

ailumi

ART & INTELLIGENT LUMINANCE

produced by



art illumination

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DESCRIPTION OF THE AILUMI

AILUMI is a fresh lighting project realized by AI Art Illuminance. The AI team is a group of young passionates in average age of 25 years old who love design and electronics. We love, what we do!

AILUMI (**A**rt and **I**ntelligent **L**uminance) is a fresh project of a unique desk lamp that creates the network with other lamps. The lamp network allows all the lamps in the same place to react at each other. The User has the possibility to control the lamps by mobile applications. How? Simply, by mobile application that is wireless connected with a lamp through Bluetooth. Imagine that You want to change the color of the light. You can do this easily by using Your finger on Your mobile phone. The mobile app will “tell” the lamp what it has to do. You can also change the lights intensity by the same way of each lamp. If You don't want to use Your mobile, You can do all that things manually on the lamp, e.g.: by shaking it, moving or rotating.

Numerous tiny lamps, which we're able to decorate our spaces of living have the task to teach and entertain, where You're able to control the environment in dynamic way. You can find the teach and entertain examples in [**Description of the operation of the AILUMI**], **page 6**.

By owning only one item of AILUMI without the mobile application, You are able to manage it manually by Touch panel — the whole upper lamps surface. One of the lamps Touch panel axis is responsible for Light Intensity, and the opposite axis is accountable for colour balance where You can choose one of millions colors. The lamp is equipped by MEMS sensor, accelerometer, gyroscope and magnetometer. That's why we can control the color by Your imagination.

If You own the mobile phone with the AILUMI application installed, prepared by AI Corporation specially for the lamp, You are able to set up Your lamp options remotely, and set up the lamps behavior for the action of the sensors position.

User, who buy more than one lamp have much more possibilities and ways of using it. All the lamps in the AILUMI NET Network (AILUMI NET is a name of the original and unique lamps network) changes the properties of own and other lamps colour and light intensity. According to distance, the way of moving between the AILUMI lamps (speed, rotation angle) the lamps are dynamically changing its light intensity, color and lighting emit values. You can use the AILUMI AI mobile application to make the decisions and ways how other lamps may have an effect on the other ones. The lamps are able to sim-

ulate model of subtractive and additive color mix By moving closer two lamps to each other You can mix two separate light emission colors by subtractive model option and mix two light colours on the same way as the artist painter is doing it (additive model).

AILUMI embellish our space of living, it teach and entertain (e.g.: The science of subtractive and additive color mixing). The light doesn't have to be boring anymore. Choose AILUMI, choose interaction!

Sincerely
AI Art Illuminance Group

DESCRIPTION OF THE OPERATION OF THE AILUMI

AILUMI. The possibility of steering the desk lamp lighting by MEMS sensors, mobile applications or other AILUMI desk lamp examples.

One AILUMI desk lamp quantity

Owning only one AILUMI desk lamp we can control its light by Touch Panel. You are able to on and off the lamp, You can softly control the lights brightness, change the lights color from the huge HUE spectrum.

Additionally (by means of MEMS sensors) You are able to change the values of the emitted lighting by shaking the upper part of the lamp or turning it physically using Your hand.

When You go to shake the lamp, its color will change to intensive red emission. When turning vertically in 90 degrees angles its color will change to pure, intensive azure color.

The X & Y turning angles gives the blue color, Z angle is a neutral axis and the lamps light emission will change to the random color chosen by Touch Panel or when the lamp is working together with the mobile Application.

One AILUMI desk lamp quantity including AILUMI Mobile Application by AI Corp.

The use of the lamp is the same as above. Using AILUMI Mobile Application by AI Corp. You are able to change the light intensity emission, its color (hue) on and off the AILUMI desk

lamp – on the same way as it was by using Touch Panel. Additionally the mobile application allow to switch on the lamp for some period of time, the RGB color read-out, set up the lamp in the properties option for shaking and turning the lamp in X and Y angles. We can choose own colors for lights using operations like shaking or turning the AILUMI. The Mobile application has the option of changing lights color and intensity that correspond with real life earth poles, additionally it makes the compass from the lamp.

More than two AILUMI quantities

The use of the lamp is the same as in “One AILUMI desk lamp quantity section.” If You own more than two AILUMI desk lamp quantities (maximum amount is 5) we can put them on any table, but the distance has to be bigger than one meter from each lamp. Switch on the lamps using Touch Panel, set up the colors and intensity of emitted lights also using the Touch Panel (the best results are achieved when the colors are most intensive and different for each lamp). When You move the lights closer to each other the lamps will automatically change the lights colors by additive mixing it with other ones.

