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.

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

System Requirements ZPAY iOS Barcode and QR Expert

Run-Time System Requirements

iPad versions

iPad2, iPad3, iPad4, iPad Air

iPhone4, iPhone4S, 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.

How do I...?

ZPAY iOS Barcode and QR Expert

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...?

- 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

ZPAY

ZPAY iOS Barcode and QR Expert

Namespaces

Namespace	Description
ZPAY	ZPAY Namespace

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

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	Copy to Clipboard Print
<pre>public class iOSBarCodeExpert</pre>	

See Also

iOSBarCodeExpert Members ZPAY Namespace

iOSBarCodeExpert Members

ZPAY iOS Barcode and QR Expert

The iOSBarCodeExpert type exposes the following members.

Constructors

Name Description		Description	
olla	•	iOSBarCodeExpert	Initializes a new instance of the iOSBarCodeExpert class

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Methods

	Name	Description
=05	EncodeBarcode	Encode a barcode from existing text
=05	ScanBarcode	Scan a barcode or QR code by camera
=05	ScanBarcodeByFile	Scan a barcode or QR code by file
=05	ShowAlert	Show iOS Alert

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Fields

	Name	Description
₽ 5	m_PixelsHandle	Pixel Handle

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See Also

iOSBarCodeExpert Class ZPAY Namespace

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()

Copy to Clipboard Print

public function iOSBarCodeExpert()
```

See Also

iOSBarCodeExpert ClassiOSBarCodeExpert MembersZPAY Namespace

iOSBarCodeExpert Fields

ZPAY iOS Barcode and QR Expert

The iOSBarCodeExpert type exposes the following members.

Fields

Name		Description
₽ <u>S</u>	m_PixelsHandle	Pixel Handle

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See Also

iOSBarCodeExpert Class ZPAY Namespace

iOSBarCodeExpert.m_PixelsHandle Field

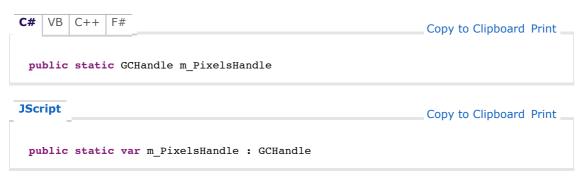
ZPAY iOS Barcode and QR Expert

Pixel Handle

Namespace: **ZPAY**

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

Syntax



Field Value

Type: GCHandle

See Also

iOSBarCodeExpert Class iOSBarCodeExpert Members ZPAY Namespace

iOSBarCodeExpert Methods

ZPAY iOS Barcode and QR Expert

The iOSBarCodeExpert type exposes the following members.

Methods

	Name	Description
=05	EncodeBarcode	Encode a barcode from existing text
=05	ScanBarcode	Scan a barcode or QR code by camera
=05	ScanBarcodeByFile	Scan a barcode or QR code by file
=05	ShowAlert	Show iOS Alert

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See Also

iOSBarCodeExpert Class ZPAY Namespace

iOSBarCodeExpert.EncodeBarcode Barcode and QR **Method**

Expert

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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#
                                                           Copy to Clipboard Print
 public static string EncodeBarcode(
        string str,
        int width,
        string filename,
        int texture,
        int type
```

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

Parameters

JScript

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

iOSBarCodeExpert.ScanBarcode ZPAY iOS Barcode **Method**

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#
                                                             Copy to Clipboard Print
 public static string ScanBarcode(
        int width,
        string filename,
         int texture,
        bool flashlight
 )
```

JScript

Copy to Clipboard Print

```
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

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

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#

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

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



iOSBarCodeExpert.ShowAlert ZPAY iOS Barcode and QR Expert

Show iOS Alert

Namespace: **ZPAY**

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

Syntax

Parameters

msa

Type: **System.String** Message to Popup

title

Type: System.String

Title of Messagebox to Popup

See Also

iOSBarCodeExpert Class iOSBarCodeExpert Members ZPAY Namespace

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

See Also

iOSBarcodeHandler Members ZPAY Namespace

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
=0	OnScanBarcode	Scan Barcode Event

Back to Top

Fields

	Name	Description
> 5	ActionPluginError	PluginError Callback
> 5	ActionScanBarCode	Scan Barcode Callback

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See Also

iOSBarcodeHandler Class ZPAY Namespace

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#

public iOSBarcodeHandler()

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public function iOSBarcodeHandler()
```

See Also

iOSBarcodeHandler Class iOSBarcodeHandler Members ZPAY Namespace

iOSBarcodeHandler Fields

ZPAY iOS Barcode and QR Expert

The iOSBarcodeHandler type exposes the following members.

Fields

	Name	Description
₽ <u>S</u>	ActionPluginError	PluginError Callback
> S	ActionScanBarCode	Scan Barcode Callback

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See Also

iOSBarcodeHandler Class ZPAY Namespace

iOSBarcodeHandler.ActionPluginError Field

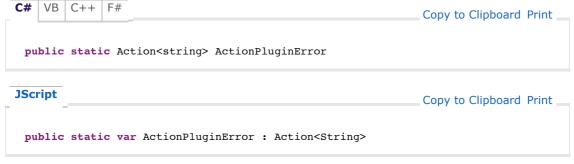
ZPAY iOS Barcode and QR Expert

PluginError Callback

Namespace: ZPAY

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

Syntax



Field Value

Type: Action < String >

See Also

iOSBarcodeHandler Class iOSBarcodeHandler Members ZPAY Namespace

$\textbf{iOSBarcodeHandler.ActionScanBarCode}^{iOS}_{Barcode}$ **Field**

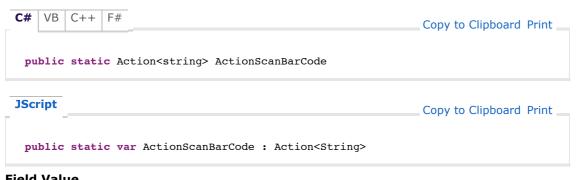
ZPAY and QR Expert

Scan Barcode Callback

Namespace: **ZPAY**

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

Syntax



Field Value

Type: Action < String >

See Also

iOSBarcodeHandler Class iOSBarcodeHandler Members **ZPAY Namespace**

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

iOSBarcodeHandler.OnPluginError ZPAY iOS Barcode and QR **Method**

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

errMsq

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**

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
)
```

```
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