




NAME: 3D DJ MIXER 

DATE: May 15, 2026 9:53 PM


DESCRIPTION OF TECHNOLOGY

HUMAN VALUES 

It is completely no affected.


TRANSPARENCY 

Yes they are all informed.


IMPACT ON SOCIETY 

Standard DJ mixers only handle stereo/2D audio
 No real-time 3D audio manipulation available
 Limited spatial control in live performances
 Basic frequency band control only
 Real-time control needed
 Hardware interface preferred
 Low latency essential
 Intuitive control required


STAKEHOLDERS 

SUSTAINABILITY 

Direct Energy Use:
 Power consumption: ~18W (12V/1.5A) + Always requires power connection. No battery/low power mode. Components run continuously during use
 Indirect Energy Use:
 Manufacturing energy (PCB, components)
 Shipping/transport energy.Required audio equipment
 Development tools/computers.Repair/maintenance energy


HATEFUL AND CRIMINAL ACTORS 

There is no way to break the law with 3D Dj Mixer


DATA 

Known Limitations We Accept


Maximum 4 frequency bands (hardware limit)
 Position resolution of 128 steps (MIDI limit)
 Minimum 10ms latency (processing limit)
 Maximum update rate 100Hz (system limit)

FUTURE 

Integration with VR/AR for visual mixing
 Advanced spatial audio capabilities
 AI-assisted mixing features
 Network connectivity for collaborative performances
 Expansion to home entertainment systems

PRIVACY 

No.

INCLUSIVITY 


Physical accessibility limitations
 Technical knowledge requirements
 Financial barriers
 Environmental requirements
 Cultural assumptions

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HUMAN VALUES 

How is the identity of the (intended) users affected by the technology?

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?...

TRANSPARENCY 

Is it explained to the users/stakeholders how the technology works and how the business model works?

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their...

IMPACT ON SOCIETY 

What is exactly the problem? Is it really a problem? Are you sure?

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine...

STAKEHOLDERS 

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by...

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.

...

SUSTAINABILITY 

In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

HATEFUL AND CRIMINAL ACTORS 

In which way can the technology be used to break the law or avoid the consequences of breaking the law?

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder...)

DATA 

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into...

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;...

FUTURE 

What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

PRIVACY 

Does the technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like...

INCLUSIVITY 

Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases....

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