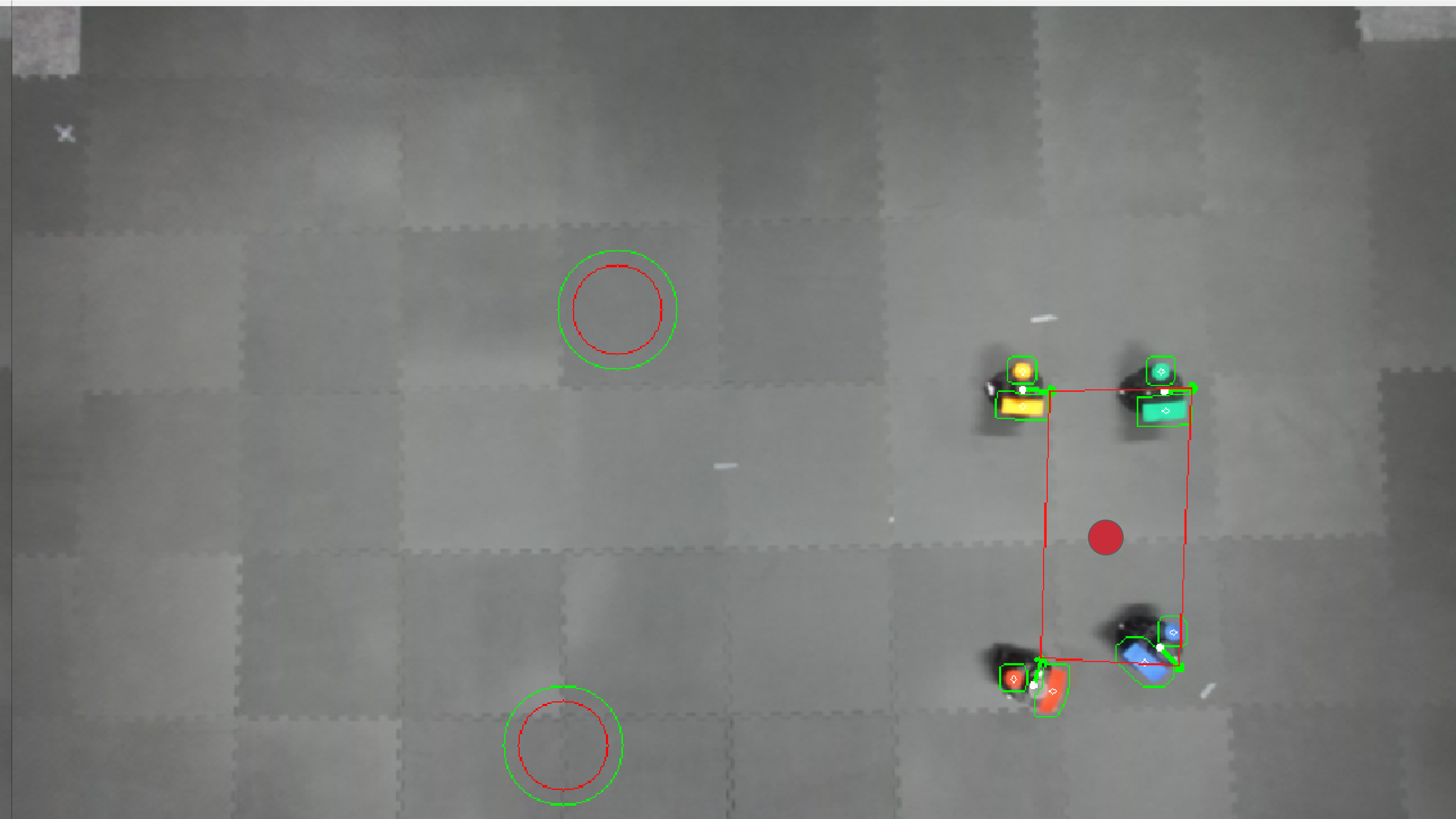


(i)  $t = 95\text{s}$



(j)  $t = 120\text{ s}$