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Passport Reader SDK User Manual

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Contents

Chapter 1	SDK Introduction	4
1.1 SD	K copyright	4
1.2 SD	K Operating Environment	4
1.3 SD	K File List	4
Chapter 2	! Instructions	5
2.1 Dev	vice Introduction	5
2.2 SDI	K Development Procedures	6
2.2	2.1 Recognition Processes	6
2.2	2.2 Sample program	6
Chapter 3	Program Interface	8
3.1 Cor	mmon Interface	8
3.1	.1 Initialize and release recognition engine	8
	.2 Detect whether the ID document is placed, document tion and acquire recognition results	
3.1	.3 Barcode reading related API	13
3.1	.4 Normal set up recognition option	15
3.1	.5 Acquire device related information	18
3.1	.6 Other Interfaces	19
3.2	Special APIs	22
3.2	.1 Initialize and release core engine	22
3.2	.2 Setting recognition options	24
3.2	.3 Security feature related interface	26
3.2	.4 Parse the MRZ in the chip	28
3.2	.5 Other interface	29
Chapter 4	Appendix	31
4.1. App	pendix A	31
Electro	nic chip data grouping	31
4.2 App	endix B Document type and field explanation	32



4.2.1 Document main type	32
4.2.2 Chip field index	35
4.2.3 Field definition of each document	36



Chapter 1 SDK Introduction

1.1 SDK copyright

The SDK copyright is owned by Sinosecu Technology Corporation. Without our authorization, it is not allowed to use the SDK.

1. 2 SDK Operating Environment

Operation System that this SDK can support should be windows 7 and its upgraded version, including 32 bit and 64 bit. The computer configuration cannot lower than: Core i5(CPU), 2G(memory).

1.3 SDK File List

- API-LIBS files: the system files that this SDK relies on.
- Demo files: Demonstration programs.
- Lib files: recognition engine related files
- Passport Reader\DllDevelop files: including IDCard API files and multiple programming languages invoke the sample.
- Passport Reader\Websocket files(x32): including Websocket service program, service control program, Websocket configuration files, testing pages and logs.

Note:

If this SDK is acquired by digital copy(not execute installation process), one of the three following operations needs to be executed so as to load the recognition engine correctly. If it is developed by VB, the third method is the only option.

- If the operation system is 64 bit, all the files from the folder "API-LIBS" need to be copied into the directory "C:\Windows\SysWOW64"; if the operation system is 32 bit, all the files from the folder "API-LIBS" need to be copied into the directory "C:\Windows\System32".
- Add the full path of "lib" folder in the environment variables "Path".
- > Copy the executable programs into the "lib" directory and operate at the meantime.



Chapter 2 Instructions

2.1 Device Introduction

The APIs described in this document can apply to devices such as PR series, AR series, and KR series. All the above series support automatic classification, that is, a random piece of device under such series can scan multiple and various ID documents, including passports, visa, driving license, IDs, diversified passes and so on. The physical picture is shown at figure 2.1.



Figure 2.1 Device Model

Main functions of this hardware including support the chip reading of second generation ID card, e-passport and the UV illumination.

Model No.	Chip reading of Chinese ID	Epassport chip reading	Visible and IR illumination	UV illumination	Resolution (Pixel)
TH-PRXXX	optional	optional	V	optional	2048×1536
EPRXXX	optional	optional	√	optional	2048×1536
PSPRXXX	optional	optional	√	optional	2048×1536
TH-ARXXX	optional	optional	V	optional	2048×1536 2592×1944
QR5000	optional	optional	V	optional	2048×1536 2592×1944
KRXXX	optional	optional	V	optional	2048×1536 2592×1944

Figure 2.1 Main functions of passport reader



2.2 SDK Development Procedures

2.2.1 Recognition Processes

As shown by figure 2.2.1, it is the standard procedures to call the APIs.

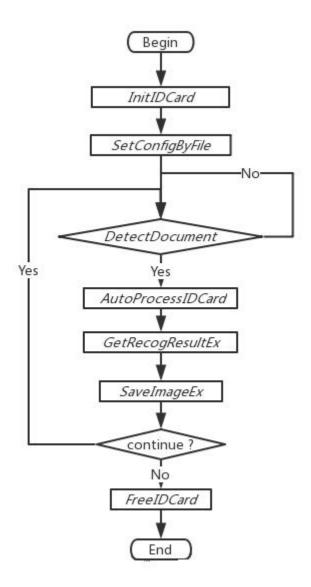


Figure 2.2.1 Procedures to scan the ID documents

2.2.2 Sample program

In order to help users to understand invoke API method, user manual and sample program are provided for reference. API documents and sample program are stored under the disk directory "Passport Reader\DllDevelop". Please turn to "Sinosecu ID



document scanning SDK Sample" for more sample program instructions.



Chapter 3 Program Interface

This chapter explains the export interface of the document recognition SDK. In terms of how to invoke the API, please turn to invoke sample(installation package is attached, different language, such as C++, Delphi, C# and VB demo codes has been provided). SDK export interface dynamic library is IDCard.dll, code system has adapt Unicode.

3.1 Common Interface

3.1.1 Initialize and release recognition engine

3.1.1.1 Initialize the recognition engine

Description	Initialize the recognition engine		
Prototype	int InitIDCard((LPCWSTR IpUserID,int nType, LPCWSTR IpDirectory);	
	lpUserID	User ID provided by Sinosecu to verify authorization.	
Parameter	пТуре	Each bit symbolizes a type of recognition engine. If the bit is "1", recognition engine is loaded correspondingly; if it's "0", it means not loading. Bit0 means the recognition engine for the business card. Other bits remain unused.	
	IpDirectory	Path for recognition engine files	
	0	Initialization succeed	
	1	Authorization ID is incorrect	
	2	Device initialization is failed	
Return value	3	Recognition engine initialization is failed	
	4	Authorization files are not found	
	5	Recognition engine is failed to load templates	
	6	Chip reader initialization is failed	



3.1.1.2 Release recognition engine

Description	Release recognition engine
Prototype	void FreeIDCard();
Parameter	None
Return value	None

3.1.2 Detect whether the ID document is placed, document recognition and acquire recognition results

3.1.2.1 Detect if the ID document has been placed or not

Prototype	int DetectDocument();		
Parameter	None		
	-1	The core engine has not been initialized	
	0	Cannot detect if the ID document is placed or not	
Return Value	1	Detect the ID document is placed in	
	2	Detect the ID document was taken out	
	3	Detected the barcode of mobile phone (only AR and KR series devices are supported)	

3.1.2.2 Scan ID documents

Description	When the placed ID document has been detected, this interface can be called to start recognition.		
Prototype	int AutoProcessIDCard(int& nCardType);		
	nCardType	[Output]	
		"1" means the ID documents has chips.	
		"2" means the ID documents do not have chips.	
		"4" means the ID documents has barcode.	
		"5" means the ID documents has chips and barcode.	



		"6" means the ID documents do not have chips, but detected barcode.
	> 0	Successfully return the main types of the document
	-1	Did not set up the valid document types that participate in the automatic classification.
	-2	Image capturing is failed.
	-3	Image cutting is failed.
Return Value	-4	Classification is failed, and did not find the matched template.
	-5	Classification is failed, and did not set up the valid document types.
	-6	Classification is failed and recognition rejected.
	-7	Recognition is failed.
	-8	To read the chip information is failed, but page recognition is successful.
	-9	To read the chip information is successful, but page recognition is failed.
	-10	The page recognition and chip reading are both failed

3.1.2.3 Acquire recognition field name

Prototype	int GetFieldNameEx			
	(int nAttribute,int nIndex,LPWSTR lpBuffer,int& nBufferLen);			
	nAttribute	0: To acquire the chip information		
		To acquire OCR field result from the page		
Parameter	nIndex	For field index, please refer to appendix B.		
	lpBuffer	Buffer areas to store the results		
	nBufferLen	[Input] buffer size		
	TIB dillo Lott	[Output] length for recognition results		
Return Value	0	Succeed		



-1	Recognition engine is failed to be initialized.
-2	Such property does not exist.
1	Buffer areas is too small and "nBufferLen" can be used to adjust the storage room.
2	Recognition is failed
3	The field symbolized by "nIndex" does not exist.

