，进入休眠模式后的表现为屏幕亮度由正常亮度变为休眠亮度，一旦有呼梯信号液晶屏会立刻退出休眠模式进入正常运行状态。（出货默认休眠时间为 15 分钟）

**Step 1:** Place the mouse cursor in the left and right arrows in the "Sleep Time" box, click the left mouse button to modify the operation, there are 4 kinds of sleep time for users to choose, respectively, 5 minutes, 15 minutes, 60 minutes and never sleep, after entering the sleep mode, the screen brightness changes from normal brightness to sleep brightness, once there is a call signal, the LCD screen will immediately exit the sleep mode and enter the normal operation state. (The default sleep time for shipment is 15 minutes)

**第 2 步：**设置完成后，鼠标左键单击设置界面的“退出”即可完成设置。

**Step 2:** After the setup is complete, left-click "Exit" on the setup interface to complete the setup.



### 4. 4 媒体和通知音量设置（退出） Media & Notification Volume Setting(Exit)

#### 4. 4. 1 媒体音量设置（退出） Media Volume Setting(Exit)

**第 1 步：**将鼠标光标置于“媒体音量”框内，按住鼠标左键不松开，上下滑动鼠标或者将鼠标光标置于“媒体音量”框内，上下滑动鼠标滚轮即可进行修改操作。（出货默认媒体音量为 50%）

**Step 1:** Place the mouse cursor in the "Media Volume" box, hold down the left button of the mouse, slide the mouse up and down or place the mouse cursor in the "Media Volume" box, and slide the mouse wheel up and down to modify the operation.(The shipping default media volume is 50% )

**第 2 步：**设置完成后，鼠标左键单击设置界面的“退出”即可完成设置。

**Step 2:** After the setup is complete, left-click "Exit" on the setup interface to complete the setup.



#### 4. 4. 2 通知音量设置（退出） Notification Volume Setting(Exit)

**第 1 步：**将鼠标光标置于“通知音量”框内，按住鼠标左键不松开，上下滑动鼠标或者将鼠标光标置于“通知音量”框内，上下滑动鼠标滚轮即可进行修改操作。（出货默认通知音量为 100%）

**Step 1:** Place the mouse cursor in the "Notification Volume" box, hold down the left button of the mouse, slide the mouse up and down or place the mouse cursor in the " Notification Volume" box, and slide the mouse wheel up and down to modify the operation.(The shipping default Notification volume is 100% )

**第 2 步：**设置完成后，鼠标左键单击设置界面的“退出”即可完成设置。

**Step 2:** After the setup is complete, left-click "Exit" on the setup interface to complete the setup.



#### 4.5 时间和日期设置（重启） Set Time And Date(Restart)

**第 1 步：**将鼠标光标置于日期框内单击鼠标左键进入设置，将鼠标光标置于要操作的对象（年-月-日-时-分）滑动鼠标滚轮即可进行修改操作。

**Step 1:** Place the mouse cursor in the date box, click the left mouse button to enter the setting, place the mouse cursor on the object(Year-Month-Day-Hour-Minute) to be operated and slide the mouse wheel to modify the operation.

**第 2 步：**设置完成后，鼠标左键单击设置界面的“重启”即可完成设置。

**Step 2:** After the setup is complete, left-click "Restart" on the setup interface to complete the setup.



#### 4.6 IP 地址设置（重启） IP Address Setting(Restart)

**第 1 步：**确保液晶屏使用静态 IP 地址，下图中“使用静态 IP 地址”框内若显示使用动态 IP 地址，鼠标左键单击“使用静态 IP 地址”框的右半部分切换为静态 IP 地址，然后鼠标左键单击“IP 地址框”进入 IP 地址更改。主副屏播放视频同步时需确保主屏 IP 为 192.168.1.11；副屏 IP 为 192.168.1.12。

**Step 1:** Make sure that the LCD screen uses a static IP address, if the "Use Static IP Address" box in the figure below shows that a dynamic IP address is used, left-click the right half of the "Use Static IP Address" box to switch to a static IP address, and then left-click the "IP Address Box" to enter the IP address change. When playing video synchronization on the main and secondary screens, make sure that the IP address of the main screen is 192.168.1.11. The secondary screen IP address is 192.168.1.12.

