

## Reliability Prediction

- I. Date:** 2017-08-25
- II. Model Name:** DS-2CD6510ET-I(O)
- III. Revision:** N/A
- IV. Equipment:** Windchill Quality Solutions
- V. Calculation Method:** GJB 299C Parts Count

### VI. Prediction Result:

**MTBF:** >100,000 hours

**MTBF(Mean Time Between Failures)** for this product is estimated by the failure rate of each components under 25°C ambient temperature, and the total value is obtained according to the following formula.

$$MTBF = \frac{1}{\sum_{i=1}^n N_i \lambda_{Gi} \pi_{Qi}}$$

$\lambda_{Gi}$ - General Failure Rate specified for component 'i'

$\pi_{Qi}$ - General Quality Coefficient specified for component 'i'

$N_i$ - Total number of components of type 'i'

$n$ - Total number of all equipment components