



## CameraView control

*(Information and examples taken from the DroidScript documentation)*

### Description

Create a camera preview control using the **CreateCameraView** function of the **app** object:

```
cam = app.CreateCameraView( width, height, options );
```

This control allows your program to show a live feed of what is currently being seen by the phone/tablet's camera. If your device has a front facing camera and is at least version 2.3 of Android you can use the **"Front"** option to show the front camera's preview.

You will need to call the **StartPreview** function of the CameraView control to start the preview (Note: On some phones it is necessary to wait at least one second before calling the StartPreview function).

```
cam.StartPreview();
```

Use the **TakePicture** function to take a picture and save it to a given location.

```
cam.TakePicture( filename );
```

Use the **SetPictureSize** function to set the dimensions in pixels of the pictures taken (eg. 1024 x 768).

```
cam.SetPictureSize( width, height );
```

For more sophisticated examples including motion detection and video streaming, check out the '**Camera Stream**', '**Camera Snap**' and '**Camera Motion**' sample programs in the DroidScript samples section.

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### Methods

Some controls use the same methods.  
For examples of the [same methods](#) look here.

Method	Description
CameraView.AutoCapture( folder, fileName, maxCount )	
CameraView.Destroy()	
CameraView.FindFaces( max )	
CameraView.Focus()	
CameraView.GetAbsHeight()	
CameraView.GetAbsWidth()	
CameraView.GetCameraCount()	
CameraView.GetColorEffects()	use in SetOnReady
CameraView.GetHeight()	
CameraView.GetImageHeight()	
CameraView.GetImageWidth()	
CameraView.GetPictureSizes()	
CameraView.GetPixelData( format,left,top,width,height )	
CameraView.GetPosition()	
CameraView.GetType()	
CameraView.GetVisibility()	
CameraView.GetWidth()	
CameraView.MotionMosaic( xtiles, ytiles, sensitivity, minPeriod, imageObj )	
CameraView.Release()	
CameraView.ReportColors( list,callback,sampSize,maxRate )	
CameraView.SetBackColor( color )	
CameraView.SetBackGradient( color1,color2,color3,p4,p5,p6,p7 )	
CameraView.SetBackGradientRadial( x,y,r,color1,color2,color3,p7 )	
CameraView.SetBackground( imagefile,options )	
CameraView.SetColorEffect( effect )	use in SetOnReady
CameraView.SetFlash( onoff )	set to true or false
CameraView.SetFocusMode( mode )	
CameraView.SetMargins( left,top,right,bottom )	
CameraView.SetOnMotion( callback )	
CameraView.SetOnPicture( callback )	
CameraView.SetOnReady( callback )	
CameraView.SetPadding( left,top,right,bottom )	
CameraView.SetPictureSize( width,height )	Set size in pixel
CameraView.SetPosition( left, top, width, height )	
CameraView.SetPreviewImage( imageObj )	
CameraView.SetScale( x,y )	
CameraView.SetSize( width, height )	
CameraView.SetSound( onoff )	
CameraView.SetVisibility( HideShow )	

Method	Description
CameraView.StartPreview()	
CameraView.StopPreview()	
CameraView.Stream( ip,p2,quality,fps,p5 )	
CameraView.TakePicture( fileName )	

### Example - Show camera preview

```
function OnStart()
{
    lay = app.CreateLayout( "Linear", "VCenter,FillXY" );

    cam = app.CreateCameraView( 0.8, 0.4 );
    lay.AddChild( cam );
    setTimeout( "cam.StartPreview()", 1000 );

    app.AddLayout( lay );
}
```

### Example - Take pictures

```
function OnStart()
{
    lay = app.CreateLayout( "Linear", "VCenter,FillXY" );

    cam = app.CreateCameraView( 0.8, 0.4 );
    lay.AddChild( cam );
    cam.SetPictureSize( 1024, 768 );
    setTimeout( "cam.StartPreview()", 1000 );

    btn = app.CreateButton( "Snap", 0.3, -1 );
    btn.SetOnTouch( Snap );
    lay.AddChild( btn );

    app.AddLayout( lay );
}

function Snap()
{
    cam.TakePicture( "/sdcard/MyPic.jpg" );
    app.ShowPopup("Picture saved");
}
```