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* [Next Class](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.CvCameraViewFrame.html)
* [Frames](http://docs.google.com/index.html?org/opencv/android/CameraBridgeViewBase.html)
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org.opencv.android

## Class CameraBridgeViewBase

* java.lang.Object
  + android.view.View
    - android.view.SurfaceView
      * org.opencv.android.CameraBridgeViewBase
* All Implemented Interfaces: android.graphics.drawable.Drawable.Callback, android.view.accessibility.AccessibilityEventSource, android.view.KeyEvent.Callback, android.view.SurfaceHolder.Callback Direct Known Subclasses: [JavaCamera2View](http://docs.google.com/org/opencv/android/JavaCamera2View.html), [JavaCameraView](http://docs.google.com/org/opencv/android/JavaCameraView.html)  
    
  public abstract class CameraBridgeViewBase  
  extends android.view.SurfaceView  
  implements android.view.SurfaceHolder.Callback  
  This is a basic class, implementing the interaction with Camera and OpenCV library. The main responsibility of it - is to control when camera can be enabled, process the frame, call external listener to make any adjustments to the frame and then draw the resulting frame to the screen. The clients shall implement CvCameraViewListener.

### Nested Class SummaryNested Classes

| Modifier and Type | Class and Description |
| --- | --- |
| static interface | [**CameraBridgeViewBase.CvCameraViewFrame**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.CvCameraViewFrame.html) This class interface is abstract representation of single frame from camera for onCameraFrame callback Attention: Do not use objects, that represents this interface out of onCameraFrame callback! |
| static interface | [**CameraBridgeViewBase.CvCameraViewListener**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.CvCameraViewListener.html) |
| static interface | [**CameraBridgeViewBase.CvCameraViewListener2**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.CvCameraViewListener2.html) |
| static interface | [**CameraBridgeViewBase.ListItemAccessor**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.ListItemAccessor.html) |

### Nested classes/interfaces inherited from class android.view.Viewandroid.view.View.AccessibilityDelegate, android.view.View.BaseSavedState, android.view.View.DragShadowBuilder, android.view.View.MeasureSpec, android.view.View.OnAttachStateChangeListener, android.view.View.OnClickListener, android.view.View.OnCreateContextMenuListener, android.view.View.OnDragListener, android.view.View.OnFocusChangeListener, android.view.View.OnGenericMotionListener, android.view.View.OnHoverListener, android.view.View.OnKeyListener, android.view.View.OnLayoutChangeListener, android.view.View.OnLongClickListener, android.view.View.OnSystemUiVisibilityChangeListener, android.view.View.OnTouchListener

### Field SummaryFields

| Modifier and Type | Field and Description |
| --- | --- |
| static int | [**CAMERA\_ID\_ANY**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#CAMERA_ID_ANY) |
| static int | [**CAMERA\_ID\_BACK**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#CAMERA_ID_BACK) |
| static int | [**CAMERA\_ID\_FRONT**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#CAMERA_ID_FRONT) |
| static int | [**GRAY**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#GRAY) |
| static int | [**RGBA**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#RGBA) |

