

## Evr@ platform

### Perception : Vision System

#### DLP Projector :

DLP projectors enable visualisation even in standard environment light



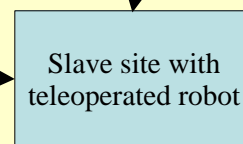
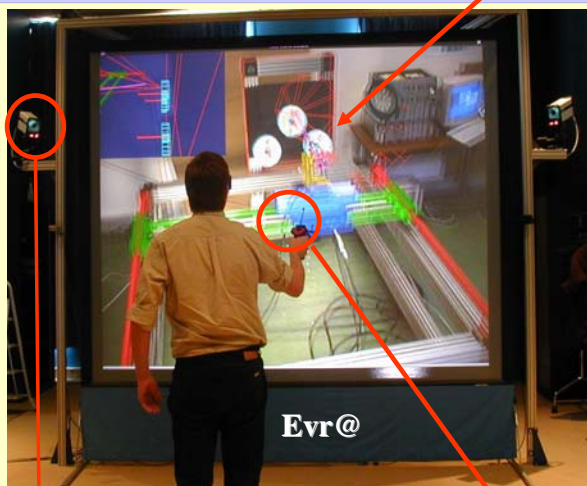
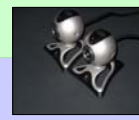
#### Wide screen :

A wide screen of 3,20mx2,40m enable perfect operator immersion into the Augmented Reality application.



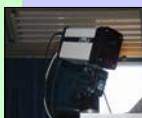
#### Cameras / Webcams :

- Cameras connected on Meteor2 acquisition card
- Webcams connected on USB port



#### IR Cameras :

IR cameras producing periodic flashes and locating reflecting target on the images



#### Flystick and markers

Group of IR reflecting targets positioned in 6 dimensions



#### ARITI System :

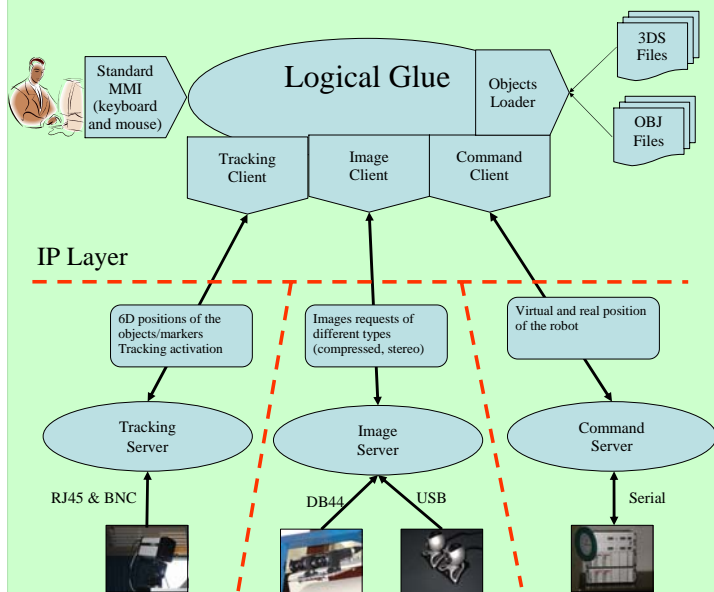
Teleoperated 4 degree of freedom robot, controlled through a serial port.



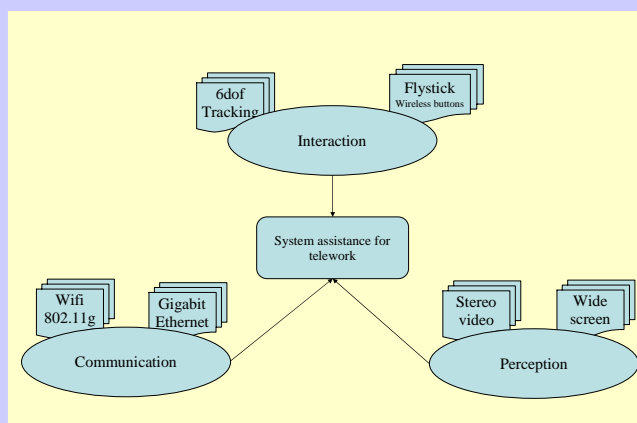
### Interaction : Tracking System

### Action : Robot

## Software Architecture



## The new ways of perception and interaction



#### A new AR platform to do :

- More accurate : Precise 6 degree of freedom Tracking
- Faster : Gigabit Network
- Safer : Video stereoscopic immersion, virtual fixtures