

**Integrated Smart vehicle camera**

**DJ-GC200**

**Catalog**

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# DJ-GC200 Integrated Smart vehicle camera user manual

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## 1. Feature

The integrated Smart vehicle spherical camera is developed to be an advanced intelligent surveillance product which gathers optical, mechanical, electrical and image by Right M&C CO. Ltd. This product consists of CCD camera, power mechanism, precision gear, MEMS strap-down inertial navigation system, digital decoder, high-performance image processing, unit controller, and external handheld controller. With simple mechanical design, compact in structure, positioning accuracy and high reliability, Flexible operation, fast speed, stable start and stop and easy to control.

The product has the function of target preset, memory, and automatic cruise function; Arbitrary positioning, realizing the true without blind spot monitoring, lens only point to the constant follower, cost-effective, long-term stable operation..

Adopting high strength plastic shell, light weight, waterproof, also with the optical lens coating to increase transmittance, dustproof, waterproof and anti electrostatic interaction.

- 1) Specific for vehicle environment design, safety and anti-vibration.
- 2) With serial RS485 bus control, support Pelco-D, Pelco-P protocol, and compatible with a variety of optional control protocol.
- 3) Can preset communication baud rate, address code, any set of automatically aligning position.
- 4) Can be connected with a PC, and can also be connected to the hand-held controller with supporting parameter settings.
- 5) With high precision MEMS strap-down inertial navigation system, can give out attitude information in real time.

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- 6) Precision motor drive, smooth operation, sensitive reaction.
- 7) Level 360 °continuous rotation, no monitoring blind spot.
- 8) -15 ° to 90° vertical rotation, arriving at 90° horizontal automatic turning 180° then continuous monitoring, no matter how the vehicle moves, it only can point to the same lens.
- 9) The rotation speed is adjusted automatically according to zoom multiples.
- 10) Automatic focusing, automatic white balance.
- 11) Backlight compensation function, you can see all the objects in the environment with a strong light source.
- 12) The screen displaying the ball lens angular position information can be arbitrarily set the preset point.

**Applications:** The products are widely used in the place of requiring high-definition picture quality, such as the financial, telecommunications, government, schools, airports, factories, hotels, museums, traffic monitoring.

## 2. Specification

Signal System	PAL/NTSC
Image sensor	1/4 inch color CCD
Horizontal resolution	480 lines
Video output	1.0±0.2VP-P
Rotation speed	Level 0.05°~300°/s; Vertical 0.05°~60°/s
Signal-to-noise ratio	≥50dB
Minimum illumination	0.01Lux
Gain Control	Auto / Manual
Backlight compensation	Auto / Manual
Optical zoom	18×
Digital zoom	12×
Rotation angle	Level 0°~ 360°; Vertical -15°~90°auto rotation
Power supply/power	DC12V±0.5V/15W

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Control mode	RS485 Bus Control
Communication baud rate	1200bps 、 2400bps、 4800bps、 9600bps、 19200bps etc.
Address code range	0~255
Horizontal positioning accuracy	<0.1°
Pitch positioning accuracy	<0.1°
Dimensions	Bottom diameter: $\varnothing$ 130mm; height: 163mm;
Net weight	1kg
Dustproof and Waterproof rank	IP66
Operating Temperature	-25°C ~ 70°C