

**BOARD OF COUNTY COMMISSIONERS**  
**SARPY COUNTY, NEBRASKA**  
**RESOLUTION AWARDING BID FOR COURTHOUSE CAMERA UPGRADE PROJECT**  
**FOR THE SARPY COUNTY SHERIFF'S OFFICE**

WHEREAS, pursuant to Neb. Rev. Stat. §23-104(6) (Reissue 2012), the County has the power to do all acts in relation to the concerns of the County necessary to the exercise of its corporate powers; and,

WHEREAS, pursuant to Neb. Rev. Stat. §23-103 (Reissue 2012), the powers of the County as a body are exercised by the County Board; and,

WHEREAS, bids for this matter have been solicited and reviewed pursuant to applicable Nebraska State Statutes; and,

WHEREAS, this Board desires to proceed forthwith in order to expedite and facilitate service to the citizens of Sarpy County.

NOW, THEREFORE, be it resolved by this Board of County Commissioners that:

- (1) The low bid of Prime Communications, Inc. for the Courthouse Camera Upgrade Project for Twenty Thousand Two Hundred Twenty Seven Dollars and Sixty Seven Cents (\$20,227.67) and the Optional Parapet Mount Accessories for One Thousand Two Hundred Twenty Four Dollars and Two Cents (\$1,224.02) attached is accepted, ratified, and confirmed.
- (2) This Board's Chairman, Clerk, and Attorney are hereby authorized and directed to execute such ancillary documents as may be required to evidence the contract and take any and all steps necessary or required in order to carry out the terms of such contract after said documents have been reviewed by the Attorney, Fiscal Administrator, and County Administrator.

The above Resolution was approved by a vote of the Sarpy County Board of Commissioners at a public meeting duly held in accordance with applicable law on the 27<sup>th</sup> day of January 2015.

  
Sarpy County Board Chairman

Attest:

SEAL



  
County Clerk

# Sarpy County Purchasing Department

SARPY COUNTY COURTHOUSE  
1210 GOLDEN GATE DRIVE, SUITE 1220  
PAPILLION, NE 68046



Brian Hanson, Purchasing Agent  
(402) 593-2349  
Debby Peoples, Asst. Purchasing Agent  
(402) 593-4164  
Beth Garber, Purchasing/Contract Administrator  
(402) 593-4476

## MEMO

To: Sarpy County Board of Commissioners

From: Beth Garber

Re: Award Bid for Camera Upgrade Project

On January 8, 2015, three (3) bids were opened for the Courthouse Camera Upgrade Project for the Sheriff's Office. After reviewing the bids it is recommended the bid be awarded to the low bidder, Prime Communications, Inc. for \$20,227.67 plus the optional alternate of the parapet mount accessories for \$1,224.02.

Prime Communications is a licensed integrator with Genetic, the video software. Further, Prime has worked with Sarpy on our camera system successfully. Please contact me with any questions.

January 15, 2015

  
Beth Garber

cc: Deb Houghtaling  
Mark Wayne  
Scott Bovick  
Brian Hanson  
Gary Mackeprang  
Captain Yost

## Beth Garber

---

**From:** Gary Mackeprang  
**Sent:** Thursday, January 15, 2015 1:38 PM  
**To:** Rolly Yost  
**Subject:** FWD: RE: Bids

Hello Captain,

At your request, I am making the following recommendation regarding the submittal of sealed bids for the camera update project, I have reviewed the 3 companies' proposals and wish to recommend the bid be awarded to Prime Communications Inc.

There are several reasons for arriving at that recommendation that I would like to enumerate:

- **My work history with the company on prior projects.** Prime Communications Inc. did the preliminary phase work of beginning the transition of the security cameras at the Administration Building of the Courthouse Campus which included replacing external cameras. As such, they became the licensed integrator for the video software licensed by Genetec. All staff who I have worked with have shown superior capabilities and knowledge of the product, the task at hand and how it fit into the overall project. Service requests have been easy to schedule, quickly responded to, and resolved without repeated visits.
- **Cost savings.** During the initial project they worked with me to develop specifications for the video server which will meet our video data processing and storage needs as the project continues - this was done knowing that the machine would be purchased in-house and not part of their bid. By doing so, we were able to save over \$7000. They also worked with me to re-utilize existing equipment to save money during the project. During repair projects at the Sheriff's Office, unrelated to the Courthouse project, they offered alternatives which saved the County more than a thousand dollars over another recommendation. Prime Communications Inc. then moved forward with a suggested correction related to repair a poor install of the original equipment.
- **Familiarity with the products.** Prime Communications Inc. has the highest level of dealership status for the chosen camera brand allowing for quick delivery of product and rapid repair/replacement of warranty items. They also maintain a close and active partnership as an integrator with the company which publishes the video management software.

In addition to the recommendation of the vendor, I would also strongly encourage accepting the optional parapet mount for the outdoor cameras of \$1,224.02. The bid included the direct wall mount of the cameras in a vertical manner on the exterior walls and while this is fully functional and offers aesthetic appeal, I believe that the parapet mounting of the exterior cameras offer enhanced viewing perspectives and greater equipment (camera) protection.

Please let me know if you have any questions or need further information.

---

**From:** Beth Garber  
**Sent:** Monday, January 12, 2015 10:53 AM  
**To:** Gary Mackeprang  
**Subject:** Bids

I will contact Prime and ensure they included the annual software maintenance within their bid. If they did, please review and let me know how you wish to proceed.

Beth Garber  
Purchasing/Contract Administrator  
Sarpy County Purchasing Department  
1210 Golden Gate Drive

Courthouse Camera Upgrade Project  
for the  
Sheriff's Office

Bid Opening:  
2:00 p.m., Thursday  
January 8, 2015

		Miller Electric Co.	Prime Communications, Inc.	Electronic Contracting Co.
Description	Quantity	Extended Price	Extended Price	Extended Price
<b>Indoor Cameras</b>				
Hall of Justice – Courtroom Cameras	8	\$4,248.00	\$3,768.96	\$4,840.00
Hall of Justice – Main Entrance	1	\$531.00	\$471.12	\$605.00
Hall of Justice – Public Counter	1	\$531.00	\$471.12	\$605.00
Administration – Public Stairs	1	\$531.00	\$471.12	\$605.00
West Annex Building – Adult Probation	1	\$248.00	\$226.30	\$270.00
East Annex Building – Adult Probation Drug Testing	1	\$248.00	\$226.30	\$270.00
Farm Bureau Building – Juvenile Probation Lobby	1	\$248.00	\$226.30	\$270.00
<b>Outdoor Cameras</b>				
Hall of Justice – West Entrance	1	\$1,033.00	\$911.58	\$1,285.00
Hall of Justice – North Entrance	1	\$1,033.00	\$911.58	\$1,285.00
Hall of Justice Northeast Entrance	1	\$1,033.00	\$911.58	\$1,285.00
East Annex – Northeast Parking Lot	1	\$1,033.00	\$911.58	\$1,285.00
<b>Cabling &amp; Accessories</b>				
Cabling – All Cameras to Data Closets		\$4,235.00	\$1,577.30	\$1,240.00
<b>Licensing Fees</b>				
Genetec Licensing	18	\$5,250.00	\$2,915.10	\$4,500.00
<b>Software Maintenance Annual Fee</b>				
Annual Software Maintenance Fee				\$540.00
<b>Labor</b>				
Labor – Install all Cameras per Specifications		\$6,360.00	\$6,227.73	\$4,260.00
<b>Total Bid</b>		<b>\$26,562.00</b>	<b>\$20,227.67</b>	<b>\$23,145.00</b>

## AGREEMENT

This Agreement is entered into by and between the County of Sarpy, in the State of Nebraska, a body politic and corporate, and hereinafter "County", and Prime Communications, Inc., hereinafter "Vendor".

WHEREAS, County is desirous of contracting for Courthouse Camera Upgrade Project for the Sheriff's Office; and,

WHEREAS, the Vendor has been awarded this Agreement as a result of the bid made by Vendor in response to the Specifications and Request for Proposals prepared by County;

NOW, THEREFORE, for and in consideration of the declarations and mutual promises and covenants contained herein, the County and Vendor agree as follows:

### I. DUTIES OF VENDOR

- A. Services to be rendered by Vendor under this Agreement shall be all those services necessary and proper for the installation and materials for Courthouse Camera Upgrade Project in conformity with each and every term, condition, specification, and requirements of the Bid Specifications and the Bid submitted by the Vendor.
- B. All provisions of each document and item referred to in Paragraph A above shall be strictly complied with the same as if rewritten herein, and in the event of conflict among the provisions of said documents, the provisions most favorable to the County shall govern.
- C. Prior to the commencement of any work, Vendor will place on file with the Sarpy County Clerk, the required certificates of insurance, if applicable.
- D. The Vendor agrees to comply with the residency verification requirements of Neb. Rev. Stat. §4-108 through §4-114. The Vendor is required and hereby agrees to use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska. A federal immigration verification system means the electronic verification of the work authorization program authorized by the Illegal Immigration Reform and immigrant Responsibility Act of 1996, 8 U.S.C. 1324a, known as the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee.

If the Vendor is an individual or sole proprietorship, the following applies:

1. The Vendor must complete the United States Citizenship Attestation Form, available on the Department of Administrative Services website at [www.das.state.ne.us](http://www.das.state.ne.us).
2. If the Vendor indicates on such attestation form that he or she is a qualified alien, the Vendor agrees to provide the U.S. Citizenship and Immigration Services

documentation required to verify the Vendor's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.