3.1.2.4 Acquire recognition field result

Prototype	int GetRecogResultEx			
Prototype	(int nAttribute,int nIndex,LPWSTR lpBuffer,int& nBufferLen);			
	nAttribute	To acquire the chip information To acquire OCR result from the page		
Parameter	nIndex	For field index, please refer to appendix B.		
, arameter	lpBuffer	Buffer areas to store the results		
	nBufferLen	[Input] buffer size [Output] length for recognition results		
	0	Succeed		
	-1	Recognition engine is failed to be initialized.		
Return Value	-2	Such property does not exist.		
	1	Buffer areas is too small and "nBufferLen" reverse back the storage room.		
	2	Recognition is failed		
	3	The field represent by "nIndex" does not exist.		

3.1.2.5 Acquire the origin of results

Prototype	int GetResult	TypeEx(int nAttribute,int nIndex);
D		0: to acquire the chip field value
Parameter	nAttribute	1: To acquire OCR fields from page



	nIndex	For field index, please refer to appendix B
	0	The Origin is from the chip
	1	The origin is from the OCR field of page VIZ area
Return Value	2	The result origins are export from VIZ area
	3	The origin is from the OCR field of page MRZ area
	4	The result origins are from other MRZ fields

3.3.2.6 Acquire the recognition result confident

Prototype	int GetFieldC	confEx(int nAttribute,int nIndex);	
	nAttribute	0: the origin is from chip data	
Parameter	TIAIIIIDUIE	1: the origin is from OCR result of the page	
	nIndex	Please refer to Appendix B for field index	
Return Value	0 ~ 100	If confidence is lower than 30, and this field is reliable	

3.1.2.7 Acquire the ID documents name

Prototype	int GetIDCardName(LPCTSTR lpBuffer, int&nBufferLen);		
	lpBuffer	The Buffer is used to save document name	
Parameter	nBufferLen	[Input] "IpBuffer"is used to adjust buffer size	
		[Output] Length of ID document name	
Return Value	0	Succeed	
Trotain value	Others	Failed	
	If the current language is set as Chinese, the document type is returned		
Note	in Chinese; if the current language is set as English, the English name returned		

3.1.2.8 Acquire the sub-type of the ID document

Prototype int GetSubID();



Parameter	None	
Return Value	> 0	Sub-types of ID documents
Trotain value	-1	Did not acquire the sub-types of ID documents
Note	After successfully calling the API "AutoProcessIDCard", and then call the API to acquire the sub-types of ID documents	

3.1.2.9 Save specified images to specified paths

Prototype	int SaveImageEx (LPCWSTR lpFileName,int nType);	
	IpFileName	When Saving images to local files, its filename must be "jpg" "bmp" "tif" and other formats cannot be supported
Parameter	пТуре	For the types of image saving, "bit0~bit4" symbolize white image, IR image, UV image, page portrait and chip portrait; It the bit is "1", it means saving images, "0" means not saving
	0	Succeed
Return Value	Others	If the API calling is failed, "bit0~bit4" symbolizes if the corresponding images are saved successfully. If the bit is "1", it means image saving is failed, if "0", it means image saving is successful
Note	If the chip reading is failed, the chip portrait cannot be saved. When there is only one type of image needs to be saved, the filename for image saving must be consistent with parameter "IpFileName". When more than one type of images need to be saved, the filename should add "IR" "UV" "Head" "HeadEc" and the suffix remains unchanged	

3.1.3 Barcode reading related API

3.1.3.1 Set barcode recognition

Drototyno	void SetBarCodeMode(bool	bBarCodeMode,
Prototype	bool bCellPhoneBarCodeCheck);	
Parameter	bBarCodeMode	"True" means barcode recognition is successful.
		"false" means barcode recognition is



		failed.
	bCellPhoneBarCodeCheck	"True" means it can detect the phone barcode.
		"false" means it cannot detect the phone barcode.
Return Value	None	
Note	This API must be called firs barcode needs to be recognize	t before calling "AutoProcessIDCard" if a ed.

3.1.3.2 Set the barcode recognition types

	void SetRecogCodeTypes(
Duckston s	int nMode,		
Prototype	unsigned int nTypes		
);		
	nMode	1: Barcode mode for mobile phone	
		2: Barcode mode for paper	
Parameter	nTypes	bit0: 1D barcode	
		bit1: QRCode	
		bit2: PDF417	
Return Value	None		
Note	Set the type of barcode to be recognized. Setting multiple types will reduce the recognition speed.		

3.1.3.3 Barcode identification of mobile phone

Prototype	int RecogCellPhoneBarCode();		
Parameter	None		
Return Value	>0	The numbers of scanned barcodes	
	<= 0	Failed	



Note	This function is only called after DetectDocument returns 3. Bar code
Note	results can be obtained after return success.

3.1.3.4 Acquire the numbers of recognized barcodes

Prototype	int GetBarcodeCount();	
Parameter	None	
Return Value	>= 0	The numbers of scanned barcodes
	< 0	Failed

3.1.3.5 Acquire barcode recognition results

Prototype	int GetBarcodeRecogResult(int nIndex,LPWSTR lpBuffer,int&nBufferLen,LPWSTR lpResultType, int&nResultTypeLen);	
	nIndex	Barcode index starts from "0".
	lpBuffer	Barcode recognition results
Parameter	nBufferLen	Length for Barcode recognition results
	IpResultType	Barcode types
	nResultTypeLen	Length for barcode types
Return Value	0	Succeed
	-1	Buffer area for "IpResult" or "IpResultType" is too small.
	-2	Recognition is failed
	-3	"nIndex" index does not exist.
Note	Be able to recognize one dimensional codes and QR codes.	

3.1.4 Normal set up recognition option

There are two ways to set up the recognition options. One is to import the configuration file through the API "SetConfigByFile", and the other is to set up respective scanning options by calling the API.



If using the first method, after modifying the configuration files, simply call the API "SetConfigByFile "to import all the scanning options at once. For the contents and format of the configuration files, please refer to the configuration files that come with the installation package. Its location is in the "lib"folder under the installation directory, and the filename is "IDCardConfig.ini".

If using the second way, the API needs to be called once for each scanning option.

3.1.4.1 Import configuration

Description	To load ID document recognition options from configuration files		
Prototype	int SetConfigByFile(LPCWSTR lpConfigFile);		
Parameter	IpConfigFile The full path for configuration files		
	0	Successfully load the configurations	
Return Value	-1	The configuration files or configuration formats are incorrect.	

