

Introduction

ZPAY iOS Barcode and QR Expert

This plugin works with Unity Basic and Unity Pro. This is a low-level plugin to use iOS QR and Barcodes within Unity.

QR

QR stands for Quick Response Code. This plug-in for Unity allows your iPhone or iPad mobile game to both generate and recognize QR codes.

Barcode

Barcode is an optical machine-readable representation of data. This plug-in for Unity allows your iPhone or iPad mobile game to both generate and recognize bar codes.

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How to install inside Unity

ZPAY iOS Barcode and QR Expert

How to install inside Unity

Import to Unity

1. Import the package to Unity
2. The iOSBarcode is a class with static functions.
3. The namespace is "ZPAY.iOSBarcodeHandler" and "ZPAY.iOSBarcodeExpert"
To use functions inside the iOSBarcodeExpert, you need to specify the namespace and iOSBarcodeExpert as class.
4. The demo is in Assets\\Scripts\\Capturecamera.cs, CapturePhoto.cs, GenerateBarCode.cs. The main menu is at MainMenu.cs
5. There is a Plugin\\ios\\libIosBarCode.a This is the library to interface to QR and Barcode services

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System Requirements

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Run-Time System Requirements

iPad versions

iPad2, iPad3, iPad4, iPad Air

iPhone4, iPhone4S, iPhone5, iPhone5C

Unity versions

Unity iOS Basic, Unity iOS Pro

Unity 4.3 and above

Does not work with Android, Mac, BlackBerry, PC.

This plugin is IOS platform specific.

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How do I... ?

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How do I capture barcodes and QR codes?

See the demo `CaptureCamera.cs`, `CapturePhoto.cs`

How do I encode barcodes and QR codes?

See the demo `GenerateBarCode.cs`

How do I...?

1. To capture barcode for QR code from file, use [ScanBarcodeByFile\(Int32, String, Int32\)](#). This function is asynchronous and returns result from `ActionScanBarCode` and `ActionPluginError`.
2. To capture barcode or QR code from camera, use [ScanBarcode\(Int32, String, Int32, Boolean\)](#). This function is asynchronous and returns result from `ActionScanBarCode` and `ActionPluginError`.
3. To generate barcode or QR code, use [EncodeBarcode\(String, Int32, String, Int32, Int32\)](#).

What parameters are there for Type?

The parameter is from 1 to 11.

What are the parameters for Type 1?

Type 1: `BarcodeFormatQRCode`

Charset: All ASCII characters

Length: Variable

What are the parameters for Type 2?

Type 2: `BarcodeFormatAztec`

Charset: All ASCII characters

Length: Variable

What are the parameters for Type 3?

Type 3: `BarcodeFormatCodabar`

should end with one of the following: 'T', 'N', '*' or 'E'

should start with one of the following: 'A', 'B', 'C' or 'D'

Charset: A-Z, 0-9, -,.*\$/+%

Length: max. 12 digits

What are the parameters for Type 4?

Type 4: BarcodeFormatCode128

Charset: All ASCII characters

Length: Variable

What are the parameters for Type 5?

Type 5: BarcodeFormatCode39

Charset: A-Z, 0-9, -,.*\$/+%

Length: Variable

What are the parameters for Type 6?

Type 6: BarcodeFormatDataMatrix

Charset: All ASCII characters

Length: Variable

Minimum Width: 15 pixels

What is the parameter for Type 7?

Type 7: BarcodeFormatEan13

Charset: 0-9

Length: max. 12 digits

Minimum Width: 128 pixels

What are the parameters for Type 8?

Type 8: BarcodeFormatEan8

Charset: 0-9

Length: max. 8 digits

Minimum Width: 128 pixels

What are the parameters for Type 9?

Type 9: BarcodeFormatITF

Charset: 0-9

Length: max. 12 digits

Minimum Width: 128 pixels

What are the parameters for Type 10?

