



concepts

- 1 HUMAN -CENTERED COMPUTING→
Natural language interface
- 2 CULTURAL HERITAGE TECHNOLOGY→
Time Gate effect,
Trompe L'Œil effect
- 3 HIGH RESOLUTION→
Up to 8K Vertical Resolution.
- 4 INDOOR/OUTDOOR TECHNOLOGY→
HDR Visual Output
Vandal Resistant,
Waterproof,
Dustproof

HI[®] - the Human Interface of the future

The innovative patented method Hi@Human Interface makes it possible to see interactive storytellers-characters on flat devices with customizable dimensions.

Thanks to its connection with the patented platform OLOS[®], it represents a very natural mode of interaction between man and machine: a multilingual interface with anthropomorphic characteristics and artificial intelligence that reproduces perfectly facial expressions. It is the efficient combination of human creativity, state of the art technology and digital cinematography that allows interaction with the user.

HI[®] takes advantage of virtual transparency -which allows seeing everything going on beyond the device- and is able to reproduce both real and virtual environments.

HDR technology guarantees also a perfect visual perception outdoors due to its ability to adjust to various levels of light. HI[®] can provide itself with specific protective measures in order to avoid damage caused by man or atmospheric and environmental agents.

The green mode guarantees the respect for the environment and its system is powered by photovoltaic energy, which makes the use of cables unnecessary.

REAL LANDSCAPE

PERIMETRIC SCENOGRAPHY

VIRTUAL BACKGROUND:
3D HISTORICAL RECONSTRUCTION
BASED ON THE EXACT PERSPECTIVE
OF REAL LANDSCAPEINTERACTIVE
STORYTELLER
CHARACTER

HI® Time Gate gives us the chance to travel through time by recreating scenarios (virtual background) and characters from the past (interactive storytelling), which are offered to your view

Suppose we are in an archeological site: HI® Time Gate makes it possible to visualise the history of the area through both historical and architectural 3D reconstructions made in collaboration with Research Organisations and Universities. Starting from the virtual transparency –which shows the place as it is today–, the system performs a perfect perspective overlap on current reality.

Interactive storytelling fits perfectly into this new setting: it is entrusted to a multilingual historical figure, a Genius loci who is able to communicate in different languages and to whom questions can be asked via simple devices (smartphones, touchscreens, audio guides). What is more, we can live this unique and immersive experience without the hindrance of limiting filters that affect our senses (helmets, visors, etc.).

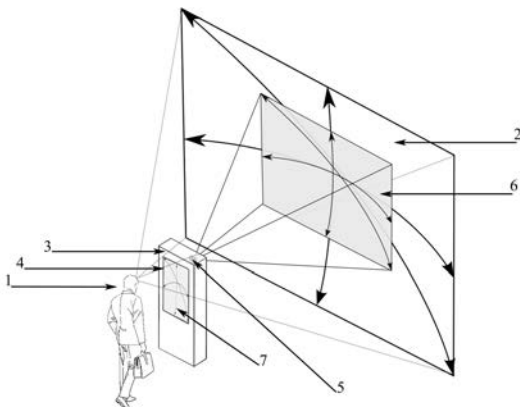


HI[®] Trompe l'Œil opens up new visual horizons, «widens» visually enclosed environments and offers a new concept of space by trespassing it

HI[®] Human Interface transposes the concept of trompe l'œil to the world of ultra high-definition and to the latest IT infrastructure: the reproduction of reality and the utmost emphasis on the sense of depth create the illusion that we are not observing a painting, but a real-world element.

Both historical or

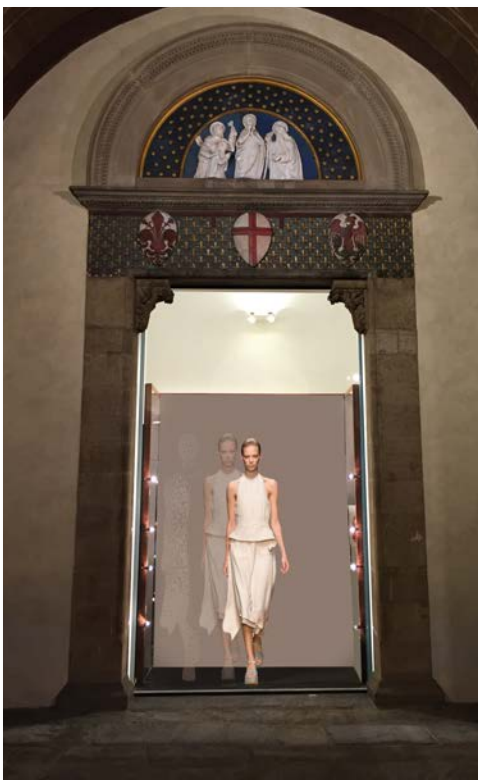
fantasy virtual landscape are reconstructed through the use of advanced cinematic techniques (visual effects used in the great cinema) and compositing ones. In this settings, multilingual interactive characters overlaps the scenery. Thanks to the use of the most advanced sensor technology, it is possible to interact with them and to ask them questions.





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APPLICATIONS

Museums and cultural places: they offer multiple opportunities. Interactive historical figures and Genius loci may enrich the visitor experience by illustrating the stories and characteristics of the place and by creating an interaction with the works of art, architecture and nature.

Infopoints: in the main places of transit (stations, airports, museums, shopping centers), interactive virtual assistants are able to provide information, to answer to questions, to give explanations and to address the visitors appropriately.

Shops: HI® guarantees the interaction with holographic virtual shop assistants thanks to the use of augmented reality. An avatar with our physical characteristics can be created in order to try different combinations of clothes, accessories or makeup. HI® also provides for the creation of 24-hour interactive shop windows, which make it possible to finalize the purchase at any time.

Virtual ticket-offices: an automated ticketing system can be guaranteed thanks to virtual assistants able to guide the users in the purchasing procedure and to optimize the waiting time in case of massive flows of clients.

Hotels and tourist accommodations: through a domotic holographic interface, namely a holographic "butler" able to explain to the client the room services, each device can be controlled by using verbal or gesture commands. Once the task is performed, the butler will be in a pending state, waiting for further instructions.

Personalized training: the interactive holographic personal trainer allows you to request the type of training you desire –in specialized centres or directly at home– and to memorize your level of preparation in order to customize a specific training program for any sport.

HI® Human Interface