

IFB 2015-251

**DETENTION CENTER CAMERA AND
MONITOR UPGRADES**

Collin County, Texas

Bid Information

Bid Owner JD Griffin, CPPB Buyer II
Email jgriffin@co.collin.tx.us
Phone (972) 548-4116
Fax (972) 548-4694

Bid Number 2015-251
Title Detention Center Camera and Monitor Upgrades
Bid Type IFB
Issue Date 08/25/2015
Close Date 9/24/2015 2:00:00 PM Central

Contact Information

Address 2300 Bloomdale Rd.
Ste. 3160
McKinney, TX 75071

Contact JD Griffin, CPPB Buyer II
Department Purchasing
Building Admin. Building
Floor/Room Ste.3160
Telephone (972) 548-4116
Fax (972) 548-4694
Email jgriffin@co.collin.tx.us

Ship to Information

Address 4300 Community Ave.
McKinney, TX 75071

Contact
Department
Building Collin County Detention Center
Floor/Room
Telephone
Fax
Email

Supplier Information

Company Name _____
Contact Name _____
Address _____

Telephone _____
Fax _____
Email _____
Signature _____

Supplier Notes

Date / /

Bid Notes

Bid Activities

Date	Name	Description
9/8/2015 1:00:00 PM	Mandatory Pre-bid Conference	Location: Collin County Detention Facility 4300 Community Ave., McKinney, TX 75071 Meet in Jail Lobby. All prospective bidders are requested to have a representative present. It is the vendor's responsibility to review the site conditions and bid documents to gain a full understanding of the requirements of the project.
9/17/2015 5:00:00 PM	Product Substitution Request	Per Sections 4.16.3, 4.16.4 & 4.16.5, if bidder is requesting a substitution for any specified equipment, bidder shall submit Attachment G-Product Substitution Request Form for equipment being bid as an equal for County approval no less than seven (7) days prior to bid opening to the following email address: jgriffin@co.collin.tx.us
9/22/2015 10:00:00 AM	Supplier's intent to submit a bid.	Do you intend to submit a response to this bid?

Bid Messages

Bid Attachments

The following attachments are associated with this opportunity and will need to be retrieved separately

Line	Filename	Description
Header	LEGAL NOTICE-2015-251.doc	Legal Notice
Header	General Instructions_Bid.docx	General Instructions_Bid
Header	Terms of Contract_Bid.docx	Terms of Contract_Bid
Header	3.0 Insurance_Requirements.doc	3.0-Insurance Requirements
Header	4.0 Special Conditions and Specifications.docx	4.0 Special Conditions and Specifications
Header	Attachment A-Subcontractor Questionnaire.docx	Attachment A-Subcontractor Questionnaire
Header	Attachment B.docx	Attachment B-Wage Scale
Header	Attachment C.xlsx	Attachment C-Equipment Price Sheet
Header	Attachment D.pdf	Attachment D-Camera Installation Locations
Header	Attachment E.pdf	Attachment E-Camera Specifications
Header	Attachment F.pdf	Attachment F-Surge Protection Specifications
Header	Attachment G-Product Substitution Request Form.pdf	Attachment G-Product Substitution Request Form
Header	Payment Bond.pdf	Payment Bond
Header	Performance Bond.pdf	Performance Bond
Header	CIQ.pdf	Conflict of Interest Questionnaire
Header	W-9 Rev Dec 2014.pdf	W-9

Bid Attributes

Please review the following and respond where necessary

#	Name	Note	Response
1	Delivery	<p>Delivery will be F.O.B. inside delivery at Collin County designated locations and all transportation charges are to be paid by the supplier to destination.</p> <p>Please state project completion time in calendar days from date of order.</p>	_____ (Required)
2	Exceptions	<p>Do you take exceptions to the bid specifications. If so, by separate attachment, please state your exceptions.</p> <p>Valid Responses: [Please Select], Yes, No</p>	_____ (Required)
3	Reference No. 1	<p>List a company or governmental agency where these same/like products /services, as stated herein, have been provided.</p> <p>Include the following: Company/Entity, Contact, Address, City/State/Zip, Phone, and E-Mail.</p>	_____ (Required)
4	Reference No. 2	<p>List a company or governmental agency where these same/like products /services, as stated herein, have been provided.</p> <p>Include the following: Company/Entity, Contact, Address, City/State/Zip, Phone, and E-Mail.</p>	_____ (Required)

- 5 Reference No. 3 List a company or governmental agency where these same/like products /services, as stated herein, have been provided. _____ (Required)
- Include the following: Company/Entity, Contact, Address, City/State/Zip, Phone, and E-Mail.
- 6 Bidder Survey In order to better serve our bidders, the Collin County Purchasing Department is conducting the following survey. We appreciate your time and effort expended to submit your bid. Please take a moment to complete the below. Should you have any questions or require more information please call (972) 548-4165. _____ (Required)
- How did you receive notice of this request?
Valid Responses: [Please Select], Plano Star Courier, Plano Room, Collin County eBid Notification, Collin County Website
- 7 Immigration and Reform Act By submitting a quote/bid/proposal I declare and affirm that my company is in compliance with the Immigration and Reform Act of 1986 and all employees are legally eligible to work in the United States of America. Immigration
- I further understand and acknowledge that any non-compliance with the Immigration and Reform Act of 1986 at any time during the term of this contract will render the contract voidable.
- 8 Debarment Certification By submitting a quote/bid/proposal bidder certifies that neither my company nor an owner or principal of my company has been debarred, suspended or otherwise made ineligible for participation in Federal Assistance programs under Executive Order 12549, "Debarment and Suspension," as described in the Federal Register and Rules and Regulations. Debarment
- 9 Preferential Treatment The County of Collin, as a governmental agency of the State of Texas, may not award a contract to a nonresident bidder unless the nonresident's bid is lower than the lowest bid submitted by a responsible Texas resident bidder by the same amount that a Texas resident bidder would be required to underbid a nonresident bidder to obtain a comparable contract in the state in which the nonresident's principal place of business is located (Government Code, Title 10, V.T.C.A., Chapter 2252, Subchapter A). _____ (Required)
- Is your principal place of business in the State of Texas?:
Valid Responses: [Please Select], Yes, No
- 10 Preferential Treatment If your principal place of business is not in Texas, which state is your principal place of business? _____ (Optional)
- 11 Preferential Treatment If your principal place of business is not in Texas, does your state favors resident bidders (bidders in your state) by some dollar increment or percentage? _____ (Optional)
- Valid Responses: [Please Select], Yes, No, N/A
- 12 Preferential Treatment If your state favors resident bidders, state by what dollar amount or percentage. _____ (Optional)

13 Bidder Acknowledgement

By signing and submitting this Bid, Bidder acknowledges, understands the specifications, any and all addenda, and agrees to the bid terms and conditions and can provide the minimum requirements stated herein. Bidder acknowledges they have read the document in its entirety, visited the site, performed investigations and verifications as deemed necessary, is familiar with local conditions under which work is to be performed and will be responsible for any and all errors in Bid submittal resulting from Bidder's failure to do so. Bidder acknowledges the prices submitted in this Bid have been carefully reviewed and are submitted as correct and final. If Bid is accepted, vendor further certifies and agrees to furnish any and all products upon which prices are extended at the price submitted, and upon conditions in the specifications of the Invitation for Bid.

Acknowledgement

Line Items

#	Qty	UOM	Description	Response
1	1	lump sum	State the Total Materials Price incorporated in the project. Reference Section 4.0 and Attachments D, E and F for specifications. Bidder shall state the brand, complete part/model number and price each for equipment being bid for cameras, surge protection, monitors and DVR hard drives on Attachment C.	\$_____
Supplier Notes:				_____

2	1	lump sum	State the Total Labor Price incorporated in the project. Reference Section 4.0 and Attachments D, E and F for specifications.	\$_____
Supplier Notes:				_____

1.0 GENERAL INSTRUCTIONS

1.0.1 Definitions

1.0.1.1 Bidder: refers to submitter.

1.0.1.2 Vendor/Contractor/Provider: refers to a Successful Bidder/Contractor/Service Provider.

1.0.1.3 Submittal: refers to those documents required to be submitted to Collin County, by a Bidder.

1.0.1.4 IFB: refers to Invitation For Bid.

1.1 If Bidder does not wish to submit an offer at this time, please submit a No Bid.

1.2 Awards shall be made not more than ninety (90) days after the time set for opening of submittals.

1.3 Collin County is always conscious and extremely appreciative of your time and effort in preparing your submittal.

1.4 Collin County exclusively uses ionWave Technologies, Inc. (Collin County eBid) for the notification and dissemination of all solicitations. The receipt of solicitations through any other company may result in your receipt of incomplete specifications and/or addendums which could ultimately render your bid non-compliant. Collin County accepts no responsibility for the receipt and/or notification of solicitations through any other company.

1.5 A bid may not be withdrawn or canceled by the bidder prior to the ninety-first (91st) day following public opening of submittals and only prior to award.

1.6 It is understood that Collin County, Texas reserves the right to accept or reject any and/or all Bids for any or all products and/or services covered in an Invitation For Bid (IFB), and to waive informalities or defects in submittals or to accept such submittals as it shall deem to be in the best interest of Collin County.

1.7 All IFB's submitted in hard copy paper form shall be submitted in a sealed envelope, plainly marked on the outside with the IFB number and name. A hard copy paper form submittal shall be manually signed in ink by a person having the authority to bind the firm in a contract. Submittals shall be mailed or hand delivered to the Collin County Purchasing Department.

1.8 No oral, telegraphic or telephonic submittals will be accepted. IFB's may be submitted in electronic format via Collin County eBid.

1.9 All Invitation For Bids (IFB) submitted electronically via Collin County eBid shall remain locked until official date and time of opening as stated in the Special Terms and Conditions of the IFB.

1.10 Time/date stamp clock in Collin County Purchasing Department shall be the official time of receipt for all Invitation for Bids (IFB) submitted in hard copy paper form. IFB's received in the Collin County Purchasing Department after submission deadline shall be considered void and unacceptable. Absolutely no late submittals will be considered. Collin County accepts no responsibility for technical difficulties related to electronic submittals.

1.11 For hard copy paper form submittals, any alterations made prior to opening date and time must be initialed by the signer of the IFB guaranteeing authenticity. Submittals cannot be altered or amended after submission deadline.

1.12 Collin County is by statute exempt from the State Sales Tax and Federal Excise Tax; therefore, the prices submitted shall not include taxes.

1.13 Any interpretations, corrections and/or changes to an Invitation For Bid, and related Specifications or extensions to the opening/receipt date will be made by addenda to the respective document by the Collin County Purchasing Department. Questions and/or clarification requests must be submitted no later than seven (7) days prior to the opening/receipt date. Those received at a later date may not be addressed prior to the public opening. Sole authority to authorize addenda shall be vested in Collin County Purchasing Agent as entrusted by the Collin County Commissioners' Court. Addenda may be transmitted electronically via Collin County eBid.

1.13.1 Addenda will be transmitted to all that are known to have received a copy of the IFB/RFQ/RFP/RFI/CSP and related Specifications. However, it shall be the sole responsibility of the Bidder/Quoter/Offeror to verify issuance/non-issuance of addenda and to check all avenues of document availability (i.e. **Collin County eBid** <https://collincountvtx.ionwave.net/>, telephoning Purchasing Department directly, etc.) prior to opening/receipt date and time to insure Bidder/Quoter/Offeror's receipt of any addenda issued. Bidder/Quoter/Offeror shall acknowledge receipt of all addenda.

1.14 All materials and services shall be subject to Collin County approval.

1.15 Collin County reserves the right to make award in whole or in part as it deems to be in the best interest of the County.

1.16 Any reference to model/make and/or manufacturer used in specifications is for descriptive purposes only. Products/materials of like quality will be considered.

1.17 Bidders taking exception to the specifications shall do so at their own risk. By offering substitutions, Bidder shall state these exceptions in the section provided in the IFB or by attachment. Exception/substitution, if accepted, must meet or exceed specifications stated therein. Collin County reserves the right to accept or reject any and/or all of the exception(s)/substitution(s) deemed to be in the best interest of the County.

1.19 Minimum Standards for Responsible Prospective Bidders: A prospective Bidder must meet the following minimum requirements:

1.19.1 have adequate financial resources, or the ability to obtain such resources as required;

1.19.2 be able to comply with the required or proposed delivery/completion schedule;

1.19.3 have a satisfactory record of performance;

1.19.4 have a satisfactory record of integrity and ethics;

1.19.5 be otherwise qualified and eligible to receive an award.

Collin County may request documentation and other information sufficient to determine Bidder's ability to meet these minimum standards listed above.

1.20 Vendor shall bear any/all costs associated with it's preparation of an IFB.

1.21 Public Information Act: Collin County is governed by the Texas Public Information Act, Chapter 552 of the Texas Government Code. All information submitted by prospective bidders during the bidding process is subject to release under the Act.

1.22 The Bidder shall comply with Commissioners' Court Order No. 2004-167-03-11, County Logo Policy.

1.23 Interlocal Agreement: Successful bidder agrees to extend prices and terms to all entities that has entered into or will enter into joint purchasing interlocal cooperation agreements with Collin County.

