



State of Rhode Island Department of Administration
Division of Purchases

REVISED
November 20, 2013

NOTICE TO VENDORS

Each bid proposal for a *public works project* must include a "public copy" to be available for public inspection upon the opening of bids. **Bid proposals that do not include a copy for public inspection will be deemed nonresponsive.**

The public copy must be submitted in .pdf (portable document file) format on a *read-only* CD-R media disc. The disc must include *all of the documents* submitted in response to the solicitation concatenated or merged into one file. The file must be named in the following manner:

BidNumber_DateofBid_VendorName_VendorID.pdf

The Bidder Certification Cover Form contains all of the information for the file name. The date of bid must appear as mm-dd-yyyy. The vendor name must appear as one word, with no spaces or punctuation. Underscores must separate the fields.

Example: 7543210_11-08-2013_OceanStateCompanyInc_9867.pdf

The public copy disc must be separately enclosed in a protective cover clearly marked "Public Copy" and include the following information (all available from the Bidder Certification Cover Form): (1) title of solicitation; (2) name of bidder and RIVIP vendor ID number; (3) bid number; and (4) date of bid.

The public copy may redact any trade secrets or commercial or financial information which is of a privileged or confidential nature pursuant to the "Access to Public Records Act," R. I. Gen. Laws §§ 38-2-1 *et seq.*

For further information on how to comply with this statutory requirement, see R. I. Gen. Laws §§ 37-2-18(b) and (j). Also see Procurement Regulation 5.11 accessible at www.purchasing.ri.gov

State of Rhode Island and Providence Plantations
Department of Administration
Division of Purchases

RIVIP BIDDER CERTIFICATION COVER FORM

SECTION 1 - BIDDER INFORMATION

Bidder must be registered as a vendor on the RIVIP system at www.purchasing.ri.gov to submit a bid proposal.

Solicitation Number: 7549583A3
Solicitation Title: SECURITY CAMERA SYSTEM FOR MAXIMUM SECURITY - ADDENDUM 3 (3 PGS)

**Bid Proposal Submission
Deadline Date & Time:** 12/4/2015 10:00 AM

RIVIP Vendor ID #: 2450
Bidder Name: Shanix, Inc.
Address: 40 Worthington Road
Cranston , RI 02920-7940
USA

Telephone: (401) 941-4222
Fax: (401) 941-4333
Contact Name: Mustapha Gharaee
Contact Title: Vice President
Contact Email: mustapha@shanix.com

SECTION 2 —DISCLOSURES

Bidders must respond to every statement. Bid proposals submitted without a complete response may be deemed nonresponsive.

Indicate "Y" (Yes) or "N" (No) for Disclosures 1-4, and if "Yes," provide details below. Complete Disclosure 5. If the Bidder is publicly held, the Bidder may provide owner information about only those stockholders, members, partners, or other owners that hold at least 10% of the record or beneficial equity interests of the Bidder.

- N 1. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has been subject to suspension or debarment by any federal, state, or municipal governmental authority, or the subject of criminal prosecution, or convicted of a criminal offense within the previous 5 years. If "Yes," provide details below.
- N 2. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has had any contracts with a federal, state, or municipal governmental authority terminated for any reason within the previous 5 years. If "Yes," provide details below.
- N 3. State whether the Bidder, or any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder or any parent, subsidiary, or affiliate has been fined more than \$5000 for violation(s) of any Rhode Island environmental law(s) by the Rhode Island Department of Environmental Management within the previous 5 years. If "Yes," provide details below.

- N 4. State whether any officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder is serving or has served within the past two calendar years as either an appointed or elected official of any state governmental authority or quasi-public corporation, including without limitation, any entity created as a legislative body or public or state agency by the general assembly or constitution of this state.
5. List each officer, director, manager, stockholder, member, partner, or other owner or principal of the Bidder, and each intermediate parent company and the ultimate parent company of the Bidder. For each individual, provide his or her name, business address, principal occupation, position with the Bidder, and the percentage of ownership, if any, he or she holds in the Bidder, and each intermediate parent company and the ultimate parent company of the Bidder.

Disclosure details (continue on additional sheet if necessary):

Kekin A Shah	Don Volino
President	General Director
40 Worthington Road Cranston, RI 02920	40 Worthington Road Cranston, RI 02920
401-941-4222	401-941-4222
Mustapha Gharaee	
Vice President	
40 Worthington Road Cranston, RI 02920	
401-941-4222	

SECTION 3 —CERTIFICATIONS

Bidders must respond to every statement. Bid proposals submitted without a complete response may be deemed nonresponsive.

Indicate "Y" (Yes) or "N" (No), and if "No," provide details below.

THE BIDDER CERTIFIES THAT:

- Y 1. The Bidder will immediately disclose, in writing, to the State Purchasing Agent any potential conflict of interest which may occur during the term of any contract awarded pursuant to this solicitation.
- Y 2. The Bidder possesses all licenses and anyone who will perform any work will possess all licenses required by applicable federal, state, and local law necessary to perform the requirements of any contract awarded pursuant to this solicitation and will maintain all required licenses during the term of any contract awarded pursuant to this solicitation. In the event that any required license shall lapse or be restricted or suspended, the Bidder shall immediately notify the State Purchasing Agent in writing.
- Y 3. The Bidder will maintain all required insurance during the term of any contract pursuant to this solicitation. In the event that any required insurance shall lapse or be canceled, the Bidder will immediately notify the State Purchasing Agent in writing.
- Y 4. The Bidder understands that falsification of any information in this bid proposal or failure to notify the State Purchasing Agent of any changes in any disclosures or certifications in this Bidder Certification may be grounds for suspension, debarment, and/or prosecution for fraud.
- Y 5. The Bidder has not paid and will not pay any bonus, commission, fee, gratuity, or other remuneration to any employee or official of the State of Rhode Island or any subdivision of the State of Rhode Island or other governmental authority for the purpose of obtaining an award of a contract pursuant to this solicitation. The Bidder further certifies that no bonus, commission, fee, gratuity, or other remuneration has been or will be received from any third party or paid to any third party contingent on the award of a contract pursuant to this solicitation.
- Y 6. This bid proposal is not a collusive bid proposal. Neither the Bidder, nor any of its owners, stockholders, members, partners, principals, directors, managers, officers, employees, or agents has in any way colluded, conspired, or agreed, directly or indirectly, with any other bidder or person to submit a collusive bid proposal in response to the solicitation or to refrain from submitting a bid proposal in response to the solicitation, or has in any manner, directly or indirectly, sought by agreement or collusion or other communication with any other bidder or person to fix the price or prices in the bid proposal or the bid proposal of any other bidder, or to fix any overhead, profit, or cost component of the bid price in the bid proposal or the bid proposal of any other bidder, or to secure through any collusion, conspiracy, or unlawful agreement any advantage against the State of Rhode Island or any person with an interest in the contract awarded pursuant to this solicitation. The bid price in the bid proposal is fair and proper and is not tainted by any collusion, conspiracy, or unlawful agreement on the part of the Bidder, its owners, stockholders, members, partners, principals, directors, managers, officers, employees, or agents.
- Y 7. The Bidder: (i) is not identified on the General Treasurer's list created pursuant to R.I. Gen. Laws § 37-2.5-3 as a person or entity engaging in investment activities in Iran described in § 37-2.5-2(b); and (ii) is not engaging in any such investment activities in Iran.
- Y 8. The Bidder will comply with all of the laws that are incorporated into and/or applicable to any contract with the State of Rhode Island.

Solicitation #: 7549583

Solicitation Title: SECURITY CAMERA SYSTEM FOR MAXIMUM SECURITY

BID FORM

To: The State of Rhode Island Department of Administration
Division of Purchases, 2nd Floor
One Capitol Hill, Providence, RI 02908-5855

Bidder: Shanix, Inc.
Legal name of entity
40 Worthington Road Cranston, RI 02920
Address (street/city/state/zip)
Mustapha Gharaee mustapha@shanix.com
Contact name Contact email
401-941-4222 401-941-4333
Contact telephone Contact fax

1. BASE BID PRICE

The Bidder submits this bid proposal to perform all of the work (including labor and materials) described in the solicitation for this Base Bid Price (*including the costs for all Allowances, Bonds, and Addenda*):

\$ 1,975,190.00

(base bid price *in figures* printed electronically, typed, or handwritten legibly in ink)

One Million Nine Hundred Seventy Five Thousand One Hundred Ninety Dollars

(base bid price *in words* printed electronically, typed, or handwritten legibly in ink)

- **Allowances**

N/A

- **Bonds**

The Base Bid Price ***includes*** the costs for all Bid and Payment and Performance Bonds required by the solicitation.

- **Addenda**

The Bidder has examined the entire solicitation (including the following Addenda), and the Base Bid Price ***includes*** the costs of any modifications required by the Addenda.

Solicitation #: 7549583
Solicitation Title: SECURITY CAMERA SYSTEM FOR MAXIMUM SECURITY

All Addenda must be acknowledged.

Addendum No. 1 dated: 10/7/2015

Addendum No. 2 dated: 10/27/2015

Addendum No. 3 dated: 11/18/2015

Addendum No. 4 dated: _____

Addendum No. 5 dated: _____

Addendum No. 6 dated: _____

2. **ALTERNATES** (Additions/Subtractions to Base Bid Price)

N/A

Alternate No. 1: ADD \$46,000.00

Alternate No. 2: ADD \$105,000.00

3. **UNIT PRICES**

The Bidder submits these predetermined Unit Prices as the basis for any change orders approved in advance by the State. These Unit Prices include **all** costs, including labor, materials, services, regulatory compliance, overhead, and profit.

Unit Price No. 1: Provide a fixed 5.0 mega-pixel I.P camera, housing and

250 feet of CAT 6 cable terminated at each end, labeled

and tested, including license.

\$ 2,000.00

Unit Price No. 2: Provide a P.T.Z. I.P. camera, housing and 250 feet of

CAT 6 cable and a 2/C#14 power cable terminated at

each end, labeled and tested, including license.

\$ 4,550.00

Solicitation #: 7549583

Solicitation Title: SECURITY CAMERA SYSTEM FOR MAXIMUM SECURITY

Unit Price No. 3: Provide a 3.0 mega-pixel I.P. camera, housing and 250 feet of CAT 6 terminated at each end, labeled and tested, including license.

\$ 1,850.00

Unit Price No. 4: Provide a network video recording server and 250 feet of CAT 6 cable terminated at each end, labeled and tested

\$ 42,000.00

Unit Price No. 5: Provide an additional network switch

\$ 5,950.00

Unit Price No. 6: Provide a viewer work station including tower, hardware and software per specifications, a 27 inch monitor, license, data jack and 250 feet of CAT 6 cable terminated at each end, labeled and tested

\$ 7,250.00

4. **CONTRACT TIME**

The Bidder offers to perform the work in accordance with the timeline specified below:

- Start of construction: Upon Receipt of Purchase Order
- Substantial completion: 120 Days from receipt of Purchase Order
- Final completion: 180 Days From Notice to Proceed

Solicitation #: 7549583

Solicitation Title: SECURITY CAMERA SYSTEM FOR MAXIMUM SECURITY

5. LIQUIDATED DAMAGES

The successful bidder awarded a contract pursuant to this solicitation shall be liable for and pay the State, as liquidated damages and not as a penalty, the following amount for each calendar day of delay beyond the date for substantial completion, as determined in the sole discretion of the State: \$ 250.

If the contractor completes the project in less than 180 days, to the satisfaction of the owner and engineer, the contractor will be awarded \$100 for each day the project is complete before the 180 days.

This bid proposal is irrevocable for 60 days from the bid proposal submission deadline.

If the Bidder is determined to be the successful bidder pursuant to this solicitation, the Bidder will promptly: (i) comply with each of the requirements of the Tentative Letter of Award; and (ii) commence and diligently pursue the work upon issuance and receipt of the purchase order from the State and authorization from the user agency.

The person signing below certifies that he or she has been duly authorized to execute and submit this bid proposal on behalf of the Bidder.

BIDDER

Date: 12/3/2015

Shanix, Inc.
Name of Bidder

Signature in ink
Mustapha Gharaee, Vice President
Printed name and title of person signing on behalf of Bidder

Bidder's Contractor Registration Number



State of Rhode Island
Department of Administration / Division of Purchases
One Capitol Hill, Providence, Rhode Island 02908-5855
Tel: (401) 574-8100 Fax: (401) 574-8387

BID 7549583
SECURITY SYSTEM FOR MAXIMUM SECURITY
ADDITIONAL INFORMATION

Per RIGL 5-70-5, that bidder's RI Telecommunications Contractor's license number is # 1920 _____ for installation of video and data systems. Also, provide the following items to be included with this bid.

1. A licensed RI Telecommunications Technician who will be directly involved in this project.
2. A licensed RI Electrical Contractor who will be directly involved in this project shall be identified in the Bid along with his Electrical Contractor's License Number.

Company Name: Rossi Electric

License Number: 2401

3. Include with the bid, a current letter from Genetec, on Genetec letterhead, that the bidding contractor is certified to install and service Genetec's products including the Omnicast and Security Center platform.
4. The bidding contractor must employ a RCDD and RCDD/NTS specialist. Include with the bid, a current and valid RCDD and RCDD/NTS certificate from BICSI.
5. The bidding contractor shall employ at least three (3) current employees who are certified by Genetec in the Omnicast platform. Provide certificates on Genetic letterhead with the bid.

