3.6.3.2 Turn Off LED light

Function Prototype	void turnOff(int led);	
Function Description	Turn off the LED lights	
Parameter Description	Input	led - 1: blue light, 2: yellow light, 3: green light, 4: red light
	Output	
Return Value		
Supplementary Statement	Refer to com.sunyard.api.led.Constant: Constant.Light： LED light type;	

3.7 Scanner

Package Name Definition: com.sunyard.api.scanner.IScanner

3.7.1 Function Description

Scanning code of front/rear camera

3.7.2 List of Interfaces

Function Prototype	Function Description
void startScan(in Bundle bundle, OnScanListener listener);	Start scanning
void stopScan();	Stop scanning

3.7.3 Interface Description

3.7.3.1 Start scanning

Function Prototype	void startScan(Bundle bundle, OnScanListenerlistener);

<table>
<tr><td>Function Description</td><td colspan="2">Start scanning and return the barcode/QR code result</td></tr>
<tr><td rowspan="3">Parameter Description</td><td rowspan="2">Input</td><td>bundle - Request parameters

timeout(int) - Scanning timeout(in seconds), 0 means the scanner is never timeout.
</td></tr>
<tr><td>listener - Listener of scanning result, see Supplementary Statement for details</td></tr>
<tr><td>Output</td><td>/</td></tr>
<tr><td>Return Value</td><td colspan="2">/</td></tr>
<tr><td>Supplementary Statement</td><td colspan="2">1. Listener description
Package Name Definition: com. Sunyard. API. Scanner. OnScanListener
/ * *
* Listener of scanning result
* /
interface OnScanListener{
/ * *
* Callback for successful scanning
* @param result - Barcode/QR code data bundle
*
* format(String) - format type
* barcode(String) - barcode
*
* /</td></tr>
</table>

	void onSuccess(Bundle result);
	
	/ * *
	* Scanning error
	* @param error - Error code, Refer to com.Sunyard.API.Scanner.Constant.ErrorCode.
	*
	* - ERROR_FAIL(1) - Failed
	* - ERROR_ALREADY_INIT(2) - Initialized
	* - ERROR_INIT_ENGINE(3) - Failed to initialize scanning module
	* - ERROR_AUTH_LICENSE(4) - Failed to authenticate License
	* - ERROR_OPEN_CAMERA(5) - Failed to start the camera
	*
	* @param message - Error description
	* /
	void onError(int error, String message);
	
	/ * *
	* Callback for scanning timeout
	* /
	void onTimeout();
	}
	2. Error code
	Refer to com.Sunyard.API.Scanner.Constant:
	Constant.ErrorCode: Error code;

3.7.3.2 Stop scanning

Function Prototype	void stopScan();	
Function Description	Stop scanning and cancel the scanning process.	
Parameter Description	Input	/
	Output	/
Return Value	/	
Supplementary Statement		

3.8 Printer

Package Name Definition： com.sunyard.api.printer.IPrinter

3.8.1 Function Description

The thermal printer can print transactions receipt, and support text, barcode, QR code and monochrome picture.

3.8.2 List of Interfaces

Function Prototype	Function Description
int getStatus();	Get printer status
void setGray(int gray);	Set print gray level
void addText(Bundle format, String text);	Add a line of print text
void addBarCode(Bundle format, String barcode);	Add barcode printing
void addQrCode(Bundle format, String qrCode);	Add QR code printing
void addImage(Bundle format, byte[] imageData);	Add bitmap image printing
void feedLine(int lines);	Add paper

void cutPaper();	Add paper cutting
void autoCutPaper();	Add automatic paper cutting
void startPrint(OnPrintListener listener);	Start printing
int addTextChips(in List<PrinterChip> chips);	Add a line of print text by chips.

3.8.3 Interface Description

3.8.3.1 Get printer status

Function Prototype	int getStatus();	
Function Description	Get printer status	
Parameter Description	Input	/
	Output	/
Return Value	Printer status: * * - ERROR_NONE(0x00) - Normal * - ERROR_PAPERENDED(0xF0) - Lack of paper, can't print * - ERROR_HARDERR(0xF2) - Hardware error * - ERROR_OVERHEAT(0xF3) - Overheat * - ERROR_BUFOVERFLOW(0xF5) - Out of range in buffer mode * - ERROR_LOWVOL(0xE1) - Low voltage protection * - ERROR_PAPERENDING(0xF4) - Paper is running out while printing is still allowed (single step needle specific Return Value) * - ERROR_MOTORERR(0xFB) - Print movement failure (too fast or too slow)	

	* - ERROR_PENOFOUND(0xFC) - Not aligned during automatic location, paper goes back * - ERROR_PAPERJAM(0xEE) - Paperjam * - ERROR_NOBM(0xF6) - No black mark found * - ERROR_BUSY(0xF7) - Printer is busy * - ERROR_BMBLACK(0xF8) - Black signal detected by black label detector * - ERROR_WORKON(0xE6) - Printer power on * - ERROR_LIFTHEAD(0xE0) - Print head raised (special Return Value for self-service thermal printer) * - ERROR_CUTPOSITIONERR(0xE2) - Paper cutter not in place (special Return Value for self-service thermal printer) * - ERROR_LOWTEMP(0xE3) - Error in cryoprotection or AD (special Return Value for self-service thermal printer) *
Supplementary Statement	

3.8.3.2 Set print gray level

Function Prototype	void setGray(int gray);	
Function Description	Set the print gray level of the printer	
Parameter Description	Input	gray - Print grayscale, 0-10
	Output	/
Return Value		
Supplementary Statement		

3.8.3.3 Add a line of print text

Function Prototype	void addText(Bundle format, String text);	
Function Description	Add a line of printed text in the specified format	
Parameter Description	Input	format - Specifies the format of print font font(int) : Font, 0:small, 1:normal, 2:large align(int) -Alignment, left by default, 0:left, 1:center, 2:right
		text - Print text
	Output	/
Return Value		
Supplementary Statement	Refer to com.sunyard.api.printer.Constant : Constant.FontSize: Print font Constant.FontTemplate: Font size template, specific font size dot matrix (width * height) as follows: (Default: small -16 *16, normal -24* 24, large -32*32 Template 1: small -- 16*16, normal -- 24*24, large -- 32*32 Template 2: small -- 16*16, normal -- 24*24, large -- 48*48 Template 3: small -- 24*24, normal -- 32*32, large -- 48*48) Constant.Align: Print the alignment	

3.8.3.4 Add barcode printing

Function Prototype	void addBarCode(Bundle format, String barcode);
Function Description	Add barcode printing

Parameter Description	Input	format - Print format align(int) - 0:left, 1:center, 2:right width(int) - Width height(int) - Height
		barcode - Content of a barcode
	Output	/
Return Value		
Supplementary Statement	Refer to com.sunyard.api.printer.Constant: Constant.Align： Print Alignment；	

3.8.3.5 Add QR code printing

Function Prototype	void addQrCode(Bundle format, String qrCode);	
Function Description	Add QR code to print	
Parameter Description	Input	format - Print format align(int) - 0:left, 1:center, 2:right expectedHeight(int) - Expected height
		QrCode - Qr code content
	Output	
Return Value		
Supplementary Statement		

3.8.3.6 Add bitmap image printing

Function	void addImage(Bundle format, byte[] imageData);