1.24 Bid Openings: All bids submitted will be read at the county's regularly scheduled bid opening for the designated project. However, the reading of a bid at bid opening should be not construed as a comment on the responsiveness of such bid or as any indication that the county accepts such bid as responsive.

The county will make a determination as to the responsiveness of bids submitted based upon compliance with all applicable laws, Collin County Purchasing Guidelines, and project documents, including but not limited to the project specifications and contract documents. The county will notify the successful bidder upon award of the contract and, according to state law; all bids received will be available for inspection at that time.

2.0 TERMS OF CONTRACT

2.1 A bid, when properly accepted by Collin County, shall constitute a contract equally binding between the Vendor/Contractor/Provider and Collin County. No different or additional terms will become part of this contract with the exception of a Change Order.

2.2 No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All Amendments and/or Change Orders to the contract will be made in writing by Collin County Purchasing Agent.

2.3 No public official shall have interest in the contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code Title 5, Subtitle C, Chapter 171.

2.4 The Vendor/Contractor/Provider shall comply with Commissioners' Court Order No. 96-680-10-28, Establishment of Guidelines & Restrictions Regarding the Acceptance of Gifts by County Officials & County Employees.

2.5 Design, strength, quality of materials and workmanship must conform to the highest standards of manufacturing and engineering practice.

2.6 Bids must comply with all federal, state, county and local laws concerning the type(s) of product(s)/service(s)/equipment/project(s) contracted for, and the fulfillment of all ADA (Americans with Disabilities Act) requirements.

2.7 All products must be new and unused, unless otherwise specified, in first-class condition and of current manufacture. Obsolete products, including products or any parts not compatible with existing hardware/software configurations will not be accepted.

2.8 Vendor/Contractor/Provider shall provide any and all notices as may be required under the Drug-Free Work Place Act of 1988, 28 CFR Part 67, Subpart F, to its employees and all sub-contractors to insure that Collin County maintains a drug-free work place.

2.9 Vendor/Contractor/Provider shall defend, indemnify and save harmless Collin County and all its officers, agents and employees and all entities, their officers, agents and employees who are participating in this contract from all suits, claims, actions, damages (including personal injury and or property damages), or demands of any character, name and description, (including attorneys' fees, expenses and other defense costs of any nature) brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of Vendor/Contractor/Provider's breach of the contract arising from an award, and/or any negligent act, error, omission or fault of the Vendor/Contractor/Provider, or of any agent, employee, subcontractor or supplier of Vendor/Contractor/Provider in the execution of, or performance under, any contract which may result from an award. Vendor/Contractor/Provider shall pay in full any judgment with costs, including attorneys' fees and expenses which are rendered against Collin County and/or participating entities arising out of such breach, act, error, omission and/or fault.

2.10 If a contract, resulting from a Collin County IFB is for the execution of a public work, the following shall apply:

2.10.1 In accordance with V.T.C.A. 2253.021, a governmental agency that makes a public work contract with a prime contractor shall require the contractor, before beginning work, to execute to the governmental entity a Payment Bond if the contract is in excess of \$25,000.00. Such bond shall be in the amount of the contract payable to the governmental entity and must be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56th Legislature, Regular Session, 1959 (Article 7.19-1 Vernon's Texas Insurance Code).

2.10.2 In accordance with V.T.C.A. 2253.021, a governmental agency that makes a public work contract with a prime contractor shall require the contractor, before beginning work, to execute to the governmental entity a Performance Bond if the contract is in excess of \$100,000.00. Such bond shall be in the amount of the contract payable to the governmental entity and must be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56th Legislature, Regular Session, 1959 (Article 7.19-1 Vernon's Texas Insurance Code).

2.11 Purchase Order(s) shall be generated by Collin County to the vendor. Collin County will not be responsible for any orders placed/delivered without a valid purchase order number.

2.12 The contract shall remain in effect until any of the following occurs: delivery of product(s) and/or completion and acceptance by Collin County of product(s) and/or service(s), contract expires or is terminated by either party with thirty (30) days written notice prior to cancellation and notice must state therein the reasons for such cancellation. Collin County reserves the right to terminate the contract immediately in the event the Vendor/Contractor/Provider fails to meet delivery or completion schedules, or otherwise perform in accordance with the specifications. Breach of contract or default authorizes the County to purchase elsewhere and charge the full increase in cost and handling to the defaulting Vendor/Contractor/Provider.

2.13 Collin County Purchasing Department shall serve as Contract Administrator or shall supervise agents designated by Collin County.

2.14 All delivery and freight charges (FOB Inside delivery at Collin County designated locations) are to be included as part of the bid price. All components required to render the item complete, installed and operational shall be included in the total bid price. Collin County will pay no additional freight/delivery/installation/setup fees.

2.15 Vendor/Contractor/Provider shall notify the Purchasing Department immediately if delivery/completion schedule cannot be met. If delay is foreseen, the Vendor/Contractor/Provider shall give written notice to the Purchasing Agent. The County has the right to extend delivery/completion time if reason appears valid.

2.16 The title and risk of loss of the product(s) shall not pass to Collin County until Collin County actually receives and takes possession of the product(s) at the point or points of delivery. Collin County shall generate a purchase order(s) to the Vendor/Contractor/Provider and the purchase order number must appear on all itemized invoices.

2.17 Invoices shall be mailed directly to the Collin County Auditor's Office, 2300 Bloomdale Road, Suite 3100, McKinney, Texas 75071. All invoices shall show:

2.17.1 Collin County Purchase Order Number;

2.17.2 Vendor's/Contractor's/Provider's Name, Address and Tax Identification Number;

2.17.3 Detailed breakdown of all charges for the product(s) and/or service(s) including applicable time frames.

2.18 Payment will be made in accordance with V.T.C.A., Government Code, Title 10, Subtitle F, Chapter 2251.

2.19 All warranties shall be stated as required in the Uniform Commercial Code.

2.20 The Vendor/Contractor/Provider and Collin County agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.

2.21 The Vendor/Contractor/Provider agree to protect Collin County from any claims involving infringements of patents and/or copyrights.

2.22 The contract will be governed by the laws of the State of Texas. Should any portion of the contract be in conflict with the laws of the State of Texas, the State laws shall invalidate only that portion. The remaining portion of the contract shall remain in effect. The contract is performable in Collin County, Texas.

2.23 The Vendor/Contractor/Provider shall not sell, assign, transfer or convey the contract, in whole or in part, without the prior written approval from Collin County.

2.24 The apparent silence of any part of the specification as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best commercial practices are to prevail. All interpretations of the specification shall be made on the basis of this statement.

2.25 Vendor/Contractor/Provider shall not fraudulently advertise, publish or otherwise make reference to the existence of a contract between Collin County and Vendor/Contractor/Provider for purposes of solicitation. As exception, Vendor/Contractor/Provider may refer to Collin County as an evaluating reference for purposes of establishing a contract with other entities.

2.26 The Vendor/Contractor/Provider understands, acknowledges and agrees that if the Vendor/Contractor/Provider subcontracts with a third party for services and/or material, the primary Vendor/Contractor/Provider (awardee) accepts responsibility for full and prompt payment to the third party. Any dispute between the primary Vendor/Contractor/Provider and the third party, including any payment dispute, will be promptly remedied by the primary vendor. Failure to promptly render a remedy or to make prompt payment to the third party (subcontractor) may result in the withholding of funds from the primary Vendor/Contractor/Provider by Collin County for any payments owed to the third party.

2.27 Vendor/Contractor/Provider shall provide Collin County with diagnostic access tools at no additional cost to Collin County, for all Electrical and Mechanical systems, components, etc., procured through this contract.

2.28 Criminal History Background Check: If required, ALL individuals may be subject to a criminal history background check performed by the Collin County Homeland Security prior to access being granted to Collin County. Upon request, Vendor/Contractor/Provider shall provide list of individuals to Collin County Purchasing Department within five (5) working days.

2.29 Non-Disclosure Agreement: Where applicable, vendor shall be required to sign a non-disclosure agreement acknowledging that all information to be furnished is in all respects confidential in nature, other than information which is in the public domain through other means and that any disclosure or use of same by vendor, except as provided in the contract/agreement, may cause serious harm or damage to Collin County. Therefore, Vendor agrees that Vendor will not use the information furnished for any purpose other than that stated in contract/agreement, and agrees that Vendor will not either directly or indirectly by agent, employee, or representative disclose this information, either in whole or in part, to any third party, except on a need to know basis for the purpose of evaluating any possible transaction. This agreement shall be binding upon Collin County and Vendor, and upon the directors, officers, employees and agents of each.

2.30 Vendors/Contractors/Providers must be in compliance with the Immigration and Reform Act of 1986 and all employees specific to this solicitation must be legally eligible to work in the United States of America.

2.31 Certification of Eligibility: This provision applies if the anticipated Contract exceeds \$100,000.00 and as it relates to the expenditure of federal grant funds. By submitting a bid or proposal in response to this solicitation, the Bidder certifies that at the time of submission, he/she is not on the Federal Government's list of suspended, ineligible, or debarred contractors. In the event of placement on the list between the time of bid/proposal submission and time of award, the Bidder will notify the Collin County Purchasing Agent. Failure to do so may result in terminating this contract for default.

2.32 Notice to Vendors/Contractors/Providers delivering goods or performing services within the Collin County Detention Facility: The Collin County Detention Facility houses persons who have been charged with and/or convicted of serious criminal offenses. When entering the Detention Facility, you could: (1) hear obscene or graphic language; (2) view partially clothed male inmates; (3) be subjected to verbal abuse or taunting; (4) risk physical altercations or physical contact, which could be minimal or possibly serious; (5) be exposed to communicable or infectious diseases; (6) be temporarily detained or prevented from immediately leaving the Detention Facility in the case of an emergency or “lockdown”; and (7) subjected to a search of your person or property. While the Collin County Sheriff’s Office takes every reasonable precaution to protect the safety of visitors to the Detention Facility, because of the inherently dangerous nature of a Detention Facility and the type of the persons incarcerated therein, please be advised of the possibility of such situations exist and you should carefully consider such risks when entering the Detention Facility. By entering the Collin County Detention Facility, you acknowledge that you are aware of such potential risks and willingly and knowingly choose to enter the Collin County Detention Facility.

2.33 Delays and Extensions of Time when applicable:

2.33.1 If the Vendor/Contractor/Provider is delayed at any time in the commence or progress of the Work by an act or neglect of the Owner or Architect/Engineer, or of an employee of either, or of a separate contractor employed by the Owner, or by changes ordered in the Work, or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Vendor/Contractor/Provider's control, or by delay authorized by the Owner pending mediation and arbitration, or by other causes which the Owner or Architect/Engineer determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Owner/Architect may determine.

2.33.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time and could not have been reasonably anticipated, and that the weather conditions had an adverse effect on the scheduled construction.

NOTE: All other terms and conditions (i.e. Insurance Requirements, Bond Requirements, etc.) shall be stated in the individual IFB Solicitation documents as Special Terms, Conditions and Specifications.

3.0 INSURANCE REQUIREMENTS

3.1 Before commencing work, the vendor shall be required, at its own expense, to furnish the Collin County Purchasing Agent with certified copies of all insurance certificate(s) indicating the coverage to remain in force throughout the term of this contract.

3.1.1 **Commercial General Liability** insurance including but not limited to the coverage indicated below. Coverage shall not exclude or limit Products/Completed Operations, Contractual Liability, or Cross Liability.

- Each Occurrence: \$1,000,000
- Personal & Adv Injury: \$1,000,000
- Products/Completed Operation: \$2,000,000
- General Aggregate: \$2,000,000

3.1.2 **Workers Compensation** insurance as required by the laws of Texas, and Employers' Liability.

Employers' Liability

- Liability, Each Accident: \$1,000,000
- Disease-Each Employee: \$1,000,000
- Disease – Policy Limit: \$1,000,000

3.1.3 **Commercial Automobile Liability** insurance including owned, non-owned, and hired vehicles used in connection with the contract.

- Combined Single Limit – Each Accident: \$1,000,000

3.1.4 **Umbrella/Excess Liability** insurance.

- Each Occurrence/Aggregate: \$1,000,000

3.2 With reference to the foregoing insurance requirement, the vendor shall endorse applicable insurance policies as follows:

3.2.1 A waiver of subrogation in favor of Collin County, its officials, employees, volunteers and officers shall be provided for General Liability, Commercial Automobile Liability and Workers' Compensation.

3.2.2 The vendor's insurance coverage shall name Collin County as additional insured under the General Liability policy.

3.2.3 All insurance policies shall be endorsed to require the insurer to immediately notify Collin County of any decrease in the insurance coverage limits.

3.2.4 All insurance policies shall be endorsed to the effect that Collin County will receive at least thirty (30) days notice prior to cancellation, non-renewal or termination of the policy.