CELL PHONES ARE NOT PERMITTED IN SECURED AREAS



RI Department of Labor and Training
Workforce Regulation and Safety Division
Professional Regulation - Prevailing Wage

General Contractor Apprenticeship Certification Form

This form **MUST** be completed and submitted at the time of bidding and is available on the Department of Labor and Training's Website at www.dlt.ri.gov, under Workforce Regulation and Safety, Prevailing Wage, Publications and Forms.

Bid/RFP Number: 7549583

Bid/RFP Title: Security Camera System for Maximum Security

RIVIP Vendor ID#: 2450

Vendor Name: Shanix, Inc.

Address: 40 Worthington Road Cranston, RI 02920

Telephone: 401-941-4222

Fax: 401-941-4333

E-Mail: mustapha@shanix.com

Contact Person and Title: Mustapha Gharaee, Vice President

Shanix, Inc. located at 40 Worthington Road Cranston, RI 02920 (Company Name & Address) (hereafter "bidder") hereby certifies that bidder meets the general contractor apprenticeship requirements of R. I. Gen. Laws § 37- 13- 3.1 because bidder meets one of the following qualifications (check):

- A. Bidder sponsors a current and duly approved Rhode Island Department of Labor and Training Apprenticeship Program and currently employs at least one apprentice per trade/occupation, who will obtain "on the job training" experience in the apprentice's trade by performing on the contract (attach apprenticeship program standards and apprenticeship agreement);
- B. Bidder sponsors a current and duly registered Rhode Island Department of Labor and Training reciprocal apprenticeship program pursuant to R. I. Gen. Laws § 28-45-16 and currently employs at least one apprentice per trade/occupation, who will obtain "on the job training" experience in the apprentice's trade by performing work on the contract (attach apprenticeship program standards, apprenticeship agreement and Rhode Island Department of Labor and Training Reciprocal Apprenticeship Program Approval);

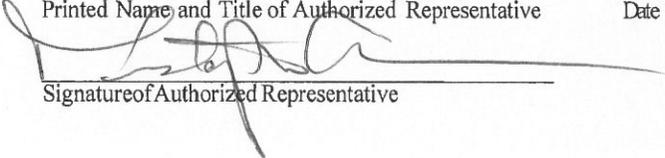
- C. N Bidder has entered into a current collective bargaining agreement with a duly approved Rhode Island Department of Labor and Training Apprenticeship Program sponsor and, pursuant to the terms of the collective bargaining agreement, will employ at least one apprentice per trade/occupation, who will obtain "on the job training" experience in the apprentice's trade by performing work on the contract (attach relevant section of collective bargaining agreement and signature page);
- D. N Bidder has entered into a current labor agreement with a duly approved Rhode Island Department of Labor and Training Apprenticeship Program sponsor and, pursuant to the terms of the labor agreement, will employ at least one apprentice per trade/occupation, who will obtain "on the job training" experience in the apprentice's trade by performing work on the contract (attach relevant section of labor agreement and signature page);
- E. N Bidder will not perform work on the awarded contract except through subcontractors (non performance);
- F. N Bidder has received approval from the Rhode Island Department of Labor and Training that it satisfies the general contractor requirements of R. I. Gen. Laws §37-13-3.1 for purposes of a particular bid (attach Rhode Island Department of Labor and Training correspondence).

Mustapha Gharaee, Vice President

12/3/2015

Printed Name and Title of Authorized Representative

Date


Signature of Authorized Representative



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
151I Pontiac Avenue
Cranston, RI 02920-4407

Telephone: (401) 462-8000
TTY: Via RI Relay 711

Lincoln D. Chafee
Governor

Charles J. Fogarty
Director

13. Comply with all applicable provisions of RIGL §37-13-1, et. seq;

Any questions or concerns regarding this CONTRACT ADDENDUM should be addressed to the contractor or subcontractor's attorney. Additional Prevailing Wage information may be obtained from the Department of Labor and Training at www.dlt.ri.gov/pw.

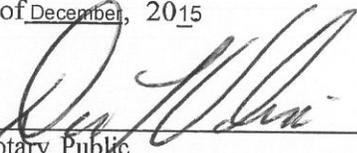
CERTIFICATION

I hereby certify that I have reviewed this CONTRACT ADDENDUM and understand my obligations as stated above.

By: Mustapha Gharraee

Title: Vice President

Subscribed and sworn before me this 3rd day of December, 2015


Notary Public
My commission expires: 5/5/2018



An Equal Opportunity Employer/Program, /Auxiliary aids and services are available upon request to individuals with disabilities.

TTY via RI Relay 711

State of Rhode Island
PAYER'S REQUEST FOR TAXPAYER
IDENTIFICATION NUMBER AND CERTIFICATION

THE IRS REQUIRES THAT YOU FURNISH YOUR TAXPAYER IDENTIFICATION NUMBER TO US. FAILURE TO PROVIDE THIS INFORMATION CAN RESULT IN A \$50 PENALTY BY THE IRS. IF YOU ARE AN INDIVIDUAL, PLEASE PROVIDE US WITH YOUR SOCIAL SECURITY NUMBER (SSN) IN THE SPACE INDICATED BELOW. IF YOU ARE A COMPANY OR A CORPORATION, PLEASE PROVIDE US WITH YOUR EMPLOYER IDENTIFICATION NUMBER (EIN) WHERE INDICATED.

Taxpayer Identification Number (T.I.N.)

Enter your taxpayer identification number in the appropriate box. For most individuals, this is your social security number.

Social Security No. (SSN)

Employer ID No. (EIN)

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05	0399282
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NAME Shanix, Inc:

ADDRESS 40 Worthington Road

(REMITTANCE ADDRESS, IF DIFFERENT) _____

CITY, STATE AND ZIP CODE Cranston, RI 02920

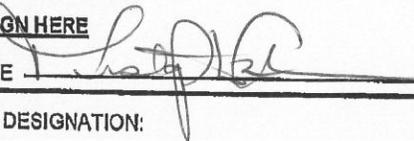
CERTIFICATION: Under penalties of perjury, I certify that:

- (1) The number shown on this form is my correct Taxpayer Identification Number (or I am waiting for a number to be issued to me), and
- (2) I am not subject to backup withholding because either: (A) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (B) the IRS has notified me that I am no longer subject to backup withholding.

Certification Instructions - You must cross out item (2) above if you have been notified by the IRS that you are subject to backup withholding because of under-reporting interest or dividends on your tax return. However, if after being notified by IRS that you were subject to backup withholding you received another notification from IRS that you are no longer subject to backup withholding, do not cross out item (2).

PLEASE SIGN HERE

SIGNATURE



TITLE Vice President

DATE 12/3/2015

TEL NO. 401-941-4222

BUSINESS DESIGNATION:

- Please Check One: Individual Medical Services Corporation Government/Nonprofit Corporation
Partnership Corporation Trust/Estate Legal Services Corporation

NAME: Be sure to enter your full and correct name as listed in the IRS file for you or your business.

ADDRESS, CITY, STATE AND ZIP CODE: Enter your primary business address and remittance address if different from your primary address. If you operate a business at more than one location, adhere to the following:

- 1) Same T.I.N. with more than one location -- attach a list of location addresses with remittance address for each location and indicate to which location the year-end tax information return should be mailed.
- 2) Different T.I.N. for each different location -- submit a completed W-9 form for each T.I.N. and location. (One year-end tax information return will be reported for each T.I.N. and remittance address.)

CERTIFICATION -- Sign the certification, enter your title, date, and your telephone number (including area code and extension).

BUSINESS TYPE CHECK-OFF -- Check the appropriate box for the type of business ownership.

Mail to: Supplier Coordinator, One Capitol Hill, Providence, RI 02908

Selective Insurance Company of America
40 Wantage Avenue
Branchville, New Jersey 07890
973-948-3000

B 1167067

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That **Shanix, Inc. d/b/a Shanix Technologies, Inc.**

40 Worthington Road Cranston, RI 02920 (hereinafter called the Principal)
as Principal, and the **SELECTIVE INSURANCE COMPANY OF AMERICA**, a corporation created and existing under the laws of the State of New Jersey, with its principal office in Branchville, New Jersey (hereinafter called the Surety), as Surety,

are held and firmly bound unto **Rhode Island Department of Corrections**
10 Garvey Road Cranston, RI 02920

(hereinafter called the Obligee)

in the full and just sum of **5 % Percent of the Total Bid Amount**
(**5%**), good and lawful money of the United States of America, to the payments of which sum of money well and truly to be made, the said Principal and Surety bind themselves, their and each of their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this **2nd** day of **December** A.D. **2015** .

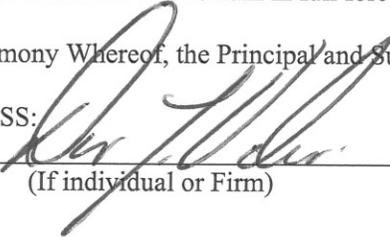
THE CONDITION OF THIS OBLIGATION IS SUCH, That, if the Obligee shall make any award within 60 days to the Principal for

Install Security Camera System for Maximum Security

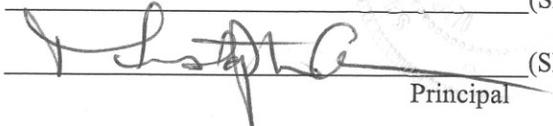
according to the terms of the proposal or bid made by the Principal therefor, and the Principal shall duly make and enter into a contract with the Obligee in accordance with the terms of said proposal or bid and award and shall give bond for the faithful performance thereof with Surety or Sureties approved by the Obligee; or if the Principal shall, in case of failure so to do, pay to the Obligee the damages which the Obligee may suffer by reason of such failure, not exceeding the penalty of this bond, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect.

In Testimony Whereof, the Principal and Surety have caused these presents to be duly signed and sealed.

WITNESS:



(If individual or Firm)

Shanix, Inc. d/b/a Shanix Technologies, Inc.
40 WORTHINGTON ROAD (SEAL)
CRANSTON, RI 02920 (SEAL)


Principal

ATTEST:



(If Corporation)

SELECTIVE INSURANCE COMPANY OF AMERICA

By:



Attorney-in-Fact
Paul J. Damiano

ACKNOWLEDGMENT OF PRINCIPAL
(Individual or Partnership)

STATE OF _____ }
COUNTY OF _____ } ss:

On this _____ day of _____, _____, before me personally appeared the above named _____

to me known and known to me to be the same described in and who executed the above instrument and dully acknowledged the execution of the same.

Notary Public _____ County

(Corporation)

STATE OF _____ }
COUNTY OF _____ } ss:

On this _____ day of _____, _____, before me personally appeared _____

to me known, who, being by me duly sworn, did depose and say that he/she resides in _____

that he/she is the _____ of _____
the corporation described in and which executed the foregoing instrument; that he/she knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was affixed by order of the Board of Directors of said corporation and that he/she signed his/her name thereto by like order.

Notary Public _____ County

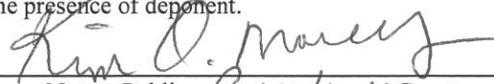
ACKNOWLEDGMENT OF SURETY

STATE OF Rhode Island }
COUNTY OF Providence } ss:

On this 2ND day of DECEMBER, 2015, before me personally appeared Paul J. Damiano to me known, who, being by me

duly sworn, did depose and say that he/she resides in _____
that he/she is the Attorney-in-Fact of the
Selective Insurance Company of America

the corporation described in and which executed the foregoing instrument; that he/she knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he/she signed his/her name thereto by like order; and deponent further says that he/she is acquainted with Paul J. Damiano and knows him/her to be the Attorney-in-Fact subscribed to the within instrument is in the genuine handwriting of the said Paul J. Damiano and was subscribed thereto by like order of the Board of Directors in the presence of deponent.



Notary Public Providence County

Kim D. Morey
Notary Public
My Commission Expires 11/16/16



SELECTIVE®

Selective Insurance Company of America
40 Wantage Avenue
Branchville, New Jersey 07890
973-948-3000

BondNo.B 1167067

POWER OF ATTORNEY

Public Bid

SELECTIVE INSURANCE COMPANY OF AMERICA, a New Jersey corporation having its principal office at 40 Wantage Avenue, in Branchville, State of New Jersey ("SICA"), pursuant to Article VII, Section 1 of its By-Laws, which state in pertinent part:

The Chairman of the Board, President, Chief Executive Officer, any Executive Vice President, any Senior Vice President or any Corporate Secretary may, from time to time, appoint attorneys in fact, and agents to act for and on behalf of the Corporation and they may give such appointee such authority, as his/her certificate of authority may prescribe, to sign with the Corporation's name and seal with the Corporation's seal, bonds, recognizances, contracts of indemnity and other writings obligatory in the nature of a bond, recognizance or conditional undertaking, and any of said Officers may, at any time, remove any such appointee and revoke the power and authority given him/her.

