General Supplier Quality Agreement

1. Contract Partners

This Quality Agreement is concluded between:

Name of company
Street
City

Hereinafter referred to as **"SUPPLIER"**

And

Cognex Vision Inspection System Co., LTD

Hereinafter referred to as **"Cognex"**

2. Period of validity

This Quality Agreement is effective after the date of acceptance by both COGNEX and the SUPPLIER.

Without request for updating by one of the involved parties, this Quality Agreement is valid till further announcement, where after parties have to review and agree upon changes.

3. Content

3.1. Supplier Quality System

Suppliers shall maintain a documented quality management system that fulfills ISO 9001:2015 requirements or equivalent

3.2. Sustainability, Environment and Regulated Substances

Sustainability

Supplier has to obey local industry and international standards, and guarantee sustainability (such as, compliance to local labor law)

Environment

Supplier's manufacturing sites have environmental management systems according to latest edition of ISO14001 or equivalent.

Substance Management

Per Cognex request, the supplier shall provide evidence of compliance for products, raw materials and process materials including not limited to the latest EU/CH RoHS and REACH requirements, or equivalent. Data shall be not older than one year and has been measured by a third party accredited laboratory. Registration of this data must be provided to Cognex.

3.3 Early Supplier Involvement

Supplier should conduct in-depth study on product design and provide feedback on the manufacturability perspectives;

- Translating the customer drawing into Product CTQs and Process CTQs.
- Manufacturability evaluation for product structure, dimensions, cosmetics, and any other CTQ specifications;

3.4 Supplier responding to Cognex audit

Supplier shall response positively to any regular or ad-hoc audits from Cognex at any time.

Supplier shall provide corrective action plan to the audit findings and considerations within 2 weeks from final audit report release.

Supplier shall be proactive and provide weekly updates to corrective action status to the lead auditor. The findings cannot be closed until approval is given by lead auditor

3.5 Traceability

The supplier shall maintain a part traceability system capable of identifying production batches or even single parts in manufacturing and the supply chain. This system must include design, manufacturing and quality information including relevant material and process data.

This information must be made available to Cognex on request at any time.

3.5 Compliance with Cognex Part approval process

The supplier is responsible to conduct the proper quality planning prior to CPAP submission. Minimum CPAP requirements are:

1) Cognex latest drawings only with released Cognex part numbers
2) Supplier engineering drawing with dimension numbering
3) FAI/Functional Test Report: For mechanical parts which is dimension related; Functional Test Report will be necessary for optical and cable commodities
4) CTQ Definition
5) CPK study depending on part requirement
6) Process Flow Diagrams
7) Quality Control Plan
8) Gauge R&R Analysis
9) Reliability test
10) Golden sample (to be kept by supplier upon FA approval)
11) RoHS and REACH declaration and other per required, e.g. UL.
12) Master parameter list for key process
13) Process FMEA - Failure Modes and Effects (PFMEA).
14) Packaging
15) Shipping label.

3.6 Change control

No change is allowed without written approval from Cognex.

Written notification of the change shall be sent to the Cognex representative with the supporting data, as early as possible or not less than 1 year before the change takes place.

Changes include (but not limited to):

- Part design
- Change of material or its source
- Manufacturing process or technology
- Manufacturing site
- Change of source for sub-contracted parts
- Controls of CTQs
- In process testing

3.7 Reliability

Suppliers shall test the reliability of the parts as agreed in specification/drawing or according international industry standards.

Supplier shall monitor and analyze reliability testing results and inform Cognex immediately in case of abnormalities.

Warranty of parts reliability shall be discussed between Cognex and Supplier on the case to case.

3.8 Process Release

All suppliers shall have good knowledge of process/production quality control. The process capability requirements for all parts Critical to Quality (CTQ) parameters are defined below:

- Dimension related CTQ management follow Cpk guideline stated by Cognex.
- Process parameter CTQ management follows.
    1) Tracking record needs to be done for CTQs, such as process and production parameter.
    2) If SPC required, SPC judgement criterial follows standard defined in TS16949 clause for SPC.
- Function related CTQ management
    1) Tracking record needs to be done to monitor product function data.
    2) If SPC or Cpk required, SPC judgement criterial follows standard defined in TS16949 clause for SPC, CPK follow the above rules.
    3) 100% inspection done in process or before shipment.

3.9 Measurement System

GR&R must be done for all the measurement systems and updated timely, the acceptable criterial follows industry standard (P/T Ratio<30%). Any deviation will be subjected to Cognex approval.

Calibration must be done per national standard in timely manner.

3.10 Production Special Requirements

For different types of manufacturing processes, a whole range of special requirements can be applicable. Examples of these special requirements are:

- Temperature and humidity control
- Electro Static Discharge (ESD) protection
- EMI shielding requirement;
- Clean room conditions
- Etc.

In general, Cognex will follow industry standards, but may deviate when it is deemed necessary. In these cases, the supplier will be clearly notified.

3.11 Maintenance

All manufacturing processes require maintenance in one form or another. Cognex requires suppliers to have a preventive maintenance plan in place. Repair times are expected to be monitored, analyzed and reduced.

3.12 Hazardous material management

Any item or agent used in manufacturing process (biological, chemical, radiological, and/or physical), which has the potential to cause harm to humans, animals or the environment, shall be used and managed properly.

Shelf-life management:
Supplier needs to ensure shelf life management system is effectively executed.

The supplier shall conduct internal audits at planned intervals to record the audit results on whether the environmental management system is carrying out accordingly;

3.13 Overall quality target

The supplier shall achieve and maintain Q- score target set by Cognex supplier quality team per Cognex supplier score system.

- SCAR containment action shall be done within 48 hours, closure within 15 days
- Regular quality report shall be submitted per Cognex request
- Regularly audit shall be supported by suppliers

Cognex hold the authority to request supplier on any investment, where necessary, for the improvement of overall quality.

3.14 Reference documents

-Supplier Quality Manual

-Supplier audit operation procedure

-Supplier rating system

4. Signatures for Agreement

Date:	Date:
.....	.....
Company Supplier	Cognex
Title:	Title:
Name:	Name: