MainWindow + ui: Ui MainWindow + gui_images_path: str + ros thread: RosThread + connect gui buttons() + send command(command) + run() + clear system logs box() + update filter() + update data to record() + display info(info) + display image feed(cv image) + bridge: CvBridge Ui MainWindow +setupUi(MainWindow) +retranslateUi(MainWindow)

RosThread

- + update_gui_signal: pyqtSignal
- + image signal: pyqtSignal + publish signal: pyqtSignal
- + ros node: GuiRosNode



GuiRosNode

- + update qui signal: pygtSignal
- + image signal: pyqtSignal
- + update qui sub:
- rospy.Subscriber
- + image sub: rospy.Subscriber
- + update gui callback(msg)
- + image callback(ros image)
- + publish message(msg)