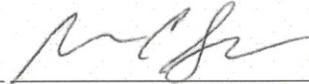
does hereby appoint **Paul J. Damiano**

, its true and lawful attorney(s)-in-fact, full authority to execute on SICA's behalf fidelity and surety bonds or undertakings and other documents of a similar character issued by SICA in the course of its business, and to bind SICA thereby as fully as if such instruments had been duly executed by SICA's regularly elected officers at its principal office, in amounts or penalties not exceeding the sum of: **One Million Eight Hundred Thousand Dollars (\$1,800,000.00)**

Signed this 2nd day of December, 2015

SELECTIVE INSURANCE COMPANY OF AMERICA

By:


Brian C. Sarisky
Its Executive VP, Head of Specialty Insurance



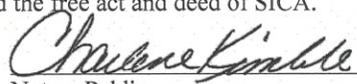
STATE OF NEW JERSEY :

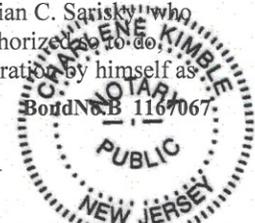
:ss. Branchville

COUNTY OF SUSSEX :

On this 2nd day of December, 2015 before me, the undersigned officer, personally appeared Brian C. Sarisky, who acknowledged himself to be the Vice President of SICA, and that he, as such Vice President, being authorized to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the corporation by himself as Vice President and that the same was his free act and deed and the free act and deed of SICA.

Charlene Kimble
Notary Public of New Jersey
My Commission Expires 6/2/2016


Notary Public



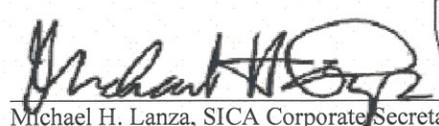
The power of attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of SICA at a meeting duly called and held on the 6th of February 1987, to wit:

"RESOLVED, the Board of Directors of Selective Insurance Company of America authorizes and approves the use of a facsimile corporate seal, facsimile signatures of corporate officers and notarial acknowledgements thereof on powers of attorney for the execution of bonds, recognizances, contracts of indemnity and other writing obligatory in the nature of a bond, recognizance or conditional undertaking."

CERTIFICATION

I do hereby certify as SICA's Corporate Secretary that the foregoing extract of SICA's By-Laws and Resolutions is true in force and effect and this Power of Attorney issued pursuant to and in accordance with the By-Laws is valid.

Signed this 2nd day of December, 2015.


Michael H. Lanza, SICA Corporate Secretary



Important Notice: If the bond number embedded within the Notary Seal does not match the number in the upper right-hand corner of this Power of Attorney, contact us at 973-948-3000.

CERTIFIED COPY



STATE OF RHODE ISLAND
CONTRACTORS' REGISTRATION
AND LICENSING BOARD

REGISTRANT'S NAME
SHANIX, INC.

AUTHORIZED REPRESENTATIVE
DON T VOLINO

DRIVER'S LICENSE #
RI 7043056

REGISTRATION NO.

36353

EXP DATE

12/1/16

EXECUTIVE DIRECTOR

Larry A. Weber



STATE OF RHODE ISLAND
CONTRACTORS' REGISTRATION
AND LICENSING BOARD

REGISTRANT'S NAME
SHANIX, INC.

AUTHORIZED REPRESENTATIVE
KEKIM A SHAH

DRIVER'S LICENSE #
RI 7513939

REGISTRATION NO.

36353

EXP DATE

12/1/16

EXECUTIVE DIRECTOR

Larry A. Weber

State of Rhode Island and Providence Plantations
Rhode Island Department of Labor and Training

TELECOM SYS CONTRACT DATA TSC

VIDEO TSC

TELEP TSC

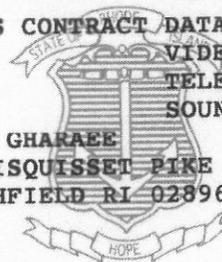
SOUND TSC

LIC# 1920

MUSTAPHA GHARAEI

40 OLD LOUISQUISSET PIKE #1204L

NORTH SMITHFIELD RI 02896



JOHN SHAW
Administrator

07/31/2016
Expiration Date

**PHOTO I.D. REQUIRED
WITH THIS LICENSE**

Not valid without signature.

If found, please return to:

DLT, 1511 Pontiac Avenue, Cranston, RI 02920-0943

Ph: (401) 462-8580

www.dlt.ri.gov/proffregs

TELECOMM CORPORATION DATA TSC
SOUND TSC
VIDEO TST
TELEP TST

LIC# 2401

ROSSI ELECTRIC CO INC
SCOTT F MALONE
65 WESTERN INDUSTRIAL DRIVE
CRANSTON RI 02921



JOHN SHAW
Administrator

09/30/2015
Expiration Date

State of Rhode Island and Providence Plantations
Rhode Island Department of Labor and Training

TELECOM TECHNICIAN DATA TST
VIDEO TST

LIC# 5542

DUSTIN H ECKERL

77 JOHN STREET

WARWICK RI 02889



Dustin H. Eckert

A Administrator

02/28/2012

Expiration Date

Rhode Island Department of Labor and Training
Division of Workforce Regulation and Safety

TELECOM TECHNICIAN DATA TST
TELECOM SYS APPRENT VIDEO TST
SHANIX INC TELEP TST
LIC# 5261
PIERRE G DORVAL
94 LAKE STREET
CRANSTON RI 02910

Arnold R. Andrews
Administrator

05/31/2013
Expiration Date

National Minority Supplier Development Council (NMSDC)

Certifies that

Shanix Inc.

is a bona fide Minority Business Enterprise certified by the:
Greater New England Minority Supplier Development
Council

NAICS Code(s): 238210, 541512, 561621, 561622

Shanix Inc. has chosen to obtain **SUBSCRIPTION SERVICES** with the following NMSDC Affiliate(s):



Joset Wright-Lacy

09/30/2006

Issued Date

07/01/2016

Expiration Date

GN006515

Certificate Number

President, Greater New England MSDC

National Minority Supplier Development Council, Inc.
1359 Broadway, 10th Floor, Suite 1000
New York, NY 10018

Visit NMSDC Compliance Portal Powered by PRISM Compliance Management to validate this certificate and learn more about Shanix Inc.

Building Industry Consulting Service International

THE PROFESSIONAL DESIGNATION OF

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER®

IS AWARDED TO

Scott F Malone

by BICSI in recognition of having successfully completed BICSI's registration and examination requirements.

Designation Number: 171871R

Registration Start Date: 1/1/2015

Registration End Date: 12/31/2017



BICSI
RCDD
Since

10/22/2002

Tony Anthony

Chair, Registrations & Credentials Supervision Committee

Trisha Mendoza

Director of Credentialing



This certificate is hereby presented to:

Patrick Clarke

to certify the completion of:
Security Center - Omnicast Technical Certification
SC-OTC-001-5.2

Valid until: March 11, 2015
Certification Number: 373975
September 11, 2013

Pierre Racz, President





This certificate is hereby presented to:

Isaac Sanabria

to certify the completion of:
Security Center - Synergis Technical Certification
SC-STC-001-5.3

Valid until: May 31, 2017
Certification Number: 201732
November 30, 2015

Pierre Racz, President





This certificate is hereby presented to:

Paul Hermann

to certify the completion of:
Security Center - Omnicast Technical Certification
SC-OTC-001-5.2

Valid until: June 03, 2016
Certification Number: 494397
December 03, 2014

Pierre Racz, President

The Genetec logo, consisting of the word 'Genetec' in a blue, sans-serif font, positioned in the bottom right corner of the page.

Genetec



November 12th 2015

Subject: Access System Integration account standing

To Whom It May Concern,

Access System Integration has maintained a good business relationship with Genetec Inc. since 2011. For the past 4 years, Access System Integration has been in good standing with Genetec and has paid promptly.

If there are any questions in regards to their account, you may contact me.

Melanie Bialas
Credit & Customer Service Manager
Tel. 514-669-1041

2260, boul. Alfred-Nobel, bureau 400
Montréal (Québec) H3S 2A4
Canada
T 514.332.4000 F 514.332.1692
genetec.com

On-Net Surveillance Systems, Inc.



We hereby certify that

Pierre Dorval

has passed the course:

Ocularis 201

qualifying **Shanix Incorporated** as an

OnSSI Certified Channel Partner 2011

May 5, 2011
Course Date

Certification expires 2 years from Course Date

Julio Montalvo, Director of Technical Services, OnSSI

On-Net Surveillance Systems, Inc.



We hereby certify that

Dustin Eckert

has passed the course:

Ocularis 201

qualifying **Shanix Incorporated** as an

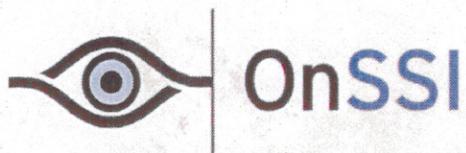
OnSSI Certified Channel Partner 2011

May 5, 2011
Course Date

Certification expires 2 years from Course Date

Julio Montalvo, Director of Technical Services, OnSSI

On-Net Surveillance Systems Inc.



We hereby certify that

Mustapha Gharaee of Shanix, Inc.

Is an OnSSI

Certified Channel Partner

2006

August 29, 2006
Date


Mulli Diamant, VP of Sales, OnSSI



Certificate of Completion

Mustapha Gharaee

has successfully completed the i-Pro Certified Reseller exam for
Sales Professionals
and is hereby certified by Panasonic Security Systems as an
i-Pro Certified Reseller

Date passed: April 17, 2009

Student ID: mustapha@shanix.com

i-Pro Student ID: 076620002



Panasonic Security Systems

*valid upon completion of an online i-Pro designated product course and submission of your Stage 1 Networking basics proof of completion.



Certificate of Completion

Nathan Pierce

has successfully completed the i-Pro Certified Reseller exam for
Technical Specialists
and is hereby certified by Panasonic Security Systems as an
i-Pro Certified Reseller

Date passed: April 16, 2009

Student ID: nathan@shanix.com

i-Pro Student ID: 076620001



Panasonic Security Systems

*valid upon completion of an online i-Pro designated product course and submission of your Stage 1 Networking basics proof of completion.

i-PRO
Certified Reseller

Certificate of Completion

Pierre Dorval

has successfully completed the i-Pro Certified Reseller exam for
Technical Specialists
and is hereby certified by Panasonic Security Systems as an
i-Pro Certified Reseller

Date passed: April 16, 2009

Student ID: pierre@shanix.com

i-Pro Student ID: 076620003



Panasonic Security Systems

*valid upon completion of an online i-Pro designated product course and submission of your Stage 1 Networking basics proof of completion.

Certificate of Accomplishment

This is to Certify that

Anthony Costa
Shanix Inc.

has attended a seminar on current firestopping theory and proper installation techniques of SpecSeal® Firestopping Systems.

Certified By: 
James P. Stahl VP Engineering

Date: 11/20/2007

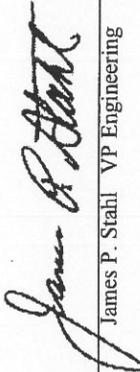
 Specified Technologies, Inc.
200 Evans Way, Suite 2
Somerville NJ 08876

Certificate of Accomplishment

This is to Certify that

Pierre Dorval
Shanix Inc.

has attended a seminar on current firestopping theory and proper installation techniques of SpecSeal® Firestopping Systems.

Certified By: 
James P. Stahl VP Engineering

Date: 11/20/2007



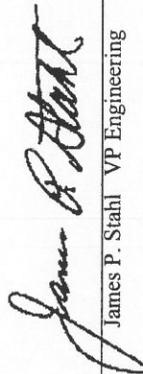
Specified Technologies, Inc.
200 Evans Way, Suite 2
Somerville NJ 08876

Certificate of Accomplishment

This is to Certify that

Dustin Eckert
Shanix Inc.

has attended a seminar on current firestopping theory and proper installation techniques of SpecSeal® Firestopping Systems.

Certified By: 
James P. Stahl VP Engineering

Date: 11/20/2007



Specified Technologies, Inc.
200 Evans Way, Suite 2
Somerville NJ 08876

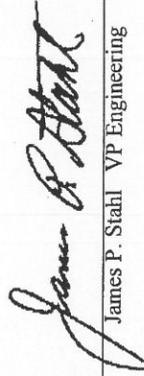
Certificate of Accomplishment

This is to Certify that

Ken Pichette
Shanix Inc.

has attended a seminar on current firestopping theory and proper installation techniques of SpecSeal® Firestopping Systems.

Certified By:



James P. Stahl VP Engineering

Date: 11/20/2007



Specified Technologies, Inc.
200 Evans Way, Suite 2
Somerville NJ 08876

Certificate of Accomplishment

This is to Certify that

Duarte Sousa
Shanix Inc.

has attended a seminar on current firestopping theory and proper installation techniques of SpecSeal® Firestopping Systems.

Certified By: _____

James P. Stahl
James P. Stahl VP Engineering

Date: 11/20/2007



Specified Technologies, Inc.
200 Evans Way, Suite 2
Somerville NJ 08876

OSHA

002593118



U.S. Department of Labor
Occupational Safety and Health Administration

Dustin Eckart

has successfully completed a 10-hour Occupational Safety and Health
Training Course in

Construction Safety & Health

Peter Rice 66873

(Trainer)

8/16/2009

(Date)

OSHA

001580521



U.S. Department of Labor
Occupational Safety and Health Administration

Nathan Pierce

has successfully completed a 10-hour Occupational Safety and Health
Training Course in

Construction Safety & Health

by *Peter Rice* 66823
(Trainer)

10/31/2007

OSHA

001381530



U.S. Department of Labor
Occupational Safety and Health Administration

Pierre Dorval

has successfully completed a 10-hour Occupational Safety and Health
Training Course in

Construction Safety & Health

Peter Rice 66873

4/22/2007
(Date)

OSHA

002361252



U.S. Department of Labor
Occupational Safety and Health Administration

Duarte Souza

has successfully completed a 10-hour Occupational Safety and Health
Training Course in

Construction Safety & Health

Peter Rice 66873
(Trainer)

12/28/2008
(Date)

OSHA

002200300



U.S. Department of Labor
Occupational Safety and Health Administration

Mustapha Charee

has successfully completed a 10-hour Occupational Safety and Health
Training Course in

Construction Safety & Health

Michael Pillarella

(Trainer)

11/23/08

(Date)

OSHA

001909123



U.S. Department of Labor
Occupational Safety and Health Administration

Michael Lewis

has successfully completed a 10-hour Occupational Safety and Health
Training Course in:

Construction Safety & Health

Peter Brewer

A handwritten signature in black ink, appearing to read 'Peter Brewer'.

Oct 15, 2008

(Trainer)

(Date)

Ocularis 5



ULTIMATE

For full list of features, see the Ocularis Architecture & Engineering (A&E) document, available by request.

Ocularis is OnSSI's innovative and cost **effective open platform Video Management Software (VMS)** designed to enhance your security while simplifying your daily workload. From convenience stores to citywide deployments and everything in between, Ocularis **can scale up to accommodate an infinite** number of cameras to match your growing system needs.

Ocularis lets you record both analog video and video from newly integrated IP network cameras, and can become your Physical Security Information Management (PSIM) platform, putting you in control of advanced tools and enhanced integrations like smart motion detection, access control, biometrics, and behavior analytics.

The Ocularis platform is offered in three feature sets – Professional, Enterprise and Ultimate – to meet the needs of organizations of all sizes and types.

The Ocularis Ultimate feature set is designed for large IT-centric organizations with extended command and control needs. Ocularis Ultimate provides centralized recording server management and recording server fail over, multicasting capabilities, edge recording, as well as compatibility with the VideoWall and OpenSight add-ons, which allow for collaborative control of video walls at multiple command and control centers, and incorporating camera streams from other Ocularis installations.

FULL-FLEDGED VMS WITH PHYSICAL SECURITY INFORMATION MANAGEMENT (PSIM) FUNCTIONALITY

Ocularis manages video and event data received from cameras connected to multiple recording servers, as well as from physical security, content analytic, environmental detection, transaction and other enterprise systems.

DESIGNED FOR INTEGRATION

Ocularis allows the integration of a host of add-on components via integration tools including Data Link integration events, API commands, contact closure and more. A free Software Development Kit (SDK) is also available for 3rd-party manufacturers to integrate their systems into Ocularis.

OPEN-ARCHITECTURE NON-PROPRIETARY TECHNOLOGY

Ocularis runs on off-the-shelf PC hardware and supports leading manufacturers' cameras and devices, and all industry-standard compression formats (MPEG-4, MJPEG, H.264 and MxPEG) and the ONVIF and ONVIF Profile S standards. Ocularis Base and Ocularis Recorders are also fully supported in virtual environments such as VMWare and Microsoft Hyper-V.

CAMERA NVR SUPPORT

Axis and Samsung cameras can be used directly – utilizing the native recording capability of the camera – eliminating the need for a PC-based NVR.

EDGE RECORDING

Cameras with on-board storage capabilities can function as failover devices to ensure uninterrupted video recording in the event of network or server failure.

OCULARIS MIX & MATCH

Ocularis allows the use of multiple different recorders under the same Base. This allows users to tailor the system to meet their needs. Ocularis Mix & Match allows an Ultimate user to install Professional and camera NVRs – as well as legacy Ocularis 4.x recorders – in the same system with centralized user and event management.

CENTRALIZED RECORDING SYSTEM MANAGEMENT

Ocularis Ultimate provides centralized system management that dramatically reduces the complexity of managing edge devices, hardware and networking. All recording servers, cameras and connected devices, are managed from a single administration application, including configuration of entire device groups connected to multiple recorders, without the need to access each recording server individually.

AUTOMATIC RECORDER FAILOVER

Ocularis Ultimate includes recorder failover to automatically move cameras from a failed recorder to another recorder in the system.

FULLY REDUNDANT MANAGEMENT SERVICES

Ocularis Ultimate features fully redundant recorder management services that do not require the use of high availability or clustering technologies.

DYNAMIC DATA MANAGEMENT

Ocularis Ultimate features efficient and dynamic data management with automatic load balancing and no archiving requirements. Multiple storage zones can be configured with storage quotas.



PRIORITY CAMERA RECORDING

Cameras can be prioritized to ensure that critical areas are recorded in the event that disk space is limited.

ALARM RECORDING

Alarm scenarios can be created with different retention policies from standard recording to ensure that critical events are saved.

CRITICAL CAMERA FAILOVER

Ocularis Client features automatic switching of interrupted or disconnected video streams in any live view within 2 to 3 seconds – including maps and blank screen events – to designated alternate camera streams.

COMPOSITE EVENTS ('EVENT FUSION')

Composite Events are created by linking two camera events or alerts, configured by sequence order, time interval and logical conditioning (e.g. 'If Door "A" opens, but no motion detection on Camera "N", within 15 seconds'). Composite Events can be fused with other events to create complex detection scenarios, and assigned priority for push video and handling by Ocularis Client operators

MULTICAST

In addition to standard unicasting, Ocularis Ultimate also includes multicasting capability, which allows sending a single live video stream to multiple users, while optimizing server load and bandwidth.

END-TO-END DATA ENCRYPTION

Ocularis features 256-bit AES encryption of all communication between servers and clients, and also supports HTTPS encryption between devices and recorders.

CENTRAL MANAGEMENT FOR ALERTING, SHARED EVENT HANDLING, CLIENT ASSET AND USER AUTHORIZATION DATA

All hardware and system operators are managed by the Ocularis Base, which coordinates all event and alert handling, manages users' rights to specific cameras and functions system wide (Active Directory supported), and distributes all shared assets.

USER AUDIT LOGGING

All user activity may be logged by enabling auditing in Ocularis Base. An easy-to-use query tool provides easy-to-read, color-coded results and export capability for further investigation and statistical reporting.

EVENT PRIORITIZATION

Events can be prioritized from 0-10 with a corresponding color code and can also be assigned customizable audio alerts. Events handling options are configurable as well.

SMART CAMERA DRIVERS

Smart camera drivers for Arecont, Axis, Canon, Hikvision, Samsung, and Sony allow the use of new camera models immediately without waiting for a model-specific driver. Ocularis 5 also supports thousands of cameras from dozens of technology partners.

SERVER-BASED MOTION DETECTION

Ocularis 5 includes efficient server-based motion detection with options for basic motion detection recording, as well as advanced event-based motion recording with multiple regions of interest, each with their own sensitivity and threshold adjustments. Ocularis 5 server-based motion detection also includes a smart idle timer to reduce server load.



AUTOMATIC RECORDER PATCH UPDATES

Recorder patch updates can be automatically downloaded and applied in Ocularis 5.1, keeping the system up-to-date. Administrators may also choose to download and install patches manually.

SHARED EVENT HANDLING

All events generated within the Ocularis system, or detected by external/add-on devices, are entered in a dynamically-updated list, shared among all authorized users. Users are able to acknowledge access, investigate and handle events directly from a dedicated event handling interface, with an on-map indicator of the camera that triggered the event and dual video panes displaying the recorded event and a live stream. Handled events may be accessed by the administrator for continued handling.

INTUITIVE UNIFIED VIDEO CLIENT

Ocularis Client offers a user-friendly operator interface for both desktop and control room video-wall environments, with only minimal training required for full proficiency.

LIVE MONITORING WITH INSTANTANEOUS INVESTIGATION

While monitoring live video feeds, users can perform basic investigation on individual cameras – playback, digital PTZ and optical PTZ (for PTZ cameras) – without the need to switch to a dedicated investigation mode.

EXCLUSIVE INVESTIGATION TOOLS

Ocularis Client's dynamic TimeSlider™ senses motion in an area and brings the operator right to that video thumbnail in seconds instead of hours or even days. The Kinetic Timeline™ provides fast access to continuous historical data with a backwards and forwards swipe navigation and color codes to help identify recorded video.

360-DEGREE CAMERA DE-WARPING

Ocularis Client features native de-warping of 360-degree cameras from OnCam Grand-eye, Samsung and Sentry 360, as well as for cameras equipped with the ImmerVision Panamorph lens.

MIXED CONTENT VIEWS

Users can select among unlimited views of different sizes (up to 8 x 8 panes), consisting of camera streams, carousels, hotspots, web pages and Blank Screen panes for receiving automatic (on-event) and manual (peer-to-peer) push-video alerts.

COMPLETE VIDEO WALL MANAGEMENT

Utilizing Ocularis Client's map-based navigation, the Ocularis VideoWall feature (local or optional remote add-on) allows sending cameras and camera groups to any monitor, eliminating the need for any video matrix hardware. Remote VideoWall allows operators to collaborate in real time with supervisor oversight.

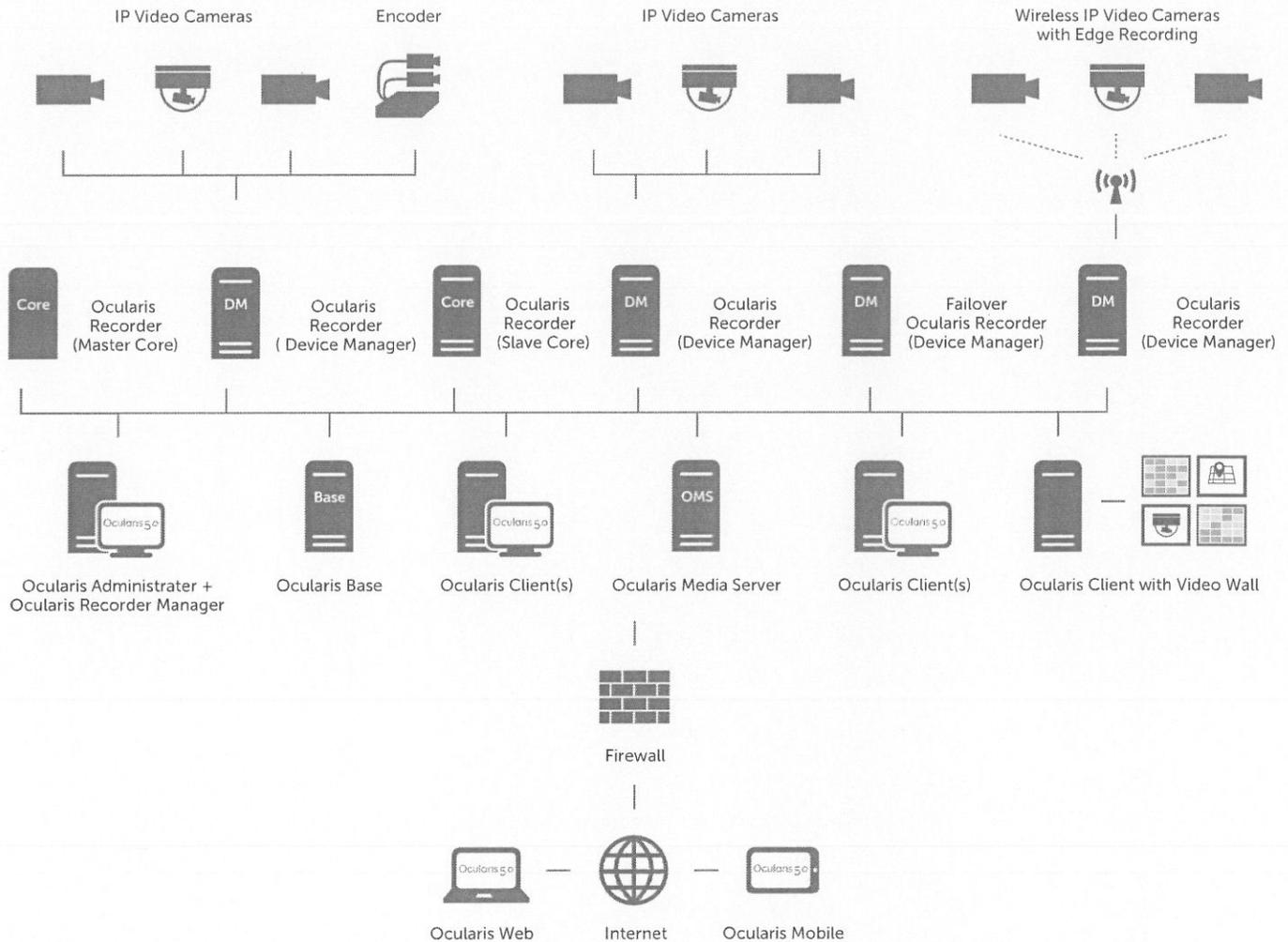
MULTI-LANGUAGE SUPPORT

Ocularis Client includes support for Arabic-Modern Standard, Chinese (simplified), Dutch, English, Finnish, French, German, Hebrew, Italian, Korean, Portuguese, Russian, Spanish and Swedish.



SYSTEM DIAGRAM

Ocularis 5



SYSTEM COMPONENTS

OCULARIS CLIENT

Unified operator interface for live monitoring, playback and investigation, alert management, map navigation and VideoWall control. Includes map-based local VideoWall control for connected displays and optional remote VideoWall control for operator collaboration in command and control applications.

OCULARIS RECORDER (CORE AND DEVICE MANAGER)

Manages camera connections, recording parameters and video data.

OCULARIS BASE

Manages the flow of event, user and system status data from the various system components. Provides Active Directory authentication for client operators.

OCULARIS MEDIA SERVER

Provides bandwidth-optimized, full-frame-rate video to remote web and mobile users as well as standard video to local web users.

FEATURE SET COMPARISON



OCULARIS SYSTEM FEATURE	PROFESSIONAL	ENTERPRISE	ULTIMATE
Number of cameras per system	Unlimited	Unlimited	Unlimited
Number of recorders per system	Unlimited	Unlimited	Unlimited
Number of concurrent client connections	10	Unlimited	Unlimited
Ocularis Mix & Match - combining multiple recorder types in a single system	Yes	Yes	Yes
Ocularis OpenSight™ option for sharing video between Ocularis systems	Remote	Remote	Main/Remote
Compatible with Ocularis 4.x recorders	Yes	Yes	Yes
Compatible with Axis and Samsung camera NVRs	Yes	Yes	Yes
Critical Camera Failover for camera failure protection	Yes	Yes	Yes
Centralized user management	Yes	Yes	Yes
Active Directory support for client authentication	Yes	Yes	Yes
Integration with 3rd party access control	Yes	Yes	Yes
Integration with 3rd party analytics	No	Yes	Yes
Integration with 3rd party License Plate Recognition (LPR) systems	Yes	Yes	Yes
Data Link event integration	Yes	Yes	Yes
Event Fusion / Composite Events	Yes	Yes	Yes
Ocularis Media Server with HDIS for web and mobile	Yes	Yes	Yes
Event Actions including move-to-PTZ-preset, email, TCP/UDP and HTTP messaging	Yes	Yes	Yes
OCULARIS CLIENT FEATURE			
Unlimited views and view groups	Yes	Yes	Yes
Multi-level map navigation with live camera previews	Yes	Yes	Yes
Support for 8 independently controlled displays from a single workstation	Yes	Yes	Yes
Touchscreen support	Yes	Yes	Yes
Interactive overlay controls with instant playback capability	Yes	Yes	Yes
Local VideoWall control of workstation connected displays	Yes	Yes	Yes
Remote VideoWall control for command and control centers	No	Optional	Optional
Dynamic TimeSlicer thumbnail search with time, motion and sequence options	Yes	Yes	Yes
Kinetic timeline for quick and easy investigation	Yes	Yes	Yes
256-bit AES encryption for server communication	Yes	Yes	Yes
Secure multi-camera database export with included Viewer	Yes	Yes	Yes
Snapshot still image export and printed incident report	Yes	Yes	Yes
Case builder with bookmarking	No	Yes	Yes
Support for USB joysticks	Yes	Yes	Yes
Alert management	Yes	Yes	Yes
OCULARIS RECORDER FEATURES			
Number of cameras per server	64	Unlimited	Unlimited
Centralized recorder management	No	Yes	Yes
Recorder management partitioning	No	Yes	Yes
Fully redundant recorder manager without using clustering	No	Yes	Yes
Automatic recorder patch update service	Yes	Yes	Yes
Automatic failover of recording servers	No	No	Yes
Efficient and dynamic disk load balancing with no archiving requirements	Yes	Yes	Yes
Video data aging (grooming) for long term storage	No	No	Yes
Automatic edge recording retrieval after network disconnect	No	No	Yes
Automatic scheduled export of video data	Yes	Yes	Yes
Batch device configuration	Yes	Yes	Yes
Server-based motion detection and support for camera-based motion detection	Yes	Yes	Yes
MJPEG, MPEG-4, MxPEG and H.264 support	Yes	Yes	Yes
ONVIF and ONVIF Profile S support	Yes	Yes	Yes
Generic RTSP and MJPEG camera support	Yes	Yes	Yes
Universal Arecont, Canon, Axis, HikVision, Samsung and Sony drivers	Yes	Yes	Yes
HTTPS (SSL) encryption for camera to recorder communication	Yes	Yes	Yes
Digital input/output device support (number of devices)	5	Unlimited	Unlimited
Alarm recording with separate retention policy	Yes	Yes	Yes
Incoming audio recording	Yes	Yes	Yes
Multicast from recorder to Ocularis Client	No	No	Yes
No device registration or device MAC address required	Yes	Yes	Yes

OCULARIS BASE SERVER

- CPU: Intel Core i3 or better
- RAM: 4 GB (8 GB if using 64-bit OS)
- Hard Drive: minimum 250 GB (dependent of recording/archiving needs)
- Operating System:
Microsoft Windows® Vista Business, Ultimate, Enterprise (32 or 64 bit)
Microsoft Windows® 7 Professional, Ultimate or Enterprise (32 & 64-bit)
Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) (32 or 64 bit)
Microsoft Windows Server® 2008 (Standard, Enterprise) (32 or 64 bit)
Microsoft Windows Server® 2008 R2 (Standard, Enterprise) (32 or 64 bit)
Microsoft Windows Server® 2012 (Standard, Datacenter) (32 or 64 bit)
Microsoft Windows Server® 2012 R2 (Standard, Datacenter) (32 or 64 bit)
- Software: Microsoft .NET 4.0 Framework; IIS 6.0 or newer

OCULARIS MEDIA SERVER

- CPU: Intel Core i7, 3rd or 4th generation, 3.0 GHz or faster
- RAM: 8GB
- Operating System:
Microsoft Windows® Vista Business, Ultimate, Enterprise (32 or 64 bit)
Microsoft Windows® 7 Professional, Ultimate or Enterprise (32 & 64-bit)
Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) (32 or 64 bit)

OCULARIS ADMINISTRATOR CLIENT AND OCULARIS RECORDER MANAGER CLIENT

- CPU: Intel Core i3 or better
 - RAM: Minimum 4 GB
 - Operating System:
Microsoft Windows® Vista Business, Ultimate, Enterprise (32 or 64 bit)
Microsoft Windows® 7 Professional, Ultimate or Enterprise (32 or 64 bit)
Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) (32 or 64 bit)
 - Graphics Adapter: PCI-Express, 128 MB RAM, Direct 3D supported
- Note: the Ocularis Administrator and Recorder Manager clients do not require a dedicated PC.

OCULARIS CLIENT

- CPU: Intel Core i5 or better (Intel Core i7 or better for 20+ megapixel streams)
- RAM: Minimum 4 GB (8 GB if using 64-bit OS)
- Operating System:
Microsoft Windows® Vista Business, Ultimate, Enterprise (32 or 64 bit)
Microsoft Windows® 7 Professional, Ultimate or Enterprise (32 & 64-bit)
Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) (32 or 64 bit)
- Graphics adapter: PCI-Express, minimum 256 MB RAM, Direct 3D supported.
- Guidelines for video RAM requirements:
20 simultaneous video streams: 256MB minimum
50 simultaneous video streams: 512MB minimum

OCULARIS RECORDING SERVER

Core Server

- CPU: Intel® Core™ i5 or better or Intel® Xeon®, (Dual Core or better recommended with at least 2 GHz)
- RAM: Minimum 8GB (16 GB or more recommended)
- Hard Disk Space: Minimum 100 GB free (depends on number of servers, cameras, rules, and logging settings) Refer to the OnSSI Hardware Calculator.

Device Manager:

- CPU: Intel® Core™ i5 or better or Intel® Xeon®, (Dual Core or better recommended with at least 2 GHz)
- RAM: Minimum 8GB (16 GB or more recommended if using more than 80 cameras)
- Hard Disk Space: Minimum 100 GB free (depends on number of servers, cameras, rules, and logging settings) Refer to the OnSSI Hardware Calculator.

Operating System:

- (Core and Device Manager)
- Microsoft Windows® 7 (Home Premium, Professional, Ultimate, Enterprise) 64 bit
Microsoft Windows® 8 / 8.1 (Standard, Professional, Enterprise) 64 bit
Microsoft Windows Server® 2008 (Standard, Enterprise) 64 bit
Microsoft Windows Server® 2008 R2 (Standard, Enterprise) 64 bit Recommended
Microsoft Windows Server® 2012 (Standard, Datacenter) 64 bit
Microsoft Windows Server® 2012 R2 (Standard, Datacenter) 64 bit

Ocularis Version 5.1, October 2015

On-Net Surveillance systems raises safety standards with its award-winning IP-based surveillance software, Ocularis. OnSSI can help you increase security, reduce costs, and get you closer to prevention – while putting intelligence, automation, and intuition at your fingertips.

With its headquarters in Pearl River, New York and a regional development, sales and support center in Bruchsal, Germany, plus representation in over 100 countries around the globe, OnSSI is transforming safety standards in schools, banks, cities, offices, stadiums, and airports. OnSSI is committed to powering your surveillance system so you can truly stay one step ahead.

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Code: 100915 v5.1





Omnicast

IP Video Surveillance

See it all. All the time.

Omnicast™ is the IP video management system that enables organizations of all sizes to deploy a surveillance system that can scale and adapt to the changing demands of any security environment.



Innovative **Solutions**

Be Secure. Today and Tomorrow.

Omnicast™ provides you with the flexibility to grow your system and implement new capabilities over time, ensuring you are never locked into a proprietary solution. With fielded deployments of up to 150,000 cameras, and support for an unrestricted number of workstations, its powerful architecture allows you to reliably scale with the assurance that your day-to-day operations will not be disrupted.

Multi-Task View

Keep multiple tasks open at the same time, allowing operators to see and do more, such as monitor video, search archives, and pull reports.

Unified Access Control

Verify cardholder pictures against live or recorded video associated to access control events for every door within any monitoring or reporting task.

Dynamic Interactive Maps

Efficiently monitor and manage all your sites with interactive maps that provide a dynamic view of all security devices, alarms, and system statuses.



Push Live Video from Security Center Mobile

Capture and send live video from smartphones using Security Center Mobile, enabling operators at their workstation to view events from the field.

Omnicast Benefits

Deep Integrations with the Hardware of Your Choice

With support for thousands of IP cameras, you can freely select the edge devices of your choice. Omnicast is built with an open architecture that allows you to choose from a broad ecosystem of leading edge device and server partners, and ensures that your investment is not locked into a proprietary solution.

Manage More Cameras on Your Network

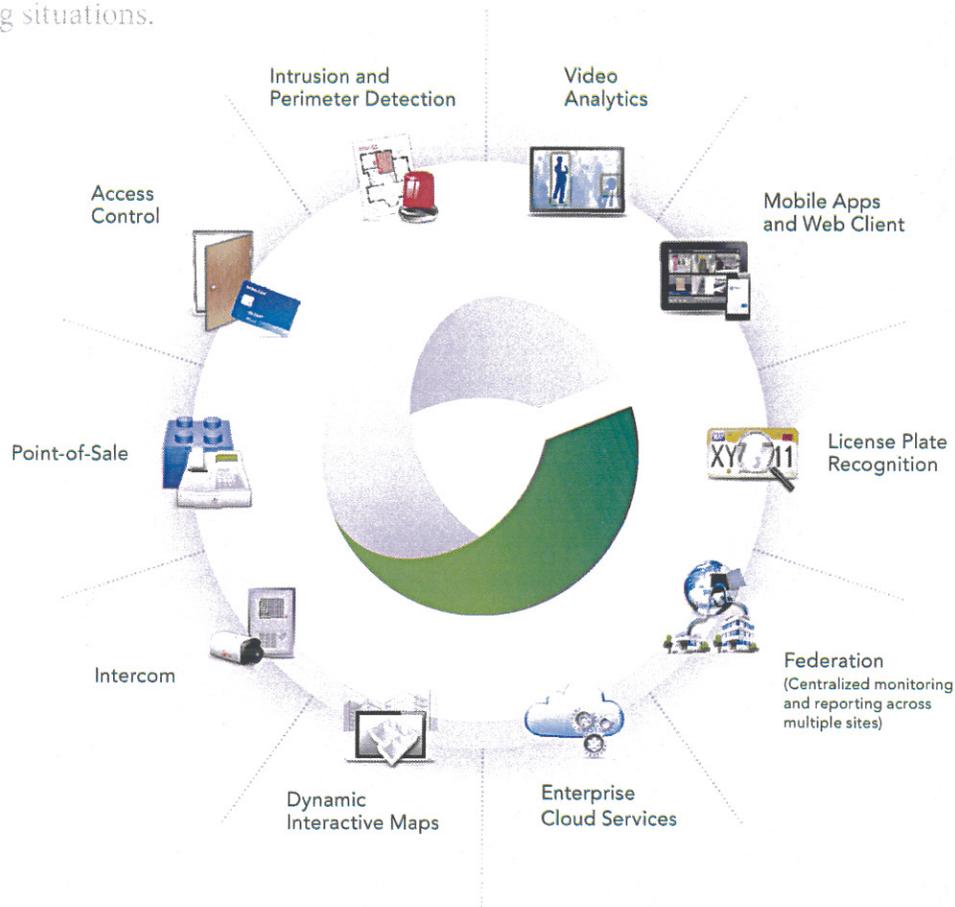
As the industry's leading video management system, Omnicast is deployed in some of the world's largest and most demanding video surveillance applications. An advanced architecture allows you to grow your system whenever required, and highly flexible features help you optimize video streaming and reduce the load on the network.