3.1.4.2 Set languages

Description	To set up the languages that the core engine adopts.	
Prototype	int SetLanguage(int nLangType);	
Parameter	nLanType	For language types, "0" means "Chinese" and "1" means "English".
Return value	0	Succeed
	1	Failed

3.1.4.3 Set image types

Prototype	void SetSaveImageType(int nImageType);	
Parameter	nlmageType	For the types of image saving, "bit0~bit4" symbolize white image, IR image, UV image, page portrait and chip portrait; It the bit is "1", it means capturing images, if "0",



		it means not capturing.
Return	None	
Value	None	

3.1.4.4 Set if the page recognition is performed

Prototype	void SetRe	cogVIZ(bool bRecogVIZ);
Parameter	bRecogVIZ	"True" means page recognition is performed. "False" means page recognition is not performed.
Return Value	None	

3.1.4.5 Set if the chip data can be recognized

Prototype	void	SetRecogDG(int nDG);
Parameter	nDG	From bit1 to bit 16, each bit represents a data group. If the bit is set to "1", it means the corresponding data group is recognized."0" means not recognizing any data. "Bit1" means "DG1". "Bit2" means "DG2" "BiT16" means "DG 16"
Return Value	None	

3.1.4.6 Set whether to parse MRZ in the chip

Prototype	void SetAnalyseMRZ(bool bAnalysis);		
Parameter	bAnalysis	"True" means parse MRZ. "False" means not parse MRZ.	
Return Value	None		



3.1.4.7 Empty document types that participates in automatic classification

Description	Empty document types that participates in automatic classification
Prototype	void ResetIDCardID();
Parameter	None
Return Value	None

3.1.4.8 Set ID document types that participates in the automatic classification

Description	Set up or increase the number of ID document types that participates in the automatic classification. You can only set one type of document when calling the API once. When you want to recognize multiple documents, you can call API by multiple times in succession to accumulate.	
Prototype	int AddIDCard	dID(int nMainID,int nSubID[],int nSubIDCount);
	nMainID	Document types that participates in automatic classification
Parameter	nSubID	A list of ID document sub-types that participate in automatic classification. If the "nSubIDCount" value is "1" and the first element value in the "nSubID" is "0", then all sub-types can participate in automatic classification
	nSubIDCount	The number of ID document sub-types that participates in the automatic classification
Return Value	0	Succeed
	Others	Failded

3.1.5 Acquire device related information

3.1.5.1 Acquire the device serial No.

Ductotius	int GetDeviceSN	
Prototype	(LPCWSTR lpBuffer,int nBufferLen);	
	lpBuffer	The Buffer is used to save the serial No.
Parameter	nBufferLen	"lpBuffer" buffer size, the maximum cannot exceed 16, and "16" is the recommended size.



	0	Succeed
Return Value	1	The device has not been successfully loaded.
	2	This device cannot support this operation.

3.1.5.2 Acquire device model

Prototype	BOOL GetCurrentDevice		
	(LPCWSTR lpBuffer,int nBufferLen);		
	lpBuffer	The Buffer is used to save the serial NO.	
Parameter	nBufferLen	"lpBuffer" buffer capacity, calculated by "wchar_t", suggest set not less than 64.	
Return Value	true	Succeed	
	false	Failed	

3.1.6 Other Interfaces

3.1.6.1Acquire the SDK version No.

Prototype	BOOL GetVersionInfo (LPCWSTR lpBuffer, int nBufferLen);	
Parameter	lpBuffer	Buffer area to save core engine version NO.
i didiliotor	nBufferLen	"lpBuffer" means the size of buffer area.
Return Value	TRUE	Succeed
	FALSE	Failed

3.1.6.2 Check if the device has been connected to computer host

Prototype	int CheckDeviceOnlineEx ();		
Parameter	None		
Return Value	1	The device has been connected to computer host and also been successfully initialized.	
	2	The device has been lost connection(no connection to the	



	computer host)
3	If the device has been lost connection to computer host, the core engine needs to be re-initialized(InitIDCard).

3.1.6.3 Set signal lights

Prototype	int SetIOStatus (int nIOType,bool bOpen);	
Trototype		
	nIOType	Signal light NO.:
		"5" means ready light
Parameter		"6" means error light
Parameter		"7" means warning light
	bOpen	"true"means turning on signal light.
		"false" means turning off the signal light.
	0	Succeed
	1	The device has not been initialized.
Return Value	2	This device cannot support this operation.
	3	The parameter is illegal.
	4	Failed.

3.1.6.4 Buzzer Warning

Prototype	int BuzzerAlarm(int nDuration,);	
Parameter	nDuration Buzzer sound duration is calculated by milliseconds.	
	0	Succeed
Return Value	-1	The device has not been initialized.
	-2	This device cannot support this operation.



3.1.6.5 Capture image to internal storage

Prototype	int AcquireImage	(int nImageSizeType);
		ID Document size:
	nlmageSizeType	"0" represents a full-page image, in which no image rotation operation is performed;
		"1" represents an image of the first generation ID card, that is, the physical size and placement of the document are the same as the first generation ID card. This type includes the first generation ID card, driving license, and vehicle license. In this mode, the document image is automatically rotated;
Parameter nIn		"2" represents the image of the second generation ID card, that is, the physical size and placement of the document are the same as the second generation ID card. This type includes the back side of the second-generation ID card, the front side of second generation ID card, the front side of home-entry permit, the back side of the home-entry permit, and the Hong Kong permanent identity card. In this mode, the document image is automatically rotated; "3" represents the image of the passport type, that is, the physical size and placement of the document are the same as the passport. This type includes passports, visas, Mainland Travel Permit for Taiwan Residents, Exit-Entry Permit (EEP) to HK / Macau, andChina Mainland Residents Travel Permit to Taiwan. In this mode, the document image is automatically rotated;
		"4" The image representing the type of China PLA Officer Card, ie the physical size and placement of the document is the same as China PLA Officer Card. This type currently only contains China PLA Officer Card. In this mode, the document image is automatically rotated;
		"5" represents the image of Chinese Household Register, that is, the physical size and placement of the document are the same as Chinese Household Register. This type currently only contains Chinese Household Register. In this mode, the document



		image is automatically rotated;
		"6" represents the image of boarding pass. This type only includes boarding passes. In this mode, the document image is automatically rotated;
		"7" represents Inhabitants ID of a border area portrait page;
		"8" represents Inhabitants ID of a border area information page;
		"20" represents the image of the custom type size. If you use this method, you need to set up the size of the captured image first, see 3.5.2. By default, the size of the custom type image is the full page. It is important to note that the image will not be automatically rotated.
		"21" represents an image of the original size, in which the black edge, tilt correction and cropping processing are automatically performed on the captured image. When the automatic sorting function is used, this method can help acquire the image size.
	0	Succeed
Return	1	Failed
Value	2	The device is not online
value	3	The parameter is illegal
	4	Failed
Note	1	s successfully captured into the internal storage, the file disk by calling the API "SaveImageEx interface".

3.2 Special APIs

3.2.1 Initialize and release core engine

3.2.1.1 Initialize core engine for specified device model.

Prototype	int InitIDCardEx(LPCWSTR lpUserID,int nType,LPCWSTR lpDirectory,LPCWSTR lpDeviceName);	
Parameter	IpUserID	User ID provided by Sinosecu to certify authorization.



	nType	Each bit symbolizes a type of recognition engine. If the bit is "1", recognition engine is loaded correspondingly; if "0", it means not loading.
		Bit0 means the recognition engine for the business card.
		Other bits remain unused
	IpDirectory	Path for saving this Dynamic library files
	IpDeviceName	Device model
	0	The initialization is succeed
	1	ID authorization is not correct
	2	The device initialization is failed
Return Value	3	Core engine initialization is failed
	4	The license file has not been found
	5	The core engine load the templates is failed
	6	Card reader initialization is failed