### Fields inherited from class android.view.ViewALPHA, DRAWING\_CACHE\_QUALITY\_AUTO, DRAWING\_CACHE\_QUALITY\_HIGH, DRAWING\_CACHE\_QUALITY\_LOW, FIND\_VIEWS\_WITH\_CONTENT\_DESCRIPTION, FIND\_VIEWS\_WITH\_TEXT, FOCUS\_BACKWARD, FOCUS\_DOWN, FOCUS\_FORWARD, FOCUS\_LEFT, FOCUS\_RIGHT, FOCUS\_UP, FOCUSABLES\_ALL, FOCUSABLES\_TOUCH\_MODE, GONE, HAPTIC\_FEEDBACK\_ENABLED, IMPORTANT\_FOR\_ACCESSIBILITY\_AUTO, IMPORTANT\_FOR\_ACCESSIBILITY\_NO, IMPORTANT\_FOR\_ACCESSIBILITY\_YES, INVISIBLE, KEEP\_SCREEN\_ON, LAYER\_TYPE\_HARDWARE, LAYER\_TYPE\_NONE, LAYER\_TYPE\_SOFTWARE, LAYOUT\_DIRECTION\_INHERIT, LAYOUT\_DIRECTION\_LOCALE, LAYOUT\_DIRECTION\_LTR, LAYOUT\_DIRECTION\_RTL, MEASURED\_HEIGHT\_STATE\_SHIFT, MEASURED\_SIZE\_MASK, MEASURED\_STATE\_MASK, MEASURED\_STATE\_TOO\_SMALL, NO\_ID, OVER\_SCROLL\_ALWAYS, OVER\_SCROLL\_IF\_CONTENT\_SCROLLS, OVER\_SCROLL\_NEVER, ROTATION, ROTATION\_X, ROTATION\_Y, SCALE\_X, SCALE\_Y, SCREEN\_STATE\_OFF, SCREEN\_STATE\_ON, SCROLLBAR\_POSITION\_DEFAULT, SCROLLBAR\_POSITION\_LEFT, SCROLLBAR\_POSITION\_RIGHT, SCROLLBARS\_INSIDE\_INSET, SCROLLBARS\_INSIDE\_OVERLAY, SCROLLBARS\_OUTSIDE\_INSET, SCROLLBARS\_OUTSIDE\_OVERLAY, SOUND\_EFFECTS\_ENABLED, STATUS\_BAR\_HIDDEN, STATUS\_BAR\_VISIBLE, SYSTEM\_UI\_FLAG\_FULLSCREEN, SYSTEM\_UI\_FLAG\_HIDE\_NAVIGATION, SYSTEM\_UI\_FLAG\_LAYOUT\_FULLSCREEN, SYSTEM\_UI\_FLAG\_LAYOUT\_HIDE\_NAVIGATION, SYSTEM\_UI\_FLAG\_LAYOUT\_STABLE, SYSTEM\_UI\_FLAG\_LOW\_PROFILE, SYSTEM\_UI\_FLAG\_VISIBLE, SYSTEM\_UI\_LAYOUT\_FLAGS, TEXT\_ALIGNMENT\_CENTER, TEXT\_ALIGNMENT\_GRAVITY, TEXT\_ALIGNMENT\_INHERIT, TEXT\_ALIGNMENT\_TEXT\_END, TEXT\_ALIGNMENT\_TEXT\_START, TEXT\_ALIGNMENT\_VIEW\_END, TEXT\_ALIGNMENT\_VIEW\_START, TEXT\_DIRECTION\_ANY\_RTL, TEXT\_DIRECTION\_FIRST\_STRONG, TEXT\_DIRECTION\_INHERIT, TEXT\_DIRECTION\_LOCALE, TEXT\_DIRECTION\_LTR, TEXT\_DIRECTION\_RTL, TRANSLATION\_X, TRANSLATION\_Y, VISIBLE, X, Y

### Constructor SummaryConstructors

| Constructor and Description |
| --- |
| [**CameraBridgeViewBase**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#CameraBridgeViewBase(android.content.Context,%20android.util.AttributeSet))(android.content.Context context, android.util.AttributeSet attrs) |
| [**CameraBridgeViewBase**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#CameraBridgeViewBase(android.content.Context,%20int))(android.content.Context context, int cameraId) |

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| void | [**disableFpsMeter**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#disableFpsMeter())() |
| void | [**disableView**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#disableView())() This method is provided for clients, so they can disable camera connection and stop the delivery of frames even though the surface view itself is not destroyed and still stays on the screen |
| void | [**enableFpsMeter**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#enableFpsMeter())() This method enables label with fps value on the screen |
| void | [**enableView**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#enableView())() This method is provided for clients, so they can enable the camera connection. |
| void | [**setCameraIndex**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#setCameraIndex(int))(int cameraIndex) Sets the camera index |
| void | [**SetCaptureFormat**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#SetCaptureFormat(int))(int format) |
| void | [**setCvCameraViewListener**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#setCvCameraViewListener(org.opencv.android.CameraBridgeViewBase.CvCameraViewListener))([CameraBridgeViewBase.CvCameraViewListener](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.CvCameraViewListener.html) listener) |
| void | [**setCvCameraViewListener**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#setCvCameraViewListener(org.opencv.android.CameraBridgeViewBase.CvCameraViewListener2))([CameraBridgeViewBase.CvCameraViewListener2](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.CvCameraViewListener2.html) listener) |
| void | [**setMaxFrameSize**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#setMaxFrameSize(int,%20int))(int maxWidth, int maxHeight) This method sets the maximum size that camera frame is allowed to be. |
| void | [**surfaceChanged**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#surfaceChanged(android.view.SurfaceHolder,%20int,%20int,%20int))(android.view.SurfaceHolder arg0, int arg1, int arg2, int arg3) |
| void | [**surfaceCreated**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#surfaceCreated(android.view.SurfaceHolder))(android.view.SurfaceHolder holder) |
| void | [**surfaceDestroyed**](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.html#surfaceDestroyed(android.view.SurfaceHolder))(android.view.SurfaceHolder holder) |

