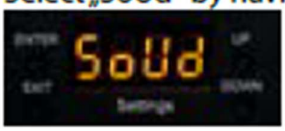
4.1. SOUND-TO-LIGHT

Sound-to-light operation allows to playback the integrated patterns to the beat of music or any noises.
Select „SoUd" by navigating with the „Up" / „Down" buttons and confirm with „Enter":

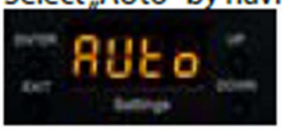


Standard selection is „ALL", which means that all patterns saved on the main board are played back. You can decide to use only a certain part of the pattern set with a certain grating by selecting ALL (for all the gratings), L001, L002, L003, L004, or no grating with L005:

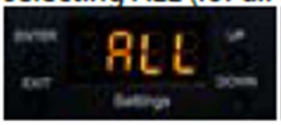
To set the sensitivity of the internal microphone, refer to chapter „4.5. Settings"

4.2. STAND-ALONE / AUTO

Stand-alone or Auto operation allows to random playback the internal patterns.
They are played back according to the internal system settings.
Select „AUto" by navigating with the „Up" / „Down" buttons and confirm with „Enter":



Standard selection is „All", which means that all patterns saved on the main board are played back. You can decide to use only a certain part of the pattern set with a certain grating by selecting ALL (for all the gratings), L001, L002, L003, L004, or no grating with L005:



4.3. MASTER-SLAVE

This laser is Master-Slave capable. This means that the Master laser system can hand on a control signal to one or more Slave lasers, so all do the same.
Master-Slave only works with lasers of the same product series of the same product generation.

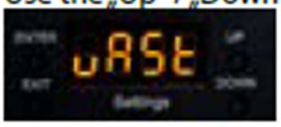
A: Link lasers with DMX cable

To use Master-Slave operation, link the Master with the Slave lasers with DMX cables. Make sure to use the „DMX out" port on the Master and the „DMX in" on the Slave lasers. If several Slave lasers are used, link the first one to the Master laser and daisy-chain the control signal from the first Slave laser to the second etc..

B: Activate Master Laser

The Master laser needs to be set as control source.
Select „SEt" by navigating with the „Up" / „Down" buttons and confirm with „Enter":

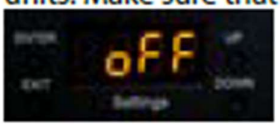
Use the „Up" / „Down" buttons to navigate to „uASt"



Press „Enter", use the „Up" / „Down" buttons to switch the option to „on" and confirm with „Enter"

C: Deactivate Master setting on Slave lasers

As soon as the Master option is set to „on", the laser sends out the control signal for the Slave units. Make sure that all Slave units have the Master setting set to „oFF":



D: Set Sound-to-Light or Auto mode on Master laser

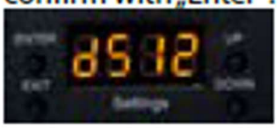
To use the Master-Slave operation: set the Master to either Sound-to-Light mode (4.1) or Auto mode (4.2.).

E: Establish link to Slave lasers

The Slave units must be set to DMX („d512") mode and must be assigned address 001 (see 4.4. DMX 512)

4.4. DMX 512

The DMX mode requires a DMX controller or a Master laser (see 4.3. Master-Slave operation) to be connected to the laser.
To switch to DMX mode, select „d512" by navigating with the „Up" / „Down" buttons and confirm with „Enter":



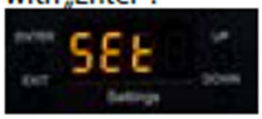
The submenu for setting the DMX address loads:

Press „Enter" and the „Up" / „Down" buttons to set the desired DMX address.

Confirm with „Enter" and press „Exit" to return to the main menu.

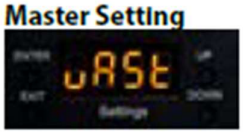
4.5. SETTINGS

To access the settings, select „SEt" by navigating with the „Up" / „Down" buttons and confirm with „Enter":

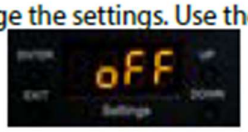


The settings menu holds several configuration options for the laser system.

Master Setting

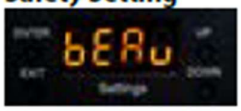


The „uAST" menu allows for the activation and deactivation of the Master mode for the laser. If the laser is set to Master > On, then it can be used as Master device in a Master-Slave setup. See more in „4.3. Master-Slave".
Press „Enter" to change the settings. Use the „Up" / „Down" button to change the selection.



Confirm with „Enter".

Safety Setting

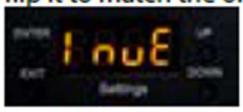


The „bEAu" menu can switch the beam block safety on and off. The beam block safety prevents that very intense, single beams can be displayed. It is highly recommended to not switch this feature off. Switching off the beam block safety is at your own risk! Lasers with switched off beam block safety may only be used in safe areas.
Always respect the local laws!
Press „Enter" to change the settings. Use the „Up" / „Down" button to change the selection.

Confirm with „Enter".

Orientation Setting

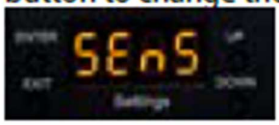
The „InuE" menu controls the orientation of the projection. You can invert the projection and flip it to match the orientation of the laser with the content.



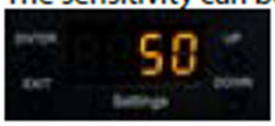
Press „Enter" to change the settings. A test picture is shown to represent the currently set orientation. Use the „Up" / „Down" button to change the selection, and confirm the selection with „Enter" to change the test picture projection

Press „Exit" to return to the settings menu.

Microphone Sensitivity Settings
The sensitivity of the built-in microphone for the control of the sound-to-light operation can be adjusted in the „SEnS" menu. Press „Enter" to change the settings. Use the „Up" / „Down" button to change the selection.



The sensitivity can be adjusted between 1 and 100. Standard value is 50.



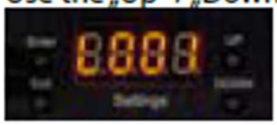
4.6. ILDA / COMPUTER CONTROL

The laser can be used with any laser control software that supports the ILDA control signal via sub-d connector. Use an ILDA cable to connect the Digital Analog Converter (DAC / ILDA interface) of the laser software to the ILDA in port at the laser.

To operate the laser in ILDA mode the „ILdA" menu must be selected. Press „Enter" to change the settings.

Grating Effects Settings in ILDA mode - DMX grating control on ILDA
Once ILDA mode is selected, the standard selection is „L001", which means that the laser will automatically switch through the grating effects. A certain grating effect can be selected with L002, L003, L004. If L005 is selected there is no grating effect.

Use the „Up" / „Down" button to change the selection:



Select „d512" and press Enter if you want to control grating effects with DMX while working on ILDA mode. You must previously set a DMX address as specified in „4.4 DMX 512" section.