Additive color is a color created by mixing light emission of two or more different colors. Red, green, and blue are the additive primary colors normally used in additive color system. The combination of two of the standard three additive primary colors in equal proportions pro-

duces an additive secondary color. E.g.: Green + Red = Yellow; Red + Blue = Purple; Blue + Green = Cyan; Red + Green + Blue = Bright white light; Yellow + Purple + Cyan = Bright white light.

More than two AILUMI quantities including AILUMI Mobile Application by AI Corp.

The use of the lamp is the same as above. We can choose the one of the many possibilities and ways of closing up more than two quantities of lamp (maximum 5 lamps) by using Mobile Application. The Additive Color function is set up by default.

Subtractive color calculates the lighting similar to Additive color method. The only difference is when the basic color are mixed we obtain: Yellow + Purple = Red; Purple + Cyan = Blue; Cyan + Yellow = Green; Red + Green + Blue = grey color (AILUMI = dim light).

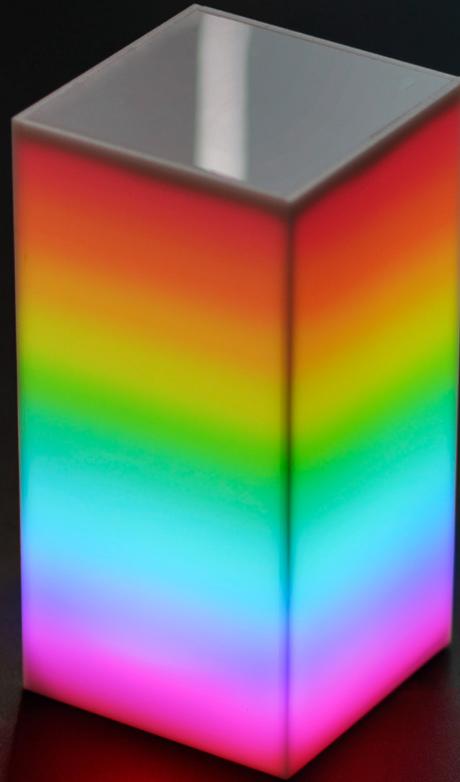
Solid color, by moving each lamp closer to themselves we achieve certain color (random and taken from the HUE spectrum).

Whiteness, by moving each lamp closer to themselves we achieve the emission of white, pure lighting.

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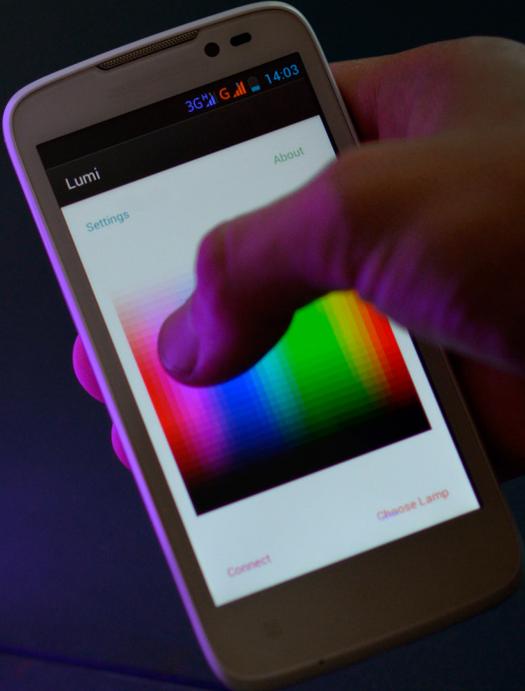
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PHOTOGRAPHS OF THE AILUMI



