

STQC Ready Product Service

2026/02/09

Overview

Navigating India's Standardisation Testing and Quality Certification (STQC)



The Context

Definition: STQC is an initiative under the Ministry of Electronics and Information Technology (MeitY), Government of India.

Scope: Ensures compliance with Essential Requirements (ERs) including Physical hardware security, Access control, Firmware integrity, Cybersecurity features, Power safety, and Environmental reliability.

Market Reality: This certification is often mandatory for government tenders or public sector deployments in India.

The ACTi Advantage

Compliance: ACTi offers camera models fully capable of passing the STQC standard (firmware and hardware).

Business Model: Products offered under Semi-Knocked Down (SKD) and OEM Services.

The Result: Indian customers can re-brand these products, utilize the SKD process to add local value, and offer them as 'Made in India'.

Outcome: After rebranding, customers can successfully apply for STQC certification for their own branded models.

Features

High-Performance Specifications for Enterprise Deployments

- Wide range of STQC-Ready cameras
- Resolution up to 20MP
- Optical Zoom up to 40x
- IR Distance up to 250 meters
- Frame rate up to 120fps under 2MP mode
- PTZ models with up to 8MP and up to 40x
- Hemispheric models up to 12MP / Multi-Imager models up to 20MP
- Built-in Analytics (People/Vehicle detection, classification, recognition)
- High resolution Anti-Corrosion and Anti-Explosion models available.

Architectures

The SKD & OEM Partnership Workflow

Select Models

(Sales rep discusses
NRE, Pricing, MOQ)

Sign Agreement

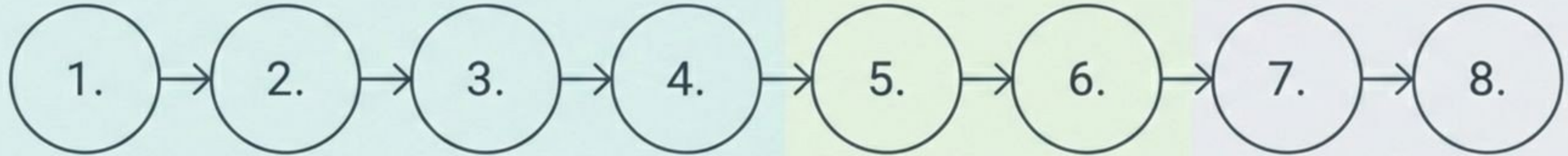
(Scope of Work)

Preparation

(Firmware
verification & Lab

STQC Application

(Administered by
Customer)



Select Models

(Sales rep
discusses NRE,
Pricing, MOQ)

Final Decision

(Target models
& Group
certification)

Sign Agreement

(Scope of
Work)

Initial Payment

(NRE Payment)

Preparation

(Firmware
verification &
Lab testing)

Facility Inspection

(Customer
assembly &
ACTi PCBA)

STQC Application

(Administered
by Customer)

Certification Publishing

(Gov of India
website)

Applications

Target Verticals for STQC-Compliant Solutions

Government & Military

Context: High security, border control, 'Made in India' mandate.

Key Tech: Long range IR (250m), High Optical Zoom (40x), Anti-Explosion models.



Critical Infrastructure (Utility/Data Center)

Context: Cybersecurity and physical hardening.

Key Tech: Cybersecurity features, Anti-Corrosion models.



Traffic Surveillance

Context: City-wide monitoring.

Key Tech: High frame rate (120fps), Vehicle detection analytics, LPR integration.



Public Transportation (Airport/Train)

Context: Crowd management and wide areas.

Key Tech: Multi-imager (20MP), Analytics for crowd management.

