

com._604robotics.robot2012.vision

Class VisionDisp

java.lang.Object
 java.awt.Component
 java.awt.Container
 javax.swing.JComponent
 javax.swing.JPanel
 com._604robotics.robot2012.vision.VisionDisp

All Implemented Interfaces:

java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable, javax.accessibility.Accessible

```
public class VisionDisp
extends javax.swing.JPanel
```

This class is used to display a camera image and some debug information along with it.

See Also:

[Serialized Form](#)

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JPanel

javax.swing.JPanel.AccessibleJPanel

Nested classes/interfaces inherited from class javax.swing.JComponent

javax.swing.JComponent.AccessibleJComponent

Nested classes/interfaces inherited from class java.awt.Container

java.awt.Container.AccessibleAWTContainer

Nested classes/interfaces inherited from class java.awt.Component

java.awt.Component.AccessibleAWTComponent, java.awt.Component.BaselineResizeBehavior, java.awt.Component.BltBufferStrategy, java.awt.Component.FlipBufferStrategy

Field Summary

Fields

Modifier and Type	Field and Description
java.awt.image.BufferedImage	image The background image, as received from the camera

Fields inherited from class javax.swing.JComponent

accessibleContext, listenerList, TOOL_TIP_TEXT_KEY, ui, UNDEFINED_CONDITION, WHEN_ANCESTOR_OF_FOCUSED_COMPONENT, WHEN_FOCUSED, WHEN_IN_FOCUSED_WINDOW

Fields inherited from class java.awt.Component

BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT

Fields inherited from interface java.awt.image.ImageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH

Constructor Summary

Constructors

Constructor and Description

[VisionDisp\(\)](#)

A default constructor that sets this up as a 640x480 display

Method Summary

Methods

Modifier and Type	Method and Description
void	paint (java.awt.Graphics g) Paints this VisionDisp.

Methods inherited from class javax.swing.JPanel

[getAccessibleContext](#), [getUI](#), [getUIClassID](#), [paramString](#), [setUI](#), [updateUI](#)

Methods inherited from class javax.swing.JComponent

[addAncestorListener](#), [addNotify](#), [addVetoableChangeListener](#), [computeVisibleRect](#), [contains](#), [createToolTip](#), [disable](#), [enable](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [fireVetoableChange](#), [getActionForKeyStroke](#), [getActionMap](#), [getAlignmentX](#), [getAlignmentY](#), [getAncestorListeners](#), [getAutoscrolls](#), [getBaseline](#), [getBaselineResizeBehavior](#), [getBorder](#), [getBounds](#), [getClientProperty](#), [getComponentGraphics](#), [getComponentPopupMenu](#), [getConditionForKeyStroke](#), [getDebugGraphicsOptions](#), [getDefaultLocale](#), [getFontMetrics](#), [getGraphics](#), [getHeight](#), [getInheritsPopupMenu](#), [getInputMap](#), [getInputMap](#), [getInputVerifier](#), [getInsets](#), [getInsets](#), [getListeners](#), [getLocation](#), [getMaximumSize](#), [getMinimumSize](#), [getNextFocusableComponent](#), [getPopupLocation](#), [getPreferredSize](#), [getRegisteredKeyStrokes](#), [getRootPane](#), [getSize](#), [getToolTipLocation](#), [getToolTipText](#), [getToolTipText](#), [getTopLevelAncestor](#), [getTransferHandler](#), [getVerifyInputWhenFocusTarget](#), [getVetoableChangeListeners](#), [getVisibleRect](#), [getWidth](#), [getX](#), [getY](#), [grabFocus](#), [isDoubleBuffered](#), [isLightweightComponent](#), [isManagingFocus](#), [isOpaque](#), [isOptimizedDrawingEnabled](#), [isPaintingForPrint](#), [isPaintingOrigin](#), [isPaintingTile](#), [isRequestFocusEnabled](#), [isValidateRoot](#), [paintBorder](#), [paintChildren](#), [paintComponent](#), [paintImmediately](#), [paintImmediately](#), [print](#), [printAll](#), [printBorder](#), [printChildren](#), [printComponent](#), [processComponentKeyEvent](#), [processKeyBinding](#), [processKeyEvent](#), [processMouseEvent](#), [processMouseMotionEvent](#), [putClientProperty](#), [registerKeyboardAction](#), [registerKeyboardAction](#), [removeAncestorListener](#), [removeNotify](#), [removeVetoableChangeListener](#), [repaint](#), [repaint](#), [requestDefaultFocus](#), [requestFocus](#), [requestFocus](#), [requestFocusInWindow](#), [requestFocusInWindow](#), [resetKeyboardActions](#), [reshape](#), [revalidate](#), [scrollRectToVisible](#), [setActionMap](#), [setAlignmentX](#), [setAlignmentY](#), [setAutoscrolls](#), [setBackground](#), [setBorder](#), [setComponentPopupMenu](#), [setDebugGraphicsOptions](#), [setDefaultLocale](#), [setDoubleBuffered](#), [setEnabled](#), [setFocusTraversalKeys](#), [setFont](#), [setForeground](#), [setInheritsPopupMenu](#), [setInputMap](#), [setInputVerifier](#), [setMaximumSize](#), [setMinimumSize](#), [setNextFocusableComponent](#), [setOpaque](#), [setPreferredSize](#), [setRequestFocusEnabled](#), [setToolTipText](#), [setTransferHandler](#), [setUI](#), [setVerifyInputWhenFocusTarget](#), [setVisible](#), [unregisterKeyboardAction](#), [update](#)

