aeroTAP®

aeroTAP Aerial 3D Interface
Best fit 3D hologram operation

www.aerotap.com

The aeroTAP Aerial 3D Interface is an interface designed for intuitive spatial manipulation that brings out the immersive feeling of aerial, hologram, and VX images.

Operators can intuitively manipulate aerial 3D models with natural feeling without obstructing their field of view.

Compatible Equipment:
MIRAI PIX(Aerial Display)[*1]

Usage
• Medical, Education
• Museum, Science Museum
• Games, Entertainments

Manipulating MIRAI PIX(Aerial Display)

aeroTAP Aerial 3D Interface was developed under the guidance of Professor(fixed-term) Akira Yamada, Shinshu University Hospital School of Medicine.

*1 MIRAI PIX (aerial display) is a product of MIRAI BAR Co., Ltd.
  https://mirai-bar.co.jp/
The Aerial 3D Interface is a patent-pending technology.

MIRAI BAR

nextEDGE TECHNOLOGY

aeroTAP and Touchless Interface are registered trademark of nextEDGE Technology

products

With our "aeroTAP 3D USB Camera" and the "aeroTAP evo" touchless interface,
you can make your existing systems touchless without any modifications.

aeroTAP 3D USB Camera

"aeroTAP 3D USB Camera": A stereo vision 3D camera
Simply connect it via USB 3.0 or 2.0 to acquire depth data and color images.
Powered through the USB connection, it's incredibly easy to use.

aeroTAP evo Touchless Interface

"aeroTAP evo" touchless interface ： A solution to operate computers without physical
contact
By connecting the 3D camera, it enables touchless interaction across a wide range of
applications.

Palm Tracking Mode

Palm tracking mode allows you
to manipulate computers from a
distance of 50cm to 2.5m.

Virtual Touchscreen Mode

Virtual touchscreen mode enables
touchless interaction with existing
touchscreens and standard monitors.

No Modification Required

The aeroTAP system can be
implemented without changes to
your existing system, making it
easy to introduce touchless
operation for critical and complex
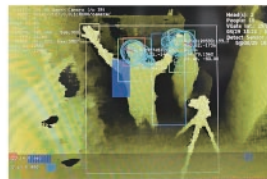systems, such as those used in medical environments.
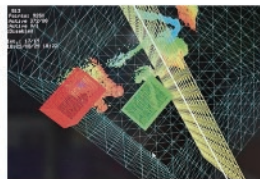
Low CPU Consumption

While most touchless solutions
require high-performance PCs
due to the intensive processing
needed for 3D image handling and shape recognition,
aeroTAP boasts exceptionally low CPU consumption,
eliminating the need for expensive hardware.

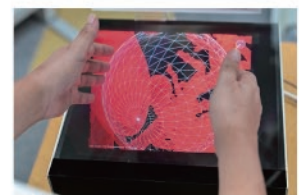## Smart Sensor: Privacy-conscious monitoring sensor

Depth Images

Aerial Sensor
& Virtual Gate

Aerial 3D Interface

Using AI that learns from 3D data, the Smart Sensor can track human
postures and head movements, enabling privacy-sensitive activity
analysis. It detects potentially dangerous events through our 3D
technology, including aerial sensor, virtual gate, and virtual cage.
In addition to privacy-sensitive use in care facilities (e.g., restrooms
and changing areas), it's also adopted in manufacturing to improve
worker efficiency and in retail environments for analyzing customer
behavior.

We have developed a cutting-edge
holographic interface for intuitive
interaction with aerial images. This
interface is designed for seamless
spatial manipulation, offering an
immersive experience when
interacting with 3D models,
holograms, and VX content. It
allows operators to interact
naturally without obstructing their
view.

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