KENWOOD

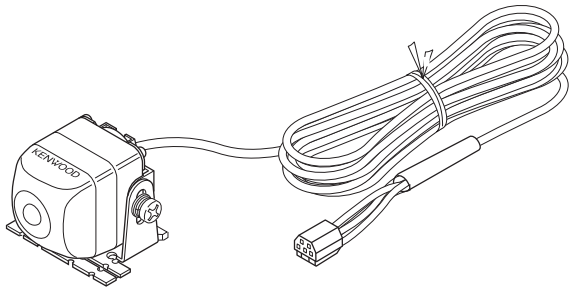
# SERVICE MANUAL

## UNIVERSAL REAR VIEW CAMERA, UNIVERSAL MULTI-VIEW CAMERA

# CMOS-220, CMOS-320

**SERVICE POLICY**

**No service part is available for this model.**
**Exchange only.**




## SPECIFICATION

| **Camera Unit** | |
|---|---|
| Output video | Wide-angle mirror image (for rearview)<br>Wideangle normal image (for front view): 320 only |
| Sensor | 1/3.6-inch color CMOS sensor |
| Number of pixels | Approx. 330,000 pixels |
| Lens | Wide angle Focal length f=1.05 mm F value 2.0: 320<br>Wide angle Focal length f=1.12 mm F value 2.2: 220 |
| Angles of view | Horizontal: Approx. 195°, Vertical: Approx. 145°: 320<br>Horizontal: Approx. 128°, Vertical: Approx. 103°: 220 |
| Video output | 1.0 Vp-p/ 75Ω |
| Illumination range | Approx. 0.9 to 100,000 lux |
| Iris system | Electronic iris |
| Scanning system | Interlace |
| Synchronizing system | Internal synchronization |
| Dimensions (WxHxD) | 23.4 x 23.4 x 26.1 mm: 320<br>23.4 x 23.4 x 23.9 mm: 220 |
| Weight | Approx. 23 g (without cable): 320<br>Approx. 22 g (without cable): 220 |

| **Switch Unit (320 only)** | |
|---|---|
| Dimensions (WxHxD) | 27.5 x 32.8 x 12 mm |
| Weight | Approx. 10 g (without cable) |
| **General** | |
| Operating voltage | 14.4V (9.0 V - 16.0 V) |
| Max. current consumption | 100 mA: 320<br>50 mA: 220 |

- Mirror image means that the video image inverts the left and right just like the image seen on the rearview mirror or a side mirror.
- Specifications subject to change without notice.

PbF

This product uses Lead Free solder.

This product complies with the **RoHS** directive for the European market.

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