3. The Vendor understands and agrees that lawful presence in the United States is required and the Vendor may be disqualified or the contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. Sect. 4-108.
- E. Vendor will submit an invoice to County for work completed based on the amounts specified in Vendor's bid. Such invoices shall be submitted to:

Sheriff's Office  
Attn: Capt. Yost  
8335 Platteview Road  
Papillion, NE 68046

- F. The County and Vendor hereto specifically acknowledge, stipulate and agree that each and every term of the Bid Specifications and the Vendor's bid constitutes an essential term of this Agreement, and that, therefore, any violation of any term, condition, provision, or requirement constitutes a material breach hereunder, for which County shall have every right under the law to terminate this Agreement, and obtain any and all relief necessary.

## II. DUTIES OF COUNTY

In return for full, faithful and diligent rendering of services set forth above, County agrees to pay to Vendor the amount specified in Vendor's bid upon submission of the required invoice and satisfactory completion of all required work.

## III. BREACH

Should Vendor breach, violate, or abrogate any term, condition, clause or provision of this agreement, the County shall notify Vendor in writing that such an action has occurred. If satisfactory provision does not occur within ten (10) days from such written notice, the County may, at its option, terminate this agreement and obtain an alternate provider to provide all required materials. This provision shall not preclude the pursuit of other remedies for breach of contract as allowed by law.

## IV. SAVINGS CLAUSE

This Agreement shall be interpreted, construed and enforced under the laws of the State of Nebraska. It is understood and agreed by the County and Vendor hereto that if any part, term, condition, or provision of this Agreement is held to be illegal or in conflict with any law of the State of Nebraska or of the United States, the validity of the remaining parts, terms, conditions, or provisions shall not be affected, and the rights and obligations of the County and Vendor shall be construed and enforced as if the Agreement did not contain the particular part, term, condition, or provision held to be invalid.

V. SCOPE OF AGREEMENT

This Agreement, along with the Bid Specifications, and Bid by Vendor contains the entire Agreement between the County and Vendor, and there are no other written or oral promises, contracts or warrants which may affect it. This Agreement cannot be amended except by written agreement of both the County and Vendor. Notice to the County and Vendor shall be given in writing to the agents for each party named below:

County: Ms. Debra Houghtaling  
Clerk of Sarpy County  
1210 Golden Gate Drive, Suite 1250  
Papillion, NE 68046

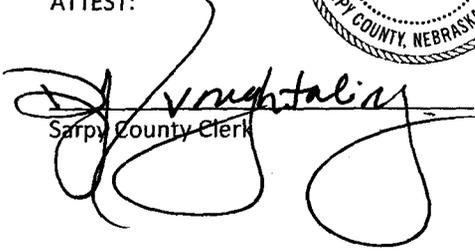
Vendor: Mr. Dave Kanne  
Prime Communications, Inc.  
22145 West Maple Road  
Elkhorn, NE 68022

IN WITNESS WHEREOF, we the contracting parties, by our respective and duly authorized agents, hereto affix our signatures and seals in duplicate this 27<sup>th</sup> day of January, 2014.

(Seal)



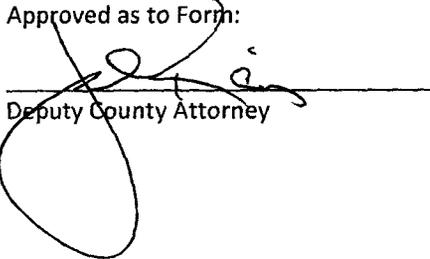
ATTEST:

  
Sarpy County Clerk

COUNTY OF SARPY, NEBRASKA,  
A body Politic and Corporate

  
Chairperson  
Sarpy County Board of Commissioners

Approved as to Form:

  
Deputy County Attorney

Vendor: Prime Communications, Inc.

By: Brett Dammatt

Title: CFO

1:40 PM  
SW



DeB Houghtaling  
Sarpy County Clerk's Office  
1210 Golden Gate Dr. Suite 1250  
Papillion, NE 68046  
Courthouse Camera Upgrade Project  
For Sheriff's Office  
Bid Opening 2:00 PM, Thursday Jan

On behalf of Prime Communications Inc. I would like to thank Sarpy County for allowing us to participate in the Courthouse Camera Upgrade project. We are confident that our proposal will meet or exceed the County's expectations. Over the years PCI has established itself as a premier provider of cost effective solutions in the area of physical security. We have accomplished this by developing a thorough working knowledge of our products and effectively communicating with our clients to ensure an on time on budget project. If awarded PCI will bring this experience along with our customer support skills to make certain that there will be a successful implementation.

Thank you for your consideration.

Sincerely,

Dave Kanne

Senior Account Executive

Prime Communications Inc.

3

COMPANY NAME: Prime Communications, Inc.

**Sarpy County, Nebraska  
Courthouse Camera Upgrade Project  
Bid Form**

Description	Quantity	Extended Price
<b>Indoor Cameras</b>		
Hall of Justice – Courtroom Cameras	8	\$ 3,768.96
Hall of Justice – Main Entrance	1	\$ 471.12
Hall of Justice – Public Counter	1	\$ 471.12
Administration – Public Stairs	1	\$ 471.12
West Annex Building – Adult Probation	1	\$ 226.30
East Annex Building – Adult Probation Drug Testing	1	\$ 226.30
Farm Bureau Building – Juvenile Probation Lobby	1	\$ 226.30
<b>Outdoor Cameras</b>		
Hall of Justice – West Entrance	1	\$ 911.58
Hall of Justice – North Entrance	1	\$ 911.58
Hall of Justice Northeast Entrance	1	\$ 911.58
East Annex – Northeast Parking Lot	1	\$ 911.58
<b>Cabling &amp; Accessories</b>		
Cabling – All Cameras to Data Closets		\$ 1,577.30
<b>Licensing Fees</b>		
Genetec Licensing	18	\$ 2,915.10
<b>Labor</b>		
Labor – Install all Cameras per Specifications		\$ 6,227.73
<b>Total Bid</b>		<b>\$ 20,227.67</b>

\*Prices are to be F.O.B. – Various Locations, Sarpy County, Nebraska

\*\*Bid Form shall include all materials and labor for a turnkey solution.

ESTIMATED INSTALLATION START DATE: 1/19/15

ESTIMATED INSTALLATION COMPLETION: 2/6/15

**Company Information**

Years in business: 14

# of employees 108

Total sales last 3 years 2012 \$13.7M  
2013 \$13.8M  
2014 \$20M

**References**

Company Name: Cornhusker Bank  
Address: 1101 Saunders Ave Lincoln, NE 68521  
Contact Name: Royce Jeffries Phone Number: 402-434-9332  
Date of Purchase: 12/17/12 Email: RoyceJ@CornhuskerBank.com

Company Name: Bellevue Public Schools  
Address: 1600 Highway 370 Bellevue, NE 68005  
Contact Name: Greg Boettger Phone Number: 402-293-5066  
Date of Purchase: 2/12/13 Email: greg.boettger@bpsne.net

Company Name: Metropolitan Utilities District  
Address: 3100 South 61st Ave Omaha, NE 68106  
Contact Name: Jeff Blackburn Phone Number: 402-504-7669  
Date of Purchase: 12/14/12 Email: Jeff\_blackburn@mudnebr.com

I certify that this bid is submitted in accordance with the specifications issued by Sarpy County. I affirm that the original Specifications have not been altered in any way. Any alteration of the original Specifications, outside of an alternate bid, may be considered grounds for refusal of the bid.

I acknowledge receipt of the following addenda (if applicable):

Addendum #1	<u>DK</u>
Addendum #2	<u>DK</u>
" #3	<u>DK</u>
" #4	<u>DK</u>

**Attachments:** **Literature/Cut-sheets**  
**Warranty Information**

Prime Communications, Inc

Company Name



Authorized Signature

22145 W Maple Road

Address

Elkhorn, NE 68022

City, State & Zip

Dave Kanne

Company Representative (Please print)

402-884-8473

Telephone Number

402-289-4263

Fax Number

dkanne@primecominc.com

E-Mail Address

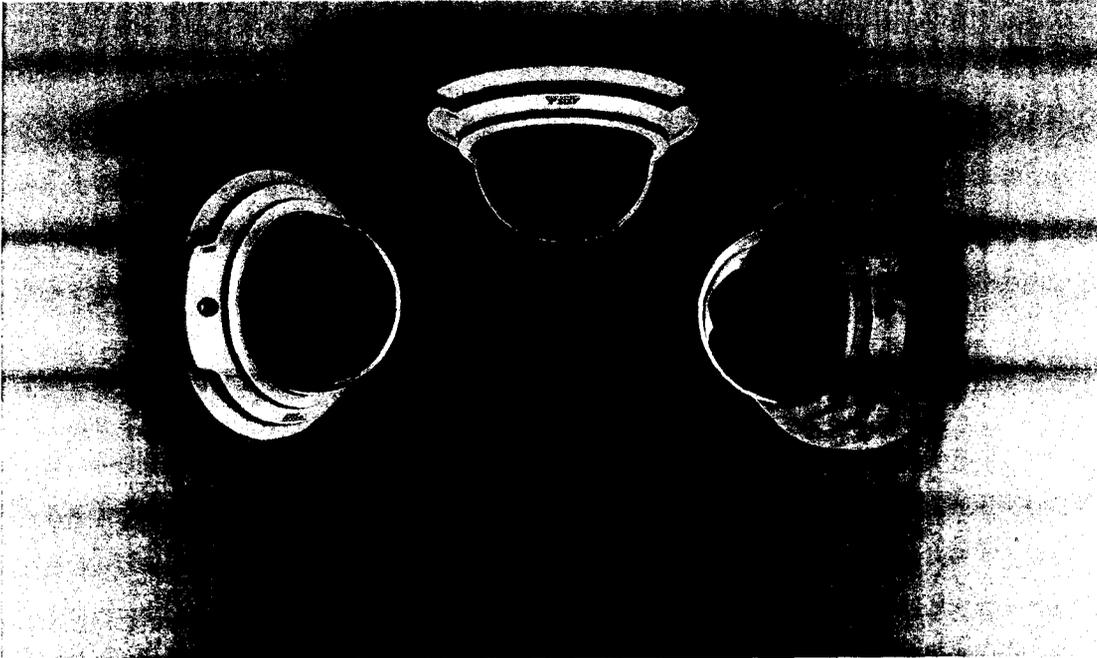
**\*NOTE: Sarpy County is tax exempt and will provide the proper form upon request.**

**EXCEPTIONS/CLARIFICATIONS/COMMENTS**

1. Sales Tax
2. PoE Powered Switch Ports
3. Servers & Workstations
4. 120V Power
5. Parapet Mounts are NOT Included
6. Optional Parapet Mount Accessories Add \$1,224.02
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

## AXIS P33 Network Camera Series – Indoor models

Fixed domes for any environment with remote focus and zoom.



