Reliability Test of Mars Series Industrial Cameras

Quality Flows from our Our diligence and untiring hard work.
Our Reliability Testing continually challenges the highest industrial standards.

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Based on these testings, We are the one of only a very few companies in the industry that provides a 3-year quality guarantee for our products.

ALT Test

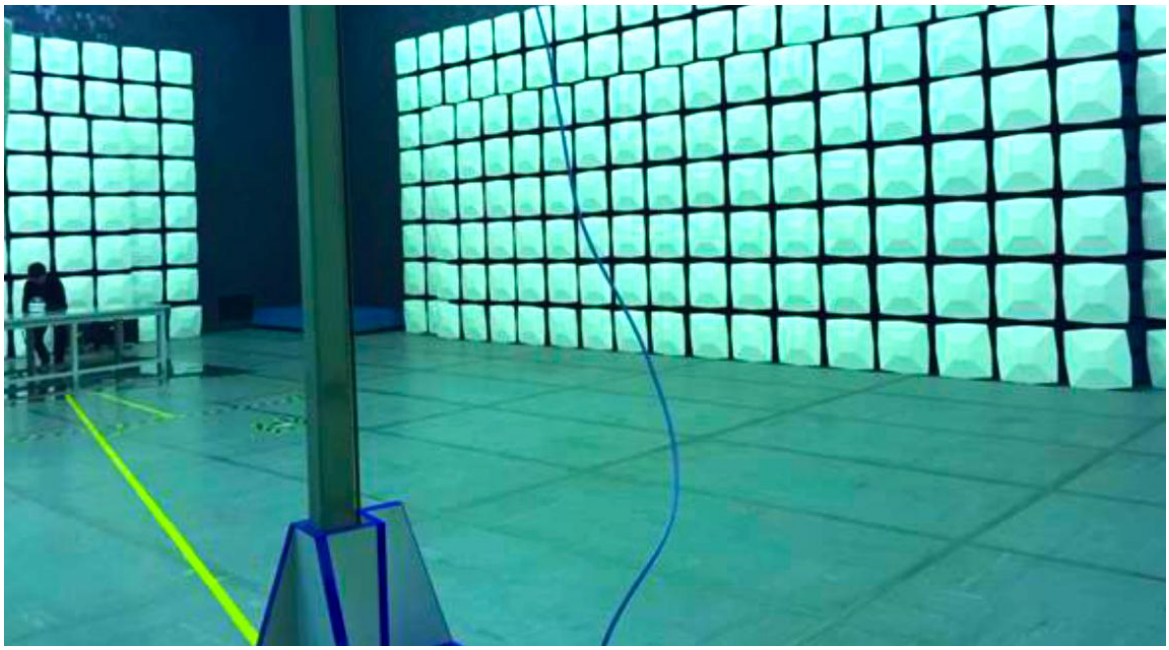
Test Result: **OK**

Category: High And Low Temperature ALT
Products: Mars Series Industrial Cameras
Lowest Temperature: -40℃
Highest Temperature: 80℃
Temperature Curve: 120℃/400s
Duration: 22days
Simulation argument:
6 years+ aging process

EMC Test

Test Result: **OK**

Category: EMC Test
Products: Mars Series Industrial Cameras
Test Standard: Class A



Surge Test

Test Result: **OK**

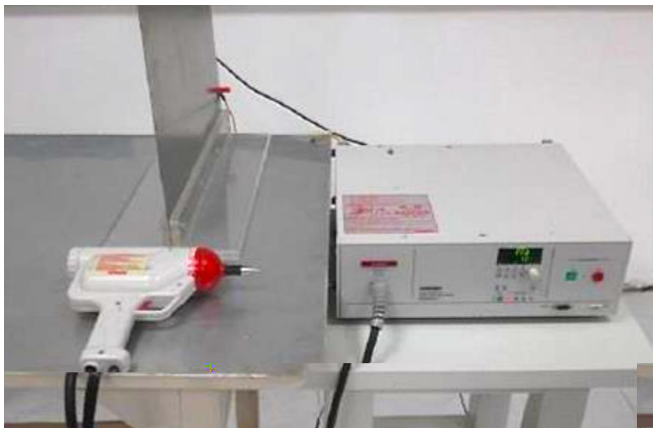
Category: Power Surge Test
Products: Mars Series Industrial Cameras
Test Structure: POE / DC
POE Surge Test Standard: 0.5kV common mode /0.5kV differential mode 10/700μs
DC Power Surge Test Standard:
1kV Common Mode 1.2/50μs
Simulation argument:
Power Surge Reliability

Electrostatic Discharge Test

Test Result: **OK**

Category: Shell Electrostatic Discharge Test
Products: Mars Series Industrial Cameras
Test Condition: 6kV

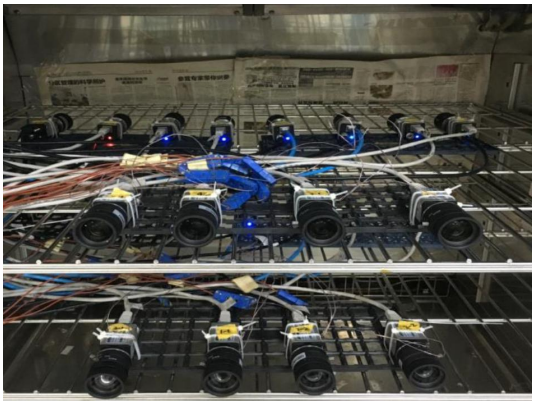
Simulation argument:
Electrostatic Discharge Test of Metal Shell



High and Low Temperature Test

Test Result: **OK**

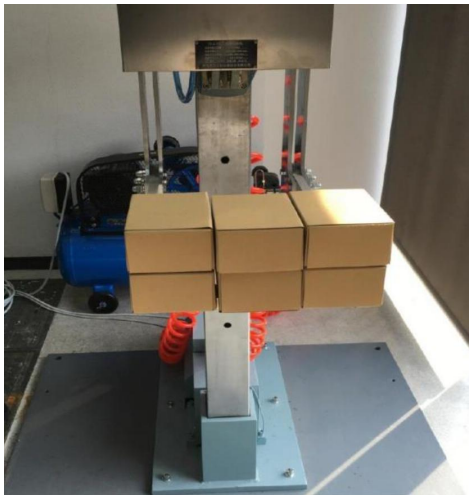
Category: High and Low Temperature Operating Test
Products: Mars Series Industrial Cameras
Lowest Operating Tem: -30℃
Highest Operating Tem: 50℃
Max Humidity：96%
High Tem Operating Duration: 48hours
Low Tem Operating Duration: 24hours
Simulation argument: Extreme Temperature Stability



Drop Test

Test Result: **OK**

Category: Drop Test
Products: Mars Series Industrial Cameras
Direction of motion: Free Fall
Distance: 1000mm
Contact way: 6 faces, 3 edges 1 corner
Simulation argument: Drop Reliability
Simulation result:Performance and Reliability Change



Acceleration Shock Test

Test Result: **OK**

Category: Shock Test
Products: Mars Whole Series
Axial Direction: 3 axles
Direction of motion: 6 Directions
Law of motion: Stochastic
Acceleration equivalent: 3G
Shocking
Duration: 24hours
Simulation argument:
Vibration stability

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