Type 10: BarcodeFormatPDF417

Charset: All ASCII characters

Length: Variable

Minimum Width: 300 pixels

What are the parameters for Type 11?

Type 11: BarcodeFormatUPCA

Charset: 0-9

Length: max. 12 digits

Minimum Width: 128 pixels

What iOS frameworks do you have to add?

AVFoundation.framework,

CoreGraphics.framework,

CoreMedia.framework,

CoreVideo.framework,

ImageIO.framework,

QuartzCore.framework

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Namespaces

Namespace	Description
ZPAY	ZPAY Namespace



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ZPAY Namespace

ZPAY iOS Barcode and QR Expert

ZPAY Namespace

Classes

	Class	Description
	iOSBarCodeExpert	iOS BarCode Expert for iOS
	iOSBarcodeHandler	iOS BarCode Expert Callback Handler

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iOSBarcodeExpert Class

ZPAY iOS Barcode and QR Expert

iOS BarCode Expert for iOS

Inheritance Hierarchy

System.Object
ZPAY.iOSBarcodeExpert

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

[Copy to Clipboard](#) [Print](#)

```
public class iOSBarcodeExpert
```

JScript

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```
public class iOSBarcodeExpert
```

See Also

[iOSBarcodeExpert Members](#)

[ZPAY Namespace](#)

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iOSBarcodeExpert

Members

ZPAY iOS Barcode and QR Expert





The [iOSBarcodeExpert](#) type exposes the following members.

Constructors

	Name	Description
	iOSBarcodeExpert	Initializes a new instance of the iOSBarcodeExpert class


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Methods

	Name	Description
	EncodeBarcode	Encode a barcode from existing text
	ScanBarcode	Scan a barcode or QR code by camera
	ScanBarcodeByFile	Scan a barcode or QR code by file
	ShowAlert	Show iOS Alert

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Fields

	Name	Description
	m_PixelsHandle	Pixel Handle

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See Also

[iOSBarcodeExpert Class](#)

[ZPAY Namespace](#)

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iOSBarcodeExpert Constructor

ZPAY iOS Barcode and QR Expert

Initializes a new instance of the [iOSBarcodeExpert](#) class

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

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```
public iOSBarcodeExpert()
```

JScript

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```
public function iOSBarcodeExpert()
```

See Also

[iOSBarcodeExpert Class](#)

[iOSBarcodeExpert Members](#)

[ZPAY Namespace](#)


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iOSBarcodeExpert Fields

ZPAY iOS Barcode and QR
Expert

The [iOSBarcodeExpert](#) type exposes the following members.

Fields

	Name	Description
	m_PixelsHandle	Pixel Handle

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See Also

[iOSBarcodeExpert Class](#)

[ZPAY Namespace](#)

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iOSBarcodeExpert.m_PixelsHandle Field

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Pixel Handle

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

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```
public static GCHandle m_PixelsHandle
```

JScript

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```
public static var m_PixelsHandle : GCHandle
```

Field Value

Type: **GCHandle**

See Also

[iOSBarcodeExpert Class](#)

[iOSBarcodeExpert Members](#)

[ZPAY Namespace](#)





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iOSBarcodeExpert Methods

ZPAY iOS Barcode and QR
Expert

The [iOSBarcodeExpert](#) type exposes the following members.

Methods

	Name	Description
	EncodeBarcode	Encode a barcode from existing text
	ScanBarcode	Scan a barcode or QR code by camera
	ScanBarcodeByFile	Scan a barcode or QR code by file
	ShowAlert	Show iOS Alert

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See Also

[iOSBarcodeExpert Class](#)

[ZPAY Namespace](#)

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iOSBarcodeExpert.EncodeBarcode Method

ZPAY iOS
Barcode and QR
Expert

Encode a barcode from existing text

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C#

VB C++ F#

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```
public static string EncodeBarcode(  
    string str,  
    int width,  
    string filename,  
    int texture,  
    int type  
)
```