- > Exceptional image quality including 5 MP and HDTV
- > WDR with dynamic capture
- > Lightfinder technology
- > Built-in IR illumination
- > Remote focus and zoom
- > P-Iris control

AXIS P33 Network Cameras constitute a series of indoor and outdoor-ready fixed domes. These cameras are ideal for unobtrusive video surveillance, day and night, in exposed areas such as city surveillance, airports, railway stations, retail stores, office buildings, museums, schools and university campuses.

AXIS P33 Series offers models with exceptional image quality from SVGA resolution up to 5 megapixel, including SMPTE-compliant HDTV 720p and 1080p video. AXIS P33 Series provides multiple, individually configurable H.264 and Motion JPEG video streams.

The SVGA and HDTV 720p/1MP models support Axis' Lightfinder technology, which makes these cameras extremely sensitive to low light. AXIS P3384-V that additionally supports wide dynamic range (WDR) with 'dynamic capture', provides outstanding video quality in the most demanding conditions with strong variations in light. The 5 megapixel model, AXIS P3367-V, can cover a large area with exceptional detail and light sensitivity. All AXIS P33 models support P-Iris control for optimal image clarity.

AXIS P3364-LV incorporates new long-life LED technology that is highly power-efficient. Adjustable in angle and intensity, the built-in IR solution offers easy configuration optimizing for the scene.

All AXIS P33 cameras support the remote focus capability that eliminates hands-on focusing at the camera, and remote zoom that allows the camera's angle of view to be optimized.

All AXIS P33 cameras offer digital pan/tilt/zoom and the 3-megapixel and 5-megapixel models additionally provide multi-view streaming. AXIS P33 Series has low, environmental-friendly power consumption, supplied by standard Power over Ethernet (IEEE 802.3af).



## Fixed domes designed for efficient installation

AXIS P33 Network Cameras are designed for professional video surveillance with easy and reliable installation in focus. Indoor models of AXIS P33 Series are the perfect choice for a wide range of demanding video applications.

### Lightfinder technology

The SVGA and HDTV 720p/1MP models of AXIS P33 Series incorporate Axis' unique Lightfinder technology. The outstanding light sensitivity, with maintained colors even in very poor lighting conditions, is obtained by a combination of Axis' expertise in image processing, system-on-chip development and selection of the best optical components.

For more on Lightfinder technology, go to:  
[www.axis.com/corporate/corp/tech\\_papers.htm](http://www.axis.com/corporate/corp/tech_papers.htm)

### Wide dynamic range - dynamic capture

AXIS P3384-V that supports WDR with 'dynamic capture' is ideal for surveillance in areas with strong variations in light, for instance close to large windows and entrances, where the sunlight creates both very bright zones and dark shadows. AXIS P3384-V enables easy and clear identification of people and objects both in bright and dark areas.

### Built-in IR illumination

AXIS P3364-LV features built-in IR illumination based on new, long-life LED technology that is highly power efficient. This results in high-quality, low-noise video also when the environment is completely dark.

### P-Iris control

AXIS P33 Series features the advanced precise iris control that comprises a special P-Iris lens, together with dedicated software in the camera,

to set the best iris position for optimal depth of field, resolution, image contrast and clarity. Good depth of field implies that objects at different distances from the camera are in focus simultaneously.

For more on P-Iris and iris control, go to:  
[www.axis.com/corporate/corp/tech\\_papers.htm](http://www.axis.com/corporate/corp/tech_papers.htm)

### Easy installation

AXIS P33 Network Cameras offer unique installation capabilities including remote focus and zoom. The remote focus feature enables convenient focusing over the network, eliminating the need for hands-on fine tuning at the camera. The remote zoom functionality ensures that the camera's angle of view is optimized for the area to be monitored. The pixel counter assures that the required pixel resolution is met. The built-in IR solution in AXIS P3364-LV automatically adapts the illumination angle with the zoom level, which simplifies installation.

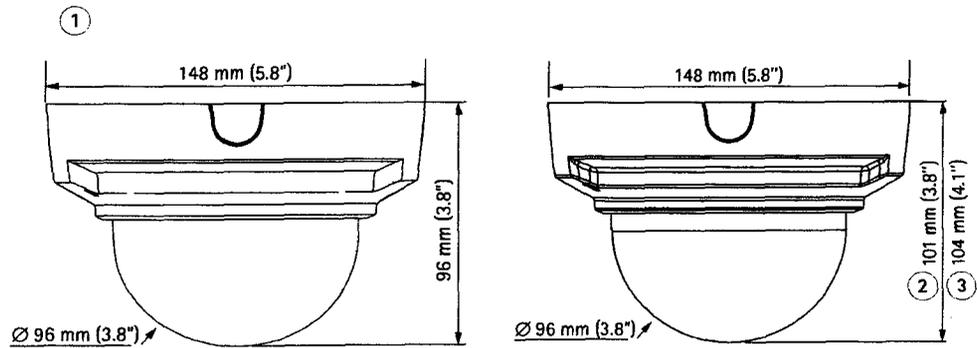
### Mounting options

AXIS P33 Series offers a wide range of optional kits for indoor installations, for example, for mounting on a wall, pole or corner. The IP51-rated drop ceiling mount kit protects the camera from condensation and dust that may exist in the plenum space above the drop ceiling.



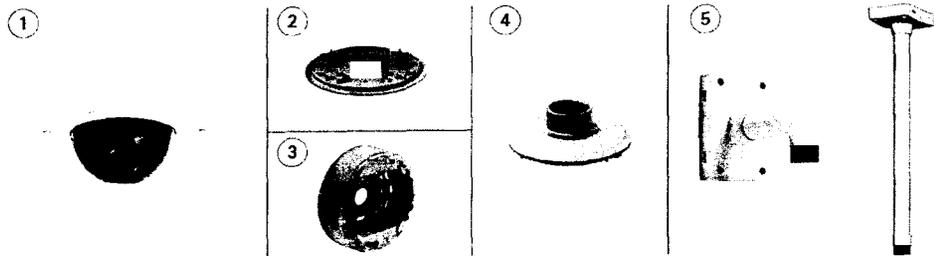
## Dimensions

1. AXIS P3353/P3354/P3363-V/  
P3364-V/P3364-LV
2. AXIS P3346
3. Vandal-resistant models  
AXIS P3384-V/P3346-V/P3367-V



## Optional accessories

1. IP51-rated drop-ceiling mount kit with transparent or smoked cover
2. Mounting bracket
3. AXIS T94H01P Conduit Back Box
4. Pendant adapter kit
5. AXIS T91A Brackets