Achieve Greater Security Through Unification

Through unification with access control, video analytics, and intrusion systems, Omnicast helps you achieve greater awareness of your security environment. By providing a seamless view of cameras and notifications from additional security systems on the network, Omnicast enables operators to rapidly respond to incidents, and equips them with powerful search and reporting tools to help accelerate their investigations.

Security that Evolves with You.

As part of Genetec™ Security Center, the unified security platform, Omnicast allows you to achieve greater security by unifying your video surveillance system with other security and business systems. Leveraging additional capabilities within a single intuitive interface lets you seamlessly control all operations, while also providing users with the power to rapidly respond to emerging situations.



Omicast Key Features

Reduce Your Video Hardware Footprint

Cloud Archives - This hybrid cloud service enables organizations to transfer archived video recorded on-premises to the cloud, in order to easily increase their available storage capacity, without the need to invest in additional servers.

GPU-Accelerated Decoding - Display more cameras and review video with greater fluidity from a single workstation with the ability to leverage graphics cards and embedded graphics processing units (GPU) to rapidly decode high-resolution video.

Optimized Recording Throughput - Take advantage of a highly scalable VMS to reduce your on-site hardware, with a solution that has been tested to support up to 700Mbps of total throughput on certified appliances.

Video You Can Rely On

Failover and Redundancy - Count on the availability of your video recordings and access to your cameras whenever you need them with built-in failover and redundancy mechanisms that protect against hardware failure or network interruptions.

Health Monitoring - Receive real-time notification of system status and health-related events, and generate statistics on the health of your system through a dedicated engine to help optimize system performance.

End-to-End Data Security - Achieve greater security of your sensitive data with secured communications between clients, servers, and edge devices, and the ability to encrypt exported video.

Choose Software-Only or Pre-Loaded Appliances

Omnicast Software Packages

Omnicast video management software is available in a variety of packages to fit the size and needs of your security applications. You can easily modify your package with a simple license update as your needs evolve.

PACKAGE OVERVIEW			
	STANDARD	PRO	ENTERPRISE
Maximum Number of Cameras	50	250	Unrestricted
Maximum Numbers of Clients	5	10	Unrestricted
Number of Archivers	1	20	Unrestricted
Plan Manager	●	●	●
Cloud Archives	●	●	●
GPU-Accelerated Video Decoding	●	●	●
Edge Recording & Archive Transfer	●	●	●
Remote Security Desk		●	●
Archiver Failover / Redundancy			○
Directory Failover			○
Federation™ *			○

● Included or Supported ○ Optional * Main Federation server must be Enterprise. Federating sites can be Standard, Pro, or Enterprise.

Turnkey Network Security Appliances

Genetec's network security appliances provide access to certified, turnkey solutions with Security Center pre-installed, allowing you to rapidly deploy your next video surveillance system. These network appliances are simple to install, configure and maintain, and provide wide support for industry-leading cameras and edge devices.



SV-16

Supports up to 16 cameras



SV-32

Supports up to 32 cameras



SV-PRO

Supports up to 100 cameras



BCDVIDEO NOVA SERIES

Supports up to 500 cameras

Genetec

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AXIS P3364-V Network Camera

Light-sensitive and vandal-resistant with remote focus and zoom

AXIS P3364-V is a day and night fixed dome network camera that offers superb video performance in HDTV 720p/1 MP resolution. It provides multiple, individually configurable H.264 and Motion JPEG video streams. Digital pan/tilt/zoom allows a view cropped from the full view to be streamed for viewing or recording. P-iris control provides optimal depth of field, resolution, image contrast and clarity. Remote zoom and focus eliminate the need for hands-on fine tuning. AXIS P3364-V supports Axis' Lightfinder technology, making it extremely sensitive to low light. With its vandal-resistant casing, it is specifically designed for indoor environments where discreet and compact solutions are required.

- > **HDTV 720p/1 MP**
- > **Lightfinder technology**
- > **P-Iris control**
- > **Remote zoom and focus**
- > **IK10 vandal-resistance**



AXIS P3364-V Network Camera

Models	AXIS P3364-V 6 mm AXIS P3364-V 12 mm	Event triggers	Analytics, Edge storage events External input
Camera		Event actions	File upload: FTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP Video recording to edge storage Pre- and post-alarm video buffering External output activation, Audio recording to edge storage, Play audio clip
Image sensor	Progressive scan RGB CMOS 1/3"	Data streaming	Event data
Lens	6 mm: 2.5–6 mm, F1.2 Horizontal angle of view: 105°–49° Vertical angle of view: 80°–37° 12 mm: 3.3–12 mm, F1.4 Horizontal angle of view: 82°–24° Vertical angle of view: 60°–18° Varifocal, Remote focus and zoom, P-Iris control, IR corrected	Built-in installation aids	Remote zoom, Remote focus, Pixel counter
Day and night	Automatically removable infrared-cut filter	General	
Minimum illumination	6 mm: Color: 0.12 lux, F1.2, B/W: 0.03 lux, F1.2 12 mm: Color: 0.18 lux, F1.4, B/W: 0.04 lux, F1.4	Casing	Polycarbonate transparent dome, aluminum inner camera module with encapsulated electronics IK10 impact-resistant casing with aluminum base Color: White NCS S 1002-B. For repainting instructions and impact on warranty, contact your Axis partner.
Shutter time	1/29500 s to 2 s	Memory	256 MB RAM, 128 MB Flash
Camera angle adjustment	Pan 360°, Tilt 170°, Rotation 340°	Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 2 Max 5.9 W
Video		Connectors	RJ45 10BASE-T/100BASE-TX PoE Terminal block for 1 alarm input and 1 output, 3.5 mm mic/line in, 3.5 mm line out
Video compression	H.264 Baseline and Main Profile (MPEG-4 Part 10/AVC), Motion JPEG	Edge storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com
Resolutions	1280x960 ^a (approx. 1.3 MP) to 160x90	Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Humidity 10–85% RH (non-condensing)
Frame rate	25/30 fps with power line frequency 50/60 Hz	Approvals	EN 55022 Class B, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, EN 50581, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78 IEC/EN/UL 60950-1, IEC 62262 IK10
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG, Controllable frame rate and bandwidth, VBR/MBR H.264	Dimensions	Ø148 x 96 mm (Ø5 13/16 x 3 3/4 in)
Pan/Tilt/Zoom	Digital PTZ	Weight	650 g (1.4 lb)
Image settings	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Text and image overlay, Mirroring of images, Privacy mask, Wide Dynamic Range - Dynamic Contrast Rotation 0°, 90°, 180°, 270°, including Corridor Format	Included accessories	Installation Guide, Windows decoder 1-user license, Resistorx T20 screw driver, Drill hole template Connector kit Weather shield, Smoked dome
Audio		Optional accessories	AXIS P33 Series Pendant Kit AXIS T8120 Midspan 15 W 1-port AXIS T8415 Wireless Installation Tool AXIS T94H01P Conduit Back Box
Audio streaming	Two-way audio	Video management software	AXIS Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software
Audio compression	AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Configurable bit rate	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese
Audio input/output	External microphone input or line input, Line output	Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty
Network			
Security	Password protection, IP address filtering, HTTPS ^b encryption, IEEE 802.1X ^b network access control, Digest authentication, User access log		
Supported protocols	IPv4/v6, HTTP, HTTPS ^b , SSL/TLS ^b , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH		
System integration			
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform, specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF Profile S, specification at www.onvif.org		
Analytics	Video motion detection, Active tampering alarm, Audio detection Support for AXIS Camera Application Platform enabling installation of AXIS Video Motion Detection 3, AXIS Cross Line Detection, AXIS Digital Autotracking and third-party applications, see www.axis.com/acap		

a. 1400x1050 (1.4MP) scaled resolution available via VAPIX[®]
b. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>), and cryptographic software written by Eric Young (ey@cryptsoft.com).

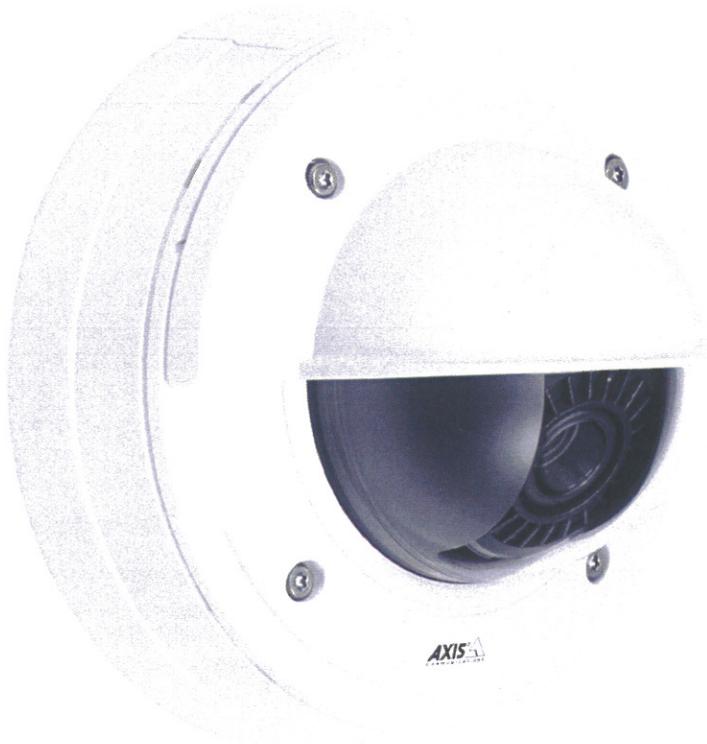
More information is available at www.axis.com

AXIS P3364-VE Network Camera

Light-sensitive and vandal-resistant with remote focus and zoom

AXIS P3364-VE is a day and night fixed dome network camera that offers superb video performance in HDTV 720p/1 MP resolution. It provides multiple, individually configurable H.264 and Motion JPEG video streams. Digital pan/tilt/zoom allows a view cropped from the full view to be streamed for viewing or recording. P-iris control provides optimal depth of field, resolution, image contrast and clarity. Remote zoom and focus eliminate the need for hands-on fine tuning. AXIS P3364-VE supports Axis' Lightfinder technology, making it extremely sensitive to low light. With its weather-proof and vandal-resistant casing, it is perfectly adapted for harsh environments. Its operating temperature ranges from -40 °C to 55 °C (-40 °F to 131 °F).

- > [HDTV 720p/1 MP](#)
- > [Lightfinder technology](#)
- > [P-Iris control](#)
- > [Remote focus and zoom](#)
- > [Outdoor-ready and vandal-resistant design](#)