JScript

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```
public static function EncodeBarcode(  
    str : String,  
    width : int,  
    filename : String,  
    texture : int,  
    type : int  
) : String
```

Parameters

str

Type: **System.String**
String to encode

width

Type: **System.Int32**
width of bar code

filename

Type: **System.String**
filename

texture

Type: **System.Int32**
handle to texture

type

Type: **System.Int32**
Type of Barcode

Return Value

Type: **String**

Return Encode string

See Also

[iOSBarcodeExpert Class](#)

[iOSBarcodeExpert Members](#)

[ZPAY Namespace](#)

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iOSBarcodeExpert.ScanBarcode Method

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and QR Expert

Scan a barcode or QR code by camera

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

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```
public static string ScanBarcode(  
    int width,  
    string filename,  
    int texture,  
    bool flashlight  
)
```

JScript

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```
public static function ScanBarcode(  
    width : int,  
    filename : String,  
    texture : int,  
    flashlight : boolean  
) : String
```

Parameters

width

Type: **System.Int32**
width of bar code

filename

Type: **System.String**
filename

texture

Type: **System.Int32**
handle to texture

flashlight

Type: **System.Boolean**
Turn on flash-light during Photo-capture

Return Value

Type: **String**
Return Decoded string

See Also

[iOSBarcodeExpert Class](#)

[iOSBarcodeExpert Members](#)

ZPAY Namespace

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iOSBarcodeExpert.ScanBarcodeByFile Method

ZPAY iOS
Barcode
and QR
Expert

Scan a barcode or QR code by file

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

[Copy to Clipboard](#) [Print](#)

```
public static string ScanBarcodeByFile(  
    int width,  
    string filename,  
    int texture  
)
```

JScript

[Copy to Clipboard](#) [Print](#)

```
public static function ScanBarcodeByFile(  
    width : int,  
    filename : String,  
    texture : int  
) : String
```

Parameters

width

Type: **System.Int32**
width of bar code

filename

Type: **System.String**
filename

texture

Type: **System.Int32**
handle to texture

Return Value

Type: **String**
Return Decoded string

See Also

[iOSBarcodeExpert Class](#)

[iOSBarcodeExpert Members](#)

[ZPAY Namespace](#)

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iOSBarcodeExpert.ShowAlert Method

ZPAY iOS Barcode and QR Expert

Show iOS Alert

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

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```
public static void ShowAlert(  
    string msg,  
    string title  
)
```

JScript

[Copy to Clipboard](#) [Print](#)

```
public static function ShowAlert(  
    msg : String,  
    title : String  
)
```

Parameters

msg

Type: **System.String**

Message to Popup

title

Type: **System.String**

Title of MessageBox to Popup

See Also

[iOSBarcodeExpert Class](#)

[iOSBarcodeExpert Members](#)

[ZPAY Namespace](#)

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iOSBarcodeHandler Class

ZPAY iOS Barcode and QR Expert

iOS BarCode Expert Callback Handler

Inheritance Hierarchy

System.Object
Object
Component
Behaviour
MonoBehaviour
ZPAY.iOSBarcodeHandler

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

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```
public class iOSBarcodeHandler : MonoBehaviour
```

JScript

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```
public class iOSBarcodeHandler extends MonoBehaviour
```

See Also

[iOSBarcodeHandler Members](#)

[ZPAY Namespace](#)


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iOSBarcodeHandler Members

ZPAY iOS Barcode and QR Expert



The [iOSBarcodeHandler](#) type exposes the following members.