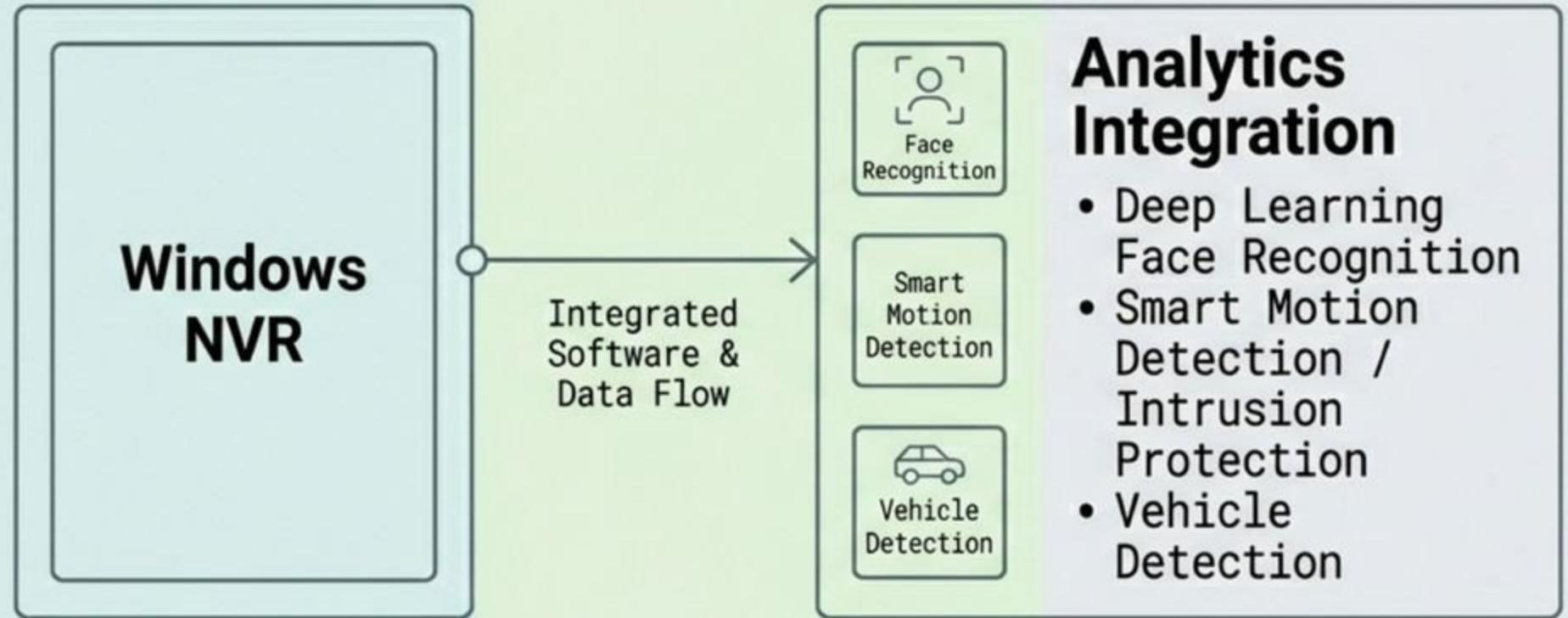


Solutions

Integrated Software and Recording Ecosystem

Windows NVR

- Software-based recording platform built on Microsoft Windows.
- Integrates with ACTi & 3rd party cameras.
- Scalable storage & Cybersecurity protections.



Product Introduction

Bullet Series (Fixed & Zoom)



Table 1: Product Matrix

Application Environment	Lens	Zoom Ratio	2MP	4MP	6MP	8MP
Outdoor	Fixed focal	-	Z327, L31, L31-P1	Z328, A313, L32, L32-P1	A314, L33, L33-P1	A315, L34, L34-P1
	Zoom	4.3x	L41	L42	L43	-
	Zoom	5x	-	A422	A423	A424

Table 2: Comparison

Model	A313	A314	A422	A423	L43
Type	Fixed Bullet	Fixed Bullet	Zoom Bullet	Zoom Bullet	Zoom Bullet
Max Resolution	4MP	6MP	4MP	6MP	6MP
Lens	Fixed, f2.8mm	Fixed, f2.8mm	Zoom, f2.7-13.5mm	Zoom, f2.7-13.5mm	Zoom, f2.8-12mm
Zoom Ratio	-	-	5x	5x	4.3x
IR LED	65m	65m	85m	85m	65m
Compression	H.265 Adaptive	H.265 Adaptive	H.265 Adaptive	H.265 Adaptive	H.265 Adaptive
Audio	-	-	2-way	2-way	2-way
Multi-Streaming	Quad	Quad	Quad	Quad	Triple
Analytics	Deep Learning	Deep Learning	Deep Learning	Deep Learning	Deep Learning
Weatherproof	IP68	IP68	IP68	IP68	IP68
Vandal proof	IK10	IK10	IK10	IK10	IK10
DI/DO	-	-	1/1	1/1	1/1

