# DEK-Q56 (Ex) Explosion-proof Speed Dome

Installation and operation manual | Source edition as supplied

Changzhou Derke Electromechanical Equipment Co., Ltd.

English translation of DEK-Q56EX.pdf. Source ratings, historical standards and source conflicts are retained. This translation does not update the product specification or issue a new certificate.

## Source notes

The source differs internally: overview preset speed 200°/s versus mechanical 240°/s; overview -20°C versus environmental -40°C lower limit; marking IP68 versus mechanical IP66. These are retained, not harmonized. Installation text is incomplete in the supplied source.

## Safety information

Read this manual carefully before installation and use. Install only in an environment meeting the manual requirements and on a secure support. Before energizing, check that the supply matches the equipment nameplate. Do not open the explosion-proof chamber in high humidity: trapped moisture may corrode components and impair image quality. Connect cables as specified. Disconnect power before maintenance or repair. Protect flameproof joint surfaces during disassembly and assembly. Collect circuit boards, electronic components, plastics and lubricants during maintenance or disposal; do not discard them indiscriminately. Transfer them to the relevant environmental disposal service.

## Technical parameters from the source

| Parameter | Value |
|---|---|
| **Supply** | 24 VAC or 220 VAC, 50 Hz |
| **Operating current** | <=300 mA |
| **Power consumption** | <30 W |
| **Communication** | RS-485 |
| **Baud rates** | 2400 / 4800 / 9600 / 19200 bps |
| **Protocols** | Multiple, including PELCO-D/P |
| **Address** | 0-255 |
| **Presets** | 64 |
| **Preset accuracy** | +/-0.1° |
| **Material** | 304 or 316L stainless steel |
| **Finish** | Electropolished |
| **Ingress protection (mechanical section)** | IP66 |
| **Pan / tilt** | 360° continuous / 0-90° |
| **Pan speed** | 0.5-240°/s, smoothly variable |
| **Tilt speed** | 0.5-100°/s, smoothly variable |
| **Speed matching** | Automatic adjustment with joystick deflection and lens zoom |
| **Preset speed (mechanical section)** | 240°/s |
| **Weight** | 8 kg |
| **Mounting** | Ceiling, wall bracket, base or pole |
| **Atmospheric pressure** | 86-106 kPa |
| **Ambient temperature (environmental section)** | -40°C to +60°C |
| **Relative humidity** | 95% RH at +25°C; inequality symbol unclear in source |

## 1. Overview

Combines flameproof equipment with an intelligent speed dome for flammable/explosive gas environments. Automatically recognizes integrated color cameras from Hikvision, Dahua, Hitachi, Sony, Sanyo and other brands. A multilingual menu configures accounts, alarms and scanning. Multiple protocols and baud rates support different controllers. The overview states continuous 360° pan, 0-90° tilt, manual speed 0.5-240°/s and 200°/s preset travel. Electropolished exterior. The overview states -20°C to +60°C operation. Indoor/outdoor wall or pendant mounting; one wall bracket supplied.

## 2. Model and warning

DEK = company code; Q = product code; 56 = camera code; Ex = explosion protection. Exd IIC T6 Gb / DIP A21 IP68 T80°C. DO NOT OPEN WHILE ENERGIZED. Wait five minutes after disconnecting power before opening.

## 2. Electrical safety

Under standard test atmospheric conditions, insulation resistance between supply terminals and enclosure shall be at least 100 megohms when measured at 500 VDC. The source specifies a 50 Hz, 2000 V withstand test for one minute without breakdown or flashover.

## 3. Installation

The supplied source begins installation checks: verify certificate number, suitability of the marking for the explosive gas mixture, and that explosion-proof parts have no cracks or defects affecting protection. The supplied five-page source ends this section mid-list; no additional installation procedure is present. Obtain the complete approved installation instructions from DEK before installation.

## 4. Transport and storage

The packaged product may be transported by any method provided it is protected from direct rain and snow. The source permits storage for more than one year at 0°C to +40°C and relative humidity not exceeding 90%.

## 5. Warranty

The source promises replacement within six months and a one-year warranty. Free repair is provided during the warranty period, but material and labor charges may apply to damage caused by operation contrary to the manual, unauthorized disassembly, lightning or unavoidable natural disasters. Any separate written service commitment or agreement between the company and user takes precedence.

## 6. Company details

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