used. However, in the method of the direct visual inspection by the inspector, there are various problems such as a risk of a toxic gas being produced in the sewage pipeline to affect a human body and a risk from immersion at the time of sudden rainfall. In the method of arranging the television camera in the pipe, there are also problems that a sufficient inspection speed is not obtained and a vehicle is difficult to control when a water level in the sewage pipeline rises.

[0004]

In flying an unmanned aerial vehicle in not only the sewage pipeline but also an environment where a collision with any boundary surface such as a wall surface or a ceiling may occur, controllability of the unmanned aerial vehicle may be deteriorated by the collision with the boundary surface, or an vehicle body may be damaged in some cases.

Citation List

Patent Literature

[0005]

Patent Literature 1:Japanese Patent Laid-Open No. 2017-087917
Patent Literature 2: Japanese Patent Laid-Open No. 2017-226259
Patent Literature 3: Japanese Patent Laid-Open No. 2018-001967
Patent Literature 4: Japanese Patent Laid-Open No. 2014-239665
Patent Literature 5: Japanese Patent Laid-Open No. 2014-236728
Patent Literature 6: Japanese Patent Laid-Open No. 2013-000059

Summary

[0006]

The present disclosure is to provide an apparatus configuration, a method, and the like for performing shooting inspection in an inspection space including the inside of a sewage pipeline using

an unmanned flying object.

[0007]

To solve the above-described problems, the present disclosure provides a shooting inspection system including a flight start stage (flight start platform) on which an unmanned flying object can be placed, the unmanned flying object that is connected to a line-type member, includes an inspection camera, a traveling direction shooting camera, and an unmanned flying object-side communication unit, and starts to fly from a state where the unmanned flying object is placed on the flight start stage in an inspection space, shoots a traveling direction in the inspection space using the traveling direction shooting camera, and flies in the inspection space while transmitting traveling direction shooting data obtained by shooting the traveling direction from the unmanned flying object-side communication unit, an external control device that includes a display unit and an external control device-side communication unit, receives the traveling direction shooting data by the external control device-side communication unit, accepts an input of a control instruction to the unmanned flying object while displaying a moving image (movie) or a still image obtained based on the traveling direction shooting data on the display unit, and transmits a signal representing the control instruction from the external control device-side communication unit, and a draw device that is connected to the line-type member and draws the unmanned flying object.

[0008]

The present disclosure provides a shooting inspection method including putting an unmanned flying object that is connected to a line-type member and includes an inspection camera, a traveling direction shooting camera, and an unmanned flying object-side communication unit into an inspection space with the unmanned flying object placed on a flight start