## Technical Specifications - AXIS P33 Network Camera Series - Indoor models

<b>Models</b>	<p>AXIS P3353: SVGA, Lightfinder, tamper resistance                      AXIS P3354: 1 MP, Lightfinder, tamper resistance                      AXIS P3363-V: SVGA, Lightfinder, vandal resistance, audio, I/O ports                      AXIS P3364-V: 1 MP, Lightfinder, vandal resistance, audio, I/O ports                      AXIS P3364-LV: 1 MP, IR illumination, Lightfinder, vandal resistance, audio, I/O ports                      AXIS P3384-V: 1 MP, WDR - dynamic capture, Lightfinder, vandal resistance, audio, I/O ports                      AXIS P3346: 3 MP, multi-view, audio, I/O ports                      AXIS P3346-V: 3 MP, multi-view, vandal resistance, audio, I/O ports                      AXIS P3367-V: 5 MP, multi-view, vandal resistance, audio, I/O ports</p> <p><i>Note: 6 mm and 12 mm as suffix refers to lens model!                      AXIS P3301-V and AXIS P3304-V are not part of AXIS P33 Series</i></p>	<b>Day and night</b>	Automatically removable infrared-cut filter
<b>Camera</b>		<b>Minimum illumination</b>	<p>AXIS P3353/P3354/P3363-V/P3364-V 6 mm: Color: 0.1 lux, F1.2, B/W: 0.02 lux, F1.2                      AXIS P3364-LV 6 mm: Color: 0.12 lux, F1.2, B/W: 0.03 lux, F1.2                      AXIS P3353/P3354/P3363-V/P3364-V 12 mm: Color: 0.15 lux, F1.4, B/W: 0.03 lux, F1.4                      AXIS P3364-LV 12 mm: Color: 0.18 lux, F1.4, B/W: 0.04 lux, 0 lux with IR illumination on                      AXIS P3384-V with dynamic capture: Color: 0.5 lux, F1.2, B/W: 0.08 lux, F1.2                      AXIS P3384-V with Lightfinder: Color: 0.15 lux, F1.2, B/W: 0.03 lux, F1.2                      AXIS P3346-V: Color: 0.5 lux, F1.2, B/W: 0.08 lux, F1.2                      AXIS P3367-V: Color: 0.2 lux, B/W: 0.04 lux, F1.2</p>
<b>Image sensor</b>	<p>AXIS P3353/P3363-V: Progressive scan RGB CMOS 1/3"                      AXIS P3354/P3364-V/P3364-LV: Progressive scan RGB CMOS 1/3"                      AXIS P3384-V: Progressive scan RGB CMOS 1/3"                      AXIS P3346-V: Progressive scan RGB CMOS 1/3" (effective)                      AXIS P3367-V: Progressive scan RGB CMOS 1/3.2"</p>	<b>Shutter time</b>	<p>AXIS P3353/P3354/P3363-V/P3364-V/P3364-LV:                      1/24500 s to 2 s with power line frequency 50 Hz                      1/29500 s to 2 s with power line frequency 60 Hz                      AXIS P3384-V with dynamic capture:                      1/192 s to 1/37 s with power line frequency 50 Hz                      1/231 s to 1/44 s with power line frequency 60 Hz                      AXIS P3384-V with Lightfinder:                      1/24500 s to 2 s with power line frequency 50 Hz                      1/29500 s to 2 s with power line frequency 60 Hz                      AXIS P3346-V: 1/35500 s to 1/6 s                      AXIS P3367-V: 1/28000 s to 2 s</p>
<b>Lens</b>	<p>Varifocal, Remote focus and zoom, P-Iris control, IR corrected, Megapixel resolution                      AXIS P3353/P3354/P3363-V/P3364-V/P3364-LV 6 mm:                      2.5-6 mm, 105°-49° view<sup>a</sup>, F1.2                      AXIS P3353/P3354/P3363-V/P3364-V/P3364-LV: 3.3-12 mm,                      82°-24° view<sup>a</sup>, F1.4                      AXIS P3384-V: 3-9 mm, 84°-30° view<sup>a</sup>, F1.2                      AXIS P3346-V: 3-9 mm, 84°-30° view<sup>a</sup>, F1.2                      AXIS P3367-V: 3-9 mm, 84°-30° view<sup>a</sup>, F1.2</p>	<b>Camera angle adjustment</b>	<p>AXIS P3353/P3354/P3363-V/P3364-V/P3364-LV: Pan 360°, tilt 170°, rotation 340°                      AXIS P3384-V/P3346-V/P3367-V: Pan 360°, tilt 160°, rotation 340°</p>

<b>Video</b>		<b>Data streaming</b>	Event data
<b>Video compression</b>	H.264 Baseline and Main Profile (MPEG-4 Part 10/AVC) Motion JPEG	<b>Built-in installation aids</b>	Remote zoom, Remote focus, Pixel counter AXIS P3364-LV: adjustable IR illumination angle and intensity
<b>Resolutions</b>	AXIS P3353/P3363-V: 800x600 (SVGA) to 160x90 AXIS P3346-V: 2048x1536 (3 MP) to 160x90 AXIS P3367-V: 2592x1944 (5 MP) to 160x90	<b>General</b>	
<b>Frame rate</b>	AXIS P3353/P3354/P3363-V/P3364-V/P3364-LV/P3384-V: 25/30 fps with power line frequency 50/60 Hz AXIS P3346-V: 3 MP capture mode: 20 fps in all resolutions, HDTV 1080p (1920x1080) and 2 MP 4:3 (1600x1200) capture modes: 30 fps in all resolutions AXIS P3367-V: 5 MP capture mode: 12 fps in all resolutions; and capable of all AXIS P3346-V capture modes	<b>Casing</b>	Polycarbonate transparent cover, Aluminum inner camera module with encapsulated electronics AXIS P3353/P3354/P3346: Tamper-resistant polycarbonate casing AXIS P3363-V/P3364-V/P3364-LV/P3384-V/ P3346-V/P3367-V: IK10 impact-resistant casing with aluminum base Color: White NCS S 1002-B. For repainting instructions and impact on warranty, contact your Axis partner
<b>Video streaming</b>	Multiple, individually configurable streams in H.264 and Motion JPEG, Controllable frame rate and bandwidth, VBR/CBR H.264	<b>Memory</b>	256 MB RAM, 128 MB Flash AXIS P3367-V: 512 MB RAM, 128 MB Flash
<b>Multi-view streaming</b>	AXIS P3346/P3346-V/P3367-V: Up to 8 individually cropped out view areas AXIS P3346-V: When streaming 4 view areas and 1 overview in VGA resolution, the frame rate is 20 fps per stream (3 MP capture mode) AXIS P3367-V: 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)	<b>Power</b>	Power over Ethernet IEEE 802.3af/802.3at Type 1 AXIS P3353/P3354/P3363-V/P3364-V: Class 2; max 5.9 W AXIS P3364-LV: IR illumination on: Class 3; max 12.1 W; IR illumination off: max 5.9 W AXIS P3384-V: Class 2; max 5.9 W AXIS P3346-V: Class 2; max 6.4 W AXIS P3367-V: Class 2; max 6.2 W
<b>Pan/Tilt/Zoom</b>	Digital PTZ AXIS P3346/P3346-V/P3367-V: Preset positions, Guard tour	<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX PoE All models except AXIS P3353/P3354: Terminal block for 1 alarm input and 1 output, 3.5 mic/line in, 3.5 mm line out
<b>Image settings</b>	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Wide dynamic range - dynamic contrast Rotation 0°, 90°, 180°, 270°, including Corridor Format AXIS P3384-V: Wide dynamic range - dynamic capture: Up to 120 dB (0.5-500,000 lux) depending on scene	<b>IR illumination</b>	AXIS P3364-LV: Power-efficient, long-life 850 nm IR LED's with adjustable angle of illumination and intensity. Range of reach up to 30 m (100 ft) depending on scene
<b>Audio</b>		<b>Edge storage</b>	SD/SDHC/SDXC slot supporting memory card up to 64 GB (card not included) Support for recording to network share (network-attached storage or file server)
<b>Audio streaming</b>	All models except AXIS P3353/P3354: Two-way	<b>Operating conditions</b>	0 °C to 50 °C (32 °F to 122 °F) Humidity 10-85% RH (non-condensing)
<b>Audio compression</b>	All models except AXIS P3353/P3354: AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Configurable bit rate	<b>Approvals</b>	EN 55022 Class B, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, ICES-003 Class B digital, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, EN/IEC/UL 60950-1, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78, ITE, KCC AS/NZS CISPR 22 AXIS P3364-LV: EN 62471 AXIS P3363-V/P3364-V/P3364-LV/P3384-V/ P3346-V/P3367-V: IEC 62262 IK10
<b>Audio input/output</b>	All models except AXIS P3353/P3354: External microphone input or line input, Line output, Built-in microphone (can be disabled)	<b>Weight</b>	AXIS P3353/P3354: 430 g (0.9 lb) AXIS P3363-V/P3364-V: 650 g (1.4 lb) AXIS P3364-LV: 670 g (1.5 lb) AXIS P3346: 490 g (1.1 lb) AXIS P3384-V/P3346-V/P3367-V: 700 g (1.6 lb)
<b>Network</b>		<b>Included accessories</b>	Installation Guide, Installation and Management Software CD, Windows decoder 1-user license All models except AXIS P3364-LV: Smoked transparent cover All models except AXIS P3353/P3354: Connector kit
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>c</sup> encryption, IEEE 802.1X <sup>c</sup> network access control, Digest authentication, User access log	<b>Video management software</b>	AXIS Camera Station and video management software from Axis' Application Development Partners (not included). For more information, see <a href="http://www.axis.com/products/video/software">www.axis.com/products/video/software</a>
<b>Supported protocols</b>	IPv4/v6, HTTP, HTTPS <sup>c</sup> , SSL/TLS <sup>c</sup> , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	<b>System integration</b>	
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>a</sup> and AXIS Camera Application Platform; specifications at <a href="http://www.axis.com">www.axis.com</a> AXIS Video Hosting System (AVHS) with One-Click Camera Connection. ONVIF; specification at <a href="http://www.onvif.org">www.onvif.org</a>	<b>Intelligent video</b>	
<b>Intelligent video</b>	Video motion detection, Active tampering alarm, AXIS Camera Application Platform enabling installation of additional applications All models except AXIS P3353/P3354: Audio detection	<b>Event triggers</b>	
<b>Event triggers</b>	Intelligent video, Edge storage events All models except AXIS P3353/P3354: External input	<b>Event actions</b>	
<b>Event actions</b>	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP Video recording to edge storage Pre- and post-alarm video buffering All models except AXIS P3353/P3354: External output activation, Audio recording to edge storage, Play audio clip AXIS P3346/P3346-V/P3367-V: Preset positions, Guard tour	<p>a. Horizontal angle of view</p> <p>b. 1400x1050 (1.4 MP) scaled resolution available via VAPIX<sup>a</sup></p> <p>c. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<a href="http://www.openssl.org/">http://www.openssl.org/</a>), and cryptographic software written by Eric Young (<a href="mailto:ey@cryptsoft.com">ey@cryptsoft.com</a>).</p> <p>More information is available at <a href="http://www.axis.com">www.axis.com</a></p>	