Constructors

	Name	Description
	iOSBarcodeHandler	Initializes a new instance of the iOSBarcodeHandler class



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Methods

	Name	Description
	OnPluginError	Plugin error Event
	OnScanBarcode	Scan Barcode Event

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Fields

	Name	Description
	ActionPluginError	PluginError Callback
	ActionScanBarCode	Scan Barcode Callback

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See Also

[iOSBarcodeHandler Class](#)

[ZPAY Namespace](#)

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iOSBarcodeHandler Constructor

ZPAY iOS Barcode and QR
Expert

Initializes a new instance of the [iOSBarcodeHandler](#) class

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

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```
public iOSBarcodeHandler()
```

JScript

[Copy to Clipboard](#) [Print](#)

```
public function iOSBarcodeHandler()
```

See Also

[iOSBarcodeHandler Class](#)

[iOSBarcodeHandler Members](#)

[ZPAY Namespace](#)



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iOSBarcodeHandler Fields

ZPAY iOS Barcode and QR Expert

The [iOSBarcodeHandler](#) type exposes the following members.

Fields

	Name	Description
	ActionPluginError	PluginError Callback
	ActionScanBarCode	Scan Barcode Callback

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See Also

[iOSBarcodeHandler Class](#)

[ZPAY Namespace](#)

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iOSBarcodeHandler.ActionPluginError Field

ZPAY iOS
Barcode
and QR
Expert

PluginError Callback

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

[Copy to Clipboard](#) [Print](#)

```
public static Action<string> ActionPluginError
```

JScript

[Copy to Clipboard](#) [Print](#)

```
public static var ActionPluginError : Action<String>
```

Field Value

Type: **Action<String>**

See Also

[iOSBarcodeHandler Class](#)

[iOSBarcodeHandler Members](#)

[ZPAY Namespace](#)

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iOSBarcodeHandler.ActionScanBarCodeField

ZPAY
iOS
Barcode
and QR
Expert

Scan Barcode Callback

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C# VB C++ F#

[Copy to Clipboard](#) [Print](#)

```
public static Action<string> ActionScanBarCode
```

JScript

[Copy to Clipboard](#) [Print](#)

```
public static var ActionScanBarCode : Action<String>
```

Field Value

Type: **Action<String>**

See Also

[iOSBarcodeHandler Class](#)

[iOSBarcodeHandler Members](#)

[ZPAY Namespace](#)



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iOSBarcodeHandler Methods

ZPAY iOS Barcode and QR Expert

The [iOSBarcodeHandler](#) type exposes the following members.

Methods

	Name	Description
	OnPluginError	Plugin error Event
	OnScanBarcode	Scan Barcode Event

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See Also

[iOSBarcodeHandler Class](#)

[ZPAY Namespace](#)

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iOSBarcodeHandler.OnPluginError Method

ZPAY iOS
Barcode and QR
Expert

Plugin error Event

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C#

[VB](#)

[C++](#)

[F#](#)

[Copy to Clipboard](#) [Print](#)

```
public void OnPluginError(  
    string errMsg  
)
```

JScript

[Copy to Clipboard](#) [Print](#)

```
public function OnPluginError(  
    errMsg : String  
)
```

Parameters

errMsg

Type: **System.String**

Empty string returned from iOS Plugin

Remarks

This event is triggered when Barcode Plugin reported an error

See Also

[iOSBarcodeHandler Class](#)

[iOSBarcodeHandler Members](#)

[ZPAY Namespace](#)

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iOSBarcodeHandler.OnScanBarcode Method

ZPAY iOS
Barcode and
QR Expert

Scan Barcode Event

Namespace: [ZPAY](#)

Assembly: Assembly-CSharp (in Assembly-CSharp.dll) Version: 0.0.0.0

Syntax

C#

[VB](#)

[C++](#)

[F#](#)

[Copy to Clipboard](#) [Print](#)

```
public void OnScanBarcode(  
    string data  
)
```

JScript

[Copy to Clipboard](#) [Print](#)

```
public function OnScanBarcode(  
    data : String  
)
```

Parameters

data

Type: **System.String**

Data from Barcode Capture from Camera

Remarks

This event is triggered when Barcode is captured

See Also

[iOSBarcodeHandler Class](#)

[iOSBarcodeHandler Members](#)

[ZPAY Namespace](#)

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