



# **Scanner SDK**

## **API Reference**

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# Documentation Information






This section describes the audience, conventions, and revision history of this document.

## Audience

This document is intended primarily for third-party partners.

## Documentation Conventions

### Instruction Conventions

Icon	Description
 <b>TIP</b>	Indicates information that can help you make better use of your product.
 <b>NOTE</b>	Indicates references that can further describe the related topics.
 <b>CAUTION</b>	Indicates situations that could cause data loss or equipment damage.
 <b>WARNING</b>	Indicates situations that could cause minor personal injury.
 <b>DANGER</b>	Indicates situations that could cause major personal injury or even death.

### Notation Conventions

Item	Description	Example
<b>Boldface</b>	Denotes menus, tabs, parameter names, window names, dialogue names, and hardware buttons.	To save the configuration, click <b>Apply</b> .
		The <b>Log Level Settings</b> dialogue box appears.
		Press the <b>PTT</b> key.
" "	Denotes messages, directories, file names, folder names, and parameter values.	The screen displays "Invalid Battery!".
		Open "PSS.exe".
		Go to "D:/opt/local".
		In the <b>Port</b> text box, enter "22".
>	Directs you to access a multi-level menu.	Go to <b>File &gt; New</b> .

Item	Description	Example
<i>Italic</i>	Denotes document titles.	For details about using the DWS, refer to <i>Dispatch Workstation User Guide</i> .
Courier New	Denotes commands and their execution results.	To set the IP address, run the following command:  vos-cmd - m name IP

## Revision History

Document Version	Release Date	Description
V00	April 2022	Initial release.

# 1. Overview

## 1.1 Function name

ScannerManagerSDK

## 1.2 Description

The scanning API interface is used for the third-party applications to call and develop the scanning function. The ScannerManagerSDK consists of two parts. One is the Jar package which is called on the client, and the other is system app serving as server in the Android source code.

## 1.3 Application scenarios

The ScannerManager encapsulates the manufacturer's API for third-party applications to call the scanner API, including scanner initialization, opening and closing the scanner, setting scanning parameters and related error callbacks.

## 2. API

The API here refers to the package implemented by the ScannerManager lib, which exists in the corresponding libscanner.jar package. Third-party applications that integrates libscanner.jar can access the APIs related to scanner.

	Description
ScannerManager lib	Define the interface to be implemented in the form of aidl, bind some remote service, and transfer the result to the management classes of the third-party App. After compilation, it exists in both the ScannerManager System App and the third-party App.
ScannerManager System App	It is mainly the implementation class of the interface, which implements specific functions and runs in the system App as the server side.

### 2.1 ScannerManager

The following is the scanner related management class.

Constants	
int	<b>DECODE_STATUS_SUCCESS</b> Scanning is succeeded
int	<b>OPEN_SCANNER_ISDECODING</b> The scanner is decoding
int	<b>DECODE_STATUS_TIMEOUT</b> Scanning is timeout
int	<b>DECODE_STATUS_CANCELED</b> Scanning is canceled
int	<b>OPEN_SCANNER_ISNOT_AVAILABLE</b> The scanner cannot be used because the camera is occupied.
int	<b>BCR_ERROR</b> Failed to open the scanner or set the parameter

int	BCR_SUCCESS Open the scanner or set the parameter successfully
int	DECODE_STATUS_ERROR Scanning is failed
int	BCRDR_ERROR_UNKNOWN Unknown error
int	BCRDR_CAMERA_ERROR_EVICTED Scanner error
int	BCRDR_ERROR_SERVER_DIED Scanner service error
int	BAR_ERROR_OPEN_SCANNER Failed to open the scanner
int	BAR_ERROR_ALREADY_INITED Scanner is already initialized

## 2.2 Public methods

static ScannerManager	init(Context context) Initialize the scanner service
static ScannerManager	getInstance() Get the management instance of scanner
int	initScanner() initialize the scanner Return value: BCR_SUCCESS open the scanner successfully



	<p>BCR_ERROR    failed to open the scanner</p> <p><i>BAR_ERROR_ALREADY_INITED    initialization</i></p>
Int	<p>OpenScanner()</p> <p>Open the scanner</p> <p>Return value:</p> <p>OPEN_SCANNER_NOT_INIT    The scanner is not initialized</p> <p>OPEN_SCANNER_ISNOT_AVAILABLE    The scanner cannot be used because the camera is occupied</p> <p>OPEN_SCANNER_ISDECODING    The scanner is scanning</p> <p>BCR_SUCCESS    Open the scanner successfully</p> <p>BCR_ERROR    Failed to pen the scanner</p>
void	<p>ReleaseScanner()</p> <p>Release scanner service: release the scanner service when it is not needed</p> <p>If the scanner service is not actively called, resources will be automatically released when the caller exits.</p>
String	<p>getParams(String num)</p> <p>Get the scanner parameter    num: parameter name</p> <p>Return value: scanner parameter</p>
int	<p>setParams(String num,String val)</p> <p>set the scanner parameter    num: parameter name val: parameter value</p> <p>Return value:</p> <p>BCR_SUCCESS    setting succeeded</p> <p>BCR_ERROR    setting failed</p>
String	<p>getProp()</p>

	get the configuration of scanner return value: scanner configuration information
void	setDefaultParams() set the default parameter of the scanner
void	addScannerManagerListener(ScannerManagerListener listener) Add the callback listening related to the scanner
interface	ScannerManagerListener Callback listening of the scanner

## 2.3 ScannerManagerListener

void	Error(int errcode,String msg) Call back of scanning error errcode : error code msg: error message
void	decodeResult(int status,String result) call back of scanning result status : <i>DECODE_STATUS_TIMEOUT</i> <i>timeout</i> <i>DECODE_STATUS_CANCELED</i> <i>canceled</i> <i>DECODE_STATUS_SUCCESS</i> <i>succeeded</i> <i>result : scanning result or error message</i>



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