



iMag/ iMag Pro(II) SDK User Manual

**8009-7508-001, Rev. F
17 February 2020**

Revision History

Rev	Date	Description of Changes	By
A	08/23/2012	Initial Release. For iMag SDK v2.4 and above.	JW
B	12/27/2012	For iMag SDK v2.5 -Remove function "destroy", and add the function "dealloc". -Add new functions "SendCMDGetVersion", "SendCMDGetSerialNumber" and "enableLogging". - Add platform IOS 6.0	CH
C	02/25	Add supporting IOS 6.1	CH
D	10/24/2013	Add iMagProII	CH
E	4/20/2016	Support Bitcode and iOS7 above.	Xinhu Li
F	2/17/2020	Font update, text and style edit. Added Troubleshooting section.	CB

1. Target Devices

- iMag and iMag Pro(II) Readers

2. Platform

- OS v7.0 above;
- xCode v5.1 above for calling SDK; xCode v7.3 above for demo source code.
- Architectures: armv7, arm64, i386 and x86_64. Bitcode: support.

3. iOS SDK files

- iMag.h
- libiMagSDK.a (Static Library)

4. SDK Methods

The iMag/iMag Pro II SDK offers the following methods.

4.1. SDK Property

4.1.1. iMagConnected

Description: Retrieves the connection status between the iMag reader and the SDK.

Format:

```
@property (readonly) BOOL iMagConnected; Return: BOOL.
```

Returns the connection status.

4.2. SDK Functions

4.2.1. init

Format:

```
-(id) init
```

Description: Initializes a new iMag instance, builds an event notification for reader's connection, and builds a connection and session between the SDK and the reader. If the connections are built successfully, fires the **iMagDidConnectNotification** event. To destroy the object **init** builds, use the standard **release** function.

4.2.2. SendCMD

Description: Sends any command data to the reader and retrieves the response.

Format:

`-(NSData*) SendCMD: (NSData*) writeBuf; Parameter: writeBuf`
Sends bytes array data to the reader.

Returns: Byte array data.

Example: To get the firmware version, send command **<0x52 0x22>** to the reader. For more command descriptions, see the iMag/iMag Pro user manual.

4.2.3. SendCMDGetVersion

Description: Sends the **Get Firmware Version** command data to reader and retrieves the firmware version description.

Format:

`-(NSData*) SendCMDGetVersion; Parameter: nil.`

Returns: Byte array data for the firmware version.

4.2.4. SendCMDGetSerialNumber

Description: Sends the **Get Serial Number** command data to the reader and retrieves the serial number.

Format:

`-(NSData*) SendCMDGetSerialNumber; Parameter: nil.`

Return: Byte array data for serial number.

4.2.5. enableLogging

Description: Enables the console log function for debugging.

Format:

`-(void) enableLogging: (BOOL) enable;`

Parameter: enable. YES enables writing to the console log; NO disables it.

Returns: No return.

4.3. SDK Notification Events

4.3.1. iMagDidConnectNotification

Description: The SDK fires this event to the application when an iSmart reader is plugged into an iOS device by the 30Pin interface.

4.3.2. iMagDidDisconnectNotification

Description: The SDK fires this event to the application when an iSmart reader is removed from an iOS device by the 30Pin interface.

4.3.3. iMagDidReceiveDataNotification

Description: The SDK fires this event and sends card data to the application as an event parameter when the SDK receives card data from the iMag reader.

5. Troubleshooting

Symptom	Possible Cause	Remedy
General Issues		
Observers do not recognize reader as a device.	Device missing from Supported external accessory protocols list.	Add the device to the .PLIST file under supported external accessory protocols.