3.2.5 All copies of Certificates of Insurance shall reference the project/contract number.

3.3 All insurance shall be purchased from an insurance company that meets the following requirements:

3.3.1 A financial rating of A+VII or better as assigned by the BEST Rating Company or equivalent.

3.4 Certificates of Insurance shall be prepared and executed by the insurance company or its authorized agent, and shall contain provisions representing and warranting the following:

3.4.1 Sets forth all endorsements and insurance coverages according to requirements and instructions contained herein.

3.4.2 Sets forth the notice of cancellation or termination to Collin County.

4.0 SPECIAL CONDITIONS AND SPECIFICATIONS

4.1 Authorization: By order of the Commissioners' Court of Collin County, Texas sealed bids will be received for Detention Center Camera and Monitor Upgrades.

4.2 Purpose: The intended use/purpose for this Invitation For Bid is to describe Detention Center Camera and Monitor Upgrades.

4.3 Pre-Bid Site-Walk: A mandatory pre-bid site-walk will be held at 1:00 PM on September 8, 2015 at the Collin County Justice Center Lobby, 4300 Community Ave., McKinney, TX 75071. All prospective bidders are requested to have a representative present. It is the bidder's responsibility to review the site and documents to gain a full understanding of the requirements of the bid. Once the pre-bid site-walk has begun, late arrivals will not be allowed to join. A sign in sheet will be provided at the meeting by the Purchasing Representative. This sign-in sheet will be the official record of attendance at the meeting.

4.4 Term: Provide for a contract commencing on the date of the award and continuing until the project is complete.

4.5 Funding: Funds for payment for Collin County expenditures have been provided through the Collin County budget approved by the Commissioners' Court for this fiscal year only. All other participating entities expenditures have been provided through their entity's governing body for this fiscal year only. State of Texas statutes prohibit any obligation of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that arise past the end of the current fiscal year shall be subject to budget approval.

4.6 Price Reduction: If during the life of the contract, the vendor's net prices to its customers for the same product(s) and/or services shall be reduced below the contracted price, it is understood and agreed that Collin County shall receive such price reduction.

4.7 Delivery/Completion/Response Time: Vendor shall state the number of calendar days to complete services at the County's designated location after receipt of purchase order in the space provided on the Signature Form.

4.8 Delivery/Setup/Installation Locations: Locations for delivery and installation are Collin County Justice Center, 4300 Community Ave., McKinney, TX 75071. Delivery, assembly, set-up and installation shall be included in the bid price.

4.9 Testing: Testing may be performed at the request of Collin County, by an agent so designated by the County, without expense to Collin County.

4.10 Samples/Demos: When requested, samples/demos shall be furnished to the County at no expense.

4.11 Warranties: If within one year after final acceptance of the work by Collin County, any of the work or material is found to be defective or not in accordance with the specifications of the contract, the contractor shall correct it promptly after receipt of a written notice from the County to do so. This obligation shall survive termination or completion of the contract. The County shall give such notice promptly after discovery of the condition.

The contractor shall remove from the site all portions of the work which are defective or nonconforming and which have not been corrected unless removal is waived in writing by the County.

4.12 Subcontractors: Bidder shall state names of all subcontractors and the type of work they will be performing on Attachment A. If a bidder fails to specify a subcontractor, then he shall be deemed to have agreed that he is fully qualified to perform the contract himself, and that he will fully perform the contract himself.

No bidder whose proposal is accepted shall (a) substitute any subcontractor, or (b) permit a subcontract to be voluntarily assigned or transferred or allow it to be performed by anyone other than the original subcontractor listed in the original proposal without approval in writing from the Collin County Purchasing Department.

The successful bidder further agrees that Collin County and its agents, servants and employees shall not be liable for any loss or damage resulting from personal injury, physical loss, harassment of or discrimination against employee or other violations of the provisions of this contract occasioned by the acts or omissions of the successful bidder's sub-contractors, their agents or employees. The indemnification provisions of this contract shall apply to all sub-contractors.

4.13 Bonds: In accordance with V.T.C.A. 2253.021, a governmental agency that makes a public work contract with a prime contractor shall require the contractor, before beginning work, to execute to the governmental entity a Payment Bond if the contract is in excess of \$25,000.00 and a Performance Bond if the contract is in excess of \$100,000. Such bond shall be in the amount of the contract payable to the governmental entity and must be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56th Legislature, Regular Session, 1959 (Article 7.19-1 Vernon's Texas Insurance Code).

4.14 Wage Scale: In accordance with The Texas Government Code, Title 10, Chapter 2258, Prevailing Wage Rates, the general prevailing wage rate has been determined for this locality for the craft or type of workman needed to execute work of a similar character of the project listed herein. The Contractor shall pay the prevailing wage rate in this locality to all his/her employees and subcontractors performing work on this project, and in no event shall the Contractor pay less than the rate shown in the following schedule. Reference Attachment B for current prevailing wage rates.

4.15 Project Requirements and Clarifications:

4.15.1 The camera system shall stay online with all functionality with no interruptions to normal security functions. When one camera is removed, that camera then must be immediately replaced in order to minimize down time recording and viewing.

4.15.2 Bidders are responsible for all field verification of actual site conditions, dimensions, type of cameras, mounts, power supplies, verify quantity and verify access requirements for the complete installation required in this scope. Equipment stated in this specification is provided for bidding purposes only and is not intended to be a project materials list. The contractor is responsible for verification of scope, labor, materials and equipment rentals prior to submitting a bid. The bid will have a mandatory site walk that will allow bidding contractors access to existing system.

4.15.3 Contractor shall have five (5) years minimum experience installing and programming Bosch surveillance equipment.

4.15.4 Contractor shall be licensed by the Texas Department of Public Safety as a security installer.

4.15.5 All screws, anchors, sealants and fasteners shall be detention grade to match the existing finishes.

4.15.6 Once awarded the contract, a mandatory background check performed by Collin County will be required for all persons who will work onsite.

4.15.7 A fulltime escort by a Facilities Technician or Detention Officer shall be required while contractor is working onsite.

4.15.8 Contractor is responsible for returning all removed equipment to owner by written transmittal. All equipment that is removed is the property of Collin County.

4.15.9 Collin County shall not be responsible for contractor equipment or personnel safety.

4.15.10 Contractor shall have the ability to respond onsite to warranty or service request within four (4) hours of the initial notification from the County.

4.15.11 Contractor shall be responsible for removing and hauling away all trash and removed materials daily. Contractor shall not use County dumpsters.

4.15.12 Bidder shall provide a schedule for the project with their bid.

4.15.13 All work shall be scheduled with the following time and day restrictions for the required escorts: Monday through Friday from 7:00 AM to 4:00 PM (With one hour mandatory lunch break).

4.15.14 Onsite storage and office space will not be available to the Contractor.

4.15.15 Collin County employees shall not sign for or be responsible for material/equipment that is drop-shipped to the job site by the contractor.

4.15.16 Contractor shall provide a foreman level technician onsite during the course of this installation to ensure the equipment is being installed per the bid documents, installed to the manufactures requirements and to ensure quality control of the installation.

4.16 Scope and Specifications: This project consists of upgrading sixty-seven (67) cameras and mounts, sixteen (16) monitors, installing ten (10) hard drives to existing DVR's and bringing camera images in Cluster 4 to Building Control. Contractor shall provide all labor, equipment, materials and supplies required to complete the project.

Bidder shall state the brand, complete part/model number and price each for equipment being bid for cameras, surge protection, monitors and DVR hard drives on Attachment C. Bidder shall state the total material price to complete the project on Bid Item One. Bidder shall state total labor price to complete the project on Bid Item Two.

4.16.1 Provide and install:

4.16.1.1 Fifty-eight (58) fixed dome cameras, interior and exterior, Bosch model VDN-5085 (high and low voltage);

4.16.1.2 Five (5) PTZ cameras, exterior, Bosch model VG5-624-ECS (high voltage);

4.16.1.3 Two (2) PTZ cameras, interior, Bosch model VG5-623 (high voltage);

4.16.1.4 One (1) PTZ camera, exterior, Bosch model VG5-624 (low voltage);

4.16.1.5 One (1) PTZ camera, interior, Bosch model VG5-623 (low voltage).

4.16.2 Reference Attachment E for camera specifications. Reference Attachment D for camera installation locations.

4.16.3 Provide and install Ditek DTK-iBNC series inline surge protection, or Collin County approved equal, on all exterior cameras. Reference Attachment F for specifications.

If bidder is requesting a substitution for any specified equipment, bidder shall submit Attachment G-Product Substitution Request Form for equipment being bid

as an equal for County approval no less than seven (7) days prior to bid opening to the following email address: jgriffin@co.collin.tx.us

4.16.4 Provide and install nine (9) forty-two (42) inch, high-performance LCD monitors, Bosch 42RTC or Collin County approved equal, including table mounts, power cables, all equipment, wiring and programming necessary to complete the installation. Install one monitor in each Cluster Control in Clusters 1, 3, 4 & 5 and five monitors in Building Control. All forty-two (42) inch monitors will need to display four (4) images in Cluster Control Rooms and sixteen (16) images per monitor in Building Control.

If bidder is requesting a substitution for any specified equipment, bidder shall submit Attachment G-Product Substitution Request Form for equipment being bid as an equal for County approval no less than seven (7) days prior to bid opening to the following email address: jgriffin@co.collin.tx.us

4.16.5 Provide and install seven (7) twenty-seven (27) inch monitors, Bosch UML-273-90 LED or Collin County approved equal, including table mounts, power cables, all equipment, wiring and programming necessary to complete the installation. All twenty-seven (27) inch monitors will be used for spot monitor to display local cameras called up by keypads in Cluster Control Rooms.

If bidder is requesting a substitution for any specified equipment, bidder shall submit Attachment G-Product Substitution Request Form for equipment being bid as an equal for County approval no less than seven (7) days prior to bid opening to the following email address: jgriffin@co.collin.tx.us

4.16.6 Provide all labor and materials required to bring the camera images from thirty-two (32) cameras in Cluster 4 back to Building Control for viewing. Bidder shall attach to their bid a summary of work and a list of equipment that will be used to complete this requirement. (Existing fiber and power is available at Cluster Four Security Room and Building Control Security Room).

4.16.7 Provide and install ten (10) three (3) TB hard drives, Bosch DVR-XS300-A, including all required equipment and wiring, to the existing DVRs; five (5) at Cluster 4 DVR and five (5) at Main Security Room.

4.16.8 Contractor shall provide one (1) hour of training for Facilities and SO Officers to ask technical users questions and time for advanced technical questions for programming and installation setup.

4.16.9 Produce and provide three (3) hard copies of all site drawings showing all system cameras, complete building floor plans showing all cameras and all equipment locations in eleven (11) inch by seventeen (17) inch format. Provide termination sheets with every termination on the camera system to include; camera number, camera type, camera inputs, matrix inputs and outputs and power supply outputs. Include two (2) thumb drives with all PDF format drawings and provide all the CAD drawing files of each.

Attachment A - Subcontractor Questionnaire

Per Section 4.12, Contractor shall state names of all subcontractors and the type of work they will be performing on Attachment A - Subcontractor Questionnaire. If a Contractor fails to specify a subcontractor, then he shall be deemed to have agreed that he is fully qualified to perform the contract himself, and that he will fully perform the contract himself.

1. Will subcontractors be utilized under this contract?

Yes

No

2. If yes, bidder shall State the names of all subcontractors that will be utilized to perform services under this contract and the type of work they will be performing in the space below.

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Attachment B

Wage Scale

General Decision Number: TX150289 03/06/2015 TX289

Superseded General Decision Number: TX20140289

State: Texas

Construction Type: Building

County: Collin County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0	01/02/2015
1	01/30/2015
2	03/06/2015

ASBE0021-011 05/01/2013

	Rates	Fringes
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ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation)....	\$ 21.52	7.15
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BOIL0074-003 01/01/2014

	Rates	Fringes
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BOILERMAKER.....	\$ 23.14	21.55
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CARP1421-002 04/01/2014

Attachment B

	Rates	Fringes
MILLWRIGHT.....	\$ 25.30	8.30

 ELEV0021-006 01/01/2015

	Rates	Fringes
ELEVATOR MECHANIC....	\$ 37.33	28.385

FOOTNOTES: a - A. 6% under 5 years based on regular hourly rate for all hours worked.
 8% over 5 years based on regular hourly rate for all hours worked.

New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the
 Friday after Thanksgiving Day, Christmas Day, and Veterans Day.