Product Introduction

Dome & Turret Series



Table 1: Product Matrix

Product Type	Application	Lens	Zoom Ratio	2MP	4MP	6MP	8MP
Fixed Dome	Outdoor	Fixed focal	-	Z915	Z916, A76	A77	A78
Zoom Dome	Outdoor	Zoom	5x	-	A820	A821	A822
Fixed Turret	Outdoor	Fixed focal	-	Z57	-	-	-

Table 2: Comparison

Model	A76	A77	A820	A821
Type	Outdoor Fixed Dome	Outdoor Fixed Dome	Outdoor Zoom Dome	Outdoor Zoom Dome
Max Resolution	4MP	6MP	4MP	6MP
Lens	Fixed, f2.8mm	Fixed, f2.8mm	Zoom, f2.7-13.5mm	Zoom, f2.7-13.5mm
Zoom Ratio	-	-	5x	5x
IR LED	65m	65m	85m	85m
Compression	H.265 Adaptive	H.265 Adaptive	H.265 Adaptive	H.265 Adaptive
Audio	2-way	2-way	2-way	2-way
Multi-Streaming	Quad	Quad	Quad	Quad
Analytics	Deep Learning	Deep Learning	Deep Learning	Deep Learning
Weatherproof	IP68	IP68	IP68	IP68
Vandal proof	IK10	IK10	IK10	IK10
DI/DO	1/1	1/1	1/1	1/1

Product Introduction

PTZ Series



Table 1: Product Matrix

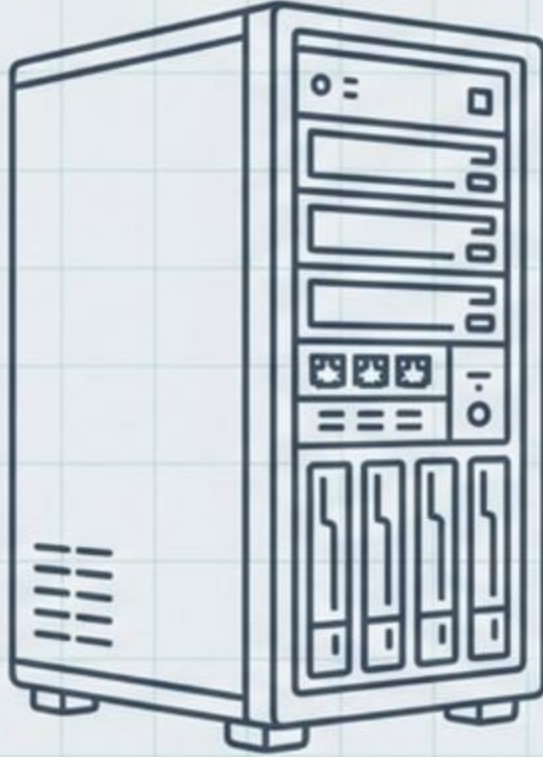
Product Type	Application	Lens	Zoom Ratio	5MP
PTZ	Outdoor	Zoom	33x	A967

Table 2: Comparison

Model	A967
Type	Outdoor PTZ
Max Resolution	5MP
Lens	Zoom, f5.9-194.7mm
IR LED	250m
Compression	H.265 Adaptive Stream
Audio	2-way
Multi-Streaming	Quad streams
PTZ Feature	PTZ Auto Tracking
Analytics	Deep Learning, Smart Motion, Smart Intrusion
Weatherproof	IP66
Vandal proof	IK10
DI/DO	2/1

Product Introduction

Network Video Recorders (NVR)



Windows NVR

A software-based recording platform built on Microsoft Windows. Ideal for India requiring STQC compliance due to flexible video management and integration capabilities.

Key Capabilities:

- Multi-channel recording
- Scalable storage options
- Cybersecurity protections
- Integration with ACTi and third-party cameras

Available Models:

- NVR 3 Business
- NVR 3 Corporate
- Access Control Smart Server

Summary

Key Takeaways for System Integrators



01

Compliance

Full support for India STQC standards (Physical, Cyber, Environmental) and 'Made in India' branding via SKD/OEM.



02

Performance

Access to top-tier specifications including 20MP resolution, 40x Optical Zoom, 120fps, and Deep Learning Analytics.



03

Support

A defined 8-step architecture guides partners from model selection to final Government certification publishing.



04

Ecosystem

A unified solution comprising Cameras, Windows NVR, and Intelligent Analytics ready for deployment in critical projects.

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