



# KOAMTAC Fundamentals

Connecting your KDCi with iOS Devices

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## Connecting your KDCi with iOS Devices

### Connecting Your KDCi to your iPhone, iPad, or iPod Touch

There are two options for Bluetooth pairing your KDCi and your iPhone, iPad or iPod Touch. Both options will have the same result, choose an option below that best suits you.

#### Option A

#### Connect your KDCi to your iPhone, iPad, or iPod Touch

This method is recommended for first-time users or when you are only connecting a few KDC's.

#### Option B

#### Connect your iPhone, iPad or iPod touch from your KDCi by scanning a special Bluetooth MAC Address barcode

This method is recommended for more advanced users or when your application or process requires pairing one of many KDCs to one of many iOS devices on a regular basis.

#### Please Note:

Your KDCi is shipped from the factory in **iPhone** mode. Both connection options within this document require your KDCi to be in iPhone mode. If you are unsure if your KDCi has been configured in iPhone mode, scan the barcodes below or follow the menu system for KDCi equipped option show below.

For laser-based models  
KDC20/100/200/250/350L/410/415



6A002

For 2D imager models  
KDC30/300/350C/420/425/450



TKMDC6A002

iPhone

iPhone

OR

Enter the  
KDC menu

Select  
BT Config

Select  
Connect Device

Select  
iPhone

Select  
Save & Exit

press



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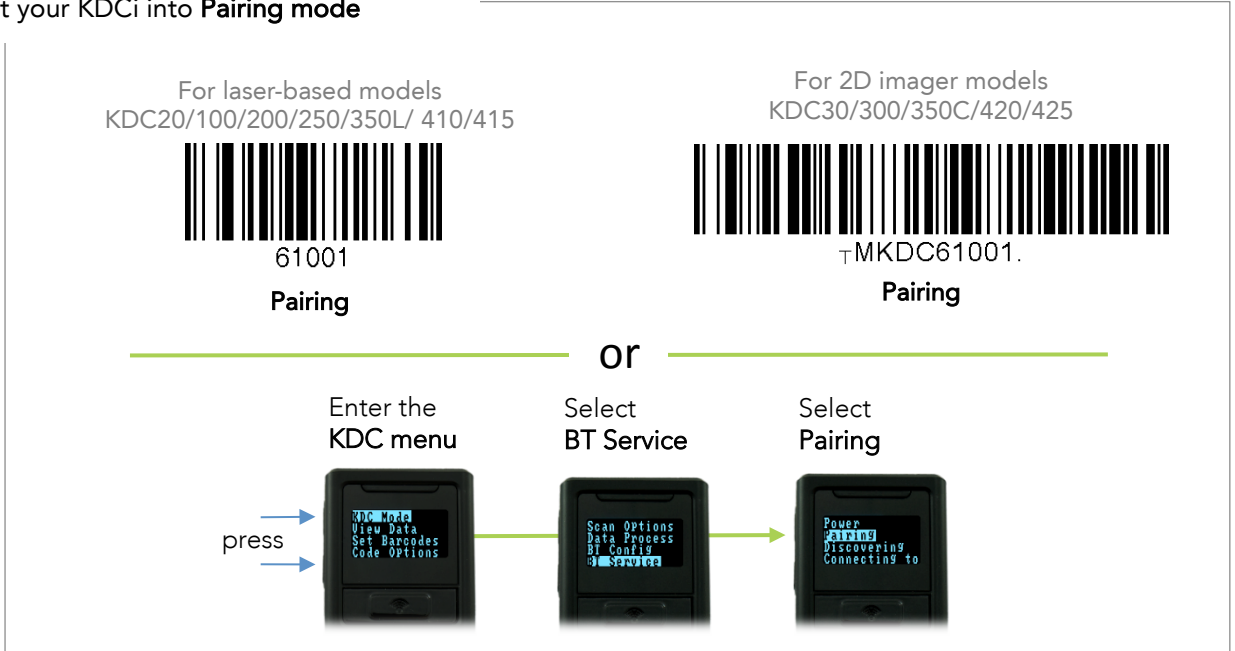
## Connecting your KDCi with iOS Devices

### Option A

Connect your KDCi from your iPhone, iPad or iPod Touch

This method is recommended for first-time users or when you are only connecting a few KDC's.

Put your KDCi into **Pairing mode**



On your iOS device, go to **Settings**→ **Bluetooth**, find the KDCi with which you want to pair and select it. Your KDCi and iPhone, iPad or iPod touch are now communicating with each other.



Download **KTSync** from iTunes at <http://itunes.com/app/KTSync>. Open KTSync after it has installed and it will automatically find the KDCi and connect.

Refer to **page 6** to learn more about KTSync

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## Connecting your KDCi with iOS Devices

### Option B

Connect your iPhone, iPad or iPod touch from your KDCi by scanning a special Bluetooth MAC Address barcode

This method is recommended for more advanced users or when your application or process requires pairing one of many KDCs to one of many iOS devices on a regular basis.