 ENGI0178-005 06/01/2014

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
(1) Tower Crane.....	\$ 29.00	10.60
(2) Cranes with Pile Driving or Caisson Attachment and Hydraulic Crane 60 tons and above....	\$ 28.75	10.60
(3) Hydraulic cranes 59 Tons and under.....	\$ 27.50	10.60

 IRON0263-005 12/01/2013

	Rates	Fringes
IRONWORKER (ORNAMENTAL AND STRUCTURAL).....	\$ 22.70	5.35

 PLUM0100-005 07/01/2013

Attachment B

	Rates	Fringes
HVAC MECHANIC (HVAC Unit Installation Only).....	\$ 26.88	8.83
PIPEFITTER (Excludes HVAC Pipe Installation).....	\$ 26.88	8.83

* SUTX2014-015 07/21/2014		
	Rates	Fringes
BRICKLAYER.....	\$ 21.06	0.00
CARPENTER, Excludes Drywall Hanging, Form Work, and Metal Stud Installation.....	\$ 15.78	0.00
CAULKER.....	\$ 15.16	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 13.04	0.00
DRYWALL HANGER AND METAL STUD INSTALLER.....	\$ 13.00	0.00
ELECTRICIAN (Alarm Installation Only).....	\$ 20.93	3.86
ELECTRICIAN (Communication Technician Only).....	\$ 15.35	1.39
ELECTRICIAN (Low Voltage Wiring Only).....	\$ 17.04	1.39
ELECTRICIAN, Excludes Low Voltage Wiring and Installation of Alarms/Sound and Communication Systems.....	\$ 20.01	2.69
FORM WORKER.....	\$ 11.89	0.00
GLAZIER.....	\$ 16.46	3.94
HIGHWAY/PARKING LOT STRIPING: Operator (Striping Machine).....	\$ 10.04	2.31
INSTALLER - SIDING		

Attachment B

(METAL/ALUMINUM/VINYL).....	\$ 14.74	0.00
INSTALLER - SIGN.....	\$ 15.50	0.00
INSULATOR - BATT.....	\$ 13.00	0.00
IRONWORKER, REINFORCING.....	\$ 12.29	0.00
LABORER: Common or General.....	\$ 10.52	0.00
LABORER: Mason Tender - Brick...	\$ 10.54	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 10.93	0.00
LABORER: Pipelayer.....	\$ 13.00	0.35
LABORER: Plaster Tender.....	\$ 12.22	0.00
LABORER: Roof Tearoff.....	\$ 11.28	0.00
LABORER: Landscape and Irrigation.....	\$ 10.55	0.00
LATHER.....	\$ 16.00	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 12.83	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 13.93	0.00
OPERATOR: Bulldozer.....	\$ 18.29	1.31
OPERATOR: Drill.....	\$ 15.69	0.50
OPERATOR: Forklift.....	\$ 13.21	0.81
OPERATOR: Grader/Blade.....	\$ 13.03	0.00
OPERATOR: Loader.....	\$ 13.46	0.85
OPERATOR: Mechanic.....	\$ 17.52	3.33
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 18.44	0.00

Attachment B

OPERATOR: Roller.....	\$ 15.04	0.00
PAINTER (Brush, Roller and Spray), Excludes Drywall Finishing/Taping.....	\$ 13.35	5.10
PAINTER: Drywall Finishing/Taping Only.....	\$ 14.24	3.83
PIPEFITTER (HVAC Pipe Installation Only).....	\$ 20.45	4.00
PLASTERER.....	\$ 16.58	0.00
PLUMBER, Excludes HVAC Pipe Installation.....	\$ 22.46	4.06
ROOFER.....	\$ 17.19	0.00
SHEET METAL WORKER (HVAC Duct Installation Only).....	\$ 21.13	4.79
SHEET METAL WORKER, Excludes HVAC Duct Installation.....	\$ 24.88	5.97
SPRINKLER FITTER (Fire Sprinklers).....	\$ 37.50	0.00
TILE FINISHER.....	\$ 11.22	0.00
TILE SETTER.....	\$ 14.25	0.00
TRUCK DRIVER: 1/Single Axle Truck.....	\$ 16.00	0.81
TRUCK DRIVER: Dump Truck.....	\$ 12.39	1.18
TRUCK DRIVER: Flatbed Truck.....	\$ 19.65	8.57
TRUCK DRIVER: Semi-Trailer Truck.....	\$ 12.50	0.00
TRUCK DRIVER: Water Truck.....	\$ 12.00	4.11

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Except for work on legal holidays, the "General Prevailing Rate of Per Diem Wage" for the various crafts or type of workers or mechanics is the product of (a) the number of hours worked per day, except for overtime hours, times (b) the above respective rate per hour.

For legal holidays, the "General Prevailing Rate of Per Diem Wage" for the various crafts or type of workers or mechanics is the product of (a) one and one-half times the above respective rate per hour, times (b) the number of hours worked on the legal holiday.

For overtime work, the "General Prevailing Rate of Per Diem Wage" for the various crafts or type of workers or mechanics is the product of (a) one and one-half times the above respective rate per hour, times (b) the number of hours worked on overtime.

Under the provisions of Texas Government Code, Title 10, Chapter 2258, Prevailing Wage Rates, the contractor or subcontractor of the contractor shall forfeit as a penalty to the entity on whose behalf the contract is made or awarded, sixty dollars (\$60.00) for each calendar day, or portion thereof, that the worker is paid less than the wage rates stipulated in the contract.

If the construction project involves the expenditure of Federal funds in excess of \$2,000, the minimum wages to be paid various classes of laborers and mechanics will be based upon the wages that will be determined by the Secretary of Labor to be prevailing for the corresponding classes of laborers and mechanics employed on the project of a character similar to the Contract Work.

Attachment C-Equipment List

Quantity	Description	Manufacturer	Vendor Shall State Manufacturer & Complete Part or Model Number of Equipment Bid	Vendor Shall State Price Each
52	Fixed Dome Camera, Interior, Low Voltage	Bosch		
5	Fixed Dome Camera, Exterior, Low Voltage	Bosch		
1	Fixed Dome Camera, Exterior, High Voltage	Bosch		
5	PTZ Camera, Exterior, High Voltage	Bosch		
2	PTZ Camera, Interior, High Voltage	Bosch		
1	PTZ Camera, Exterior, Low Voltage	Bosch		
1	PTZ Camera, Interior, Low Voltage	Bosch		
9	42" Monitor	Bosch or Collin County approved equal		
7	27" Monitor	Bosch or Collin County approved equal		
10	A/V Surveillance HDD Kit, 3 TB, with Cables	Bosch		
12	Surge Protection on Exterior Cameras	Ditek or Collin County approved equal		

FY 2015 Detention Center Camera and Monitor Upgrades

Camera	Camera Description	Type	Camera PN	Mount	Rating	DVR/Input	Matrix	Replace 2015	Camera Location	Voltage
1	Vehicle Sally Entry	PTZ		Wall/Pend.	Exterior	1-1	1	NO	North Side of Sally port	High
2	Transfer Vestibule	Fixed	VDN-5085	Corner	Interior	1-2	2	YES	Inside Interlock	Low
3	Vehicle Inside Sally	PTZ		Ceiling	Exterior	1-3	3	NO	Center PTZ inside Sally Port	High
4	Vehicle Exit Sally	PTZ		Wall/Pend.	Exterior	1-4	4	NO	Outside looking at South Sally doors	High
5	Transfer Inner	Fixed	VDN-5085	Wall	Interior	1-5	5	YES	Inside transfer, looking at Interlock	Low
6	Transfer Holding	Fixed	VDN-5085	Wall	Interior	1-6	6	YES	By property room, looking at transfer	Low
7	Bonds Release Out	Fixed	VDN-5085	Wall	Interior	1-7	7	YES	Camera across from Bonds door looking at slider	Low
8	Transfer Corridor	Fixed	VDN-5085	Wall	Interior	1-8	8	YES	By Bonds slider, looking toward transfer	Low
9	Bonds Release Out	Fixed	VDN-5085	Wall	Interior	1-9	9	YES	Hallway looking into Bonds	Low
10	Fast Track B0159	Fixed	VDN-5085	Ceiling	Interior	1-10	10	YES	Hallway looking back at Bonds	Low
11	Booking	PTZ	VG5-623	Ceiling	Interior	1-11	11	YES	Mounted by men's inmate RR	High
12	Bonds Release Vestibule	Fixed	VDN-5085	Ceiling	Interior	1-12	12	YES	Interlock looking into Bonds	Low
13	Admissions	Fixed	VDN-5085	Ceiling	Interior	1-13	13	YES	By holding cell 2, looking at slider	Low
14	Transfer Holding 8	Fixed	VDN-5085	Ceiling	Interior	1-14	14	YES	Inside Cell 8	Low
15	Staff Dining	PTZ	VG5-623	Flush	Interior	1-15	15	YES	West side of staff dining area	Low
16	Handicap Visitation	PTZ	VG5-623	Wall	Interior	1-16	16	YES	Mounted by slider looking at visitation	High
17	Bonds Release Exit	Fixed	VDN-5085	Wall	Interior	2-1	17	YES	Downstairs by elevator looking towards Bonds	Low
18	Sally North Entry	Fixed	VDN-5085	Wall	Exterior	2-2	18	YES	South side of Sally looking North	Low
19	Parking Garage	PTZ	VG5-624-ECS	Ceiling	Exterior	2-3	19	YES	Mounted outside of car wash	High
20	Transfer Holding 7	Fixed	VDN-5085	Ceiling	Interior	2-4	20	YES	Inside holding Cell 7	Low
21	Transfer Holding 6	Fixed	VDN-5085	Ceiling	Interior	2-5	21	YES	Inside holding Cell 8	Low
22	Library Entry	Fixed	VDN-5085	Wall	Interior	2-6	22	YES	In the hallway, looking at entry door	Low
23	Staff Dining	Fixed	VDN-5085	Ceiling	Interior	2-7	23	YES	Looks at slider on staff dining side	Low
24	Sheriff's Lobby	Fixed	VDN-5085	Ceiling	Interior	2-8	24	YES	Looks at Front entry doors	Low
25	Loading Deck	PTZ		Wall/Pend.	Exterior	2-9	25	NO	North end Dock of Jail	High
26	Outer Dock Vestibule	Fixed	VDN-5085	Wall	Exterior	2-10	26	YES	Looks at entrance slider on Dock	Low
27	Camera 27/CLU 5	PTZ	VG5-624-ECS	Wall w/ Arm	Exterior	2-11	27	YES	Mounted on CLU 5 looking at Generator	High
28	Kitchen/Laundry Entry	Fixed	VDN-5085	Wall	Interior	2-12	28	YES	In hallway, looking at both doors	Low
29	Medical North	Fixed	VDN-5085	Ceiling	Interior	2-13	29	YES	Looks back to the South	Low
30	SPARE					2-14	30			
31	Pharmacy	Fixed	VDN-5085	Ceiling	Interior	2-15	31	YES	In Breakroom, looks down hallway	Low
32	Medical South	Fixed	VDN-5085	Ceiling	Interior	2-16	32	YES	Looks back to the North	Low
33	Medical Waiting	Fixed	VDN-5085	Ceiling	Interior	3-1	33	YES	Mounted West side of waiting area	Low
34	SPARE					3-2	34			
35	Staff Entry	Fixed	VDN-5085	Wall	Interior	3-3	35	YES	Inside stairwell, look at entry door	Low
36	Staff Dining Inner	Fixed	VDN-5085	Wall	Interior	3-4	36	YES	Hallway looking back at slider	Low
37	Handicap C/V	Fixed	VDN-5085	Wall	Interior	3-5	37	YES	Inside interlock by building central	Low
38	SPARE					3-6	38			
39	Sheriff's Office Desk	Fixed	VDN-5085	Ceiling	Interior	3-7	39	YES	By entry door, looking at desk	Low
40	CL3 Visit G1006	Fixed	VDN-5085	Wall	Interior	3-8	40	YES	Interlock CLU 3 visitation	Low
41	CL3 Visit Outer	Fixed	VDN-5085	Wall	Interior	3-9	41	YES	CLU 3 visitation stairwell looking at door	Low
42	CL3 Inner Vestibule	Fixed	VDN-5085	Ceiling	Interior	3-10	42	YES	CLU 3 interlock looking at outer slider	Low
43	CL3 Outer Vestibule	Fixed	VDN-5085	Ceiling	Interior	3-11	43	YES	In hallway, looking at CLU 3 outer slider	Low
44	CL1 Visit Outer	Fixed	VDN-5085	Wall	Interior	3-12	44	YES	Bottom of visitation stairwell	Low
45	CL1 Inner Vestibule	Fixed	VDN-5085	Ceiling	Interior	3-13	45	NO	Inside interlock, look at outer slider	Low
46	CL1 Outer Vestibule	Fixed	VDN-5085	Ceiling	Interior	3-14	46	YES	In hallway, looking at outer slider	Low
47	Detention Lobby Visitation	Fixed	VDN-5085	Ceiling	Interior	3-15	47	YES	By help booth looking at visitors	Low