**第 2 步：**设置完成后，鼠标左键单击设置界面的“重启”即可完成设置。

**Step 2:** After the setup is complete, left-click "Restart" on the setup interface to complete the setup.



## 4.7 主题界面 Theme Interface

### 4.7.1 主题界面 Set Theme Interface

**第 1 步:** 将鼠标光标置于“主题选择器”框内，鼠标左键单击进入主题选择界面，每种语言共有四种界面可供用户选择，将鼠标光标置于要选择的主题，鼠标左键单击主题后再鼠标左键单击应用。（默认出货的主题界面以订单为准）

**Step 1:** Place the mouse cursor in the "Theme Selector" box, left-click to enter the theme selection interface, there are four interfaces for each language for users to choose, place the mouse cursor on the theme you want to select, left-click on the theme and then left-click on the application. (The theme interface of the default shipment is subject to the order)

**第 2 步:** 鼠标左键单击“重启”完成设置。

**Step 2:** Left mouse button click "Restart" to complete the setting.



### 4.7.2 主题界面格式 Theme Interface Format

#### 1) OTIS 主题界面 Theme interface



中文界面 Chinese



英文界面 English



西班牙文界面 Spanish



葡萄牙文界面 Portuguese

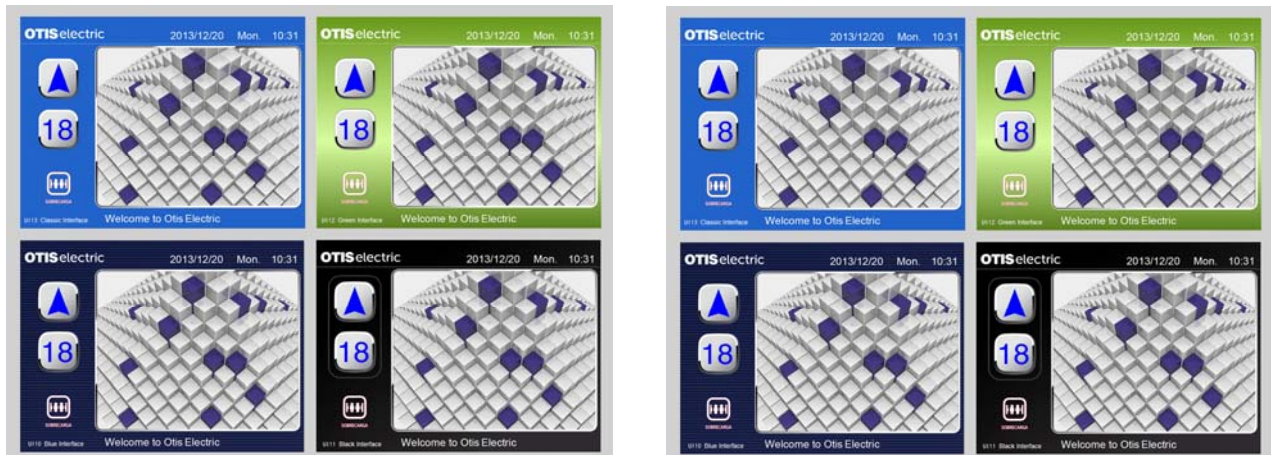
## 2. OTIS Electric 主题界面 OTIS Electric Theme interface



中文界面 Chinese



英文界面 English



西班牙文界面 Spanish

葡萄牙文界面 Portuguese

3) 界面字体和字高 Fonts & High on the interface:

LOGO 字高 high:  $\geq 11\text{mm}$ ;

箭头高度 Arrow height:  $\geq 18\text{mm}$ ;

楼层信息显示字高 Floor information height:  $\geq 14\text{mm}$ ;

欢迎词 **Welcome**: 中文黑体 Chinese Black character, 字高 high:  $\geq 6\text{mm}$ ;

英文(English)Arial English, 字高 high:  $\geq 6$ ;

时间及日期 **Time and date**: 中文黑体 Chinese Black character, 字高 high:  $\geq 5\text{mm}$ ;

英文(English)Arial English, 字高 high:  $\geq 5$ ;

4.8 液晶屏播放视频更新 The LCD screen plays video updates

详见多媒体显示器视频更新说明书 (SA4T2307005) LCD screen video update see **Multimedia Display Video Update Manual for details (SA4T2307005)**