Methods inherited from class java.awt.Container

[add](#), [add](#), [add](#), [add](#), [add](#), [addContainerListener](#), [addImpl](#), [addPropertyChangeListener](#), [addPropertyChangeListener](#), [applyComponentOrientation](#), [areFocusTraversalKeysSet](#), [countComponents](#), [deliverEvent](#), [doLayout](#), [findComponentAt](#), [findComponentAt](#), [getComponent](#), [getComponentAt](#), [getComponentAt](#), [getComponentAt](#), [getComponentCount](#), [getComponents](#), [getComponentZOrder](#), [getContainerListeners](#), [getFocusTraversalKeys](#), [getFocusTraversalPolicy](#), [getLayout](#), [getMousePosition](#), [insets](#), [invalidate](#), [isAncestorOf](#), [isFocusCycleRoot](#), [isFocusCycleRoot](#), [isFocusCycleRoot](#), [isFocusTraversalPolicyProvider](#), [isFocusTraversalPolicySet](#), [layout](#), [list](#), [list](#), [locate](#), [minimumSize](#), [paintComponents](#), [preferredSize](#), [printComponents](#), [processContainerEvent](#), [processEvent](#), [remove](#), [remove](#), [removeAll](#), [removeContainerListener](#), [setComponentZOrder](#), [setFocusCycleRoot](#), [setFocusTraversalPolicy](#), [setFocusTraversalPolicyProvider](#), [setLayout](#), [transferFocusDownCycle](#), [validate](#), [validateTree](#)

Methods inherited from class java.awt.Component

[action](#), [add](#), [addComponentListener](#), [addFocusListener](#), [addHierarchyBoundsListener](#), [addHierarchyListener](#), [addInputMethodListener](#), [addKeyListener](#), [addMouseListener](#), [addMouseMotionListener](#), [addMouseWheelListener](#), [bounds](#), [checkImage](#), [checkImage](#), [coalesceEvents](#), [contains](#), [createImage](#), [createImage](#), [createVolatileImage](#), [createVolatileImage](#), [disableEvents](#), [dispatchEvent](#), [enable](#), [enableEvents](#), [enableInputMethods](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getBackground](#), [getBounds](#), [getColorModel](#), [getComponentListeners](#), [getComponentOrientation](#), [getCursor](#), [getDropTarget](#), [getFocusCycleRootAncestor](#), [getFocusListeners](#), [getFocusTraversalKeysEnabled](#), [getFont](#), [getForeground](#), [getGraphicsConfiguration](#), [getHierarchyBoundsListeners](#), [getHierarchyListeners](#), [getIgnoreRepaint](#), [getInputContext](#), [getInputMethodListeners](#), [getInputMethodRequests](#), [getKeyListeners](#), [getLocale](#), [getLocation](#), [getLocationOnScreen](#), [getMouseListener](#), [getMouseMotionListeners](#), [getMousePosition](#), [getMouseWheelListeners](#), [getName](#), [getParent](#), [getPeer](#), [getPropertyChangeListeners](#), [getPropertyChangeListeners](#), [getSize](#), [getToolkit](#), [getTreeLock](#), [gotFocus](#), [handleEvent](#), [hasFocus](#), [hide](#), [imageUpdate](#), [inside](#), [isBackgroundSet](#), [isCursorSet](#), [isDisplayable](#), [isEnabled](#), [isFocusable](#), [isFocusOwner](#), [isFocusTraversable](#), [isFontSet](#), [isForegroundSet](#), [isLightweight](#), [isMaximumSizeSet](#), [isMinimumSizeSet](#), [isPreferredSizeSet](#), [isShowing](#), [isValid](#), [isVisible](#), [keyDown](#), [keyUp](#), [list](#), [list](#), [list](#), [location](#), [lostFocus](#), [mouseDown](#), [mouseDrag](#), [mouseEnter](#), [mouseExit](#), [mouseMove](#), [mouseUp](#), [move](#), [nextFocus](#), [paintAll](#), [postEvent](#), [prepareImage](#), [prepareImage](#), [processComponentEvent](#), [processFocusEvent](#), [processHierarchyBoundsEvent](#), [processHierarchyEvent](#), [processInputMethodEvent](#), [processMouseWheelEvent](#), [remove](#), [removeComponentListener](#), [removeFocusListener](#), [removeHierarchyBoundsListener](#), [removeHierarchyListener](#), [removeInputMethodListener](#), [removeKeyListener](#), [removeMouseListener](#), [removeMouseMotionListener](#), [removeMouseWheelListener](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [repaint](#), [repaint](#), [repaint](#), [resize](#), [resize](#), [setBounds](#), [setBounds](#), [setComponentOrientation](#), [setCursor](#), [setDropTarget](#), [setFocusable](#), [setFocusTraversalKeysEnabled](#), [setIgnoreRepaint](#), [setLocale](#), [setLocation](#), [setLocation](#), [setName](#), [setSize](#), [setSize](#), [show](#), [show](#), [size](#), [toString](#), [transferFocus](#), [transferFocusBackward](#), [transferFocusUpCycle](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `wait`, `wait`, `wait`

Field Detail

image

```
public java.awt.image.BufferedImage image
```

The background image, as received from the camera

Constructor Detail

VisionDisp

```
public VisionDisp()
```

A default constructor that sets this up as a 640x480 display

Method Detail

paint

```
public void paint(java.awt.Graphics g)
```

Paints this `VisionDisp`.

If available, this draws the camera image, resulting tiled red-and-green "isTarget" image, target corners, and target sides

Overrides:

`paint` in class `javax.swing.JComponent`

See Also:

`JComponent.paint(java.awt.Graphics)`

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