full hue spectrum simulation

Photographs of the AILUMI



mobile app in action

Photographs of the AILUMI

many of the AILUMIs simulation

Photographs of the AILUMI



AILUMI in yellow

Photographs of the AILUMI

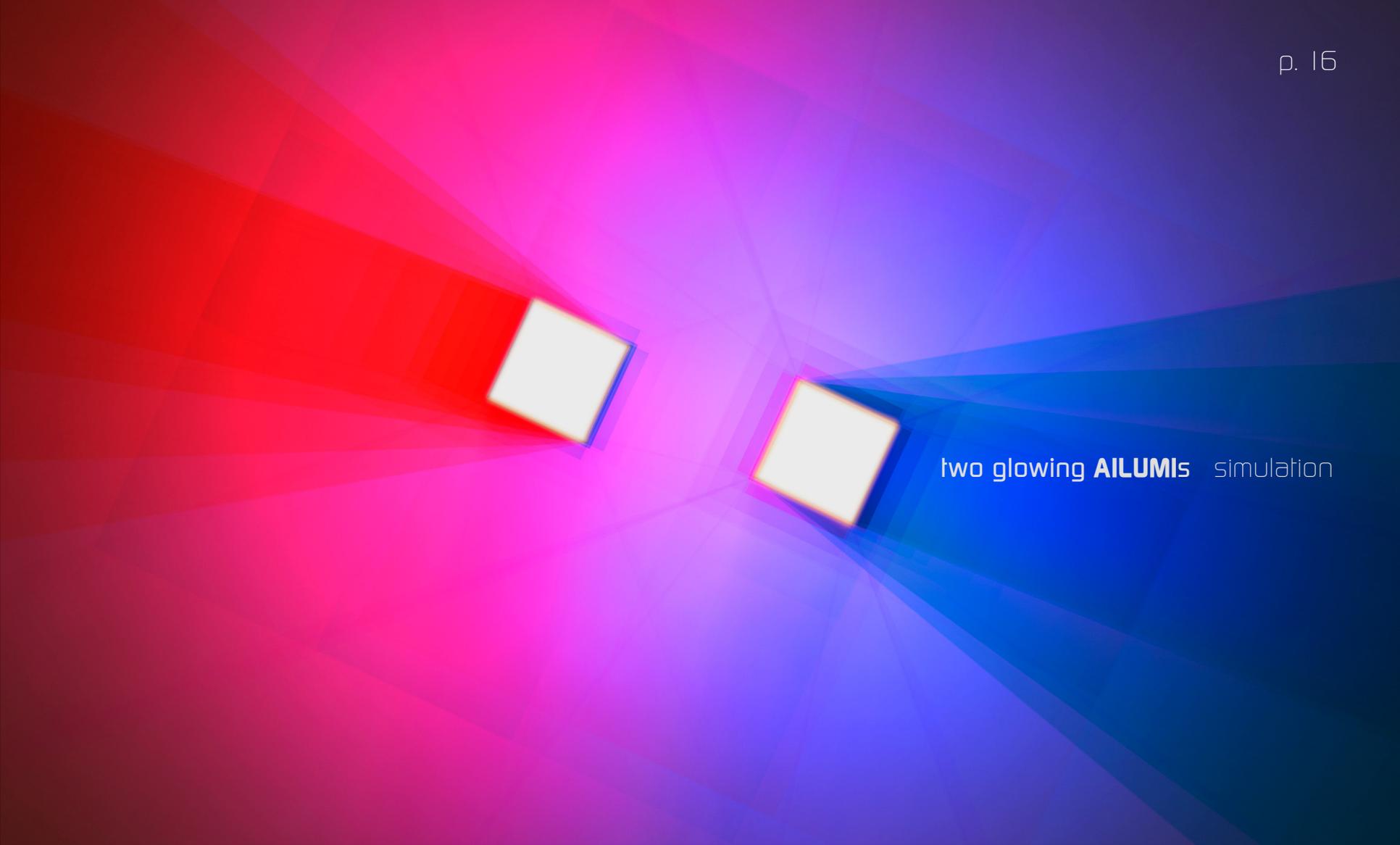
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AILUMI in blue