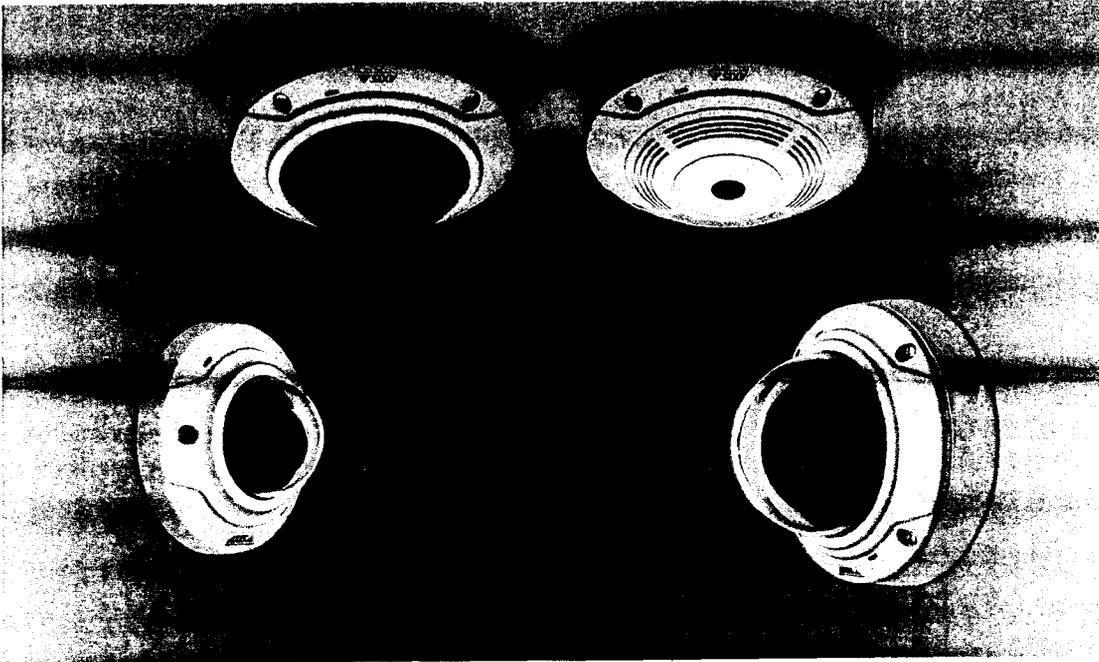
M3004-U



DATASHEET

## AXIS M30 Network Camera Series

Fixed mini domes with HDTV and 360°/180° panoramic views



- > Compact, vandal- and dust-resistant design
- > Wide angle and 360°/180° panoramic views
- > HDTV video quality
- > Easy, flexible installation
- > Edge storage

AXIS M30 Series addresses the market's need for affordably priced, highly discreet and easy-to-install indoor fixed domes. The series offers HDTV performance and 360°/180° panoramic views and is ideal for retail stores, hotels, schools and offices with tight budgets for video surveillance.

Providing superb video quality, AXIS M30 cameras range from the palm-sized AXIS M3004-V and AXIS M3005-V with HDTV performance, to the wide-angle AXIS M3006-V with 3-megapixel resolution, and AXIS M3007-P/-PV, 5-megapixel fixed domes that provide a 360° view when ceiling mounted or 180° view when wall mounted.

All AXIS M30 cameras, except for AXIS M3007-P, are vandal and dust-resistant. For those cameras, black or white skin covers that hide the mounting screws are available. The skin covers can be painted in any color to suit interior design. The cameras can be mounted on walls or ceilings. AXIS M3007-P is instead even more discreet with its smoke-detector look.

AXIS M3004-V, AXIS M3005-V and AXIS M3006-V cameras have a 3-axis camera angle adjustment for flexible installation. The three cameras also support Axis' Corridor Format for vertically oriented video streams. All AXIS M30 cameras come focused at delivery.

AXIS M30 cameras support AXIS Camera Application Platform for intelligent video applications such as people counting. AXIS M3006-V and AXIS M3007-P/-PV have substantial capacity for video analytics.

The cameras offer a convenient video management solution with their built-in memory card slot for edge storage and support for software such as the complimentary AXIS Camera Companion.



# Affordable, compact and easy-to-install fixed domes with superb video quality

## HDTV and multi-megapixel models

AXIS M30 cameras share a discreet form factor and are designed for quick and easy installation. The models—with different viewing angles, resolution, frame rate and intelligent video capacity—have been optimized to provide best-in-class performance for the different application needs of price-sensitive customers.

AXIS M3007-P/-PV cameras have a 5-megapixel sensor that enables detailed, high-quality 360° and 180° panoramic views. AXIS M3006-V not only supports HDTV 1080p but can also provide 3-megapixel video streams with 50% more resolution than HDTV 1080p. With a 134° angle of view, AXIS M3006-V can provide full coverage of an area when installed near a corner. Meanwhile, the palm-sized AXIS M3004-V and AXIS M3005-V provide the smallest form factor. AXIS M3004-V supports full frame rate 1-megapixel/HDTV 720p performance, while AXIS M3005-V delivers HDTV 1080p.



AXIS M3006-V: Corner view

## Digital PTZ and multi-view streaming

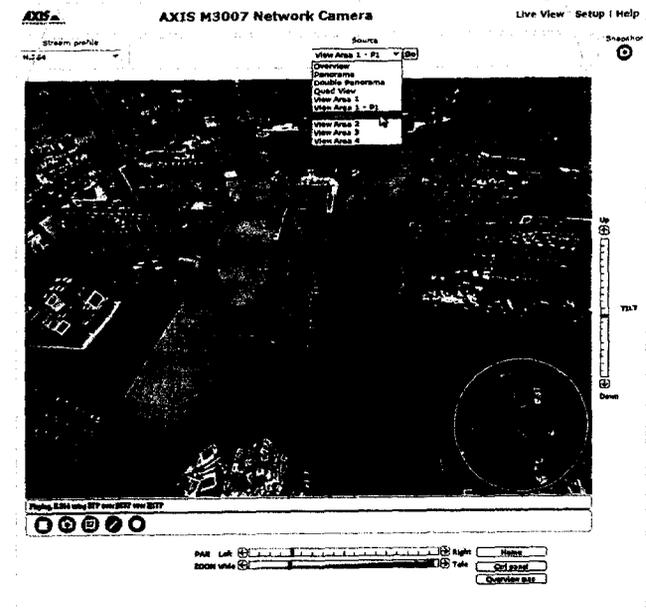
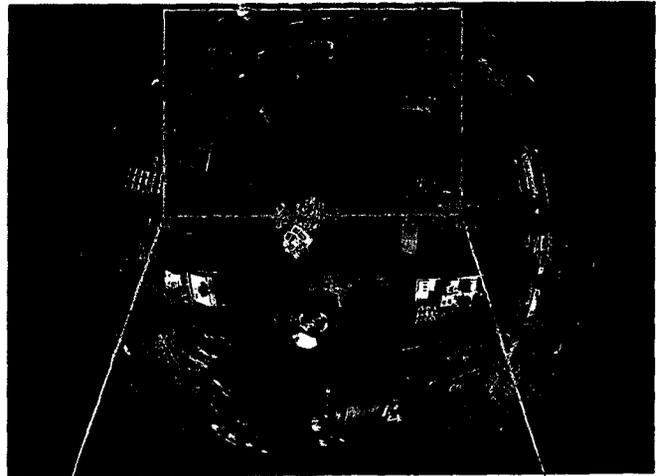
The digital pan/tilt/zoom functionality in all AXIS M30 cameras can be seen as enabling the cameras to have a "digital varifocal lens" that allows the cameras' angle of view to be adjusted remotely after the physical installation. This functionality is especially useful with AXIS M3006-V because of its wide angle of view and high resolution.

When digital PTZ is used together with multi-view streaming in AXIS M3006-V, different areas of a scene can be cropped from the full view and streamed simultaneously for viewing or recording. This can help minimize the bit rate and storage needs.

## 360°/180° fixed domes

AXIS M3007-P/-PV are 360°/180° fixed domes that can cover an area of more than 650 m<sup>2</sup> (7,000 sq ft). They can be used to help detect activities, track the flow of people and improve area management.

AXIS M3007-P/-PV cameras support several viewing modes: 360° overview and dewarped views such as panorama, double panorama and quad views. The quad view mode is suitable, for instance, when the camera is positioned at an intersection of corridors. The camera also provides view area modes where users can digitally pan, tilt and zoom in on areas of interest.



Top: AXIS M3007-P/-PV: 360° overview of a 240 m<sup>2</sup> (2,600 sq. ft.) area  
Below: AXIS M3007-P/-PV: View area mode with digital pan/tilt/zoom functionality

# Technical Specifications - AXIS M30 Network Camera Series

## Models

AXIS M3005-V: 2 MP / HDTV 1080p, vandal and dust resistant  
 AXIS M3006-V: 3 MP / HDTV 1080p, vandal and dust resistant  
 AXIS M3007-P: 5 MP, 360°/180°, discreet smoke-detector look  
 AXIS M3007-PV: 5 MP, 360°/180°, vandal and dust resistant

Note: AXIS M3014 is handled separately from the AXIS M30 Series

## Camera

<b>Image sensor</b>	AXIS M3004-V: 1/4" progressive scan RGB CMOS AXIS M3005-V: 1/2.7" progressive scan RGB CMOS AXIS M3006-V: 1/3.6" (effective) progressive scan RGB CMOS AXIS M3007-P/-PV: 1/3.2" progressive scan RGB CMOS
<b>Lens</b>	M12 mount, F2.8, Fixed iris, Megapixel resolution AXIS M3004-V: 2.8 mm, 80° view <sup>a</sup> AXIS M3005-V: 2.8 mm, 118° view <sup>a</sup> AXIS M3006-V: 1.6 mm, 134° view <sup>a</sup> AXIS M3007-P/-PV: 1.3 mm, 187° view <sup>a</sup>
<b>Light sensitivity</b>	AXIS M3004-V/M3005-V: 1.5–100000 lux, F2.8 AXIS M3006-V/M3007-P/M3007-PV: 0.6–200000 lux, F2.8
<b>Shutter time</b>	AXIS M3004-V/M3005-V: 1/8000 s to 1/6 s AXIS M3006-V: 1/30500 s to 2 s AXIS M3007-P/-PV: 1/24000 s to 2 s
<b>Camera angle adjustment</b>	AXIS M3004-V/M3005-V: Pan ±175°, tilt 56°, rotation ±175° AXIS M3006-V: Pan ±180°, tilt 45°, rotation ±178° AXIS M3007-P/-PV: Rotation ±180°