3.2.1.2 Specify the initialize core of the device serial number

Prototype	int InitIDCardSN(LPCWSTR lpUserID,int nType,LPCWSTR lpDirectory,LPCWSTR lpDeviceSN);	
	lpUserID	User ID, provided by Sinosecu Corporation, to check the authority document.
Parameter	пТуре	Each bit denote as a kind of recognition engine, 1 bit denote upload response recognition engine, 0 means not. Bit0 means business card recognition core. Other bit was not used currently.
	IpDirectory	The store path of the dynamic library.
	IpDeviceSN	Device serial number
Return Value	0	Successful initialization
	1	Incorrect authorization ID



2	Device initialize is failed
3	Initialize core is failed
4	Authorization document not found
5	Recognition Core upload template is failed
6	Initialize card reader is failed

3.2.2 Setting recognition options

3.2.2.1 Setting recognition rejection sign

Description	Setting recognition rejection sign refer to a certain document	
Prototype	int SetIDCardRejectType	
	(int nMainID,bool bSet);	
Parameter	nMainID	Document type
	bSet	Rejection or not
Return Value	0	Succeed
	Other	Failed

3.2.2.2 Set whether to read document chip

Prototype	int SetRecogChipCardAttribute(int nReadCard);	
Parameter	nReadCard	0 means not read the chip
Tarameter		1 means read the chip
Return Value	0	Succeed
	Other	Failed
Note	This interface only refer to device with chip reading function. Only after initialize the device can this interface be called.	

3.2.2.3 Set whether to re-scan by white image

Prototype	void ReRecogMRZbyVI(bool bFlag);	
Parameter	bFlag	True means setting this function; false means not.



Return Value	None
Note	Re-scan the white light MRZ part, only set once (Used under infrared image MRZ part not clear enough lead to classification failed situation)

3.2.2.4 Setting whether to remove the background

Prototype	void SetBGSubtraction	
, , ,	(int nBGSub);	
	nBGSub	bit0: Whether remove the white light background or not
		bit1: Whether remove the infrared light background or not
Parameter		bit2: Whether remove the ultraviolet light background or not
		Each bit value take 1 means remove the background, 0
		means not remove the background
Return Value	None	
Note	Suitable for AR, KR, QR model without cover situation. Call this interface can improve captured image effect.	

3.2.2.5 Setting captured image resolution

Prototype	BOOL SetAcquireImageResolution(int nResolutionX,int nResolutionY);		
Parameter	nResolutionX	Capture image horizontal resolution	
raiamotor	nResolutionY	Capture image vertical resolution	
Return Value	TRUE	Succeed	
Neturn value	FALSE	Failed	
Note	If customer need to scan the captured image, please don't change the default image resolution, otherwise it will cause recognition rate decline or can't recognized. Only if customer don't need to recognize the captured image, this interface can be called. TH-PRXXX serial device provide 300 megapixel (2048×1536) image, TH-PRXXX serial device and KR serial device provide 300 megapixel (2048×1536) and 500 megapixel (2592×1944) image.		



3.2.2.6 Setting captured image exposure value

Prototype	void SetAcquireImageExposureTime (int nLightType,int nModel);	
	nLightType	Must take value 4, refer to ultraviolet light
	nModel	0: factory settings
Parameter		1: Dark
		2: Convention
		3: Bright
	0	Setting succeed
Return Value	-1	Device not support this function
	-2	Incorrect parameter
	This interface only support settings for ultraviolet light, parameter nLightType must take value 4;	
Note	2. Only suitable for TH-AR, QR, and KR device, don't use it unless special situation.	

3.2.3 Security feature related interface

3.2.3.1 Detect whether the document has ultraviolet stagnancy feature

Prototype	void CheckUVDull(bool bForceAcquire, int nReserve);	
	bForceAcquire	1:enforce capture ultraviolet image
Parameter		0: System will judge whether to capture the
		ultraviolet image
	nReserve	Reserve, just transmit 0
Return Value	0	Detect ultraviolet stagnancy feature
	-1	System not initialized
	-2	Device not support this function
	-3	Image capture failed



-4	Fake document

3.2.3.2 Setting whether the document has ultraviolet fiber feature

Prototype	int FibreDetect(bool bAcquireImage);	
Parameter	bAcquireImage	true Restart capture image false If there is any image in the internal storage, then don't restart capture
Return Value	< 0	Detection failed
	>= 0	Ultraviolet fiber number detection
Note	This function only suitable for passport currently.	

3.2.3.3 Obtain ultraviolet fiber location information

Prototype	int GetFibrePos(int nIndex,int& nLeft,int& nTop,int& nRight, int& nBottom);		
	nIndex	Ultraviolet fiber index	
	nLeft	Ultraviolet fiber left pixel	
Parameter	пТор	Ultraviolet fiber upper pixel	
	nRight	Ultraviolet fiber right pixel	
	nBottom	Ultraviolet fiber lower pixel	
Return Value	0	Succeed	
	Other	Failed	
Note	This function only suitable for passport currently. Once detected the document has ultraviolet fiber feature on FibreDetect interface, can this interface be called.		



3.2.3.4Detect whether the document is copy or not

Prototype	int GetImageSourceType(int nMainID,int nScale,bool bAcquireImage);		
	nMainID	Document main ID	
Parameter	nScale	The front 3 bit refer to different document category, bit take value 1 means differentiate, 0 means not differentiate bit0: Copy document differentiate bit1: Color copy document differentiate bit2: Screenshot image differentiate	
	0	Original document	
		bit0: Copy document	
Return Value	> 0	bit1: Color copy document	
		bit2: Screenshot image	
	< 0	Detection failed	
Note	Only support second-generation ID card currently.		

3.2.4 Parse the MRZ in the chip

To obtain the MRZ parsed result, you need to set the option of the chip first. See 3.1.4.6 for the setting interface.

3.2.4.1 Get the parsed MRZ field name

int GetAnalyseMRZFieldName (int nIndex, LPTSTR lpBuffer, Prototype		lyseMRZFieldName (int nIndex, LPTSTR lpBuffer,	
riototype	int& nBufferLen);		
	nIndex For field index, please refer to appendix B.		
Parameter	lpBuffer	Buffer areas to store the results	
	nBufferLen	[Input] buffer size	
		[Output] length for recognition results	
Return Value	0	succeed	



-1	Recognition engine is failed to be initialized.
1	Buffer areas is too small and "nBufferLen" can be used to adjust the storage room.
3	The field symbolized by "nIndex" does not exist.

3.2.4.2 Get the parsed MRZ field result

Prototype	int GetAnalyseMRZResult (int nIndex, LPTSTR lpBuffer,		
Trototype	int& nBufferLen);		
	nIndex	For field index, please refer to appendix B.	
Parameter	lpBuffer	Buffer areas to store the results	
T drameter	nBufferLen	[Input] buffer size	
		[Output] length for recognition results	
	0	succeed	
Return Value	-1	Recognition engine is failed to be initialized.	
	1	Buffer areas is too small and "nBufferLen" can be used to adjust the storage room.	
	3	The field symbolized by "nIndex" does not exist.	