FY 2015 Detention Center Camera and Monitor Upgrades

48	Detention Lobby	Fixed	VDN-5085	Ceiling	Interior	3-16	48	YES	By building central, looking at front doors	Low
49	Outside CL3	PTZ		Wall w/ Arm	Exterior	4-1	49	NO	Looking at CLU 5 Generator	High
50	Outside CL3A Electrical	Fixed	VDN-5085	Wall	Exterior	4-2	50	YES	Mounted on wall looking down	Low
51	Outside CL1	PTZ	VG5-624	Wall w/ Arm	Exterior	4-3	51	YES	Looking at CLU 3 Generator (Roof top pend.)	Low
52	SPARE					4-4	52			
53	SPARE					4-5	53			
54	SPARE					4-6	54			
55	SPARE					4-7	55			
56	Outside CL1 A	Fixed	VDN-5085	Wall	Exterior	4-8	56	YES	Mounted on wall looking a 1A Elec.	Low
57	Outside CL3	PTZ	VG5-624	Wall w/ Arm	Exterior	4-9	57	YES	Looking at CLU 1 Generator (Roof top pend.)	Low
58	Heli Pad	PTZ	VG5-624-ECS	Wall w/ Arm	Exterior	4-10	58	YES	Mounted on CLU 1 looking at helipad	High
59	SPARE					4-11	59			
60	SPARE					4-12	60			
61	SPARE					4-13	61			
62	CL1 Visit H1006	Fixed	VDN-5085	Wall	Interior	4-14	62	YES	Inside interlock, CLU 1 visitation	Low
63	Library	Fixed	VDN-5085	Ceiling	Interior	4-15	63	YES	Looks at officer's desk	Low
64	Inner Dock Vestibule	Fixed	VDN-5085	Ceiling	Interior	4-16	63	YES	By LT office, looking at back door	Low
65	Kitchen	Fixed	VDN-5085	Ceiling	Interior	5-1	65	YES	By cart storage, looking at serving line	Low
66	Kitchen Entry	Fixed	VDN-5085	Ceiling	Interior	5-2	66	YES	Front of office, looking at entry door	Low
67	Kitchen	Fixed	VDN-5085	Ceiling	Interior	5-3	67	YES	By thaw unit, looking at ovens	Low
68	Kitchen	Fixed	VDN-5085	Ceiling	Interior	5-4	68	YES	North side of office looking at coolers	Low
69	Laundry	Fixed	VDN-5085	Ceiling	Interior	5-5	69	YES	Over washer looking at washers	Low
70	Laundry	Fixed	VDN-5085	Ceiling	Interior	5-6	70	YES	By office, looking at washers	Low
71	Kitchen Back Hall	Fixed	VDN-5085	Ceiling	Interior	5-7	71	YES	Looks at inside of back door	Low
72	Library	Fixed	VDN-5085	Ceiling	Interior	5-8	72	YES	Looks at open area mounted by officer's desk	Low
73	Admissions Holding	Fixed	VDN-5085	Ceiling	Interior	5-9	73	YES	In middle of Admissions, looking at Holding	Low
74	SPARE					5-10	74			
75	North Cluster Pit	Fixed	VDN-5085	Wall	Interior	5-11	75	YES		Low
76	South Cluster Pit	Fixed	VDN-5085	Wall	Interior	5-12	76	YES		Low
77	Employee Parking	PTZ	VG5-624-ECS	Wall w/ Arm	Exterior	5-13	77	YES	Mounted on A Mech. wall (Roof top pend.)	High
78	SPARE					5-14	78		Changed to Camera 100	
79	Sheriff's Office Parking	PTZ	VG5-624-ECS	Wall w/ Arm	Exterior	5-15	79	YES	Mounted on B Mech. wall (Roof top pend.)	High
80	SPARE					5-16	80		Changed to Camera 99	
81	CL5 Inner Vestibule	Fixed	VDN-5085	Wall	Interior	6-1	81	YES	Inside CLU 5 interlock	Low
82	SPARE					6-2	82			
83	SPARE					6-3	83			
84	SPARE					6-4	84			
85	CL5 Inner Visitation	Fixed	VDN-5085	Ceiling	Interior	6-5	85	YES	Inside CLU 5 visitation interlock	Low
86	SPARE					6-6	86			
87	SPARE					6-7	87			
88	SPARE					6-8	88			
89	SPARE					6-9	89			
90	SPARE					6-10	90			
91	SPARE					6-11	91			
92	SPARE					6-12	92			
93	CL5 Outer Visitation	Fixed	VDN-5085	Wall	Interior	6-13	93	YES	CLU 5 visitation stairwell looking at door	Low
94	Staff Entry	Fixed	VDN-5085	Wall	Exterior	6-14	94	YES	Mounted outside, looking at who is coming in	Low
95	Book In	Fixed			Interior	6-15	95	NO	In hallway, looking at Holding cell area	Low

FY 2015 Detention Center Camera and Monitor Upgrades

96	Holding 3	Fixed			Interior	6-16	96	NO		
97	Holding Vestibule	Fixed			Interior		97	NO	In vestibule, looking at Holding cells	Low
98	Holding 5	Fixed	VDN-5085	Ceiling	Interior		98	YES		
99	CL5 Outer Vestibule	Fixed	VDN-5085	Ceiling	Interior	5-16	99	YES	In CLU 5 hallway, looking at interlock	Low
100	Staff Parking	Fixed	VDN-5085	Wall w/ Arm	Exterior	5-14	100	YES	Mounted on C Mech. wall (Roof top pend.)	High
101	Kitchen Rear	PTZ	VG5-623-CTS		Interior		101	NO	New	
102	Traffic Cop	PTZ	VG5-623-CTS		Interior		102	NO	New	
103	Main Corridor C1400	PTZ	VG5-623-CTS		Interior		103	NO	New	
104	SPARE						104			
105	SPARE						105			
106	SPARE						106			
107	SPARE						107			
108	SPARE						108			
109	SPARE						109			
110	SPARE						110			
111	SPARE						111			
112	SPARE						112			
113	CL1 A SEG	PTZ			Interior		113	NO		
114	CL1 A SEP	PTZ			Interior		114	NO		
115	CL1 POD B	PTZ			Interior		115	NO		
116	CL1 POD C	PTZ			Interior		116	NO		
117	CL1 POD D	PTZ			Interior		117	NO		
118	CL3 POD A	PTZ			Interior		118	NO		
119	CL3 POD B	PTZ			Interior		119	NO		
120	CL3 POD C	PTZ			Interior		120	NO		
121	CL3 POD D	PTZ			Interior		121	NO		
122	CL5 SEG	PTZ			Interior		122	NO		
123	CL5 SEP	PTZ			Interior		123	NO		
124	CL5 POD B	PTZ			Interior		124	NO		
125	CL5 POD C	PTZ			Interior		125	NO		
126	CL5 POD D	PTZ			Interior		126	NO		
127	Medical	PTZ		Ceiling	Interior		127	NO	By officer's desk	
128	SPARE						128			
129	SPARE						129			
130	SPARE						130			
131	SPARE						131			
132	SPARE						132			

AUTODOME 600 Series Analog PTZ Camera

www.boschsecurity.com



BOSCH

Invented for life



- ▶ Choice of 550 TVL 36x or 28x day/night cameras with 12x digital zoom and wide dynamic range
- ▶ Progressive scan provides smooth and clear images when viewing details in a moving image
- ▶ Sodium Vapor White Balance mode restores objects to their original color
- ▶ AutoTrack II automated motion tracking
- ▶ Advanced privacy masking

The AutoDome 600 Series is an easy to install PTZ camera that delivers superb video in all indoor and outdoor applications. The camera features day/night functionality for high quality images in low light conditions. This discrete, high-speed dome camera ensures reliable, uncompromised functionality in diverse environments across various applications.

AutoDome 600 Series highlights

The AutoDome delivers state-of-the-art technology and features that far exceed other PTZ cameras. The cameras achieve a high horizontal resolution of 550 TV lines enabling the reproduction of clear and detailed images.

Wide Dynamic Range

The AutoDome features Wide Dynamic Range (WDR) technology that allows for the capture of clear images from both bright and dark areas in the same frame. WDR ensures that bright areas are not saturated and that dark areas are not too dark.

Progressive scan

The AutoDome camera is ideally suited for moving imaging applications. The progressive scan technology incorporated into the camera provides smooth and clear images when viewing images from a moving camera.

Sodium vapor lamp white balance

The AutoDome is an exceptional performer when shooting under a sodium vapor lamp (a street lamp or tunnel lamp, for example). Images under these conditions may have a yellowish tint, which may make identification difficult. In the Sodium Vapor White Balance mode, the AutoDome automatically compensates for the light from a sodium vapor lamp to restore objects to their original color.

System overview

The AutoDome 600 Series offers variable pan and tilt speeds, and the AutoPivot feature ensures optimal camera control and viewing at all zoom levels. These high-performance zoom autofocus cameras incorporate the latest digital imaging technology with excellent sensitivity and resolution. With 99 user-defined presets as well as tour and AutoPan modes, The AutoDome 600 Series is not small on features. The AutoDome 600 Series adds real intelligence to your video surveillance applications. Equipped with AutoTrack II, Bosch's award-winning motion tracking software, built-in image stabilization, motion detection, and a sophisticated alarm handling "rules"

engine, the AutoDome 600 Series incorporates advanced, intelligent video features unmatched by any other camera system.

The AutoDome 600 Series supports standard and optional video and data transmission methods, including Bilinx (over coax and UTP) and fiber optic. Remote control, configuration, and firmware updates can also be performed over these cables, offering you unparalleled control of your cameras. Cable compensation provides extended coaxial and UTP distance runs while preventing the image quality degradation caused by signal losses from long cable lengths.

Functions

The following are some of the features that make the AutoDome 600 Series the most flexible PTZ dome camera systems in the security industry.

High-performance PTZ day/night cameras

Image control and quality are integral aspects of any PTZ dome camera, and the AutoDome delivers. The AutoDome 600 Series camera has a 1/4-in. CCD sensor, with 4CIF/D1 resolution and sensitivity to below 1.0 lux and is available with a choice of 28x and the industry-leading 36x optical zoom lens, and all 600 Series systems offer a full 12x digital zoom.

Both camera options provide 550 TVL of horizontal resolution for outstanding clarity and image detail. The cameras also incorporate technology that dramatically improves the dynamic range by 128 times. Also known as WDR (wide-dynamic range), it results in clear image reproduction in extreme high-contrast environments. The AutoScaling (proportional zoom) and AutoPivot (automatically rotates and flips the camera) features ensure optimal control.

Day/night capabilities and outstanding sensitivity make AutoDome 600 Series cameras exceptional performers in all lighting conditions. In low light, these cameras automatically switch from color to monochrome by removing the IR filter to boost the infrared illumination sensitivity, while maintaining superior image quality. For operation in the darkest conditions, the SensUp control feature automatically reduces the shutter speed to as little as one second. This increases sensitivity by more than 50 times.

Accurate control and positioning

With super-quick, 360° per-second pan and 100° per-second tilt speeds; the AutoDome 600 Series outperforms other domes in its class. The 600 Series supports 99 pre-positions and two styles of Guard Tours: Preset and Record/Playback. The preset tour has capability for up to 99 pre-positions with a configurable dwell time between pre-positions, and can be customized as to the order and frequency each preset is visited. The AutoDome 600 Series also provides support for two recorded tours, which have a combined duration of 15 minutes of movements.

These are recorded macros of an operator's movements, including pan, tilt, and zoom activities, and can be played back in a continuous manner. Supported menu languages include: English, Czech, Dutch, French, German, Italian, Polish, Portuguese, Russian and Spanish.

AutoTrack II

Bosch introduced the industry's first automated motion tracking system, and now we've made this award-winning technology even better. The AutoDome 600 Series contains an advanced DSP that provides real-time video processing for incredibly smooth object tracking.

AutoTrack II utilizes Bosch's unique "virtual masking" technology. These "invisible" masks are created to act just like privacy masks, except that only the AutoTrack can see them – and it knows to ignore any motion behind them. This enables the AutoTrack to ignore extraneous background motion, such as a tree blowing in the wind, making it ideal for both indoor and outdoor applications.

Video motion detection (VMD)

With AutoDome, you can create a "region of interest" within a preset position where motion is to be detected. The AutoDome 600 Series supports a total of 10 individual regions of interest (one per pre-position). VMD also takes advantage of virtual masking to ignore areas of unwanted motion.

Image stabilization

As PTZ cameras continue to improve their optical zoom capabilities, image stabilization becomes critical to eliminate movement caused by unstable camera mounts. A mere quarter-inch of movement of the camera mount can shift the field of view by more than 20 feet when the camera is zoomed to a high value. This can render images unusable.

Image stabilization algorithms included with the AutoDome 600 Series reduces camera shake in both the vertical and horizontal axis, resulting in exceptional image clarity (pixel displacement up to +/- 10% for frequencies up to 10 Hz). Bosch's unique image stabilization solution does not reduce camera sensitivity, unlike competitive systems.

Alarm management

The AutoDome 600 Series takes alarm handling to new levels of flexibility and power.

Inputs and outputs

The AutoDome 600 Series can handle seven alarm inputs, two of which are analog inputs that can be programmed for EOLR (End-of-Line Resistor) supervision whenever true security applications require it. These inputs enable the dome to "sense" if the contact is opened or closed and whether the wire has been tampered with (either by being cut or shorted). In addition, the AutoDome 600 Series supports four outputs: one relay rated at two amps

and three additional open collectors for driving external devices. Each can be programmed individually.

Advanced alarm control

The AutoDome 600 advanced alarm control uses sophisticated rules-based logic to determine how to manage alarms. In its most basic form, a “rule” could define which input(s) should activate which output(s). In a more complex form, inputs and outputs can be combined with pre-defined or user-specified keyboard commands to perform advanced dome functions. There is virtually no limit to the number of combinations that you can program, making the standard software in the dome ready for any application.