## Video

<b>Video compression</b>	H.264 Main Profile (MPEG-4 Part 10/AVC), Motion JPEG AXIS M3006-V/M3007-P/M3007-PV: Also H.264 Baseline Profile
<b>Resolutions</b>	AXIS M3004-V: 1280x800 (1 MP) to 320x240 AXIS M3005-V: 1920x1080 (HDTV 1080p) to 320x240 AXIS M3006-V: 2048x1536 (3 MP) to 160x90 AXIS M3007-P/-PV: 2592x1944 (5 MP) to 160x90
<b>Frame rate</b>	AXIS M3004-V/M3005-V: 25/30 fps with power line frequency 50/60 Hz AXIS M3006-V: 3 MP capture mode: 16/20 fps with power line frequency 50/60 Hz HDTV 1080p (1920x1080) and 2 MP (1600x1200) capture modes: 25/30 fps with power line frequency 50/60 Hz AXIS M3007-P/-PV: 12 fps in 360° overview and panoramic views
<b>Video streaming</b>	Multiple, individually configurable streams in H.264 and Motion JPEG, Controllable frame rate and bandwidth, VBR/CBR H.264
<b>Multi-view streaming</b>	AXIS M3006-V: Up to 8 individually cropped out view areas. When streaming 4 view areas and 1 overview in VGA resolution, the frame rate is 16/20 fps per stream with power line frequency 50/60 Hz (3 MP capture mode) AXIS M3007-P/-PV: 360° overview, Dewarped panorama, double panorama and quad views. Up to 4 individually cropped out and dewarped view areas. When streaming 4 dewarped view areas and one 360° overview in VGA resolution, the frame rate is 10 fps per stream
<b>Pan/Tilt/Zoom</b>	AXIS M3004-V/M3005-V: Digital PTZ AXIS M3006-V: Digital PTZ, Preset positions, Guard tour AXIS M3007-P/-PV: Digital PTZ of view areas, Preset positions, Guard tour. Digital PT of panorama, double panorama and quad views
<b>Image settings</b>	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Backlight compensation, Wide dynamic range – dynamic contrast, Text and image overlay, Mirroring of images, Privacy mask AXIS M3006-V/M3007-P/M3007-PV: Exposure zones, Fine-tuning of low light behavior AXIS M3004-V/M3005-V/M3006-V: Rotation: 0°, 90°, 180°, 270°, including Corridor Format AXIS M3007-P/-PV: Rotation: 0°, 180°

## Network

<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>b</sup> encryption, IEEE 802.1X <sup>b</sup> network access control, Digest authentication, User access log
<b>Supported protocols</b>	IPv4/v6, HTTP, HTTPS <sup>b</sup> , SSL/TLS <sup>b</sup> , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

## System integration

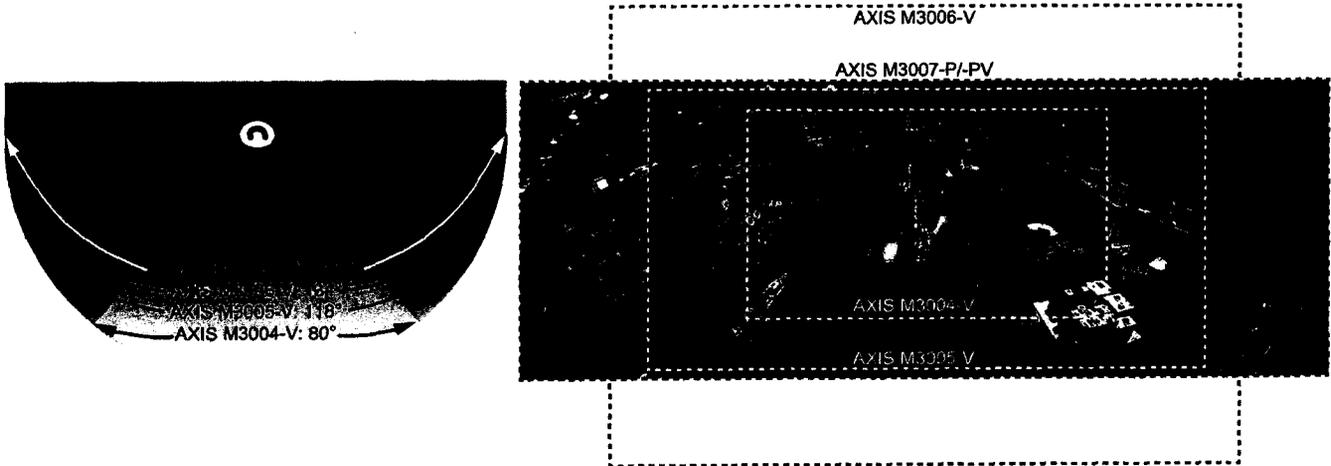
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform, specifications at <a href="http://www.axis.com">www.axis.com</a> AXIS Video Hosting System (AVHS) with One-Click Camera Connection AXIS M3004-V/M3005-V: ONVIF 1.02 AXIS M3006-V/M3007-P/-PV: ONVIF Profile S ONVIF specifications at <a href="http://www.onvif.org">www.onvif.org</a>
<b>Intelligent video</b>	Video motion detection, Active tampering alarm, AXIS Camera Application Platform enabling installation of additional applications
<b>Event triggers</b>	Intelligent video, Edge storage events
<b>Event actions</b>	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP Video recording to edge storage Pre- and post-alarm video buffering
<b>Data streaming</b>	Event data
<b>Built-in installation aids</b>	Pixel counter
<b>General</b>	
<b>Casing</b>	Color: White NCS S 1002-B (for repainting instructions of skin covers, contact your Axis partner), Encapsulated electronics, Captive screws (resistorx 10) AXIS M3004-V/M3005-V: IP42 water- and dust-resistant, IK08 impact-resistant, polycarbonate/ABS casing AXIS M3006-V/M3007-PV: IP42 water- and dust-resistant, IK08 impact-resistant, aluminum and polycarbonate/ABS casing AXIS M3007-P: Discreet, smoke-detector like design with uncovered lens, aluminum and polycarbonate/ABS casing
<b>Memory</b>	AXIS M3004-V/M3005-V: 256 MB RAM, 128 MB Flash AXIS M3006-V/M3007-P/M3007-PV: 512 MB RAM, 128 MB Flash
<b>Power</b>	Power over Ethernet IEEE 802.3af/802.3at Type 1 AXIS M3004-V: Class 1, max. 2.2 W AXIS M3005-V: Class 1, max. 2.7 W AXIS M3006-V: Class 2, max. 4.5 W AXIS M3007-P/-PV: Class 2, max. 4.6 W
<b>Connectors</b>	Male RJ45 10BASE-T/100BASE-TX PoE on a 2 m (6.6 ft) network cable, warranty can be maintained even when cable is cut—for more information, contact your Axis partner
<b>Edge storage</b>	MicroSD/MicroSDHC/MicroSDXC slot supporting memory card up to 64 GB (card not included), Support for recording to dedicated network-attached storage (NAS)
<b>Operating conditions</b>	Humidity 15–85% RH (non-condensing) AXIS M3004-V/M3006-V/M3007-P/M3007-PV: 0 °C to 45 °C (32 °F to 113 °F) AXIS M3005-V: 0 °C to 40 °C (32 °F to 104 °F)
<b>Approvals</b>	EN 55022 Class B, EN 55024, EN 61000-6-1, EN 61000-6-2, 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, IEC/EN/UL 60950-1 All models except AXIS M3007-P: IEC/EN 60529 IP42, IEC/EN 62262 Class IK08
<b>Weight</b>	AXIS M3004-V/M3005-V: 200 g (0.44 lb) AXIS M3006-V: 640 g (1.41 lb) AXIS M3007-P: 570 g (1.26 lb) AXIS M3007-PV: 590 g (1.30 lb)
<b>Included accessories</b>	Installation Guide, Installation and Management Software CD, Windows decoder 1-user license, Drill hole template, Torx L-key
<b>Video management software</b>	AXIS Camera Companion (included), AXIS Camera Station and video management software from Axis' Application Development Partners (not included). Client side dewarping of AXIS M3007-P/-PV 360° overview is supported in Axis' video management software and also by some partners. For more information, see <a href="http://www.axis.com/products/video/software">www.axis.com/products/video/software</a>

a. Horizontal angle of view

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](mailto:ey@cryptsoft.com)).

