



MIXED REALITY INTERFACE



a tangible experience.

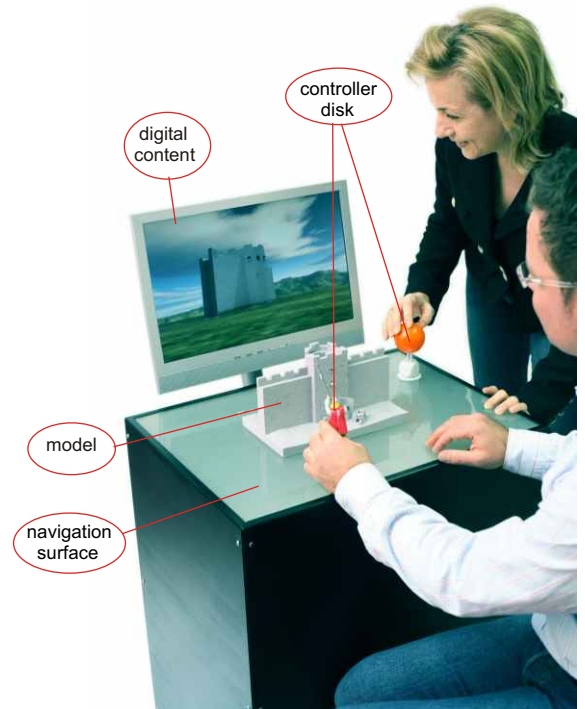
The MRI

The MRI is an optical interface that works with up to 15 different controllers. These controllers are simple labels which can be attached to any objects you like.

That way physical objects, like, for example, models, figures, blocks, etc. are linked with digital content.

The user moves a control agent in the model. Positioning and rotating the agent determine and change the point of view in the computer application. The design of the control agent is various, not bound to any technical requirements and could also be a toy figure, for example.

Each control agent is assigned to a different function. Users can work with several agents at the same time on a scene.



E-Learning/Infotainment



Visualization



Presentation



Simulation

The MRI Base Set consists of

- MRI Tracer
- Navigation surface
- Software package:
 - „MRI Adjust 1.0“ Win 32
 - VRML viewer
 - Mouse function
- MRI API: Windows - Static library for Visual Studio.net 2003, Borland Delphi Component
Linux: Static ELF library
- Controller: metal disks, labels
- Manuals, calibration patterns, cables

Optional

Case in anodised aluminum.

- Size 450mm x 600mm, height 800 mm
- Size 600mm x 800mm, height 800 mm

Monitor arm

Special sizes and shapes are available upon request.

Interfaces:

Application interface (Channel) for Quest 3D
OSC (OpenSoundControl) output

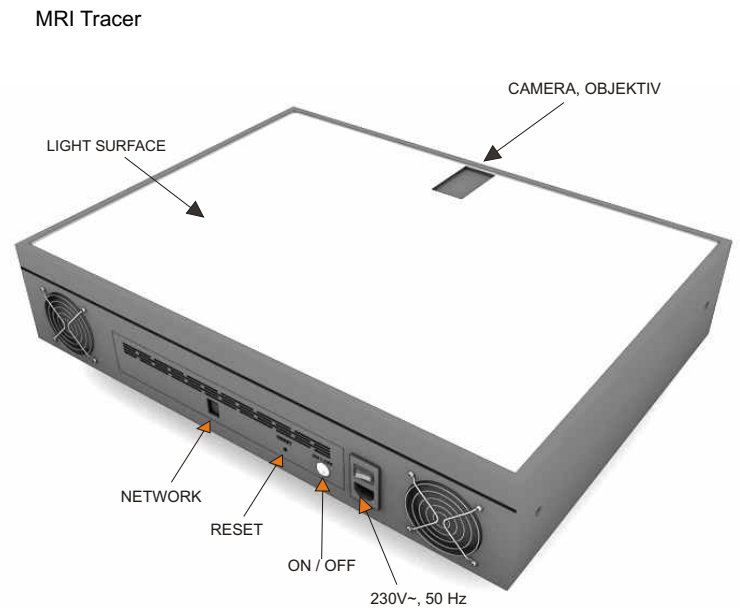
Application interface for 3D Gamestudio

Application interfaces for other applications are under development. Get the latest information at www.kommerz.at.

New designs and products:

Develop new ideas and designs based on the MRI.

The MRI is designed to integrate seamlessly into existing systems, furniture and assemblies.



MRI Tracer in aluminum case

Multiuser

Up to 15 different real-world objects can be used for controlling virtual objects or functions.

Higher numbers of control objects upon request.



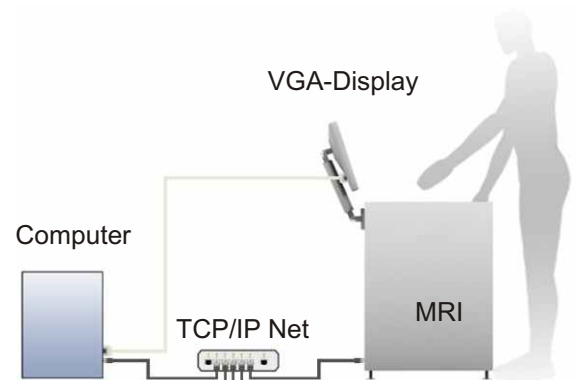
Network

Up to 15 MRI-stations can be connected via a computer network (LAN, WAN or Internet).

System Requirements

MRI-devices can be connected with a graphic computer workstation or other MRIs via TCP/IP network.

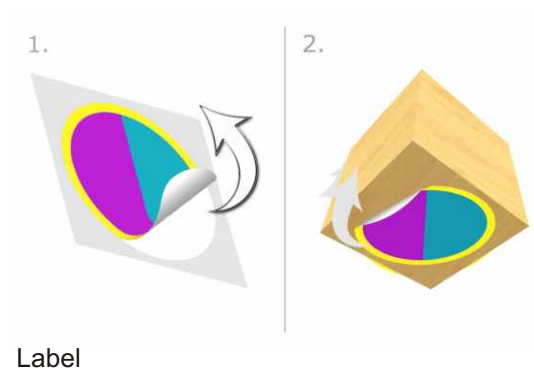
The MRI requires a free, static IP adress.



Accuracy/Resolution

Rotation: around z-axis: accuracy less than 1 degree (by combining two labels the accuracy of measurement can be increased up to 0,1 degrees)

Plane: x, y axis: <0,5 mm



Label

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