Superior privacy masking

The AutoDome 600 Series allows for a total of 24 individual privacy masks, with up to eight displayed in the same scene. Unlike conventional privacy masks, these can each be programmed with three, four, or even five corners to cover more complex shapes. Each mask changes size and shape smoothly and quickly – ensuring that the covered object cannot be seen. You also have a choice of colors: black, white, and blurred. Blurred comes in handy when privacy is an issue, but determining the presence of motion is still required.

Fiber Optic Kit

The VGA-FIBER-AN (multimode) is an analog, fiber optic conversion kit for use with 100 and 600 Series AutoDomes. This module is a video transmitter/data receiver modules designed to be mounted directly into an AutoDome power supply box.

Ease of installation and servicing

The AutoDome 600 Series has been designed for quick and easy installation; a key feature from Bosch CCTV products. All housings feature recessed screws and latches for increased tamper resistance.

AutoDome in-ceiling housings provide IP54 protection (with an optional kit) and are rated IK 8 (IEC 62262). These housings feature an impact-resistant polycarbonate rugged bubble to protect your camera from vandalism. The rugged bubble can withstand impacts equivalent to a 4.5 kg (10 lb) weight dropped from a height of 3 m (10 ft).

AutoDome pendant housings (indoor and outdoor) are rated to provide IP 66 protection and come fully assembled with a sunshield and ready for wall or pipe applications with the proper mounting hardware (purchased separately). In addition, the pendant housing comes equipped with a low-impact, high-resolution acrylic bubble for enhanced image clarity. Outdoor Pendant housings provide an operating temperature range down to -40°C (-40°F). The optional “XT” extreme temperature kit allows an AutoDome to operate in temperatures down to -60°C (-76°F), ensuring reliable operation in even the harshest environments.

Note: Bosch offers a full complement of hardware and accessories (as a separate purchase) for corner, mast, roof, pipe, and in-ceiling applications, which allow the AutoDome to be easily adapted to individual site requirements.

Easy upgrades

Bosch’s innovative software, the Configuration Tool for Imaging Devices (CTFID), allows operators or technicians to control the PTZ, change camera settings, and even update firmware from virtually anywhere without need for additional wiring. The AutoDome 600 Series has advanced built-in diagnostics to simplify service and minimize downtime. Using the On Screen Display (OSD), a technician can quickly and easily check critical parameters (such as internal temperature and input voltage level) to verify that the dome is functioning within acceptable operating limits. If video is not present, a local inspection of three diagnostic LEDs at the camera site can identify the presence of video and control data.

Certifications and approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations, including EN50130-4 and EN50121-4
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC Standards
Environmental	In-ceiling: IP54 (with optional VGA-IP54K-IC kit), Plenum rated Pendant: IP66
Impact Resistance	In-ceiling: IK 8

Region	Certification	
Europe	CE	US-17014-UL (Declaration of Conformity)
USA	UL	UL 60950-1
Canada	CSA	CSA C22.2 No. 60950-1-07

Parts included

In-ceiling

1	Fully-assembled in-ceiling housing
1	Polycarbonate bubble, clear or tinted
1	Interface box
1	Coaxial cable with ferrite

Indoor Pendant

1	Fully-assembled indoor pendant housing
1	Acrylic bubble, clear
1	Coaxial cable with ferrite

Outdoor Pendant

1	Fully-assembled outdoor pendant housing with sunshield
1	Acrylic bubble, clear
1	Coaxial cable with ferrite

Note:

1. Mounting hardware and accessories are available separately.
2. The coaxial cable with ferrite is required for pendant arm and in-ceiling mount applications. Do not use the coaxial cable with ferrite for pipe or roof mount applications.

Technical specifications**Camera 36x Day/Night**

Imager	1/4 in.-type Exview HAD CCD (progressive scan)	
Effective Picture Elements	PAL: Approx. 440,000; 752(H) x 582(V) NTSC: Approx. 380,000; 768 (H) x 494 (V)	
Lens	36x Zoom (3.4–122.4 mm) F1.6 to F4.5	
Zoom Movement Speed	NTSC	PAL
• Optical WIDE / Optical TELE – Focus Tracking ON	4.0 sec.	4.0 sec.
• Optical WIDE / Optical TELE – Focus Tracking OFF	2.7 sec.	2.7 sec.
• Optical WIDE / Digital TELE	6.0 sec.	6.2 sec.
• Digital WIDE / Digital TELE	2.1 sec.	2.3 sec.
Focus	Automatic with manual override	
Iris	Automatic with manual override	
Field of View	1.7° to 57.8°	
Video Output	1.0 Vp-p, 75 Ohm	
Gain Control	Auto/Manual/Max. (–3 dB to 28 dB, 2 dB steps)	
Aperture Correction	Horizontal and vertical	
Digital Zoom	12x	
Horizontal Resolution	550 TVL (NTSC, PAL) typical	
Synchronization	Line-Lock (–120° to 120° vertical phase adjust) or internal crystal	
Sensitivity (typical)¹	30 IRE	50 IRE
Day Mode		
SensUp Off	0.66 lux	1.4 lux

SensUp On (NTSC: 1/4s, 15X; PAL 1/3s, 16.7X)	0.04 lux	0.1 lux
Night Mode		
SensUp Off	0.104 lux	0.209 lux
SensUp On (NTSC: 1/4s, 15X; PAL 1/3s, 16.7X)	0.0052 lux	0.0103 lux
Electronic Shutter Speed	1/1 to 1/10,000 sec., 22 steps	
Wide Dynamic Range (WDR)	92 dB (50 dB with WDR Off)	
Signal-to-Noise Ratio (SNR)	>50 dB	
White Balance	2000 K to 10,000 K	

1. Unless otherwise stated, test conditions are: F1.6; shutter = NTSC 1/60s, PAL 1/50s; max AGC; no bubble. Clear bubble adds 0.09 f-stop loss (90% light transmission). Tinted bubble adds 0.47 f-stop loss (60% light transmission).

Camera 28x Day/Night

Imager	1/4 in.-type Exview HAD CCD (progressive scan)	
Effective Picture Elements	NTSC: 380,000 PAL: 440,000	
Lens	28x Zoom (3.5–98.0 mm) F1.35 to F3.7	
Zoom Movement Speed	NTSC	PAL
• Optical WIDE / Optical TELE – Focus Tracking ON	2.5 sec.	2.5 sec.
• Optical WIDE / Optical TELE – Focus Tracking OFF	1.7 sec.	1.7 sec.
• Optical WIDE / Digital TELE – Focus Tracking ON	4.5 sec.	4.9 sec.
• Optical WIDE / Digital TELE – Focus Tracking OFF	1.7 sec.	1.7 sec.
• Digital WIDE / Digital TELE	2.0 sec.	2.5 sec.
Focus	Automatic with manual override	
Iris	Automatic with manual override	
Field of View	2.1° to 55.8°	
Video Output	1.0 Vp-p, 75 Ohm	
Gain Control	Auto/Manual/Max. (–3 dB to 28 dB, 2 dB steps)	
Aperture Correction	Horizontal and vertical	
Digital Zoom	12x	
Horizontal Resolution	550 TVL	

Synchronization	Line-Lock (-120° to 120° vertical phase adjust) or internal crystal	
Sensitivity (typical) ²	30 IRE	50 IRE
Day Mode		
SensUp Off	0.33 lux	0.66 lux
SensUp On (NTSC: 1/4s, 15X; PAL 1/3s, 16.7X)	0.02 lux	0.04 lux
Night Mode		
SensUp Off	0.066 lux	0.166 lux
SensUp On (NTSC: 1/4s, 15X; PAL 1/3s, 16.7X)	0.0026 lux	0.0082 lux
Electronic Shutter Speed	1/1 to 1/10,000 sec., 22 steps	
Wide Dynamic Range (WDR)	92 dB (50 dB with WDR Off)	
Signal-to-Noise Ratio (SNR)	>50 dB	
White Balance	2000 K to 10,000 K	

2. Unless otherwise stated, test conditions are: F1.6; shutter = NTSC 1/60s, PAL 1/50s; max AGC; no bubble. Clear bubble adds 0.09 f-stop loss (90% light transmission). Tinted bubble adds 0.47 f-stop loss (60% light transmission).

Mechanical

	In-Ceiling	Indoor Pendant	Outdoor Pendant
Pan Range	360° cont.	360° cont.	360° cont.
Tilt Angle	1° above horizon	18° above horizon	18° above horizon
Variable Speed	0.1°/s-120°/s	0.1°/s-120°/s	0.1°/s-120°/s
Pre-position Speed	Pan: 360°/s Tilt: 100°/s	Pan: 360°/s Tilt: 100°/s	Pan: 360°/s Tilt: 100°/s
Preset Accuracy	± 0.1° typ.	± 0.1° typ.	± 0.1° typ.

Electrical

	In-Ceiling	Indoor Pendant	Outdoor Pendant
Input Voltage	21-30 VAC 50/60 Hz	21-30 VAC 50/60 Hz	21-30 VAC 50/60 Hz
Power Consumption (typical)	15 W / 27 VA	15 W / 27 VA	51 W / 55 VA ³

3. Add 16 W if using VG4-SHTR-XT kit.

Surge Suppression

Protection on Video	Peak current 10 kA (Gas Tube Arrester)
Protection on Biphase	Peak current 10 A, peak power 300 W (8/20 μs)
Protection on RS-232/485	ESD protection ±15 KV human body model
Protection on Alarm Inputs	Peak current 17 A, peak power 300 W (8/20 μs)
Protection on Alarm Outputs	Peak current 2 A, peak power 300 W (8/20 μs)
Protection on Relay Outputs	Peak current 7.3 A, peak power 600 W (10/1000 μs)
Protection on Power Input (Dome)	Peak current 7.3 A, peak power 600 W (10/1000 μs)
Protection on Power Output (Arm Power Supply)	Peak current 21.4 A, peak power 1500 W (10/1000 μs)

Fiber Optic Kits

VGA-FIBER-AN	
Description	Multimode Fiber Optic Module
Compatible Receiver	LTC 4629 Series
Optical Fiber Compatibility	50/125 μm, 62.5/125 μm, low loss multimode glass fiber, rated for a minimum system bandwidth of 20 MHz
Max. Distance	4.0 km (2.5 miles)
Optical Budget	14 dB
Connector	One (1) ST connector
Wavelength (video/data)	850 nm / 1310 nm

Miscellaneous

Sectors/Titling	16 independent sectors with 20-character titles/sector
Masking	24 individually configurable privacy masks
Pre-positions	99, each with 20-character titles
Camera Setup/Control	Biphase, RS-232, RS-485, Bilinx (coax)
Communications Protocols	Biphase, Bilinx, Pelco P, and Pelco D

Guard Tours	Two (2) types of tours: <ul style="list-style-type: none"> Recorded tours – two (2), total duration 15 minutes Preset tour – one (1), consisting of up to 99 scenes, consecutively and (1) customized up to 99 scenes
Supported Languages	English, Czech, Dutch, French, German, Italian, Polish, Portuguese, Russian and Spanish

Cable Compensation

Max Distance	With Pre-comp OFF	With Pre-comp ON
RG-59/U	1000 ft (300 m)	2000 ft (600 m)
RG-6/U	1500 ft (450 m)	3000 ft (900 m)
RG-11/U	2000 ft (600 m)	4000 ft (1200 m)
Cat 5/UTP (Passive receiver)	750 ft (225 m)	1500 ft (450 m)

User Connections

Power, Camera	21-30 VAC, 50/60 Hz
Power, Heater	21-30 VAC, 50/60 Hz
Control Data	Biphase ± RS-232 RX/TX or RS-485 ± - optional control data (dip switch selectable)
Video	BNC/UTP
Audio Line In	9 K Ohm typ, 5.5 Vp-p max

EOLR Alarm Inputs (2)	Programmable for “normally open”, “normally closed”, “normally open-supervised”, “normally closed-supervised”
Alarm Inputs (5)	Programmable for “normally open” or “normally closed”
Relay Out (1)	Dry contact output rating: 2 A @ 30 VAC
Open Collector Outputs (3)	32 VDC@150 ma max.

Environmental

	In-Ceiling	Indoor Pendant	Outdoor Pendant
Design Rating	IP54, ⁴ Plenum rated	IP66 ⁵	IP66 ⁵
Operating Temp.	-10°C to 40°C (14°F to 104°F)	-10°C to 40°C (14°F to 104°F)	-40°C to 50°C (-40°F to 122°F) with XT kit: -60°C to 50°C (-76°F to 122°F)
Storage Temp.	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)

Humidity	0% to 90% relative, non-condensing	0% to 90% relative, non-condensing	0% to 100% relative, condensing
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4. With optional VGA-IP54K-IC kit.

5. Meets requirements for NEMA 4X certification with use of a polycarbonate bubble. Meets requirements for NEMA 4X, except impact test, with use of an acrylic bubble.