Find the Bluetooth MAC Address of your iPhone, iPad or iPod touch



Create your Pairing Barcode

- Go to <http://www.terryburton.co.uk/barcodewriter/generator/>
- Enter the following information:

Symbology: **Code 128**  
Contents: **^FNC365<BluetoothAddress>**  
Options: **includetext parsefnc**

*Required parameters*

Symbology: Code 128  
Contents: ^FNC365 881FCALK15LM  
Options: includetext parsefnc

*Additional parameters*

Translate: 50 50  
Scale: 2 2  
Rotate: 0

Make Barcode (It will appear below)

Replace highlighted text with your Bluetooth Address from Step 1. Remove the colons and < > marks as shown.

- Click **Make Barcode**
- Download the image in **EPS, PNG or JPEG** format

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## Connecting your KDCi with iOS Devices

### Option B

Connect your iPhone, iPad, or iPod touch from your KDCi by scanning a special Bluetooth MAC Address barcode

Print your Pairing bar code

2D image-based barcode readers such as the KDC300, KDC420 series, and KDC350C models will read a printed barcode OR directly from an LCD screen.

Laser scanners, such as the KDC20, KDC200, KDC410 series, and KDC350L models are not designed to read from a screen and will only read the printed barcode.

Pair your KDCi to iOS by scanning the Pairing bar code



Download **KTSync** from iTunes at <http://itunes.com/app/KTSync>. Open KTSync after it has installed and it will automatically find the KDCi and connect.

Refer to **page 6** to learn more about KTSync

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## Connecting your KDCi with iOS Devices

### How to Reconnect

First, let's make sure your KDCi is still listed as a device in your iPhone, iPad, or iPod touch.



**YOU'RE ALL SET!**

If your KDCi shows as "Not Connected", your device can be reconnected by pressing one button.

Simply press the <UP> button on your KDCi

**DON'T WORRY.**

Your iPhone, iPad or iPod touch knows your KDCi is out there but you'll need to pair them before they can talk.

Step through one of the two Pairing options on Page 1.

Your KDCi can initiate reconnection in THREE ways.

**Option 1**

Press the <UP> button on your KDCi

**Option 2**

Scan your "Pairing" bar code

**Option 3**

Enable "Menu → BT Config → AutoReconnection"

Attention Experts! When the KDCi goes to sleep, it will first check to determine if Bluetooth is disconnected; then it checks if Bluetooth was connected before or after reset. If these conditions are met, the KDCi tries to reconnect to your iPhone, iPad, or iPod touch 10 times.

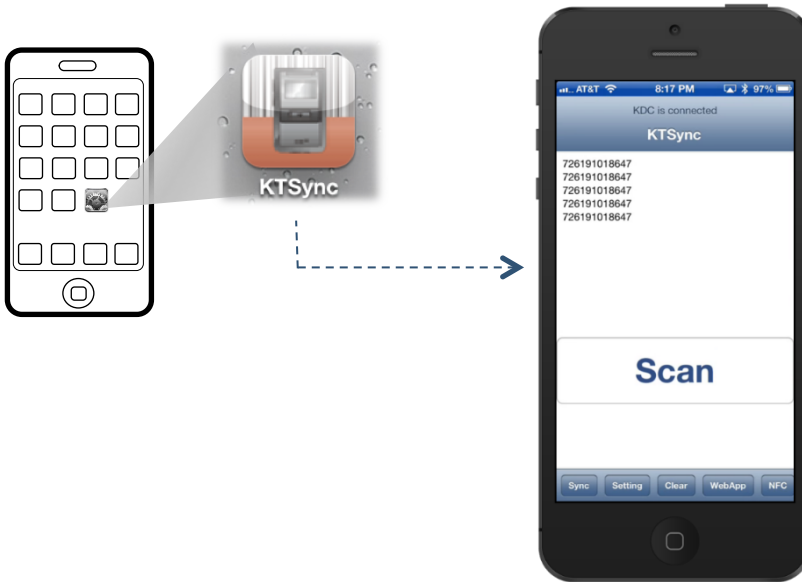
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## Connecting your KDCi with iOS Devices

### Scanning with KTSync

Download KTSync from iTunes at <http://itunes.com/app/KTSync>. Open KTSync after it has installed and it will automatically find the KDCi and connect.

Use KTSync for iOS to test the settings of your KDCi device with iOS and prove proper functionality as you develop your App with the KoamTac iOS SDK.



### SDK Options

The external accessory framework is suspended to support communication between iOS and the KDCi when the application is in the background or the iOS device is locked. As a result of this feature, the KDCi has difficulty communicating with the iOS device. To avoid this, it is recommended to use the option to enable the iOS external accessory framework to maintain communications with the KDCi while iOS is locked or the application is in background mode from within your iOS App.

This option is enabled by adding the "UIBackgroundModes" key into the application Info.plist and setting its value to "external-accessory".

For more information, please see Apple's developer documentation at the following link:

[http://developer.apple.com/library/ios/#documentation/iPhone/Conceptual/iPhoneOSProgrammingGuide/ManagingYourApplicationsFlow/ManagingYourApplicationsFlow.html#//apple\\_ref/doc/uid/TP40007072-CH4-SW24](http://developer.apple.com/library/ios/#documentation/iPhone/Conceptual/iPhoneOSProgrammingGuide/ManagingYourApplicationsFlow/ManagingYourApplicationsFlow.html#//apple_ref/doc/uid/TP40007072-CH4-SW24)