More information is available at [www.axis.com](http://www.axis.com)

Comparison of viewing angles



Left: Horizontal angles of view. Right: Approximate fields of view (AXIS M3007-P/-PV: wall-mount, panoramic view)

### Dimensions

1. AXIS M3004-V AXIS M3005-V	2. AXIS M3006-V	3. AXIS M3007-P	4. AXIS M3007-PV

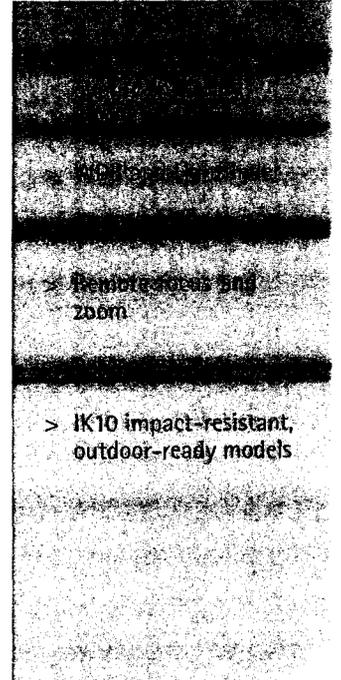
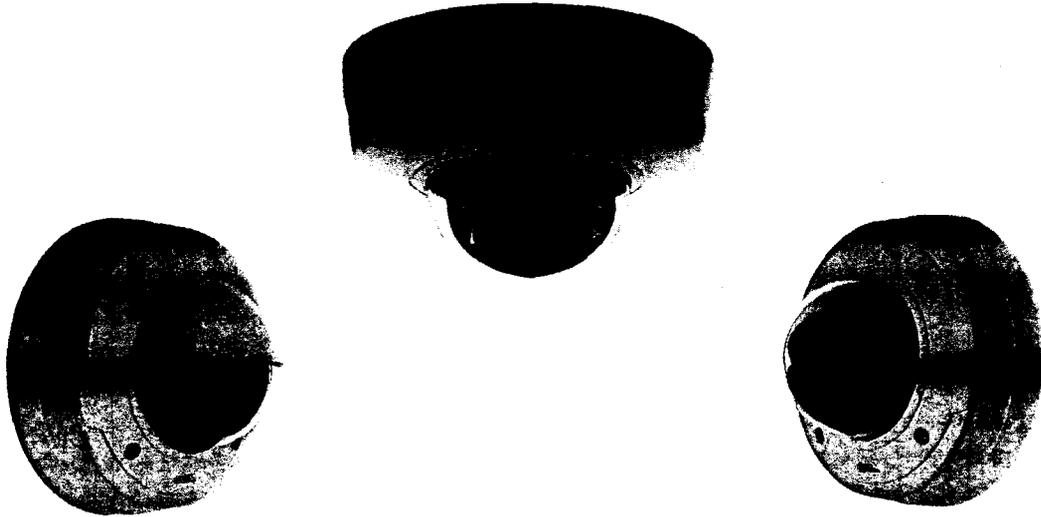
### Optional accessories

<p>1. a) AXIS T94B01M/T94F01M J-Box/Gang Box Plate b) AXIS T94F01P Conduit Backbox c) AXIS T94B01S White/Black Mounting Bracket providing 1/4" -20 UNC thread</p> <p>2. AXIS T94B01L/T94F01L Recessed Mount Kits</p> <p>3. AXIS T94B01D/T94F01D Pendant Kits</p> <p>4. a) AXIS T91A Camera Holders* (1.5" or 3/4" NPS) b) AXIS T91A27 Pole Mount* * Compatible with 1/4" -20 UNC thread</p> <p>5. a) White/black camera skin covers b) Accessory lenses For compatibility and more details, see: <a href="http://www.axis.com/products/m30_series">www.axis.com/products/m30_series</a></p>					
---	--	--	--	--	--



# AXIS P33 Network Camera Series – Outdoor models

Fixed domes for any environment with remote focus and zoom



AXIS P33 Network Cameras constitute a series of indoor and outdoor-ready fixed domes. These cameras are ideal for unobtrusive video surveillance, day and night, in exposed areas such as city surveillance, airports, railway stations, retail stores, office buildings, museums, schools and university campuses.

AXIS P33 Series offers models with exceptional image quality in up to 5 megapixel, including SMPTE-compliant HDTV 720p and 1080p video. AXIS P33 Series provides multiple, individually configurable H.264 and Motion JPEG video streams. The HDTV 720p/1 MP models support Axis' Lightfinder technology, which makes these cameras extremely sensitive to low light. AXIS P3384-VE that additionally supports Wide Dynamic Range – Dynamic Capture, provides outstanding video quality in the most demanding conditions with strong variations in light. The 5 megapixel model, AXIS P3367-VE, can cover a large area with exceptional detail and light sensitivity. All AXIS P33 models support P-Iris control for optimal image clarity.

AXIS P3364-LVE incorporates new long-life LED technology that is highly power-efficient. Adjustable in an-

gle and intensity, the built-in OptimizedIR solution offers easy configuration optimizing for the scene. All AXIS P33 cameras support the remote focus capability that eliminates hands-on focusing at the camera, and remote zoom that allows the camera's angle of view to be optimized.

All AXIS P33 cameras offer digital pan/tilt/zoom and the 2-megapixel, 3-megapixel and 5-megapixel models additionally provide multi-view streaming. The weatherproof AXIS P33-VE/-LVE cameras have low, environmental-friendly power consumption supplied by standard Power over Ethernet (IEEE 802.3af), and operate in a wide temperature range from -40 °C to 55 °C (-40 °F to 131 °F).



## Fixed domes designed for efficient installation

Outdoor-ready models of AXIS P33 Series are the perfect choice for a wide range of demanding video applications. AXIS P33 Network Cameras are designed for professional video surveillance with easy and reliable installation in focus.

### Outdoor-ready installation for tough climates

The outdoor models of AXIS P33 Series are specially designed for reliable, vandal-resistant and weatherproof installation, with pre-installed heater and fan, and an integrated dehumidifying membrane eliminating any humidity caught in the camera casing during installation. These cameras come with a 5 m (16 ft) Ethernet cable with a pre-mounted, specially designed gasket, enabling flush wall mounting and requiring no additional sealant. A weather shield is also included for effective protection against reflections from sunlight, or build-ups of rain or snow; except for the AXIS P3364-LVE model, for which the shield could interfere with the built-in IR illumination. A wide range of optional mounting kits are available, for example for mounting on a pendant, pole or corner.

### Lightfinder technology

The HDTV 720p/1 MP models of AXIS P33 Series incorporate Axis' unique Lightfinder technology. The outstanding light sensitivity, with maintained colors even in very poor lighting conditions, is obtained by a combination of Axis' expertise in image processing, system-on-chip development and selection of the best optical components.

For more on Lightfinder technology, go to:  
[www.axis.com/corporate/corp/tech\\_papers.htm](http://www.axis.com/corporate/corp/tech_papers.htm)

### Wide Dynamic Range - Dynamic Capture

AXIS P3384-VE that supports WDR - Dynamic Capture is ideal for surveillance in areas with strong variations in light, for instance in tunnel passages and other areas where the sunlight creates both very bright zones and dark shadows. AXIS P3384-VE enables easy and clear identification of people and objects both in bright and dark areas.

### Built-in IR illumination

AXIS P3364-LVE features Axis' OptimizedIR technology based on new, long-life LED technology that is highly power efficient. This results in high-quality, low-noise video also when the environment is completely dark.

### P-Iris control

AXIS P33 Series features the advanced precise iris control that comprises a special P-Iris lens, together with dedicated software in the camera, to set the best iris position for optimal depth of field, resolution, image contrast and clarity. Good depth of field implies that objects at different distances from the camera are in focus simultaneously.

For more on P-Iris and iris control, go to:  
[www.axis.com/corporate/corp/tech\\_papers.htm](http://www.axis.com/corporate/corp/tech_papers.htm)

### Easy installation

AXIS P33 Network Cameras offer unique installation capabilities including remote focus and zoom. The remote focus feature enables convenient focusing over the network, eliminating the need for hands-on finetuning at the camera. The remote zoom functionality ensures that the camera's angle of view can be optimized for the area to be monitored. The pixel counter assures that the required pixel resolution is met. Thanks to Axis' OptimizedIR technology, AXIS P3364-LVE automatically adapts the illumination angle with the zoom level, which simplifies installation.

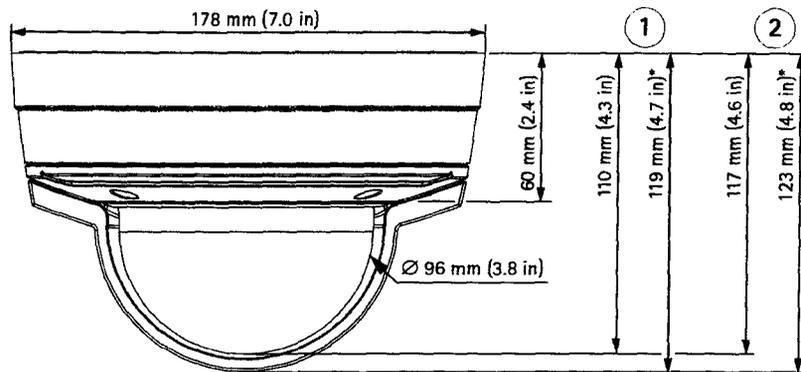


## Dimensions

1. AXIS P3364-VE  
AXIS P3364-LVE

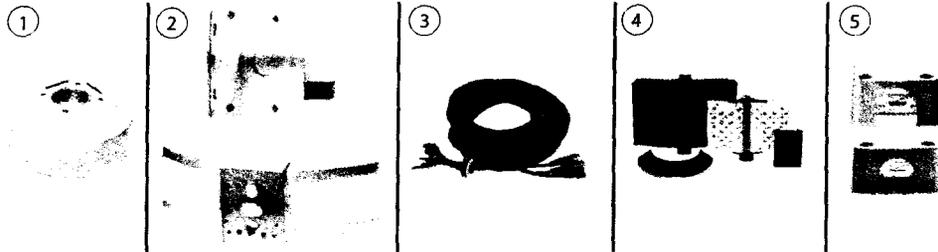
2. AXIS P3346-VE  
AXIS P3365-VE  
AXIS P3367-VE  
AXIS P3384-VE

\*With weather shield (exception: no weather shield for  
AXIS P3364-LVE)



## Accessories

1. Pendant adapter kit including weather shield
  2. AXIS T91 Mounts
  3. I/O audio cable, 5 m (16 ft)
  4. AXIS T90A Illuminators
  5. Cable shield, optionally including AXIS P33-VE 3/4" NPS adapter
- For more details on accessories, please visit:  
[www.axis.com/accessories](http://www.axis.com/accessories)