Construction

Dimensions	See dimensional drawings
Weight	<ul style="list-style-type: none"> In-ceiling: 2.66 kg (5.86 lb) Indoor Pendant: 2.88 kg (6.3 lb) Outdoor Pendant: 3.32 kg (7.3 lb)
Bubble Size	153.1 mm diameter (6.03 in.)
Construction Material	<ul style="list-style-type: none"> Housing: Cast aluminum Bubble: Pendant: Acrylic (high-resolution) In-ceiling: Polycarbonate (rugged)
Color	White (RAL 9003)
Standard Finish	Powder coated, sand finish

Mounts/Accessories

Bubbles

In-ceiling

Clear rugged polycarbonate	VGA-BUBBLE-CCLR
Tinted rugged polycarbonate	VGA-BUBBLE-CTIR

Pendant

Clear rugged polycarbonate	VGA-BUBBLE-PCLR
Tinted rugged polycarbonate	VGA-BUBBLE-PTIR
Clear high-resolution acrylic	VGA-BUBBLE-PCLA
Tinted high-resolution acrylic	VGA-BUBBLE-PTIA

Pendant Arm Mounts

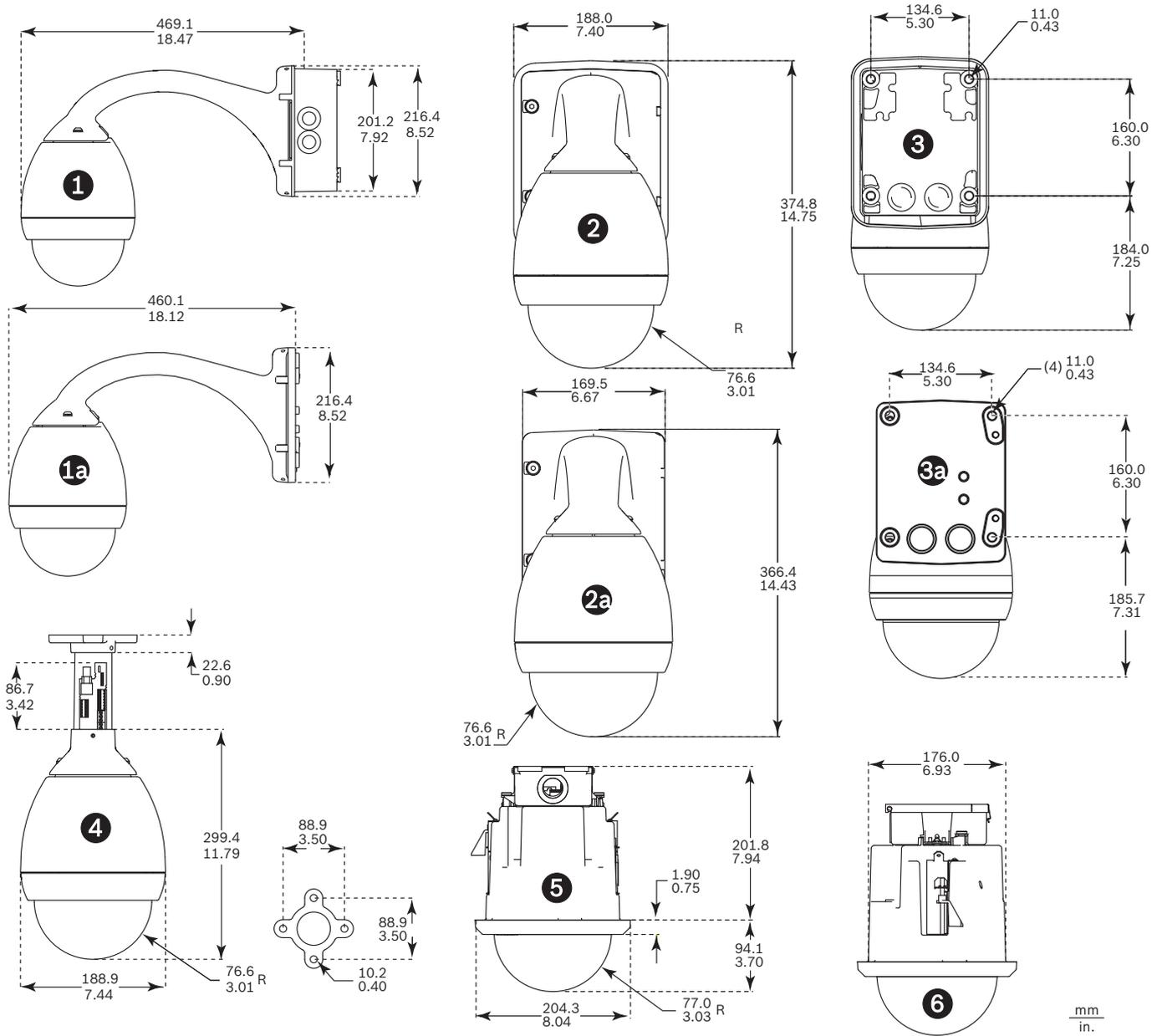
Wall Arm (No Transformer)	VG4-A-PA0
Wall Arm (120/230 VAC Transformer)	VG4-A-PA1 / VG4-A-PA2
Pendant Arm with Wiring	VGA-PEND-ARM
Mounting plate for VGA-PEND-ARM	VGA-PEND-WPLATE
Trim skirt for AutoDome Series Power Supplies	VG4-A-TSKIRT

Optional Mounting Plates for Arm Mounts

Corner Mounting Plate	VG4-A-9542
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Mast (Pole) Mounting Plate	VG4-A-9541
Pendant Pipe Mounts	
Pipe Mount Cap	VG4-A-9543
Pendant Roof Mounts	
Roof (Parapet) Mount <small>(VG4-A-9543 Pipe Mount Cap required. Available separately.)</small>	VGA-ROOF-MOUNT
Optional Mounting Plates for Roof Mounts	
Flat Roof Adapter for Parapet Mount	LTC 9230/01
In-ceiling Support Kits	
Bracket for suspended or drop ceilings	VGA-IC-SP
Gasket kit for IP54 certification	VGA-IP54K-IC
Power Supplies	
Outdoor Power Supply Box, no transformer	VG4-A-PSU0
Outdoor Power Supply Box (120/230 VAC Transformer)	VG4-A-PSU1 / VG4-A-PSU2
Extended temp heater module extends temperature range to – 60°C (–76°F) for outdoor pendants only	VG4-SHTR-XT
Fiber Optic Kit	VGA-FIBER-AN

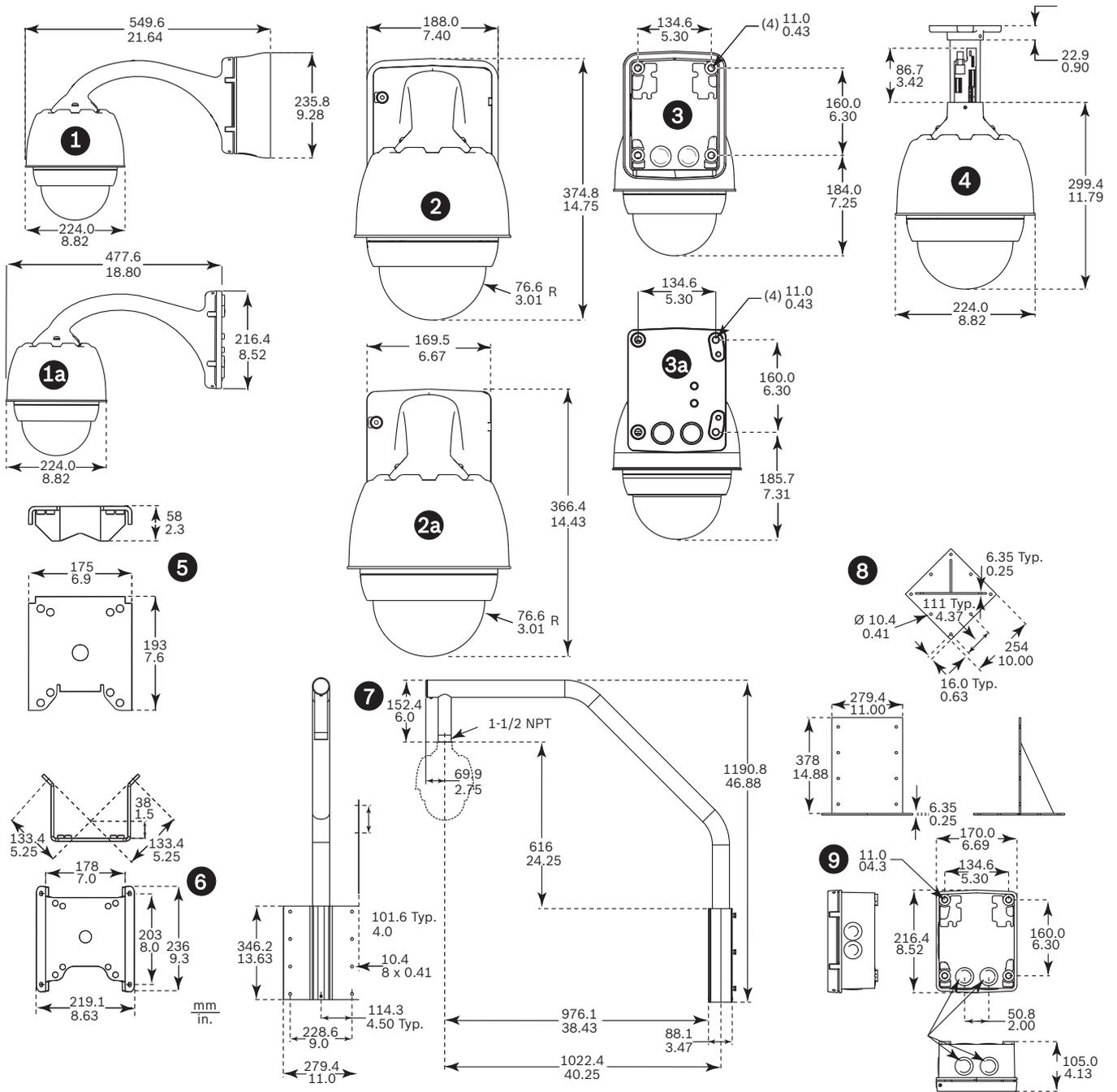
Dimensions: Indoor AutoDomes



Indoor System Dimensions

Reference	Description
1	Wall Mount – Side with power supply
1a	Wall/Mast Mount – Side with VGA-PEND-WPLATE
2	Wall Mount – Front with power supply and trim skirt
2a	Wall Mount – Front with power supply
3	Wall Mount – Back with power supply and trim skirt
3a	Wall Mount – Back with power supply
4	Pipe Mount
5	In-ceiling Mount – Front
6	In-ceiling Mount – Side

Dimensions: Outdoor AutoDomes



Outdoor System Dimensions

Reference Description

- 1 Wall Mount – Side with power supply and trim skirt
- 1a Wall/Mast Mount – Side with VGA-PEND-WPLATE
- 2 Wall Mount – Front with power supply and trim skirt
- 2a Wall Mount – Front with power supply
- 3 Wall Mount – Back with power supply and trim skirt
- 3a Wall Mount – Back with power supply
- 4 Pipe Mount

- 5 Mast Mount
- 6 Corner Mount
- 7 Roof Mount
- 8 Roof Mount Adapter
- 9 Power Supply for Pipe and Roof Mounts

Ordering information

VG5-613-CCS AutoDome 600 Series 28x PAL In-ceiling Camera

Analog 28x PAL camera, in-ceiling housing with a clear polycarbonate bubble
Order number **VG5-613-CCS**

VG5-623-CTS AutoDome 600 Series 28x NTSC In-ceiling Camera

Analog 28x NTSC camera, in-ceiling housing with a tinted polycarbonate bubble
Order number **VG5-623-CTS**

VG5-613-ECS AutoDome 600 Series 28x PAL Outdoor Pendant Camera

Analog 28x PAL camera, outdoor pendant housing with a clear acrylic bubble
Order number **VG5-613-ECS**

VG5-613-PCS AutoDome 600 Series 28x PAL Indoor Pendant Camera

Analog 28x PAL camera, indoor pendant housing with a clear acrylic bubble
Order number **VG5-613-PCS**

VG5-614-ECS AutoDome 600 Series 36x PAL Outdoor Pendant Camera

Analog 36x PAL camera, outdoor pendant housing with a clear acrylic bubble
Order number **VG5-614-ECS**

VG5-614-PCS AutoDome 600 Series 36x PAL Indoor Pendant Camera

Analog 36x PAL camera, indoor pendant housing with a clear acrylic bubble
Order number **VG5-614-PCS**

VG5-623-ECS AutoDome 600 Series 28x NTSC Outdoor Pendant Camera

Analog 28x NTSC camera, outdoor pendant housing with a clear acrylic bubble
Order number **VG5-623-ECS**

VG5-623-PCS AutoDome 600 Series 28x NTSC Indoor Pendant Camera

Analog 28x NTSC camera, indoor pendant housing with a clear acrylic bubble
Order number **VG5-623-PCS**

VG5-624-ECS AutoDome 600 Series 36x NTSC Outdoor Pendant Camera

Analog 36x NTSC camera, outdoor pendant housing with a clear acrylic bubble
Order number **VG5-624-ECS**