AXIS P3364-VE Network Camera

Models	AXIS P3364-VE 6 mm AXIS P3364-VE 12 mm	Event triggers	Analytics, Edge storage events External input
Camera		Event actions	File upload: FTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP Video recording to edge storage Pre- and post-alarm video buffering External output activation, Audio recording to edge storage, Play audio clip
Image sensor	Progressive scan RGB CMOS 1/3"	Data streaming	Event data
Lens	6 mm: 2.5–6 mm, F1.2 Horizontal angle of view: 105°–49° Vertical angle of view: 80°–37° 12 mm: 3.3–12 mm, F1.4 Horizontal angle of view: 82°–24° Vertical angle of view: 60°–°18 Varifocal, Remote focus and zoom, P-Iris control, IR corrected	Built-in installation aids	Remote zoom, Remote focus, Pixel counter
Day and night	Automatically removable infrared-cut filter	General	
Minimum illumination	6 mm: Color: 0.12 lux, F1.2, B/W: 0.03 lux, F1.2 12 mm: Color: 0.18 lux, F1.4, B/W: 0.04 lux, F1.4	Casing	Polycarbonate transparent dome, aluminum inner camera module with encapsulated electronics IP66- and NEMA 4X-rated, IK10 impact-resistant casing with aluminum base and dehumidifying membrane Color: White NCS S 1002-B. For repainting instructions and impact on warranty, contact your Axis partner.
Shutter time	1/24500 s to 2 s	Memory	256 MB RAM, 128 MB Flash
Camera angle adjustment	Pan 360°, Tilt 170°, Rotation 340°	Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Max 12.1 W
Video		Connectors	RJ45 10BASE-T/100BASE-TX PoE Terminal block for 1 alarm input and 1 output, 3.5 mm mic/line in, 3.5 mm line out
Video compression	H.264 Baseline and Main Profile (MPEG-4 Part 10/AVC), Motion JPEG	Edge storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com
Resolutions	1280x960 ^a (approx. 1.3 MP) to 160x90	Operating conditions	-40 °C to 55 °C (-40 °F to 131 °F) Humidity 10–100% RH (condensing)
Frame rate	25/30 fps with power line frequency 50/60 Hz	Approvals	EN 55022 Class B, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, EN 50581, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78 EN 50121-4, IEC 62236-4, IEC/EN/UL 60950-22, IEC 62262 IK10, IEC/EN 60529 IP66, NEMA 250 Type 4X
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG, Controllable frame rate and bandwidth, VBR/MBR H.264	Dimensions	Ø178 x 119 mm (Ø7 x 4 11/16 in)
Pan/Tilt/Zoom	Digital PTZ	Weight	1.5 kg (3.3 lb) with weather shield
Image settings	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Text and image overlay, Mirroring of images, Privacy mask, Wide Dynamic Range – Dynamic Contrast Rotation 0°, 90°, 180°, 270°, including Corridor Format	Included accessories	Installation Guide, Windows decoder 1-user license, Resistorx T20 screw driver, Drill hole template Connector kit, Mounting bracket, 5 m (16 ft) network cable with pre-mounted gasket Weather shield, Smoked dome
Audio		Optional accessories	AXIS P33 Series Pendant Kit AXIS T8120 Midspan 15 W 1-port AXIS T8415 Wireless Installation Tool AXIS T94H01P Conduit Back Box
Audio streaming	Two-way audio	Video management software	AXIS Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software
Audio compression	AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Configurable bit rate	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese
Audio input/output	External microphone input or line input, Line output	Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty
Network			
Security	Password protection, IP address filtering, HTTPS ^b encryption, IEEE 802.1X ^b network access control, Digest authentication, User access log		
Supported protocols	IPv4/v6, HTTP, HTTPS ^b , SSL/TLS ^b , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH		
System integration			
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform, specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF Profile S, specification at www.onvif.org		
Analytics	Video motion detection, Active tampering alarm, Audio detection Support for AXIS Camera Application Platform enabling installation of AXIS Video Motion Detection 3, AXIS Cross Line Detection, AXIS Digital Autotracking and third-party applications, see www.axis.com/acap		

a. 1400x1050 (1.4MP) scaled resolution available via VAPIX[®]
b. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>), and cryptographic software written by Eric Young (ey@cryptsoft.com).

More information is available at www.axis.com

AXIS P3367-V Network Camera

5-megapixel, light-sensitive with remote focus and zoom

AXIS P3367-V is a fixed dome network camera that offers superb video performance in HDTV 1080p/5 MP resolution. It complies with the SMPTE 274M standard and can cover a large area with exceptional detail and light sensitivity. Wide dynamic range and day/night functionality provides high image quality even in low-light conditions. With multi-view streaming, the full view and up to 8 individually cropped out view areas can be streamed simultaneously. P-Iris control provides optimal depth of field, resolution, image contrast and clarity. Remote zoom and focus eliminate the need for hands-on fine tuning. AXIS P3367-V has support for digital pan/tilt/zoom, two-way audio, audio detection and input/output ports for external devices.

- > **HDTV 1080p/5 MP**
- > **P-Iris control**
- > **Remote zoom and focus**
- > **I/O ports and two-way audio**
- > **IK10 vandal-resistance**



AXIS P3367-V Network Camera

1471716/EN/MI.4/112015

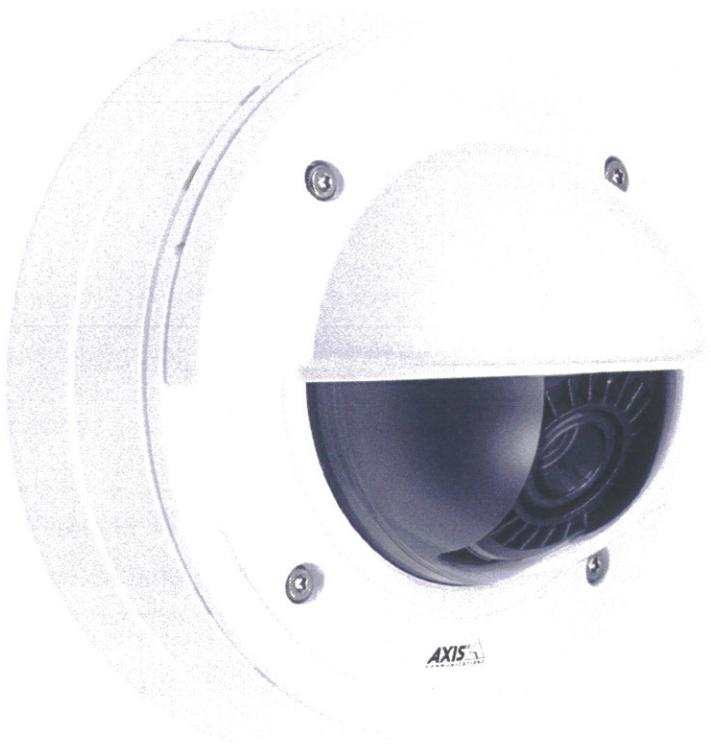
Camera		Detection, AXIS Digital Autotracking and third-party applications, see www.axis.com/acap
Image sensor	Progressive scan RGB CMOS 1/3.2"	
Lens	3-9 mm, F1.2 Horizontal angle of view: 84°-30° Vertical angle of view: 63°-22° Varifocal, Remote focus and zoom, P-Iris control, IR corrected	
Day and night	Automatically removable infrared-cut filter	
Minimum illumination	Color: 0.2 lux, F1.2, B/W: 0.04 lux, F1.2	
Shutter time	1/28000 s to 2 s	
Camera angle adjustment	Pan 360°, Tilt 160°, Rotation 340°	
Video		
Video compression	H.264 Baseline and Main Profile (MPEG-4 Part 10/AVC), Motion JPEG	
Resolutions	2592x1944 (5 MP) to 160x90	
Frame rate	2 MP 4:3 (1600x1200) and HDTV 1080p (1920x1080) capture modes: 30 fps in all resolutions, 3 MP capture mode: 20 fps in all resolutions, 5 MP capture mode: 12 fps in all resolutions	
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG, Controllable frame rate and bandwidth, VBR/MBR H.264	
Multi-view streaming	Up to 8 individually cropped out view areas When streaming 4 view areas and 1 overview in VGA resolution, the frame rate is 12 fps per stream (5 MP capture mode) or 20 fps per stream (3 MP capture mode)	
Pan/Tilt/Zoom	Digital PTZ Preset positions, Guard tour	
Image settings	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Text and image overlay, Mirroring of images, Privacy mask Rotation 0°, 90°, 180°, 270°, including Corridor Format Wide Dynamic Range - Dynamic Contrast	
Audio		
Audio streaming	Two-way audio	
Audio compression	AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Configurable bit rate	
Audio input/output	External microphone input or line input, Line output	
Network		
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X ^a network access control, Digest authentication, User access log	
Supported protocols	IPv4/v6, HTTP, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH	
System integration		
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform, specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-click Connection ONVIF Profile S, specification at www.onvif.org	
Analytics	Video motion detection, Active tampering alarm, Audio detection Support for AXIS Camera Application Platform enabling installation of AXIS Video Motion Detection 3, AXIS Cross Line	
Event triggers	Analytics, Edge storage events, External input	
Event actions	File upload: FTP, FTPS, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP Video recording to edge storage Pre- and post-alarm video buffering External output activation, Audio recording to edge storage, Play audio clip Preset positions, Guard tour	
Data streaming	Event data	
Built-in installation aids	Remote zoom, Remote focus, Pixel counter	
General		
Casing	Polycarbonate transparent dome, aluminum inner camera module with encapsulated electronics IK10 impact-resistant casing with aluminum base Color: White NCS S 1002-B. For repainting instructions and impact on warranty, contact your Axis partner.	
Memory	512 MB RAM, 128 MB Flash	
Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 2 Max 6.2 W	
Connectors	RJ45 10BASE-T/100BASE-TX PoE Terminal block for 1 alarm input and 1 output, 3.5 mm mic/line in, 3.5 mm line out	
Edge storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com	
Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Humidity 10-85% RH (non-condensing)	
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)	
Approvals	EN 55022 Class B, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, EN 50581, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78 IEC/EN/UL 60950-1 IEC 62262 IK10	
Weight	730 g (1.6 lb)	
Dimensions	Ø148 x 104 mm (Ø5 13/16 x 4 1/16 in)	
Included accessories	Installation Guide, Windows decoder 1-user license, Resistorx T20 screw driver, Drill hole template Connector kit, Smoked dome	
Video management software	AXIS Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software	
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese	
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty	
<p>a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/), and cryptographic software written by Eric Young (ey@cryptsoft.com).</p>		
More information is available at www.axis.com		

AXIS P3367-VE Network Camera

5-megapixel, light-sensitive with remote focus and zoom

AXIS P3367-VE is a fixed dome network camera that offers superb video performance in HDTV 1080p/5 MP resolution. It complies with the SMPTE 274M standard and can cover a large area with exceptional detail and light sensitivity. Wide dynamic range and day/night functionality provides high image quality even in low-light conditions. With multi-view streaming, the full view and up to 8 individually cropped out view areas can be streamed simultaneously. AXIS P3367-VE has support for digital pan/tilt/zoom, two-way audio, audio detection and input/output ports for external devices. With its weather-proof and vandal-resistant casing, it is perfectly adapted for harsh environments.

- > **HDTV 1080p/5 MP**
- > **P-Iris control**
- > **Remote zoom and focus**
- > **I/O ports and two-way audio**
- > **Outdoor-ready and IK10 vandal-resistance**



AXIS P3367-VE Network Camera

1471717/EN/MI.4/112015

Camera		Detection, AXIS Digital Autotracking and third-party applications, see www.axis.com/acap
Image sensor	Progressive scan RGB CMOS 1/3.2"	
Lens	3–9 mm, F1.2 Horizontal angle of view: 84°–30° Vertical angle of view: 63°–22° Varifocal, Remote focus and zoom, P-Iris control, IR corrected	
Day and night	Automatically removable infrared-cut filter	
Minimum illumination	Color: 0.2 lux, F1.2, B/W: 0.04 lux, F1.2	
Shutter time	1/28000 s to 2 s	
Camera angle adjustment	Pan 360°, Tilt 160°, Rotation 340°	
Video		
Video compression	H.264 Baseline and Main Profile (MPEG-4 Part 10/AVC) Motion JPEG	
Resolutions	2592x1944 (5 MP) to 160x90	
Frame rate	2 MP 4:3 (1600x1200) and HDTV 1080p (1920x1080) capture modes: 30 fps in all resolutions, 3 MP capture mode: 20 fps in all resolutions, 5 MP capture mode: 12 fps in all resolutions	
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/MBR H.264	
Multi-view streaming	Up to 8 individually cropped out view areas When streaming 4 view areas and 1 overview in VGA resolution, the frame rate is 12 fps per stream (5 MP capture mode) or 20 fps per stream (3 MP capture mode)	
Pan/Tilt/Zoom	Digital PTZ Preset positions, Guard tour	
Image settings	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Text and image overlay, Mirroring of images, Privacy mask Rotation 0°, 90°, 180°, 270°, including Corridor Format Wide Dynamic Range – Dynamic Contrast	
Audio		
Audio streaming	Two-way audio	
Audio compression	AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz Configurable bit rate	
Audio input/output	External microphone input or line input, Line output	
Network		
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X ^a network access control, Digest authentication, User access log	
Supported protocols	IPv4/v6, HTTP, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, SFTP, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH	
System integration		
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform, specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF Profile S, specification at www.onvif.org	
Analytics	Video motion detection, Active tampering alarm, Audio detection Support for AXIS Camera Application Platform enabling installation of AXIS Video Motion Detection 3, AXIS Cross Line	
Event triggers	Analytics, Edge storage events, External input	
Event actions	File upload: FTP, FTPS, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP Video recording to edge storage Pre- and post-alarm video buffering External output activation, Audio recording to edge storage, Play audio clip Preset positions, Guard tour	
Data streaming	Event data	
Built-in installation aids	Remote zoom, Remote focus, Pixel counter	
General		
Casing	Polycarbonate transparent dome, aluminum inner camera module with encapsulated electronics IP66- and NEMA 4X-rated, IK10 impact-resistant casing with aluminum base and dehumidifying membrane Color: White NCS S 1002-B. For repainting instructions and impact on warranty, contact your Axis partner.	
Memory	512 MB RAM, 128 MB Flash	
Power	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 Max. 12.1 W	
Connectors	RJ45 10BASE-T/100BASE-TX PoE Terminal block for 1 alarm input and 1 output, 3.5 mm mic/line in, 3.5 mm line out	
Edge storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com	
Operating conditions	-40 °C to 55 °C (-40 °F to 131 °F) Humidity 10–100% RH (condensing)	
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)	
Approvals	EN 55022 Class B, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, EN 50581, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78 EN 50121-4, IEC 62236-4, IEC/EN/UL 60950-22, IEC 62262 IK10, IEC/EN 60529 IP66, NEMA 250 Type 4X	
Weight	1.7 kg (3.7 lb), with weather shield	
Dimensions	Ø178 x 117 (Ø7 x 4 5/8 in)	
Included accessories	Installation Guide, Windows decoder 1-user license, Resistorx T20 screw driver, Drill hole template Connector kit, Mounting bracket, Smoked dome, Weather shield, 5 m (16 ft) network cable with pre-mounted gasket	
Video management software	AXIS Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software	
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese	
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty	

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>), and cryptographic software written by Eric Young (eyay@cryptsoft.com).