3.2.5 Other interface

3.2.5.1 Specify document type recognition interface

Description	Recognize the image according to parameter specified document type.		
Prototype	int RecogIDCardEX (int nMainID,int nSubID);		
Parameter	nMainID	Document main ID	
	nSubID	Document subsidiary ID	
	> 0	Recognition succeed, return value is document main type	
Return Value	-1	Classify failed	
	-2	Location failed	



-3	Recognition failed
-4	No right load image
-5	Corresponding template not found
-6	Reject recognition(Unreliable recognition content)
-7	Cropping failed

3.2.5.2 DataGroup Obtain specified DataGroup information from e-passport chip

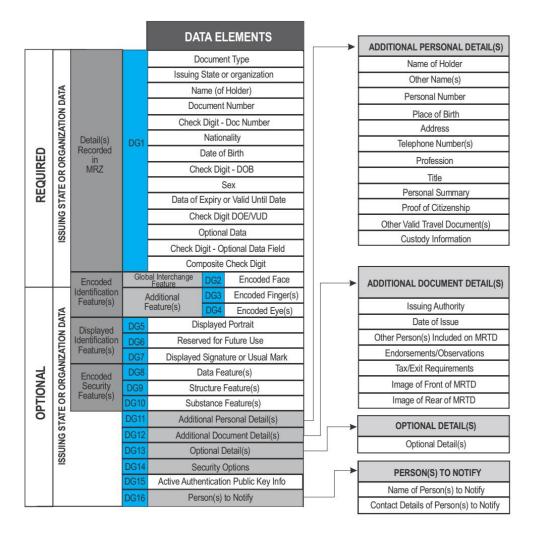
Prototype	int GetDataGroupContent(int nDGIndex, bool bRawData, unsigned char* lpBuffer, int& nLength);		
	Data grouping index, 1~16 refer to DG1~DG16 respectively. Check the Six Chapter appendix for data grouping information.		
bRawData		Whether to return the original data from the chip, true means output original information, false output analyzed information.	
	lpBuffer	Used to store data grouping information.	
	nLength	[Input] means the size of the lpBuffer.	
		[Output] means the length of the data grouping information.	
Return Value	0	Succeed	
	Other	Failed	



Chapter 4 Appendix

4.1. Appendix A

Electronic chip data grouping



Attention:

- 1. Currently the document chip stored information only include DG1, DG2, DG11, DG12
- 2. Each country or district may store different information, if the DG's content is empty, it's normal phenomenon.



4.2 Appendix B Document type and field explanation

4.2.1 Document main type

For each type of document, there is a MAINID, which remains unchanged. Even if new document type was added, the original document MAINID will keep the same. This version SDK supports the following documents:

Document type			Document MAINID (Decimal notation)
Resident identif	ication card-photo page		2
Resident identif	ication card-issuing autho	prity page	3
Temporary iden	tification card		4
Vehicle drivers	license		5
Vehicle registra	tion certificate		6
Military identific	ation 1998 version		7
Soldier identific	ation 1998 version		8
Machine readable document	Passport size	Exit-Entry Permit for Travelling to and from Hong Kong and Macao (EEP) 2005version	9
		Travel passes for Taiwan residents to enter or leave the mainland 1992 version-photo page	10
		Mainland residents travel to and from Taiwan 1992 version-photo page	11
		visa	12
		passport	13
	Card size	Travel permit for Hong Kong and Macao residents to and from the mainland-photo page	14



and Ma	permit for Hong Kong 15 acao residents to and e mainland -MRZ
Registration card for permanent residence	16
Seaman's Certificate 2009 version-photo page	17
Military identification 1998 version-photo page (su reader)	pport passport 18
Military identification 1998 version-information pagreader)	ge (support passport 19
Officers card 2006 version-photo page	20
Officers card 2006 version-information page	21
Exit-Entry Permit for Travelling to and from Hong I (EEP) 2014 version-photo page	Kong and Macao 22
Border area entry-exit permit 2014 version-photo	page 23
The Chinese People's Liberation Army Driving lice	ense 2010 version 24
Travel passes for Taiwan residents to enter or leaversion-photo page	ve the mainland 2015 25
Travel passes for Taiwan residents to enter or leaversion -MRZ page	ve the mainland 2015 26
The Chinese People's Liberation Army Driving lice	ense 2012 version 27
Mainland residents travel to and from Taiwan 2017	7 version-photo page 29
Vehicle registration certificate vice page	30
Residence permit for Hong Kong, Macao and Taiv page	van residents-photo 31
Residence permit for Hong Kong, Macao and Taiv authority page	van residents-issuing 32
Permanent residence card for foreigners 2017 ver	rsion-photo page 33
Taiwan (Jin Ma Peng) Entry and exit permit 2015	version-photo page 34
Taiwan residence permit-photo page	35
Vietnam entry and exit permits	36
Residence permit(Guangdong, Guangxi, Donggua	an)-photo page 1000



Hong Kong identity card-photo page	1001
Boarding pass(Camera device don't support boarding pass recognition currently)	1002
Border area entry-exit permit 2005 version-photo page	1003
Border area entry-exit permit 2005 version-information page	1004
Macao identity card-photo page	1005
Claim certificate (scanner supported)	1006
Lawyer license-issuing authority page	1007
Lawyer license-photo page	1008
Road transportation IC card of People's Republic of China	1009
Business card	1010
Organization Code Certificate	1011
Shenzhen special economic zone residence permit 2015 version-photo page	1013
Inner Mongolia Autonomous Region People's court work permit	1018
Inner Mongolia Autonomous Region Work permit for procuratorial organs	1019
Social security card(Beijing, Chongqing)-photo page	1021
Marine crew health certificate-photo page	1022
Marine crew health certificate-issuing authority page	1023
Maritime crew training certificate-photo page	1024
Maritime crew training certificate-issuing authority page	1025
Marine crew competency certificate-photo page	1026
Marine crew competency certificate-issuing authority page	1027
Zhejiang province temporary residence permit-photo page	1029
National health insurance card	1030
Taiwan identity card-photo page	1031
Taiwan identity card -MRZ page	1032
English Name	1035
Shenmei group work permit	1037



Xiamen social security card-photo page	1039
Taiwan driving license	1040
Malaysia identity card-photo page	2001
USA California driving license	2002
New Zealand driving license	2003
Singapore identity card	2004
TD-2 type machine readable travel document	2006
TD-1 type machine readable travel document	2009
Indonesia identity card	2010
Thailand identity card	2011
Thailand driving license	2012
Mexico electoral certificate-photo page	2013
Mexico electoral certificate -MRZ page	2014
Sweden driving license	2020
Malaysia driving license	2021
Singapore work permit 2017 version-photo page	2023
Singapore work permit 2017 version-fingerprint page	2025
Singapore driving license	2031
Indonesia driving license	2041
Japan driving license	2051
Barcode	10000

4.2.2 Chip field index

For ICAO Doc 9303 standard passport or electronic travel document. Index 1-12 is the information read directly from the chip. Index 13-24 is the information parsed from RFID MRZ. The contents of index 13-24 need to turn on the parsing chip MRZ function to obtain (see 3.1.4.6 for details).reading the chip field index is listed in the following table.

Index	Field name (Chinese)	Field name (English)
0	保留	Reserve
1	MRZ1	MRZ1



2	MRZ2	MRZ2
3	MRZ3	MRZ3
4	本国姓名	NationalName
5	其它姓名	OtherName
6	出生日期	BirthDay
7	出生地点	BirthPlace
8	签发日期	IssueDay
9	签发机关	Authority
10	个人号码	Personal NO.
11	地址	Address
12	RFID MRZ	RFID MRZ
13	(MRZ)证件类型	(MRZ)Identification type
14	(MRZ)证件号码	(MRZ)ID Number
15	(MRZ)英文姓名	(MRZ)English name
16	(MRZ)出生日期	(MRZ)Date of Birth
17	(MRZ)有效期至	(MRZ)Date of Expiry
18	(MRZ)性别	(MRZ)Sex
19	(MRZ)签发国籍代码	(MRZ)Issuing country code
20	(MRZ)持证人国籍代码	(MRZ)Nationality code
21	(MRZ)中文姓名	(MRZ)Chinese name
22	(MRZ)身份证件号码	(MRZ)ID card number
23	(MRZ)身份号码(扩展)	(MRZ)ID Number(Expanded)
24	(MRZ)换证次数	(MRZ)Renewal times

4.2.3 Field definition of each document

For each document, there are many projects needs to be recognized. The following table explained each document recognition project's index.