### Methods inherited from class android.view.SurfaceViewdraw, gatherTransparentRegion, getHolder, setSecure, setVisibility, setZOrderMediaOverlay, setZOrderOnTop

### Methods inherited from class android.view.ViewaddChildrenForAccessibility, addFocusables, addFocusables, addOnAttachStateChangeListener, addOnLayoutChangeListener, addTouchables, animate, announceForAccessibility, bringToFront, buildDrawingCache, buildDrawingCache, buildLayer, callOnClick, cancelLongPress, canScrollHorizontally, canScrollVertically, checkInputConnectionProxy, clearAnimation, clearFocus, combineMeasuredStates, computeScroll, createAccessibilityNodeInfo, createContextMenu, destroyDrawingCache, dispatchConfigurationChanged, dispatchDisplayHint, dispatchDragEvent, dispatchGenericMotionEvent, dispatchKeyEvent, dispatchKeyEventPreIme, dispatchKeyShortcutEvent, dispatchPopulateAccessibilityEvent, dispatchSystemUiVisibilityChanged, dispatchTouchEvent, dispatchTrackballEvent, dispatchUnhandledMove, dispatchWindowFocusChanged, dispatchWindowSystemUiVisiblityChanged, dispatchWindowVisibilityChanged, findFocus, findViewById, findViewsWithText, findViewWithTag, focusSearch, forceLayout, generateViewId, getAccessibilityNodeProvider, getAlpha, getAnimation, getApplicationWindowToken, getBackground, getBaseline, getBottom, getCameraDistance, getClipBounds, getContentDescription, getContext, getDefaultSize, getDisplay, getDrawableState, getDrawingCache, getDrawingCache, getDrawingCacheBackgroundColor, getDrawingCacheQuality, getDrawingRect, getDrawingTime, getFilterTouchesWhenObscured, getFitsSystemWindows, getFocusables, getFocusedRect, getGlobalVisibleRect, getGlobalVisibleRect, getHandler, getHeight, getHitRect, getHorizontalFadingEdgeLength, getId, getImportantForAccessibility, getKeepScreenOn, getKeyDispatcherState, getLabelFor, getLayerType, getLayoutDirection, getLayoutParams, getLeft, getLocalVisibleRect, getLocationInWindow, getLocationOnScreen, getMatrix, getMeasuredHeight, getMeasuredHeightAndState, getMeasuredState, getMeasuredWidth, getMeasuredWidthAndState, getMinimumHeight, getMinimumWidth, getNextFocusDownId, getNextFocusForwardId, getNextFocusLeftId, getNextFocusRightId, getNextFocusUpId, getOnFocusChangeListener, getOverlay, getOverScrollMode, getPaddingBottom, getPaddingEnd, getPaddingLeft, getPaddingRight, getPaddingStart, getPaddingTop, getParent, getParentForAccessibility, getPivotX, getPivotY, getResources, getRight, getRootView, getRotation, getRotationX, getRotationY, getScaleX, getScaleY, getScrollBarDefaultDelayBeforeFade, getScrollBarFadeDuration, getScrollBarSize, getScrollBarStyle, getScrollX, getScrollY, getSolidColor, getSystemUiVisibility, getTag, getTag, getTextAlignment, getTextDirection, getTop, getTouchables, getTouchDelegate, getTranslationX, getTranslationY, getVerticalFadingEdgeLength, getVerticalScrollbarPosition, getVerticalScrollbarWidth, getViewTreeObserver, getVisibility, getWidth, getWindowId, getWindowSystemUiVisibility, getWindowToken, getWindowVisibility, getWindowVisibleDisplayFrame, getX, getY, hasFocus, hasFocusable, hasOnClickListeners, hasOverlappingRendering, hasTransientState, hasWindowFocus, inflate, invalidate, invalidate, invalidate, invalidateDrawable, isActivated, isClickable, isDirty, isDrawingCacheEnabled, isDuplicateParentStateEnabled, isEnabled, isFocusable, isFocusableInTouchMode, isFocused, isHapticFeedbackEnabled, isHardwareAccelerated, isHorizontalFadingEdgeEnabled, isHorizontalScrollBarEnabled, isHovered, isInEditMode, isInLayout, isInTouchMode, isLayoutRequested, isLongClickable, isOpaque, isPaddingRelative, isPressed, isSaveEnabled, isSaveFromParentEnabled, isScrollbarFadingEnabled, isScrollContainer, isSelected, isShown, isSoundEffectsEnabled, isVerticalFadingEdgeEnabled, isVerticalScrollBarEnabled, jumpDrawablesToCurrentState, layout, measure, offsetLeftAndRight, offsetTopAndBottom, onCheckIsTextEditor, onCreateInputConnection, onDragEvent, onFilterTouchEventForSecurity, onFinishTemporaryDetach, onGenericMotionEvent, onHoverChanged, onHoverEvent, onInitializeAccessibilityEvent, onInitializeAccessibilityNodeInfo, onKeyDown, onKeyLongPress, onKeyMultiple, onKeyPreIme, onKeyShortcut, onKeyUp, onPopulateAccessibilityEvent, onRtlPropertiesChanged, onScreenStateChanged, onStartTemporaryDetach, onTouchEvent, onTrackballEvent, onWindowFocusChanged, onWindowSystemUiVisibilityChanged, performAccessibilityAction, performClick, performHapticFeedback, performHapticFeedback, performLongClick, playSoundEffect, post, postDelayed, postInvalidate, postInvalidate, postInvalidateDelayed, postInvalidateDelayed, postInvalidateOnAnimation, postInvalidateOnAnimation, postOnAnimation, postOnAnimationDelayed, refreshDrawableState, removeCallbacks, removeOnAttachStateChangeListener, removeOnLayoutChangeListener, requestFitSystemWindows, requestFocus, requestFocus, requestFocus, requestFocusFromTouch, requestLayout, requestRectangleOnScreen, requestRectangleOnScreen, resolveSize, resolveSizeAndState, restoreHierarchyState, saveHierarchyState, scheduleDrawable, scrollBy, scrollTo, sendAccessibilityEvent, sendAccessibilityEventUnchecked, setAccessibilityDelegate, setActivated, setAlpha, setAnimation, setBackground, setBackgroundColor, setBackgroundDrawable, setBackgroundResource, setBottom, setCameraDistance, setClickable, setClipBounds, setContentDescription, setDrawingCacheBackgroundColor, setDrawingCacheEnabled, setDrawingCacheQuality, setDuplicateParentStateEnabled, setEnabled, setFadingEdgeLength, setFilterTouchesWhenObscured, setFitsSystemWindows, setFocusable, setFocusableInTouchMode, setHapticFeedbackEnabled, setHasTransientState, setHorizontalFadingEdgeEnabled, setHorizontalScrollBarEnabled, setHovered, setId, setImportantForAccessibility, setKeepScreenOn, setLabelFor, setLayerPaint, setLayerType, setLayoutDirection, setLayoutParams, setLeft, setLongClickable, setMinimumHeight, setMinimumWidth, setNextFocusDownId, setNextFocusForwardId, setNextFocusLeftId, setNextFocusRightId, setNextFocusUpId, setOnClickListener, setOnCreateContextMenuListener, setOnDragListener, setOnFocusChangeListener, setOnGenericMotionListener, setOnHoverListener, setOnKeyListener, setOnLongClickListener, setOnSystemUiVisibilityChangeListener, setOnTouchListener, setOverScrollMode, setPadding, setPaddingRelative, setPivotX, setPivotY, setPressed, setRight, setRotation, setRotationX, setRotationY, setSaveEnabled, setSaveFromParentEnabled, setScaleX, setScaleY, setScrollBarDefaultDelayBeforeFade, setScrollBarFadeDuration, setScrollbarFadingEnabled, setScrollBarSize, setScrollBarStyle, setScrollContainer, setScrollX, setScrollY, setSelected, setSoundEffectsEnabled, setSystemUiVisibility, setTag, setTag, setTextAlignment, setTextDirection, setTop, setTouchDelegate, setTranslationX, setTranslationY, setVerticalFadingEdgeEnabled, setVerticalScrollBarEnabled, setVerticalScrollbarPosition, setWillNotCacheDrawing, setWillNotDraw, setX, setY, showContextMenu, startActionMode, startAnimation, startDrag, toString, unscheduleDrawable, unscheduleDrawable, willNotCacheDrawing, willNotDraw