## Technical Specifications - AXIS P33 Outdoor models

<b>Models</b>	<p>AXIS P3364-VE: 1 MP, Lightfinder                      AXIS P3364-LVE: 1 MP, IR illumination, Lightfinder                      AXIS P3384-VE: 1 MP, WDR - Dynamic Capture, Lightfinder                      AXIS P3365-VE: 2 MP, multi-view streaming  <del>AXIS P3367-VE: 5 MP, multi-view streaming</del>                      AXIS P3367-VE: 5 MP, multi-view streaming</p> <p>Note: All models are vandal resistant and support audio and I/O ports                      6 mm and 12 mm as suffix refer to lens model</p>	<b>Shutter time</b>	<p>AXIS P3364-VE/P3364-LVE: 1/24500 s to 2 s                      AXIS P3384-VE with Dynamic Capture: 1/192 s to 1/37 s                      AXIS P3384-VE with Lightfinder: 1/24500 s to 2 s                      AXIS P3365-VE: 1/33500 s to 2 s                      AXIS P3346-VE: 1/35500 s to 1/6 s                      AXIS P3367-VE: 1/28000 s to 2 s</p>
<b>Camera</b>		<b>Camera angle adjustment</b>	<p>AXIS P3364-VE/P3364-LVE:                      Pan 360°, Tilt 170°, Rotation 340°                      AXIS P3384-VE/P3365-VE/P3346-VE/P3367-VE:                      Pan 360°, Tilt 160°, Rotation 340°</p>
<b>Image sensor</b>	<p>AXIS P3364-VE/P3364-LVE/P3384-VE:                      Progressive scan RGB CMOS 1/3"                      AXIS P3365-VE: Progressive scan RGB CMOS 1/2.8"                      AXIS P3346-VE: Progressive scan RGB CMOS 1/3" (effective)                      AXIS P3367-VE: Progressive scan RGB CMOS 1/3.2"</p>	<b>Video</b>	
<b>Lens</b>	<p>Varifocal, Remote focus and zoom, P-Iris control, IR corrected, Megapixel resolution                      AXIS P3364-VE/P3364-LVE 6 mm:                      2.5-6 mm, 105°-49° view<sup>a</sup>, F1.2                      AXIS P3364-VE/P3364-LVE 12 mm:                      3.3-12 mm, 82°-24° view<sup>a</sup>, F1.4                      AXIS P3384-VE/P3346-VE/P3367-VE:                      3-9 mm, 84°-30° view<sup>a</sup>, F1.2                      AXIS P3365-VE: 3-9 mm, 100°-35° view<sup>a</sup>, F1.3</p>	<b>Video compression</b>	H.264 Baseline and Main Profile (MPEG-4 Part 10/AVC) Motion JPEG
<b>Day and night</b>	Automatically removable infrared-cut filter	<b>Resolutions</b>	<p>AXIS P3364-VE/P3364-LVE/P3384-VE:                      1280x960<sup>b</sup> (approx. 1.3 MP) to 160x90                      AXIS P3365-VE: 1920x1080 (2 MP) to 160x90                      AXIS P3346-VE: 2048x1536 (3 MP) to 160x90                      AXIS P3367-VE: 2592x1944 (5 MP) to 160x90</p>
<b>Minimum illumination</b>	<p>AXIS P3364-VE 6 mm: Color: 0.1 lux, F1.2, B/W: 0.02 lux, F1.2                      AXIS P3364-LVE 6 mm: Color: 0.12 lux, F1.2, B/W: 0.03 lux, F1.2, 0 lux with IR illumination on                      AXIS P3364-VE 12 mm:                      Color: 0.15 lux, F1.4, B/W: 0.03 lux, F1.4                      AXIS P3364-LVE 12 mm: Color: 0.18 lux, F1.4, B/W: 0.04 lux, F1.4, 0 lux with IR illumination on                      AXIS P3384-VE:                      Color: 0.5 lux, F1.2, B/W: 0.08 lux, F1.2 with Dynamic Capture                      Color: 0.15 lux, F1.2, B/W: 0.03 lux, F1.2 with Lightfinder                      AXIS P3365-VE: Color: 0.2 lux, F1.3, B/W: 0.04 lux, F1.3                      AXIS P3346-VE: Color: 0.5 lux, F1.2, B/W: 0.08 lux, F1.2                      AXIS P3367-VE: Color: 0.2 lux, F1.2, B/W: 0.04 lux, F1.2</p>	<b>Frame rate</b>	<p>AXIS P3364-VE/P3364-LVE/P3384-VE/P3365-VE:                      25/30 fps with power line frequency 50/60 Hz                      AXIS P3346-VE: 3 MP capture mode: 20 fps in all resolutions; HDTV 1080p (1920x1080) and 2 MP 4:3 (1600x1200) capture modes: 30 fps in all resolutions                      AXIS P3367-VE: 5 MP capture mode: 12 fps in all resolutions; and capable of all AXIS P3346-VE capture modes</p>
		<b>Video streaming</b>	Multiple, individually configurable streams in H.264 and Motion JPEG, Controllable frame rate and bandwidth, VBR/CBR H.264
		<b>Multi-view streaming</b>	<p>AXIS P3365-VE/P3346-VE/P3367-VE:                      Up to 8 individually cropped out view areas                      AXIS P3346-VE:                      When streaming 4 view areas and 1 overview in VGA resolution, the frame rate is 20 fps per stream (3 MP capture mode)                      AXIS P3367-VE: 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)</p>
		<b>Pan/Tilt/Zoom</b>	Digital PTZ AXIS P3346-VE/P3367-VE: Preset positions, Guard tour

<b>Image settings</b>	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, WDR – Dynamic Contrast, Text and image overlay, Mirroring of images, Privacy mask Rotation: 0°, 90°, 180°, 270°, including Corridor Format AXIS P3384-VE with Dynamic Capture: Up to 120 dB (0.5–500,000 lux) depending on scene
<b>Audio</b>	
<b>Audio streaming</b>	Two-way audio
<b>Audio compression</b>	AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz Configurable bit rate
<b>Audio input/output</b>	External microphone input or line input, Line output
<b>Network</b>	
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>c</sup> encryption, IEEE 802.1X <sup>c</sup> Network access control, Digest authentication, User access log
<b>Supported protocols</b>	IPv4/v6, HTTP, HTTPS <sup>c</sup> , SSL/TLS <sup>c</sup> , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>™</sup> , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
<b>System integration</b>	
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform, specifications at <a href="http://www.axis.com">www.axis.com</a> AXIS Video Hosting System (AVHS) with One-Click Camera Connection ONVIF Profile S, specification available at <a href="http://www.onvif.org">www.onvif.org</a>
<b>Intelligent video</b>	Video motion detection, Active tampering alarm, Audio detection, AXIS Camera Application Platform enabling installation of additional applications
<b>Event triggers</b>	Intelligent video, Edge storage events, External input
<b>Event actions</b>	File upload: FTP, HTTP, network share and email Notification: email, HTTP and TCP Video and audio recording to edge storage Pre- and post-alarm video buffering External output activation, Play audio clip AXIS P3346-VE/P3367-VE: Preset positions, Guard tour
<b>Data streaming</b>	Event data
<b>Built-in installation aids</b>	Remote zoom, Remote focus, Pixel counter AXIS P3364-LVE: OptimizedIR with adjustable IR illumination angle and intensity
<b>General</b>	
<b>Casing</b>	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

<b>Memory</b>	256 MB RAM, 128 MB Flash AXIS P3367-VE: 512 MB RAM, 128 MB Flash
<b>Power</b>	Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3 AXIS P3364-VE/P3364-LVE/P3384-VE/P3367-VE: max. 12.1 W AXIS P3365-VE: max. 8.6 W AXIS P3346-VE: max. 12.8 W
<b>Connectors</b>	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
<b>IR illumination</b>	AXIS P3364-LVE: OptimizedIR with power-efficient, long-life 850 nm IR LEDs with adjustable angle of illumination and intensity. Range of reach up to 30 m (100 ft) depending on scene
<b>Edge storage</b>	SD/SDHC/SDXC slot supporting memory card up to 64 GB (card not included) Support for recording to network share (network-attached storage or file server)
<b>Operating conditions</b>	-40 °C to 55 °C (-40 °F to 131 °F) Humidity 10–100% RH (condensing)
<b>Approvals</b>	EN 55022 Class B, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN 22 Class B, KN 24, IEC/EN/UL 60950-22, EN 50581, IEC/EN 60529 IP66, NEMA 250 Type 4X, 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 62262 IK10 AXIS P3364-LVE: EN 62471
<b>Weight</b>	AXIS P3364-VE: 1.5 kg (3.3 lb), with weather shield AXIS P3364-LVE: 1.4 kg (3.1 lb), without weather shield AXIS P3384-VE/P3365-VE/P3346-VE/P3367-VE: 1.7 kg (3.7 lb), with weather shield
<b>Included accessories</b>	Installation Guide, Installation and Management Software CD, Windows decoder 1-user license, Connector kit, Mounting bracket, 5 m (16 ft) network cable with pre-mounted gasket, Resistox T20 screw driver, Drill hole template AXIS P3364-VE/P3384-VE/P3365-VE/P3346-VE/P3367-VE: Weather shield, Smoked cover
<b>Video management software</b>	AXIS Camera Station and video management software from Axis' Application Development Partners (not included). For more information, see <a href="http://www.axis.com/products/video/software">www.axis.com/products/video/software</a>

- a. *Horizontal angle of view*
- b. *1400x1050 (1.4 MP) scaled resolution available via VAPIX<sup>®</sup>*
- c. *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](mailto:ey@cryptsoft.com)).*

More information is available at [www.axis.com](http://www.axis.com)