Document name	Document ID	Index	Field
Resident identification card-photo	2	0	Reserve



page		1	Name
		2	Gender
		3	Nationality
		4	Birthday
		5	Address
		6	Citizen identification
			number
		0	Reserve
		1	Issuing authority
Resident identification card-issuing authority page	3	2	Expiry Date (Including issuing date and valid period)
		3	Issuing date
		4	Valid until
		0	Reserve
		1	Name
		2	Gender
		3	Nationality
		4	Birthday
Temporary identification card	4	5	Address
•		6	Citizen identification number
		7	Issuing authority
		8	Expiry Date
		9	Issuing date
		10	Valid until
		0	Reserve
Vehicle drivers license	5	1	Identification number
Explanation: driver license (1) expired, didn't add template	5	2	Name
onpirou, didir i add tomplate	1	3	Gender



		4	Address		
		5	Birthday		
		6	Issue Date		
		7	Class		
		8	Valid From		
		9	Valid for		
		10	Expiry Date		
		0	Reserve		
		1	License plate number		
		2	Vehicle type		
		3	Holder		
		4	Address		
Vehicle registration certificate	6	5	Brand model		
		Vehicle identification number			
		7	Engine number		
		8	Registration date		
		9	Issue Date		
		10	Application		
		0	Reserve		
		1	Number		
		2	Name		
		3	Birthday		
Military identification 1998 version	7	4	Gender		
		5	Birthplace		
		6	Nationality		
		7	Department		
		8	Job		



		9	Title		
		10	Licence-issuing authority		
		11	Issue Date		
		12	Valid for		
		0	Reserve		
		1	Name		
		2	2 Gender 3 Nationality 4 Birthplace 5 Recruitment date 6 Age 7 Department		
		3	10 Licence-issuing authority 11 Issue Date 12 Valid for 0 Reserve 1 Name 2 Gender 3 Nationality 4 Birthplace 5 Recruitment date 6 Age 7 Department 8 Number 9 Licence-issuing authority 10 Issue Date		
		4	Licence-issuing authority Issue Date Valid for Reserve Name Gender Nationality Birthplace Recruitment date Age Department Number Licence-issuing authority Issue Date "W"Type mark, show up in the MRZ, type "W" Identification number MRZ (MRZ output) Chinese Name English Name Gender Birthday Expiry Date		
Soldier identification 1998 version	8	5	5 Recruitment date 6 Age		
		6	Age		
		7	Department		
		8	8 Number		
		9			
		10	Issue Date		
		1 () 1			
		1	Identification number		
		2	Chinese Name		
Exit-Entry Permit for Travelling to and from Hong Kong and Macao	9	3	English Name		
(EEP) 2005 version		4	Gender		
		5	Birthday		
		6	Expiry Date		
		7	Issuing country code		
		8	English surname		
		9	English first name		



		10	MRZ1	
		11	MRZ2	
		12	Holder nationality code	
		13	Identification number (Direct recognition)	
		14	Birthplace	
		15	Issuing place	
		16	Issuing date	
		0	Document type, show up in the MRZ, type "T"	
		1	MRZ2 Holder nationality code Identification number (Direct recognition) Birthplace Issuing place Issuing date Document type, show up	
		2	Chinese Name	
		3	English Name	
		4	Gender	
		5	Birthday	
		6	Expiry Date	
Travel passes for Taiwan residents		7	Issuing country code	
to enter or leave the mainland 1992	10	8	English surname	
version-photo page		9	English first name	
		10	MRZ1	
		11	MRZ2	
		12	Holder nationality code	
		13		
		14	ID number	
		15	Date of Issue	
		16	Issue times(MRZ)	
		17	Address	



		18	Occupation/title		
		19	Issue times(VIZ)		
		20	The code of place of issue		
		0	Type mark, show up in the MRZ, type "T"		
		1 Identification number MRZ (MRZ output)	Identification number MRZ (MRZ output)		
		2	The code of place of issue Type mark, show up in the MRZ, type "T" Identification number		
		3	English Name		
		4	Gender		
		5	Birthday		
		6	Expiry date		
		7	Issuing country code		
Mainland residents travel to and from	11	8	English surname		
Taiwan 1992 version-photo page		9	English first name		
		10			
		11	MRZ2		
		12	Gender Birthday Expiry date Issuing country code English surname English first name MRZ1 MRZ2 Holder nationality code Document number Identification number		
		13	Document number		
		14	Identification number		
		15	Issuing date		
		16	Issuing frequency		
		17	Address		
		18	Job		
		0	Visa type, the type show up in the MRZ		
Visa 1	12	1	Machine readable zone output number(MRZ output)		



		2	Domestic name
		3	English name
		4	Gender
		5	Birthday
		6	Expiry date
		7	Issuing country code
		8	English surname
		9	English first name
		10	MRZ1
		11	MRZ2
		12	Holder nationality code
		13	Document number
		14	Passport number/Pass number(direct recognition)
		15	Issuing place
		16	Issuing date
		17	Note
		18	Travel time
		19	Residence purpose
		20	Visit date
		21	Depature date
		22	Stay day
		23	Visa type
		0	Passport type (the type show up in the MRZ)
Passport	13	1	Passport number MRZ (MRZ output)
		2	Domestic name (Page



	recognition)
3	English name
4	Gender
5	Birthday
6	Expiry date
7	Issuing country code
8	English surname
9	English first name
10	MRZ1
11	MRZ2
12	Holder nationality code
13	passport number (direct identification)
14	birth place(Chinese passport only)
15	Issue place(Chinese passport only)
16	Issue date(Chinese passport only)
17	RFID MRZ
18	OCR MRZ
19	Birth place pinyin(Chinese passport only)
20	Issue place pinyin(Chinese passport only)
21	ID number (Taiwan and Korean passports only)
22	National name pinyin OCR



		23	Gender OCR
		24	Licensee Nationality code OCR
		25	ID card number OCR
		26	Birth date OCR
		27	Valid until
		21	OCR
		28	Issuing authority OCR
		29	Domestic surname
		30	Domestic first name
	Note	•	umber is recommended to index 1,which is passport
		number MR	RZ(MRZ export)
		0	Reserve
		1	ID number
		2	Chinese name
		3	English name
		3 English name 4 Gender	Gender
		5	Birth date
Travel permit for residents of Hong		6	This certificate is valid until
Kong and Macao to mainland – photo	14	7	English surname
page		8	English firstname
		9	Hong kong and Macau ID number
		10	Issue date
		11	Validity period
		12	Issue authority
		13	Renewal number
		14	Other name



		0	document type, the type that appear in machine readable code is C		
		1	ID number		
		2	Chinese name		
		3	that appear in machine readable code is C ID number		
		4			
		5	Birth date		
Travel permit for residents of Hong Kong and Macao to mainland – MRZ	15	6	Valid until		
page		7	English surname		
		8	English first name		
		9	that appear in machine readable code is C ID number Chinese name English name Gender Birth date Valid until English surname English first name MRZ1 MRZ2 MRZ3 Issue country code ID card number Renewals Times Reserve Name Gender Nationality		
		10	Gender Birth date Valid until English surname English first name MRZ1 MRZ2 MRZ3 Issue country code ID card number Renewals Times Reserve Name Gender		
		11	MRZ3		
		12	Issue country code		
		13	ID card number		
		14	Renewals Times		
		0	Reserve		
Resident population registration		1	2 Chinese name 3 English name 4 Gender 5 Birth date 6 Valid until 7 English surname 8 English first name 9 MRZ1 10 MRZ2 11 MRZ3 12 Issue country code 13 ID card number 14 Renewals Times 0 Reserve 1 Name 2 Gender 3 Nationality 4 Birth Date 5 ID card 0 certificate type 1 Passport number from MRZ 2 Country name		
cards	40	2	Gender		
	16	3	Nationality		
		4	Birth Date		
		5	ID card		
		0	certificate type		
Seafarer certificate 2009		1			
edition-photo page	17	2	Gender Birth date Valid until English surname English first name MRZ1 MRZ2 MRZ3 Issue country code ID card number Renewals Times Reserve Name Gender Nationality Birth Date ID card certificate type Passport number from MRZ Country name English Name		
		3	English Name		
		4	Gender		



