## CLAIMS

1. An illumination device comprising:

a signal reception unit capable of receiving an audio signal from outside;

a musical piece extraction unit capable of extracting continuous consonant sounds in the audio signal as a musical piece;

a performance state detection unit capable of detecting start/end of performance of the musical piece according to a result of extraction by the musical piece extraction unit;

a first illumination lamp capable of irradiating a target object with ultraviolet rays, the target object being coated with paint that emits light or reflects ultraviolet rays by irradiation of ultraviolet rays;

a second illumination lamp capable of irradiating the target object with white light; and

an illumination control unit capable of controlling on/off of the first illumination lamp, and of controlling on/off and illuminance of the second illumination lamp,

wherein the illumination control unit

controls the second illumination lamp to repeat a pattern in which illuminance is gradually increased in a first predetermined period of time that is set in advance starting from an off state so as to achieve illuminance imitating morning sunlight shining on the target object, maximum illuminance is

maintained in a second predetermined period of time that is set in advance and that follows the first predetermined period of time so as to achieve illuminance imitating daytime sunlight shining on the target object, the illuminance is gradually reduced in a third predetermined period of time that is set in advance and that follows the second predetermined period of time so as to achieve illuminance imitating evening sunlight shining on the target object, and the off state is maintained in a fourth predetermined period of time that is set in advance and that follows the third predetermined period of time,

controls the first illumination lamp to repeat a pattern of being turned off in a fifth predetermined period of time that is set in advance and that is during a time when the second illumination lamp is turned on, and being turned on in a sixth predetermined period of time that is set in advance and that includes a time when the second illumination lamp is turned off,

causes the first and the second illumination lamps to be turned on in response to detection of the start of performance by the performance state detection unit, and

causes the first and the second illumination lamps to be turned off in response to detection of the end of performance by the performance state detection unit.

2. The illumination device according to claim 1, wherein the musical piece extraction unit includes

a data conversion unit capable of generating frequency data by applying Fourier transform on data of the audio signal,

a band extraction unit capable of extracting data of a specific band corresponding to the continuous consonant sounds from the frequency data, and

a musical piece presence determination unit for determining that the musical piece is present in the audio signal, in response to extraction of the data of the specific band by the band extraction unit.

3. The illumination device according to claim 2, wherein the performance state detection unit

detects the start of performance when the musical piece presence determination unit determines that the musical piece is present in the audio signal, and

detects the end of performance when a state where the data of the specific band is not extracted by the band extraction unit continues for a period of time that is set in advance.

4. The illumination device according to any one of claims 1 to 3, wherein the illumination control unit includes a storage device storing a plurality of control patterns, and selects one control pattern by selecting from the plurality of control patterns and performs control according to the one control pattern selected.

5. The illumination device according to any one of claims 1 to 4, comprising:

a transmission device for issuing an operation signal; and

a reception device for receiving, and supplying to the illumination control unit, the operation signal from the transmission device,

wherein the illumination control unit performs selection of a control pattern according to the operation signal.

6. The illumination device according to any one of claims 1 to 5, comprising an indicator lamp for emitting light of a plurality of colors,

wherein the indicator lamp emits light of a color corresponding to a control pattern according to any one control pattern selected.

7. The illumination device according to any one of claims 1 to 6, wherein the first illumination lamp is one of an ultraviolet lamp and an ultraviolet LED.

8. The illumination device according to any one of claims 1 to 7, wherein the second illumination lamp is one of an incandescent lamp and a white LED.

9. A frame, wherein the frame is provided with the illumination device according to any one of claims 1 to 8.