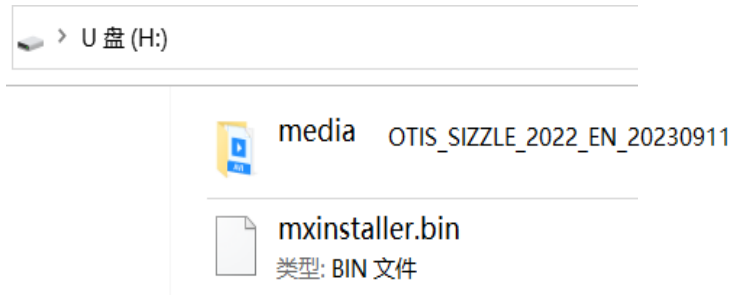
4.8.1 注意事项 Precautions

1. U 盘文件系统为 FAT32 格式, 容量  $\leq 16\text{G}$ 。(推荐选用品牌 U 盘, 非正规品牌 U 盘会出现不能更新的情况)The file system of U disk is FAT32 format, and the recommended capacity is less than 16G. (Recommend the use of brand U disk, miscellaneous U disk will not be updated)

2. 更新路径: U 盘根目录下为一个视频更新的脚本文件和一个 media 文件夹 (用于存放更新的多媒体视频)。Update path: The root directory of the USB flash drive is a script file for video updates and a media folder (used to store the updated multimedia videos).

3. 更新脚本文件 Update script file: mxinstaller.bin

4. U 盘文件存放示意图: U disk file storage diagram:



#### 4.8.2 图片/视频更新 Picture And Video Update

1) 在电脑上将待更新的视频文件放在 U 盘的根目录下：media，给显示器正常通电工作，再将 U 盘插入显示器的 USB 接口，显示器会出现升级进度动画和升级完成的动画。On the PC, place the video file to be updated in the root directory of the USB flash drive: media, power on the monitor, and then insert the USB flash drive into the USB port of the monitor. The display will display the animation of upgrade progress and upgrade completion.

##### 2) 出货默认视频 Shipping default video

- 奥的斯的主题界面产品，预置播放奥的斯的视频，以客户提供的为准，不受界面语言限制。OTIS theme interface products, preset to play Otis videos, provided by the customer shall prevail, not subject to interface language restrictions;
- 奥的斯机电的主题界面产品，预置播放奥的斯机电的视频，以客户提供的为准，不受界面语言限制。OTIS Electric theme interface products, preset to play Otis Electric video, subject to customer provided, not subject to interface language restrictions.

3) 用户更换播放视频时，视频必须满足下述要求。When you change the video to play the video, the video must meet the following requirements:

- 帧宽度 Frame width :  $\leq 1024$
- 帧高度 Frame height:  $\leq 768$
- 数据速率 Data rate:  $\leq 2350\text{kbps}$
- 总比特率 Total bitrate:  $\leq 2471\text{kbps}$
- 帧速率 Frame rate:  $\leq 30$  帧/秒
- 格式 format: MP4, AVI
- **视频比例 Video ratio: 4: 3**
- 单个视频时长 The duration of a single video: 多个视频循环播放时，单个视频的播放时长不得小于 30 秒；When multiple videos are played in the same loop, the playback duration of a single video shall not be less than 30 seconds;
- **视频文件名编写要求** Video file name writing requirements: 英文、英文和数字；English, English and figures;
- 大小 size: 所有的视频总大小，需要小于 1G; The total size of all videos needs to be less than 1G;

##### 4) 视频下载过程界面 Video download process interface



视频下载过程界面/ Video download process interface

5. 视频更新完成提示界面 Video update completion prompt screen



视频更新完成界面/ Video update completes the interface

4.8.3 应用程序更新 Application Updates

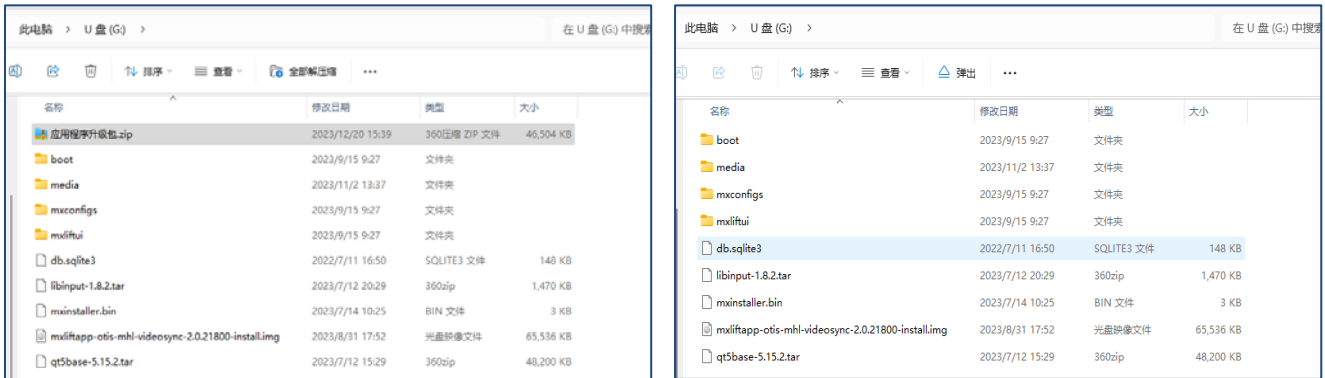
第一步 Step 1: 应用程序升级包准备 Prepare the application upgrade package