		5	Birth date	
		6	Valid unitil	
		7	Issue country code	
		8	English surname	
		9	English first name	
		10	MRZ1	
		11	MRZ2	
		12	Certificat holder nationality code	
		13	Passport number	
		14	Birth place	
		15	Issue Authority	
		16	Issue date	
		0	Reserve	
		1	Number	
Military officer license 1998 edition – photo page	18	2	Issue Authority	
			3	Issue Date
		4	Valid Until	
		0	Reserve	
		1	Name	
		2	Birth Date	
NATIV. 65 11 4000 1111	3	3	Gender	
Military officer license 1998 edition – information page	19	4	Birth Place	
		5	Nationality	
		6	Department	
		7	Duty	
		8	Title	
Police officer card 2006 edition-photo	20	0	Reserve	



page		1	Name	
		2	Public Security Bureau	
		3	Police Officer Number	
		0	Reserve	
		1	Name	
		2	Gender	
Police officer card 2006	21	3	Public Security Bureau Police Officer Number Reserve Name	
edition-information page		4	Birth Date	
		5	Duty	
		6	Title	
		7	Valid until	
		0	Reserve	
		1 Certifica	Certificate number	
		2	Chinese Name	
		3	Public Security Bureau Police Officer Number Reserve Name Gender Blood Group Birth Date Duty Title Valid until Reserve Certificate number Chinese Name English Name Birth Date Gender Valid until Issue Date MRZ1 MRZ2 MRZ3 Issue Date Valid until Reserve Country Name	
		4	Birth Date	
Exit-Entry Permit for travelling to and		5	Gender	
from Hongkong and Macau	22	6	Valid until	
		7	Issue Date	
		8	MRZ1	
		9	MRZ2	
		10	MRZ3	
		11	Issue Date	
		12	Valid until	
		0	Reserve	
Border area entry and exit pass 2014 edition-photo page	23	1	Country Name	
		2	Engish Name	



		3	Gender
		4	Birth Date
		5	ID number
		6	Career
		7	Issue Date
		8	Valid until
		9	Address
		10	MRZ1
		11	MRZ2
		12	certificate Type
		13	MRZ Issue country coder
		14	MRZ English Name
		15	MRZ Certificate Number
		16	MRZ Nationality Code
		17	MRZ Birth Date
		18	MRZ Gender
		19	MRZ validity until
		0	Reserve
		1	Name
		2	Gender
		3	Certificate Number
		4	Blood Type
Chinese People's Liberation Army vehicle driver license	24	5	Birth Date
		6	Department
		7	Driving permit model
		8	Initial Issue Date
		9	Issue Date
		10	Valid until



		0	Reserve
		1	Chinese Name
		2	English Name
Mainland travel permit for Taiwan		3	Birth Date
residents 2015 editon-photo page	25	4	Gender
	25	5	Valid until
		6	Issue Place
		7	Certificate Number
		8	Issue Times
		9	Issue Authority
		0	Certificate Type
		1	Certificate Number
		2	Chinese Name
		3	English Name
		4	Gender
		5	Birth Date
Mainland travel permit for Taiwan		6	Valid until
residents 2015 edition-MRZ page	26	7	English Surname
		8	English First Name
		9	MRZ1
		10	MRZ2
		11	MRZ3
		12	ID Number
		13	Renewals Times
		0	Reserve
Chinese People's Liberation Army	07	1	Organizaiton
driving license 2012 editon	27	2	License Plate Number
		3	Brand Model



		4	Vehicle Color
		5	Engine Model
		6	Frame Model
		7	Manufacture Date
		0	Reserve
		1	Certificate Number
		2	Chinese Name
		3	English Name
		4	Birth DNate
Travel Permit for Mainlanders to	29	5	Gender
Enter and Exit Taiwan	20	6	Valid until
		7	Issue Place
		8	MRZ1
		9	MRZ2
		10	MRZ3
		11	Issue Authority
Matau valiala diirina liana		0	Reserve
Motor vehicle driving license secondary page		1	Plate Number
	30	2	File Number
		3	Driving license identification code
		0	Reserve
		1	Name
Hongkong,Macao and Taiwan	31	2	Gender
Residence Permit-photo page		3	Birth
		4	Address
		5	ID unmber
Hongkong,Macao and Taiwan	32	0	Reserve
Residence Permit-Issue authority		1	Issue Authority
	I		1



page		2	Validity Period
		3	Issue Date
		4	Valid until
		5	Pass Number
		0	Reserve
		1	English Name
		2	Chinese Name
		3	Gender
		4	Birth
Foreigner Permanent Resident	33	5	Nationality
Identity card 2017 editon-photo page		6	Issue Authority
		7	English Issue authority
		8	Citizen ID number
		9	Valid until
		10	Englsih Surname
		11	English First Name
		0	Reserve
		1	ID Number
		2	Name
		3	Birth
Taiwan Area (Jin mapeng) Entry and	34	4	Validity Date
Exit License 2015 edition-photo page		5	Taiwan Address
		6	Permit Number
		7	Issue Date
		8	Gender
		9	Birth Date
Resident Permit(Guangdong,	1000	0	Reserve
Guangxi and Dongguan)-photo		1	Name



page		2	Gendr
		3	Nationality
		4	Birth
		5	Address
		6	Citizen ID number
		7	Issue Date
		8	Validity Period
		9	certificate Number
		10	Serve Place
		11	Country or place
		12	Birth Place
		0	Reserve
		1	Chinese Name
	1001	2	Pinyin Name
		3	Gender
		4	Birth Date
Hong Kong citizen identity card – photo page		5	Issue Date
		6	ID Number
		7	Symbol Mark
		8	Chinese Code
		9	Code Translation
		10	Code correction name
		0	Reserve
Boarding Pass(photograph		1	Name
equipment not support boarding pass certificate now)	1002	2	Flight
	1002	3	Arrival station
		4	Date
		5	Seat Number



		0	Reserve
		1	Certificate Number
		2	Name
Border area entry and exit pass 2015	1003	3	Gender
edition-photo page	1003	4	Birth Date
		5	ID Number
		6	MRZ1
		7	MRZ2
		0	Reserve
		1	Name
Border area entry and exit pass 2015	1004	2	Gender
edition-information page	1004	3	Birth date
		4	ID Number
		5	Address
		0	Reserve
		1	Chinese Name
		2	Pinyin Name
		3	Gender
		4	BirthD ate
Macao Resident Identify Card-photo page	1005	5	Issue Date
		6	Valid until
		7	ID Number
		8	First Issue
		9	Chinese Code
		10	Code Translation
		0	Reserve
Receiving certificate	1006	1	Acceptance Number
		2	Name



