

Broadcast PTZ KD-A800PTZ Intelligent pan-tilt



Before using this machine, please read this manual carefully and keep it properly for future reference

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Precautions

- (1) During the installation of the equipment, please be sure to read the safety instructions carefully and operate strictly in accordance with the installation and usage instructions.
- (2) Before connecting the switching power supply of the device to the external power supply, please confirm the power supply voltage value. When in use, please pay attention to the control voltage marking of the device, which is DC12V.
- (3) Please use the equipment under the temperature and humidity conditions required by the device.
- (4) Prevent foreign objects from entering the equipment. Do not splash corrosive liquids onto the equipment to avoid danger.
- (5) During transportation, storage and installation, the product should be protected from heavy pressure, severe vibration and immersion to prevent damage.
- (6) Do not disassemble it without authorization. Relevant work should be carried out by qualified maintenance personnel.
- (7) Please clean the outer shell with a dry soft cloth. If there is stubborn dirt, please wipe it with a neutral cleaner.
- (8) Do not use strong or abrasive cleaners to avoid scratching the shell.

Product services and Disclaimer

The information provided in the manual is only for reference. All along, KIND has been striving to provide correct, complete and appropriate information. However, KIND cannot rule out the possibility that some information in the manual may be incorrect or incomplete. This manual may contain typing errors, information omissions or incorrect information. KIND suggests that you double-check the accuracy of the information in this file. KIND is not responsible for any omissions or errors. For any damage caused by the information provided in this manual or any further information related to this manual or the product, please contact your local office or KIND headquarters.

For your safety in use, please do not expose the device to rain or moisture. In case of malfunction, do not disassemble the casing. For after-sales matters, please contact the manufacturer and have a professional engineer carry out the repair.

According to the provisions of the copyright law, without the permission of the copyright owner, the recorded video or

audio may not be used for purposes other than personal appreciation. Please note that live performances, shows and exhibitions, even your personal entertainment shooting may be restricted.

1、 Product Overview

Nowadays, the radio and television industry, new media and campus TV stations have a wide range of demands for intelligent shooting systems. With the continuous rise in labor costs, the scale of industry demand is constantly expanding, and there is a serious shortage of technical personnel. The continuous innovation of automation and intelligence has made stable, high-standard, highly reliable and low-cost broadcast-level intelligent shooting systems a reality and have a wide market. The Broadcast PTZ KD-A800PTZ intelligent pan-tilt can enable the shooting personnel to obtain excellent shooting angles and provide diverse lens materials for the final program composition. This system can control the push, pull, pan, tilt and pitch of the camera, and all are controlled by the servo motor system, making the system have the characteristics of slow stop and start, uniform speed change and smoothness.

1、 Rotation range: Horizontal: 355° Pitch: +90° to -90°

Support software limits (There is a picture of pan-tilt 1 in

Figure 1  +Gimbal 2 diagram.  , Mark the rotation Angle)

Rotational speed: Horizontal: 0.01 to 60° /S; Pitch: 0.01 to

60 ° /S; The pan-tilt and lens are fully variable speed controlled.

Positioning method and accuracy: Full closed-loop absolute positioning, $0.01^{\circ} \pm 10\%$.

adjustable damping: Supports (preset by the manufacturer), users can fully customize it, including slow start and slow stop, quick response, etc.

Preset positions: 256.

Video signal output: SDI×1, HD4K×1.

Online upgrade: Supported.

Remote on/off: Supported.

Protocol type: VISCA, supports protocol customization.

Camera power supply: Supported.

Control mode: Supports both wired network cables RS232/RS485 and wireless 2.4G/433M simultaneously.

Control distance: Wired 1.2km, wireless 200m/1000m.

Power supply requirement: 12V to 36V.

Power: 180W (excluding camera).

Operating temperature: -10°C to 45°C.

TALLY:Support

Load capacity: 20kg

Pan-tilt weight: 3.37kg

Dimensions (length x width x height) 158mm*140mm*200mm

2、 Connection instructions



①ON/OFF: Power switch

②RS232/RS485: Control interface, controlling the tilt, pitch and pitch of the pan-tilt

③ADDR: Control the camera address (0 is 1, 1 is 2, and so on)

④+12V power supply: 12V power interface, supporting both forward and reverse power supply

⑤SDI: SDI output signal interface

⑥HD4K: HD4K output signal interface;

⑦Side +12V: Responsible for powering the camera (depending

on the model).

⑧Side view HD4K: HD4K Signal input;

⑨Side view SDI: SDI Signal input;

⑩LANC:Control the camera Zoom;

- TALLY: TALLY light

Pan-tilt connection steps

(1)The SDI output port of the camera is connected to the pan-tilt ⑦SDI input interface/the HD4K output interface of the camera is connected to the pan-tilt ⑧ HD4K input interface.

(2)The LANC interface of the camera is connected to the LANC interface of the pan-tilt unit ⑩.

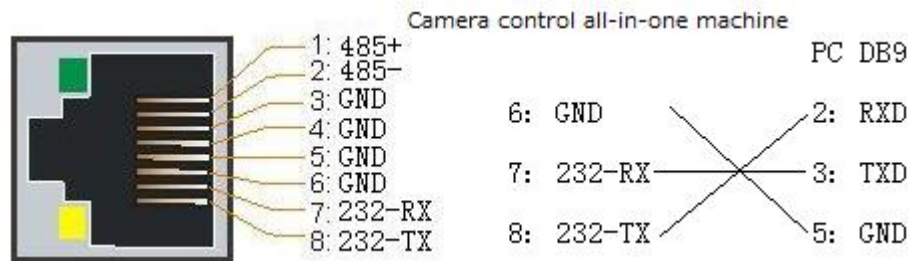
(3)The +12V power interface of the pan-tilt ⑦ is connected to the DC power interface of the camera.

(4)The 485 interface of the pan-tilt ② is connected to the 485 interface of the control equipment.

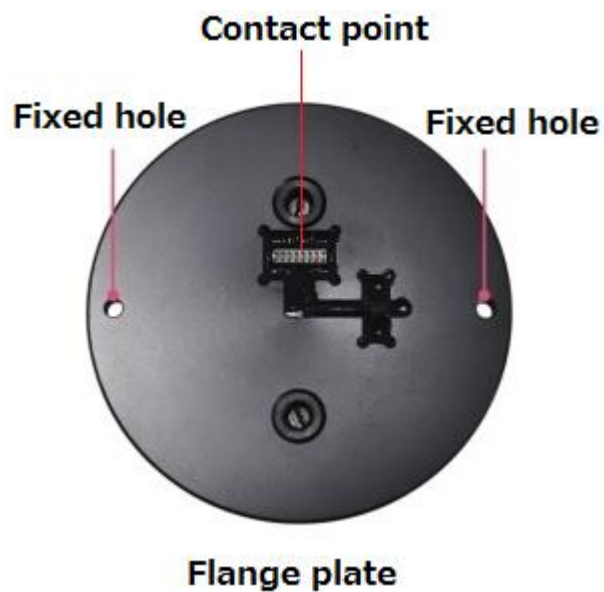
(5)Connect the external power supply to the 12V power interface ④.

(6)The SDI⑤ output interface is connected to an external display/the HD4K ⑥ output interface is connected to an external display.

3、 Introduction to 485/232 Control Interface



4、 Connection method with the rail vehicle



The bottom contacts of the pan-tilt can be connected to the contacts of the rail vehicle or powered by a 12V power supply

5、Contact us

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