首先将应用程序升级压缩包置于 U 盘的根目录下（升级包的获取联系供应商即可）First of all, the application upgrade package is placed in the root directory of the USB flash drive (to obtain the upgrade package can contact the supplier).

将应用程序升级压缩包解压缩到 U 盘根目录下（保证 U 盘为空 U 盘）Decompress the application upgrade package to the root directory of the USB flash drive (Ensure that the USB flash drive is

empty).

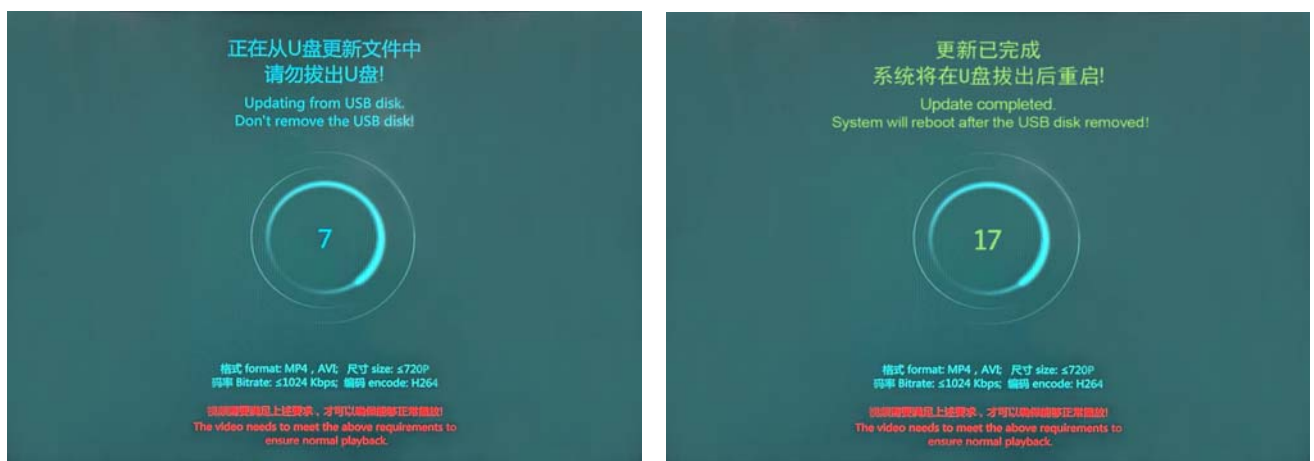
删除应用程序升级压缩包 Delete the application upgrade package



第二步 Step 2: 升级系统 Upgrade the system

在**液晶屏通电运行**状态下将带有升级包的 U 盘直接**插入**液晶显示屏的 USB 口，系统检测到 U 盘后会**自动进行升级**，**升级过程中请勿拔出 U 盘**，升级完成后根据应用程序**升级完成**界面的提醒**拔出 U 盘**即可（系统升级完成后会进行系统重启）。

When the LCD is powered on, insert the USB flash drive with the upgrade package directly into the USB port of the LCD. After detecting the USB flash drive, the system will automatically upgrade the USB flash drive. Do not remove the USB flash drive during the upgrade process. After the upgrade is complete, remove the USB flash drive according to the prompt on the interface indicating the completion of the application upgrade (the system will restart after the upgrade is complete).



系统升级界面/ System Update Interface

## 5. 注意事项 NOTICE

### 5.1 主、副屏同步视频 Main And Secondary Screens Synchronize Videos

1.主、副屏需要同步视频时，可以通过网线，利用产品上的 RJ45 网络接口实现。（IP 地址配置见 4.6）When the main and secondary screens need to synchronize video, they can be realized by using the RJ45 interface on the product through the network cable.( For the IP address, see 4.6)

2.插拔网线时，需要断电操作；Power off when inserting or removing a network cable

3.带电操作可能会导致产品死机，如果死机，产品会在 45 秒内重启，如果 45 秒内没有重启，可以通过断电重启，产品会恢复正常。Electrify operation may cause the product to crash, if the crash, the product will restart within 45 seconds, if not restart within 45 seconds, you can restart by power off, the product will return to normal.