### Methods inherited from class java.lang.Objectequals, getClass, hashCode, notify, notifyAll, wait, wait, wait

### Field Detail

#### CAMERA\_ID\_ANY public static final int CAMERA\_ID\_ANYSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.android.CameraBridgeViewBase.CAMERA_ID_ANY)

#### CAMERA\_ID\_BACK public static final int CAMERA\_ID\_BACKSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.android.CameraBridgeViewBase.CAMERA_ID_BACK)

#### CAMERA\_ID\_FRONT public static final int CAMERA\_ID\_FRONTSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.android.CameraBridgeViewBase.CAMERA_ID_FRONT)

#### GRAY public static final int GRAYSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.android.CameraBridgeViewBase.GRAY)

#### RGBA public static final int RGBASee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.android.CameraBridgeViewBase.RGBA)

### Constructor Detail

#### CameraBridgeViewBase public CameraBridgeViewBase(android.content.Context context, android.util.AttributeSet attrs)

#### CameraBridgeViewBase public CameraBridgeViewBase(android.content.Context context, int cameraId)

### Method Detail

#### disableFpsMeter public void disableFpsMeter()

#### disableView public void disableView() This method is provided for clients, so they can disable camera connection and stop the delivery of frames even though the surface view itself is not destroyed and still stays on the screen

#### enableFpsMeter public void enableFpsMeter() This method enables label with fps value on the screen

#### enableView public void enableView() This method is provided for clients, so they can enable the camera connection. The actual onCameraViewStarted callback will be delivered only after both this method is called and surface is available

#### setCameraIndex public void setCameraIndex(int cameraIndex) Sets the camera indexParameters:cameraIndex - new camera index

#### SetCaptureFormat public void SetCaptureFormat(int format)

#### setCvCameraViewListener public void setCvCameraViewListener([CameraBridgeViewBase.CvCameraViewListener](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.CvCameraViewListener.html) listener)

#### setCvCameraViewListener public void setCvCameraViewListener([CameraBridgeViewBase.CvCameraViewListener2](http://docs.google.com/org/opencv/android/CameraBridgeViewBase.CvCameraViewListener2.html) listener)Parameters:listener -

#### setMaxFrameSize public void setMaxFrameSize(int maxWidth, int maxHeight) This method sets the maximum size that camera frame is allowed to be. When selecting size - the biggest size which less or equal the size set will be selected. As an example - we set setMaxFrameSize(200,200) and we have 176x152 and 320x240 sizes. The preview frame will be selected with 176x152 size. This method is useful when need to restrict the size of preview frame for some reason (for example for video recording)Parameters:maxWidth - - the maximum width allowed for camera frame.maxHeight - - the maximum height allowed for camera frame

#### surfaceChanged public void surfaceChanged(android.view.SurfaceHolder arg0, int arg1, int arg2, int arg3)**Specified by:** surfaceChanged in interface android.view.SurfaceHolder.Callback

#### surfaceCreated public void surfaceCreated(android.view.SurfaceHolder holder)**Specified by:** surfaceCreated in interface android.view.SurfaceHolder.Callback

#### surfaceDestroyed public void surfaceDestroyed(android.view.SurfaceHolder holder)**Specified by:** surfaceDestroyed in interface android.view.SurfaceHolder.Callback

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