		3	Citizen ID Number
		0	Reserve
		1	Practice Institution
Lawyer License-Issue authority page	1007	2	Practice Certificate Type
		3	Practice Certificate
			Number
		0	Reserve
Lawyer License-photo page	1008	1	Licensee
		2	Gender
		3	ID Number
		0	Reserve
		1	User Name
		2	Vehicle Number Plate
People's Republic of China Road	1009	3	Vehicle Type
Transport IC card		4	Brand Type
		5	Issue Authority
		6	Road Transport Certificate Number
		7	Issue Date
		0	Name
		1	Title
		2	Mobile
		3	Company
Business card	1010	4	Address
Business card	1010	5	Phone
		6	Fax
		7	Phone
		8	Website
		9	E-mail



		0	Reserve
		1	Code
		2	Organization name
Organization code certificate	1011	3	Organization type
Organization code certificate		4	Address
		5	Validity Period
		6	Issue Authority
		7	Registration Number
		0	Reserve
		1	Name
Shenzhen Special Economic Zone Resident Permit		2	Gender
	1013	3	Nationality
		4	Issue Date
		5	Address
		6	Citizen ID number
		0	Reserve
	1018	1	Name
Inner Mongolia Autonomous Region		2	Title
People's Court Work Permit		3	Number
		4	Issue Date
		5	Validity Period
		0	Reserve
		1	Name
Inner Mongolia Autonomous Region		2	Nationality
Procuratorial Office Work Permit	1019	3	Birth date
		4	Duty
		5	Department
		6	Title



		7	Valid until
		0	Reserve
		1	Name
		2	Gender
		3	Nationality
Social Security Card	1021	4	Birth date
Social Security Card	1021	5	Social Security Number
		6	Card Number
		7	Issue Date
		8	Valid until
		9	Bank Card Number
		0	Reserve
		1	Holder Name
	1022	2	Holder Pinyin Name
		3	Nationality
Sea boat crew health		4	Birth Date
certificate-photo page		5	Gender
		6	Departmet
		7	Certificate Number
		8	Valid until
		9	Issue Date
		10	Print Number
		0	Resereve
Sea boat crew health	1023	1	Issue Authority
certificate-Issue authority page	1023	2	Chief Examiner Signature
		3	Issue Authority
Sea boat crew training	1024	0	Reserve
certificate-photo page	1027	1	Holder Name



		2	Holder Pinyin Name
		3	Nationality
		4	Birth Date
		5	Gender
		6	Certificate Number
		7	Issue Date
		8	Certificate Name Column
		9	Issue Date
		10	Valid until
		11	Print Number
		0	Reserve
		1	Name of officially
		·	authorized official
Sea boat crew training certificate-Issue authority page	1025	2	Authorized organ
Continuate local datalerity page		3	Certificate name
		4	Issue date
		5	Valid until
		0	Reserve
		1	Holder's Name
		2	Holder's pinyin Name
		3	Nationality
		4	Birth Date
Sea boat crew training certificate-photo page	1026	5	Gender
		6	Certificate Number
		7	Valid until
		8	Issue Date
		9	Duty
		10	Level



		11	Trial Limit
		12	Printing Number
		0	Reserve
Sea boat crew training		1	Name of officially authorized official
certificate-Issue authority page	1027	2	Authorized organ
		3	Title
		4	Trial limit
		0	Reserve
		1	Name
Zhejiang Temporary Residence	1029	2	Gender
Permit-photo page	1029	3	Nationality
		4	Citizen ID card
		5	Current Living Address
	1030	0	Reserve
		1	Name
Taiwan National Health Insurance card		2	ID Card Number
		3	Birth Date
		4	Card Number
		0	Reserve
		1	Name
Taiwan ID card-photo page	1031	2	Gender
Taiwan ID card-photo page	1031	3	Birth Date
		4	Issue Date
		5	Unified Numbers
Taiwan ID card-barcode page		0	Reserve
	1032	1	Father
		2	Mother



		3	Spouse
		4	Servicing
		5	Birth place
		6	Address
		7	Number
English Name (Import Identification		0	Reserve
only)	1035	1	English Name
		0	Reserve
Shenmei Group Work Permit	1037	1	Name
Chemica Group Work Fernik	1007	2	Department
		3	Number
	1039	0	Reserve
		1	Name
Xiamen Social Security Card-photo		2	Gender
page		3	Card number
		4	Insurance Number
		5	ID card
		0	Reserve
		1	Name
		2	Gender
		3	Birth Date
Taiwan Area Driving License	1040	4	Issue Date
		5	Driver License Number
		6	Address
		7	Validity Period
		8	Jurisdiction Number
		9	Driver liense Type



		0	Reserve
		1	Citizne ID Card Number
		2	Name
Malaysian ID card-photo page	2001	3	Gender
		4	Birth Date
		5	Nationality
		6	Address
		0	Reserve
		1	Driver License Number
American California Driver's License	2002	2	Last Name
		3	First Name
		4	Gender
	2003	0	Reserve
		1	Last Name
		2	First Name
New Zealand driver's license		3	Birth Date
		4	Issue Date
		5	ID Driver License ID
		6	Expiry Date
		0	Reserve
		1	Name
		2	Gender
Singapore ID card	2004	3	Nationality
		4	Birth Date
		5	Birth Country
		6	ID Card Number
TD-2 machine readable travel	2006	0	Reserve
document	2000	1	MRZ1
I and the second	•		1



		2	MRZ2
	2009	0	Certificate Type
		1	ID card Number
		2	Issue Country Code
		3	English Name
		4	Gender
		5	Birth Date
TD-1 Machine Readable Travel		6	Valid until
Document		7	English Surname
		8	English First Name
		9	MRZ1
		10	MRZ2
		11	MRZ3
		12	Counrty Code(Native)
			ID card
	2010	13	Number(Extension)
		0	Reserve
		1	ID card Number
		2	Name
		3	Birth Date
Indonesian ID card		4	Birth Place
		5	Gender
		6	Area
		7	country of citizenship
		8	Nationality
		9	Blood Type
		10	Address
Thailand National ID Card	2011	0	Reserve



		1	First Name
		2	Last Name
		3	Birth date
		4	Issue Date
		5	Valid until
		6	ID card Number
		0	Reserve
	2012	1	Name
Thailand driver's license		2	Driver's License Number
		3	Date of Birth
		4	Issue Date
		5	Valid until
		6	ID card Number
		0	Reserve
		1	Father's Surmane
	2013	2	Mother's Surname
		3	Name
		4	Street and Number
Mexican Voter Card-photo page		5	Colony and Zip Code
Wexican voter Card-prioto page		6	City and State
		7	Voter Code
		8	Identity Unique Identifier
		9	Gender
		10	Age
Mexican Voter card back ABC	2014	11	Birth Date
		0	Reserve
Wichidan votol dalu back ADO	2017	1	Identity Unique Identifier
Swedish driver's license	2020	0	Reserve



		1	First Name
		2	Last Name
		3	Birth Date
		4	Issue Date
		5	Valid until
		6	Certificate Number
			Social Security Card
		7	Number
		0	Reserve
		1	Name
		2	Nationality
Malaysia driver's license	2021	3	Citizen ID Card Number
		4	Certificate Type
		5	Valid until
		6	Address
		0	Reserve
	2031	1	Driver's License Number
Singapore driver's license		2	Name
Singapore driver's license		3	Birth Date
		4	Issue Date
		5	Valid until
Indonesian driver's license	2041	0	Reserve
		1	Name
		2	Gender
		3	Address
macricolari arivor o neorico		4	City
		5	Birth Date
		6	Height
		7	Job



		8	ID card Number
		9	Valid until
Japanese driver's license		0	Reserve
	2051	1	Name
		2	Birth Date
		3	Residence
		4	Delivery
		5	Valid until
		6	Exemption conditons,etc.