### 5.2 常见问题 Questions

显示异常：出现黑屏、蓝屏、花屏 Abnormal display: a black screen, blue screen or grainy screen.  
常见的显示异常原因主要有如下几点：Common reasons for abnormal display are as follows:

#### 1. 电源故障 Power failure

检查外部电源线 DC24V、GND 连接是否正确，并且可与断开此电源上的其他设备以验证是否为电源功率不够造成。Check that the DC24V and GND connection of the external power cable is correct, and disconnect other devices on this power supply to verify that it is caused by insufficient power supply.

#### 2. 液晶屏排线接触不良 LCD cable is in poor contact

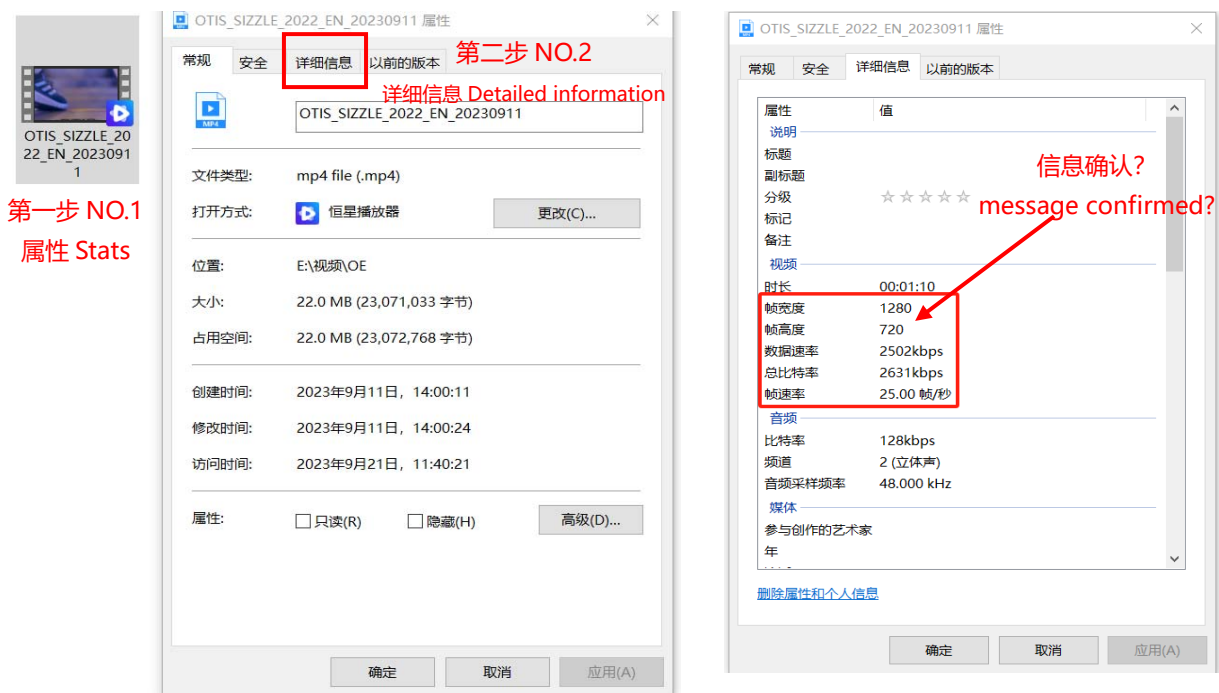
检测方法：显示器设备正常供电情况下，用手按压液晶屏或者电子板端的 LVDS 线，查看液晶屏显示是否恢复正常，如果在按压过程中时好时坏，基本上可以确定是 LVDS 线接触不良造成的。Detection method: In the case of normal power supply of the display device, press the LVDS line at the LCD screen or electronic board by hand to check whether the LCD display is restored to normal. If it is good or bad during the press process, it can be basically determined that the LVDS line is caused by poor contact.

#### 3. 电子板或液晶屏损坏 PCBA or LCD is damaged

以上两点均可以排除后，产品返厂检修。Above two points can be ruled out, the product is returned to the factory for maintenance.