Photographs of the AILUMI

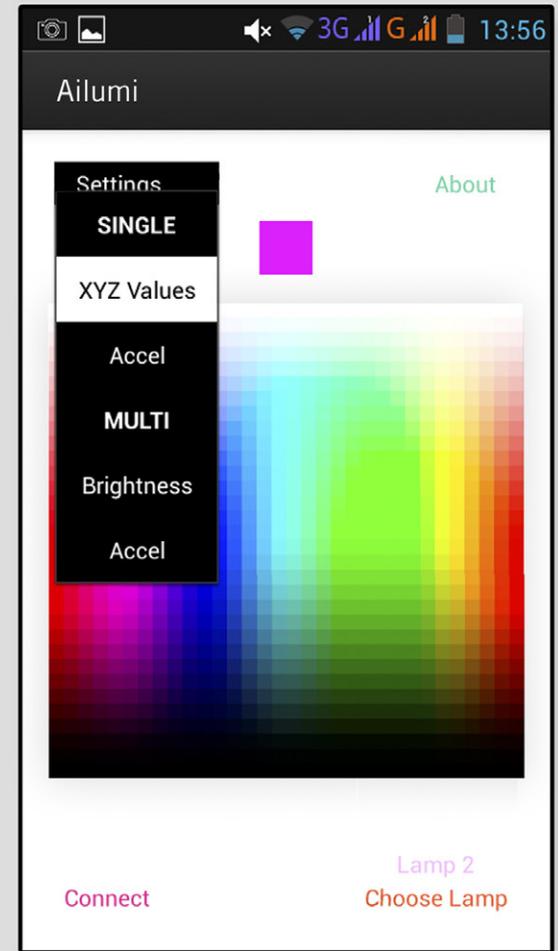
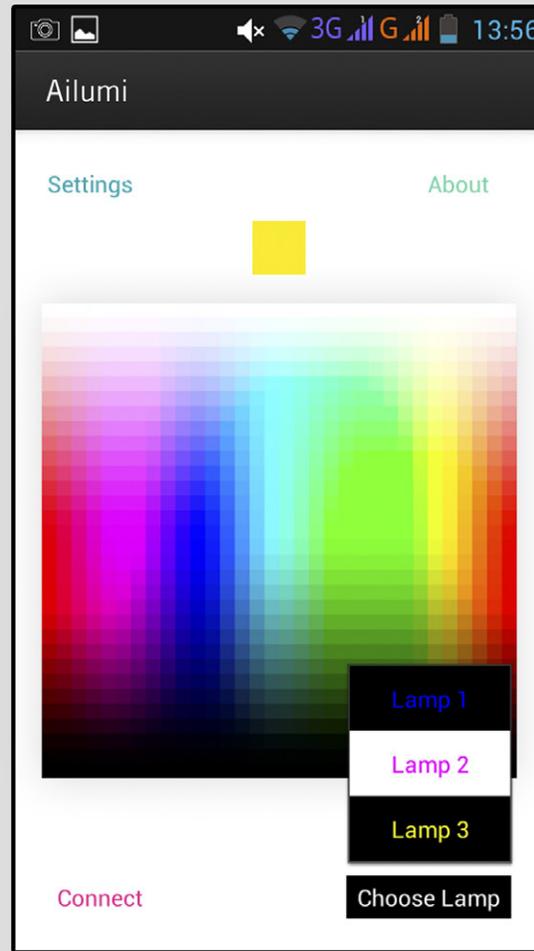
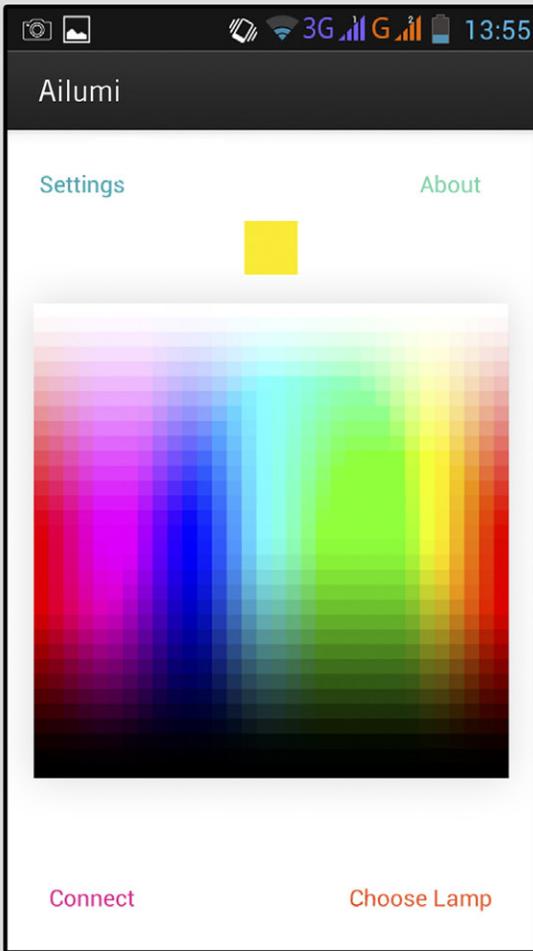
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two glowing **AILUMIs** simulation

Photographs of the AILUMI

SCREENSHOTS OF THE MOBILE APP



Screenshots of the Mobile App

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