More information is available at www.axis.com

AXIS Q6045 Mk II PTZ Dome Network Camera

Indoor, high-speed PTZ dome with HDTV 1080p

AXIS Q6045 Mk II is a top-of-the-line PTZ dome with HDTV 1080p, 32x optical zoom, and fast and precise pan/tilt performance for wide area coverage and detailed surveillance at great distances. With endless 360° pan, it can be automatically directed to 256 preset positions using guard tour. It has built-in analytics such as highlight compensation, object removed, fence detector, object counter, enter/exit detection and autotracking. Active Gatekeeper automatically moves the camera to a preset position when motion is detected in a pre-defined area, tracking the detected object. The camera supports two-way audio, audio detection, input/output ports and AC/DC power.

- > **HDTV 1080p and 32x optical zoom**
- > **IP52-rated protection against dust and dripping water**
- > **Shock detection**
- > **Enhanced intelligent video**
- > **Power over Ethernet Plus (IEEE 802.3at)**



AXIS Q6045 Mk II PTZ Dome Network Camera

Models	AXIS Q6045 Mk II 60 Hz AXIS Q6045 Mk II 50 Hz	Support for AXIS Camera Application Platform enabling installation of AXIS Cross-line detection and third-party applications, see www.axis.com/acap
Camera		
Image sensor	1/2.8" Progressive Scan CMOS	
Lens	4.44–142.6 mm, F1.6–4.41 Horizontal angle of view: 62.8°–2.23° Vertical angle of view: 36.8°–1.3° Autofocus, Auto-iris	
Day and night	Automatically removable infrared-cut filter	
Minimum illumination	Color: 0.3 lux at 30 IRE F1.6 B/W: 0.03 lux at 30 IRE F1.6	
Shutter time	1/33000 s to 1/3 s with 50 Hz 1/33000 s to 1/4 s with 60 Hz	
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°–450°/s Tilt: 180°, 0.05°–450°/s 32x optical zoom and 12x digital zoom, total 384x zoom E-flip, 256 preset positions, Tour recording, Guard tour, Control queue, On-screen directional indicator, Set new pan 0°, Adjustable zoom speed	
Video		
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline and Main Profiles Motion JPEG	
Resolutions	HDTV 1080p 1920x1080 to 320x180 HDTV 720p 1280x720 to 320x180	
Frame rate	Up to 60/50 fps (60/50 Hz) in HDTV 720p Up to 30/25 fps (60/50 Hz) in HDTV 1080p	
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/MBR H.264	
Image settings	Wide Dynamic Range (WDR): Up to 120 dB depending on scene, manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation: 0°, 180°, text and image overlay, 32 individual 3D privacy masks, image freeze on PTZ, highlight compensation, automatic defog	
Audio		
Audio streaming	Two-way	
Audio compression	AAC-LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz Configurable bit rate	
Audio input/output	Requires multi-connector cable (sold separately) for external microphone or line input, and line output	
Network		
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X ^a network access control, Digest authentication, User access log, Centralized Certificate Management	
Supported protocols	IPv4/v6, HTTP, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH	
System integration		
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF Profile S, specifications at www.onvif.org	
Analytics	Video motion detection, Shock detection, Autotracking, Active Gatekeeper Highlight compensation Basic Analytics (not to be compared with third-party analytics): Object removed, Enter/Exit detector, Fence detector, Object counter, Highlight compensation	
Event triggers	Analytics, Fan, Temperature, Manual trigger, PTZ moving, PTZ preset, Edge storage events	
Event actions	File upload: FTP, SFTP, HTTP, HTTPS network share and email Notification: email, HTTP, HTTPS and TCP External output activation Video recording to edge storage Pre- and post-alarm video buffering PTZ preset, Overlay text, Send SNMP trap Play audio clip, Audio recording to edge storage	
Data streaming	Event data	
Built-in installation aids	Pixel counter	
General		
Casing	IP52-rated metal casing (aluminum), Acrylic (PMMA) clear dome	
Memory	512 MB RAM, 128 MB Flash Battery backed-up real-time clock	
Power	Power over Ethernet Plus (PoE+) IEEE 802.3at, max. 30 W Axis High PoE Midspan 1-port: 100–240 V AC, max. 37 W; 24–34 V DC, max. 19 W; 20–24 V AC, max. 27 VA	
Connectors	RJ45 10BASE-T/100BASE-TX PoE, Multi-connector (cable sold separately) for AC/DC power, 4 configurable alarm inputs/outputs, Mic in, Line mono input, Line mono output to active speaker	
Edge storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com	
Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Humidity 10–85% RH (non-condensing)	
Storage conditions	–40 °C to 60 °C (–40 °F to 140 °F)	
Approvals	EN 55022 Class A, EN 61000–3–2, EN 61000–3–3, EN 61000–6–1, EN 61000–6–2, EN 55024, FCC Part 15 Subpart B Class A, ICES–003 Class A, VCCI Class A, C-tick AS/NZS CISPR 22 Class A KCC KN22 Class A, KN24, IEC/EN/UL 60950–1 IEC/EN 60529 IP52, IEC 60721–4–3 Class 3K3, 3M3, IEC 60068–2 Midspan: EN 60950–1, GS, UL, cUL, CE, FCC, VCCI, CB, KCC, UL-AR	
Weight	Camera: 2.6 kg (5.7 lb); with drop-ceiling mount: 3.2 kg (7.1 lb)	
Dimensions	Hard-ceiling: Ø198 x 240 mm (Ø7.8 x 9.4 in), Drop-ceiling: Ø248 x 243 mm (Ø9.8 x 9.6 in)	
Included accessories	Axis High PoE Midspan 1-port, Recessed mount for hard and drop ceilings, Smoked dome cover Installation Guide, Windows decoder 1-user license	
Optional accessories	Multi-connector cable, AXIS T91A Mounting Accessories, AXIS T81B22 DC 30W Midspan AXIS T90 Illuminators, AXIS T8310 Video Surveillance Control Board, Installation Display, Multi-user decoder license pack	
Video management software	AXIS Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software	
Languages	German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese	
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty	

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).

More information is available at www.axis.com

AXIS Q6045-E Mk II PTZ Dome Network Camera

Outdoor, high-speed PTZ dome with HDTV 1080p and 32x zoom

AXIS Q6045-E Mk II provides HDTV 1080p resolution and fast and precise pan/tilt performance. Endless 360° pan and 32x optical zoom allows wide area coverage and detailed surveillance. Arctic Temperature Control ensures safe start-up in extreme cold, and automatic defog, which detects and digitally filters out fog in the scene for clearer video. It has day and night functionality, maintaining high image quality even in low-light conditions. Active Gatekeeper automatically moves the camera to a preset position when motion is detected in a pre-defined area, tracking the detected object. AXIS Q6045-E Mk II offers built-in analytics such as highlight compensation, object removed and enter/exit detection.

- > **HDTV 1080p and 32x optical zoom**
- > **Outdoor-ready and Arctic Temperature Control**
- > **Vandal-resistant and shock detection**
- > **High Power over Ethernet**

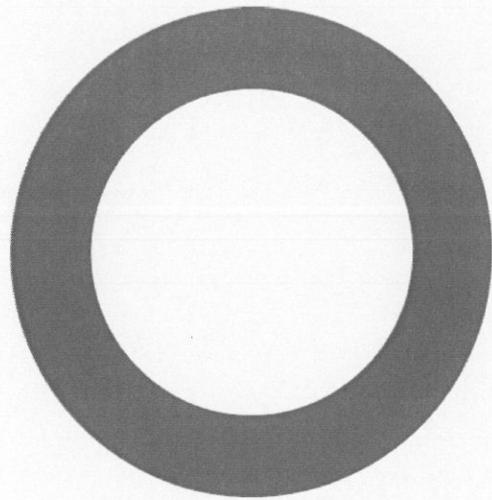


AXIS Q6045-E Mk II PTZ Dome Network Camera

Models	AXIS Q6045-E Mk II 60 Hz AXIS Q6045-E Mk II 50 Hz	Notification: email, HTTP, HTTPS and TCP External output activation Video recording to edge storage Pre- and post-alarm video buffering PTZ preset, Overlay text, Send SNMP trap
Camera		
Image sensor	1/2.8" Progressive Scan CMOS	
Lens	4.44–142.6 mm, F1.6–4.41 Horizontal angle of view: 62.8°–2.23° Vertical angle of view: 36.8°–1.3° Autofocus, Auto-iris	
Day and night	Automatically removable infrared-cut filter	
Minimum illumination	Color: 0.3 lux at 30 IRE F1.6 B/W: 0.03 lux at 30 IRE F1.6	
Shutter time	1/33000 s to 1/3 s with 50 Hz 1/33000 s to 1/4 s with 60 Hz	
Pan/Tilt/Zoom	Pan: 360° endless, 0.05°–450°/s Tilt: 220°, 0.05°–450°/s 32x optical zoom and 12x digital zoom, total 384x zoom E-flip, 256 preset positions, Tour recording, Guard tour, Control queue, On-screen directional indicator, Set new pan 0°, Adjustable zoom speed	
Video		
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline and Main Profiles Motion JPEG	
Resolutions	HDTV 1080p 1920x1080 to 320x180 HDTV 720p 1280x720 to 320x180	
Frame rate	Up to 60/50 fps (60/50 Hz) in HDTV 720p Up to 30/25 fps (60/50 Hz) in HDTV 1080p	
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/MBR H.264	
Image settings	Wide Dynamic Range (WDR): Up to 120 dB depending on scene, manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation: 0°, 180°, text and image overlay, 32 individual 3D privacy masks, image freeze on PTZ, highlight compensation, automatic defog	
Network		
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X ^a network access control, Digest authentication, User access log, Centralized Certificate Management	
Supported protocols	IPv4/v6, HTTP, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP	
System integration		
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF Profile S, specifications at www.onvif.org	
Analytics	Video motion detection, Shock detection, Autotracking, Active Gatekeeper Basic Analytics (not to be compared with third-party analytics): Object removed, Enter/Exit detector, Fence detector, Object counter, Highlight compensation Support for AXIS Camera Application Platform enabling installation of third-party applications, see www.axis.com/acap	
Event triggers	Analytics, Fan, Temperature, Manual trigger, PTZ moving, PTZ preset, Edge storage events Casing open, Heater	
Event actions	File upload: FTP, SFTP, HTTP, HTTPS network share and email	
Data streaming	Event data	
Built-in installation aids	Pixel counter	
General		
Casing	IP66-, NEMA 4X- and IK10-rated metal casing (aluminum), polycarbonate (PC) clear dome, sunshield (PC/ASA)	
Memory	512 MB RAM, 128 MB Flash Battery backed-up real-time clock	
Power	Axis High PoE midspan 1-port: 100–240 V AC, max 74 W	
Connectors	RJ45 10BASE-T/100BASE-TX PoE, RJ45 Push-pull Connector (IP66) included	
Edge storage	Support for SD/SDHC/SDXC card Support for recording to dedicated network-attached storage (NAS) For SD card and NAS recommendations see www.axis.com	
Operating conditions	With 30 W: -20 °C to 50 °C (-4 °F to 122 °F) With 60 W ^b : -50 °C to 50 °C (-58 °F to 122 °F) Humidity 10–100% RH (condensing)	
Storage conditions	-50 °C to 60 °C (-58 °F to 140 °F)	
Approvals	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, C-tick AS/NZS CISPR 22 Class A KCC KN22 Class A, KN24, IEC/EN/UL 60950-1 EN 50121-4, IEC 62236-4, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, NEMA 250 Type 4X IEC/EN/UL 60950-22, IEC 60068-2-30, IEC 60068-2-60, IEC 60068-2-78 IEC/EN 60529 IP66, NEMA TS-2-2003 v 02.06, Subsection 2.2.7, 2.2.8, 2.2.9; IEC 62262 IK10, ISO 4892-2 Midspan: EN 60950-1, GS, UL, cUL, CE, FCC, VCCI, CB, KCC, UL-AR	
Weight	3.7 kg (8.2 lb)	
Dimensions	Ø232 x 280 mm (Ø9.1 x 11.0 in)	
Included accessories	Axis High PoE 60 W Midspan 1-port, RJ45 Push-pull Connector (IP66), Sunshield Installation Guide, Windows decoder 1-user license	
Optional accessories	Smoked dome cover, AXIS T91A Mounting Accessories, AXIS T81B22 DC 30W Midspan AXIS T90 Illuminators, AXIS T8310 Video Surveillance Control Board, Installation Display, Multi-user decoder license pack	
Video management software	AXIS Camera Companion, AXIS Camera Station, Video management software from Axis' Application Development Partners available on www.axis.com/techsup/software	
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese	
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty	

- a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).
b. Arctic Temperature Control enables camera start-up at temperatures as low as -50 °C (-58 °F)

More information is available at www.axis.com



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