### 5.3 视频卡顿 Display Lag

部分客户升级液晶屏播放视频时会出现卡顿现象，此类问题为客户制作视频格式不符合要求。（详见 SA4T2307005\_多媒体显示器视频更新说明书）When customers upgrade the LCD screen to play videos, there is sometimes a phenomenon of delay, and such problems do not meet the requirements of the video format for customers. (See SA4T2307005\_ Multimedia Display video Update manual for details)



### 5.4 楼层显示不正确 Floor Information Incorrect

RSL 通讯异常，常见原因主要为接线错误、数据线断裂、显示器软件故障。RSL communication exception, The common reasons are wiring error, data line break or parameter setting fault.

第一步：判断通信线是否接线错误（接反或者线序错误）；如果无误，进入下一步；Check whether the communication line is correct ; If correct, proceed to the next step;

第二步：检查控制柜显示相关信号设置是否正确。Check whether the controller display

relevant signal parameters are set correctly.

第三步：在工地现场寻找另外一台显示正常的显示器，连接到出现问题的通信线上，查看是否显示正常；如果正常，则表示通信线正常。 Try to find another normal display on the site, connect to the communication line in abnormal elevator, and check whether the display is normal ; If normal, it means the communication line right.

## 5.5 产品死机 Product Crash

在电梯正常运行的前提下，产品的界面超过 2 分钟以上不动作，视为产品已经死机。原因分析如下： Before the elevator runs normally, if the interface of the product does not move for more than 2 minutes, it is considered that the product has crashed. The reasons are as follows:

1.产品过热，产品的热度，达到人体无法触碰。The product is overheated, and the heat of the product reaches the point that the human body cannot touch it.

第一步：断电后通过冷却的方式让设备的温度先降下来，并清除一下产品四周的遮挡物；  
Step 1: After power off, let the temperature of the equipment drop first by cooling, and remove the cover around the product;

第二步：再次通电，如产品可以恢复工作，故障排除； Step 2: Power again, such as the product can be restored to work, troubleshooting;

第三步：如第二步不能正常工作，可把设备安装在工地现场另一台电梯上，如果设备还无法工作，建议设备返厂维修。Step 3: If the second step does not work properly, the equipment can be installed on another elevator at the site, if the equipment can not work, it is recommended to return the equipment to the factory for maintenance.

2.带电插拨主、副屏同步视频的网线 Plug and dial the network cable for video synchronization on the primary and secondary screens

第一步：45 秒内，产品会自动重启，并恢复正常，如果超出 45 秒，进入下一步； Step 1: Within 45 seconds, the product will automatically restart and return to normal, if more than 45 seconds, enter the next step;

第二步：设备断电，产品会自动重启，可恢复正常； Step 2: The device power off, the product will automatically restart, can be restored to normal;

第三步：如果以上两步无效，建议返厂维修。 Step 3: If the above two steps are ineffective, it

is recommended to return to the factory for maintenance.

3.其它：建议返厂维修或更换新品。 Other :Return to the factory for repair or replacement of new products.

## 6. 使用规范 USE SPECIFICATION

产品不要放置在潮湿，明火的附近，避免损坏设备或发生火灾。 Do not placed products in damp, near open flame, to avoid damage to equipment or fire.

请不要将本产品暴露在雨中或者靠近水的地方。 Do not expose or close to the water.

请将产品保存在相对干燥常温的环境下，可保证产品寿命。 Store the product on a relatively dry and normal temperature environment, to ensure product life.

请勿将产品安装在不稳定的位置上，如摇晃的安装架，倾斜的地面上等。 Do not install the product in a position without stability, such as shake frame, sloping ground.

请勿使产品坠落或受到冲击，如果产品损坏，请断开电源，并与我们售后服务中心联系。 Do not make the product to fall or impacted, if the product is damaged, please disconnect the power, and contact our service center.

如果被产品操作不正常，比如：电源线插反了触摸屏没有任何显示或者出现烧焦等味道请立即关闭电源并与我们的服务中心联系。并将产品拆卸下来保存到干燥常温环境下。 If the product is not normal operation, such as: no display with a burning taste, please shut off the power immediately and contact our service center. Remove the product and store it in a dry room temperature environment.

请勿抠、撬触摸边框。 Do not pick, pry display frame.

请勿将金属物质插入到产品的露出的孔洞（例如 USB，网口或其他接口等）否则会导致设备损坏。 Do not insert metal material into the product connectors (such as USB, network ports or other interfaces, etc.) to avoid equipment damage.