

## Fast transfer Objects

### 0.) Both sensor Quality

- 1.) Lidar Angle (" if no object, multiple objects)
- 2.) Lidar distance (" "
- 3.) Lidar X (" ")
- 4.) Lidar Y (" ")
- 5.) Lidar Qual (" ")

- 0 - Neither
- 1 - wii can see
- 2 - Lidar can see
- 3 - both can see
- 4 - Lidar sees Multiple objects, wii sees none
- 5 - Lidar sees Multiple Obj, wii sees different Obj.

### 6.) Wii Camera Qual

- 7.) Wii  $\odot$  angle (always reflects wii angle)
- 8.) Wii  $\perp$  angle (" ")
- 9.) Wii X
- 10.) Wii Y
- 11.) Averaged X (" if both don't agree)
- 12.) Averaged Y (" ")

- 0, cant see
- 1, Left camera sees 1
- 2, Right camera sees 1
- 3, Left camera sees 2
- 4, Right camera sees 2
- 5, Left sees 1, Right sees other
- 6, Both see 1
- 7, Both see 2



$(-1890, 7380)$

$(1890, 7380)$  In degrees or MM

0. Lidar Angle
1. Lidar Distance
2. Lidar X
3. Lidar Y
4. Lidar Quality
5. Wrt 0 angle
6. Wrt 1 angle
7. Wrt X
8. Wrt Y

Max Range  
5.1m

5.04m

4.44m

1.5m

$$r = \frac{1890}{\cos(\theta)}$$

if  $r \cdot \cos(\theta) =$

if

$$r = \frac{1890}{\cos(\theta)}$$

$(-1890, 0)$

Wrt

Robot

Wrt 1 angle

Wrt 0 angle

Lidar Angle

Lidar + Wrt

$(1890, 0)$

0.7875m

1.575m

if  $r \cdot \cos(\theta) < -2677.5$

bad

if  $r \cdot \cos(\theta) > 1102.5$

take inner  
w/ fixed pt limits