VG5-624-PCS AutoDome 600 Series 36x NTSC Indoor Pendant Camera

Analog 36x NTSC camera, indoor pendant housing with a clear acrylic bubble
Order number **VG5-624-PCS**

Accessories

VG4-A-PA0 Pendant Arm Mount

Pendant arm mount with power supply box for an AUTODOME Series camera, no transformer, white
Order number **VG4-A-PA0**

VG4-A-PA1 Pendant Arm Mount with 120 VAC Transformer

Pendant arm mount with power supply box for an AUTODOME Series camera with a 120 VAC transformer, white
Order number **VG4-A-PA1**

VG4-A-PA2 Pendant Arm Mount with 230 VAC Transformer

Pendant arm mount with power supply box for an AUTODOME Series camera with a 230 VAC transformer, white
Order number **VG4-A-PA2**

VGA-PEND-ARM Pendant Arm with Wiring

Compatible with an AutoDome Series pendant housing
Order number **VGA-PEND-ARM**

VGA-PEND-WPLATE Mounting Plate

Mounting plate for VGA-PEND-ARM, compatible with an AutoDome Series camera
Order number **VGA-PEND-WPLATE**

VGA-ROOF-MOUNT Roof Mount

Roof parapet mount, white
(VG4-A-9543 Pipe Mount Cap required. Available separately.)
Order number **VGA-ROOF-MOUNT**

LTC 9230/01 Flat Roof Mount Adapter

For mounting a unit in an upright position on a flat surface for roof parapet mount VGA-ROOF-MOUNT
Order number **LTC 9230/01**

VG4-A-9541 Pole Mount Adapter

Pole mount adapter for an AUTODOME pendant arm or a DINION imager, designed for poles with a diameter of 100-380 mm (4-15 in.), white
Order number **VG4-A-9541**

VG4-A-9542 Corner Mount Adapter

Corner mount adapter for an AUTODOME pendant arm or a DINION imager
Order number **VG4-A-9542**

VG4-A-9543 Pipe Mount

Pipe mount, white, for an AutoDome Series pendant housing
Order number **VG4-A-9543**

VGA-IP54K-IC IP54 In-ceiling Gasket Kit for AutoDome 100/600 Series

Gasket kit for AutoDome 100 and 600 Series AutoDome In-ceiling mounts required for IP54 environmental rating
Order number **VGA-IP54K-IC**

VGA-IC-SP In-ceiling Support Kit for Various Bosch Dome Cameras

Suspended ceiling support kit for AUTODOME 100/600/7000 Series cameras
Order number **VGA-IC-SP**

VG4-A-PSU0 24 VAC Power Supply Unit

Power supply, 24 VAC input, for a PTZ camera in the AUTODOME Series. White, aluminum enclosure with cover, rated IP66 and IK 08. 100 W output. Optional trim skirt (sold separately).
Order number **VG4-A-PSU0**

VG4-A-PSU1 120 VAC Power Supply Unit

Power supply with transformer, 120 VAC input, for an AUTODOME or MIC7000 Series PTZ camera. White, aluminum enclosure with cover, rated IP66 and IK 08. 100 W output. Optional trim skirt (sold separately).
Order number **VG4-A-PSU1**

VG4-A-PSU2 230 VAC Power Supply Unit

Power supply with transformer, 230 VAC input, for an AUTODOME or MIC7000 Series PTZ camera. White, aluminum enclosure with cover, rated IP66 and IK 08. 100 W output. Optional trim skirt (sold separately).
Order number **VG4-A-PSU2**

VGA-SBOX-COVER Cover for AutoDome Power Supply Boxes

Order number **VGA-SBOX-COVER**

VGA-FIBER-AN Analog Multimode Fiber Optic Kit

Analog multimode video transmitter/data receiver fiber optic kit
Order number **VGA-FIBER-AN**

VG4-A-TSKIRT Trim Skirt for AutoDome Power Supply Boxes

Trim skirt for the following AutoDome Series power supply boxes:
VG4-A-PSU0, VG4-A-PSU1, and VG4-A-PSU2
Order number **VG4-A-TSKIRT**

VG4-SHTR-XT Heating Module

Extended temperature heater module extends temperature range to -60°C (-76°F) for AutoDome 100 and 600 Series Outdoor Pendants only
Order number **VG4-SHTR-XT**

VGA-BUBBLE-CCLR Clear Rugged Bubble for an In-ceiling Housing

Impact resistant polycarbonate bubble
Order number **VGA-BUBBLE-CCLR**

VGA-BUBBLE-CTIR Tinted Rugged Bubble for an In-ceiling Housing

Impact resistant polycarbonate bubble
Order number **VGA-BUBBLE-CTIR**

VGA-BUBBLE-PCLR Clear Rugged Bubble for a Pendant Housing

Impact resistant polycarbonate bubble
Order number **VGA-BUBBLE-PCLR**

VGA-BUBBLE-PTIR Tinted Rugged Bubble for a Pendant Housing

Impact resistant polycarbonate bubble
Order number **VGA-BUBBLE-PTIR**

VGA-BUBBLE-PCLA Clear High-resolution Bubble for a Pendant Housing

Low-impact acrylic bubble
Order number **VGA-BUBBLE-PCLA**

VGA-BUBBLE-PTIA Tinted High-resolution Bubble for a Pendant Housing

Low-impact acrylic bubble
Order number **VGA-BUBBLE-PTIA**

Software Options**VP-CFGSFT Configuration Tool for Imaging Devices**

Camera configuration software for use with Bilinx cameras
Order number **VP-CFGSFT**

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FLEXIDOME AN outdoor 5000

www.boschsecurity.com



BOSCH
Invented for life



- ▶ Ultra high resolution 960H sensor
- ▶ High Dynamic Range to see bright and dark details simultaneously
- ▶ High impact, vandal-resistant, weatherproof housing
- ▶ Bilinx communication for remote set-up and control
- ▶ Easy to install

The FLEXIDOME 5000 camera is the ultimate solution for virtually any indoor or outdoor surveillance application. This vandal-resistant dome camera uses a high performance 960H 1/3-inch CCD sensor with a resolution of 720TVL. The sensor, the high dynamic range engine and the advanced image processing technology combine to provide a detailed image with outstanding accuracy in color reproduction even under harsh lighting conditions. True day/night performance ensures the highest image quality possible at any time, day or night. The camera is easy to install and ready to use, and offers the best solution for demanding scene conditions.

System overview

The cast-aluminum housing, polycarbonate dome, and hardened inner liner can withstand the equivalent of 55 kg (120 lbs) of force. The enclosure contains the full-featured camera and integral varifocal lens. Ideal for outdoor use, the cameras are protected against water and dust to IP66 and NEMA Type 4X standards. The camera enclosure provides the extra protection necessary for applications such as schools, banks, prisons, parking garages, retail and industrial buildings.

Installation is quick and easy, as the camera comes completely assembled and ready to use. Using the proprietary pan/tilt/rotation mechanism, installers can select the exact field of view. Mounting options are numerous, including surface, 4S (USA), wall, corner and suspended ceiling. The compact, sleek design and virtually flush-mount appearance complements any decor.

The camera is supplied ready to operate. Six distinct pre-programmed operational modes are stored in the camera. Recall the mode that suits your application for optimized performance.

Functions

Detail in extreme lighting

In harsh lighting, the difference between the brightest and the darkest parts of a scene can be extreme. To produce a clear picture in these conditions, the CCD sensor in the camera generates two images; one long exposure to resolve details in the scene's darkest areas, and one short exposure to resolve details in the scene's brightest areas. The advanced image processing technology in the camera combines these dual shutter images, mixing pixels from each exposure

to produce the most detailed image possible. The superior wide dynamic range for all lighting conditions reveals details previously unseen.

Day/Night mode

The day/night mode provides enhanced night viewing by increasing the IR sensitivity. The IR filter can switch from color to monochrome automatically by either sensing the illumination level or via the alarm input. The filter can be switched manually via the alarm input, through the camera menu or via the Bilinx coaxial control interface. An internal through-the-lens IR detector enhances the monochrome mode stability, as it prevents reverting to the color mode when IR illumination is dominant. IR contrast is also measured and used to handle reflected IR light in outdoor scenes.

Ease of installation

The lens wizard helps focus the lens at the maximum opening to ensure proper back-focus is maintained throughout the 24-hour cycle. No special tools or filters are required.

Six independent, pre-programmed operating modes support typical applications, but are fully programmable for individual situations. Switching between modes is easy via Bilinx or the external alarm input.

Several other features are available that make installation easy:

- Video BNC and power connectors on flying leads.
- A built-in test pattern generator produces signals to test and fault-find cables.
- A multi-language On-Screen Display (OSD).
- A high efficiency power supply improves maximum operating temperature

Cable compensation is used to avoid the need for amplifiers in long distance coaxial connections up to 1000 m (3000 ft). It can prevent the image quality degradation caused by signal losses from long cable lengths.

Bilinx technology

Bilinx is a bidirectional communication capability embedded in the video signal of this camera. Installers can check status, change camera settings and even update firmware from virtually anywhere along the video cable. Bilinx reduces service and installation time, provides for more accurate set-up and adjustment, and improves overall performance. In addition, Bilinx uses the standard video cable to transmit alarm and status messages, providing superior performance without additional installation steps.

Ideal picture performance

There are many settings available to help fine-tune the picture performance to match your installation environment. These include:

- Smart BLC – automatically and dynamically compensates for strong backlight

- Peak White Invert – reduces glare from highlight areas
- Contrast and sharpness – enhance details in bright or misty scenes
- SensUp – sensitivity is dramatically enhanced by a factor of 10
- Default shutter – improves the motion performance in auto exposure mode
- Dynamic noise reduction – dynamically reduces noise in the picture

Privacy masking

Fifteen different privacy zones allow specific parts of a scene to be blocked. Pre-program any part of the scene to be masked.

Video Motion Detection

The built-in video motion detector allows you to select four programmable areas with sensitivity thresholds. When motion is detected, alarms can be displayed in the video signal or an alarm message can be transmitted via Bilinx.

Lens Options

With this dome camera, there is no compromise between scene coverage and aesthetics of the camera. The camera brings the widest choice of lens selection. Choose lenses between 2.8 to 10.5 mm for wide coverage, 9 to 22 mm VF lens for standard coverage, or 18 to 50 mm for long-rang coverage.

Typical applications

- Entrance foyer/lobby with glass
- Warehouses and loading bays
- Prisons and correctional facilities
- Airport locations including:
 - baggage handling
 - fuel and equipment storage
- Stadium

Certifications and approvals

Electro Magnetic Compatibility

Emission	EN 55022 class B, FCC part 15 class B, EN61000-3-2, EN61000-3-3 EN50121-4
Immunity	EN 50130-4, EN 50121-4
Vibration	IEC 60068-2-6

Safety

EN60950-1, UL60950-1 (2ND edition), CSA C22.2 No. 60950-1-07 (2ND edition)

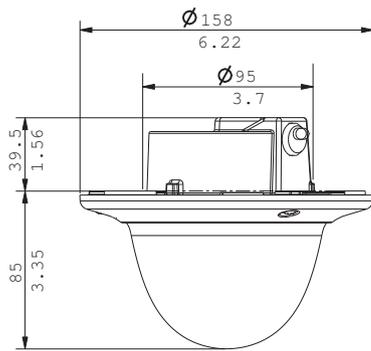
Region	Certification
Europe	CE
USA	UL
	FCC
Canada	CSA

Installation/configuration notes

FLEXIDOME 5000 model overview

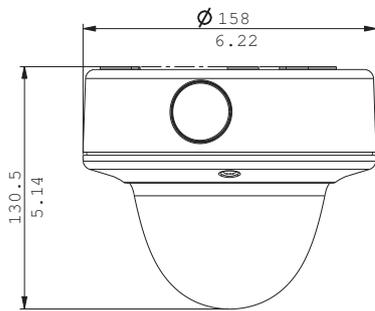
Model	Standard	Lens
VDN-5085-V311	PAL	2.8 to 10.5 mm F1.2
VDN-5085-V321	NTSC	2.8 to 10.5 mm F1.2
VDN-5085-V911	PAL	9 to 22 mm F1.4
VDN-5085-V921	NTSC	9 to 22 mm F1.4
VDN-5085-VA11	PAL	18 to 50 mm F1.5
VDN-5085-VA21	NTSC	18 to 50 mm F1.5

Flush Mounting



Dimensions in mm (in.)

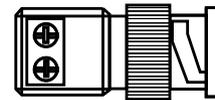
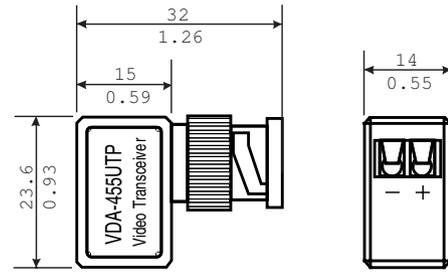
VDA-455SMB-Surface Mount Box



Dimensions in mm (in.) for surface mounting

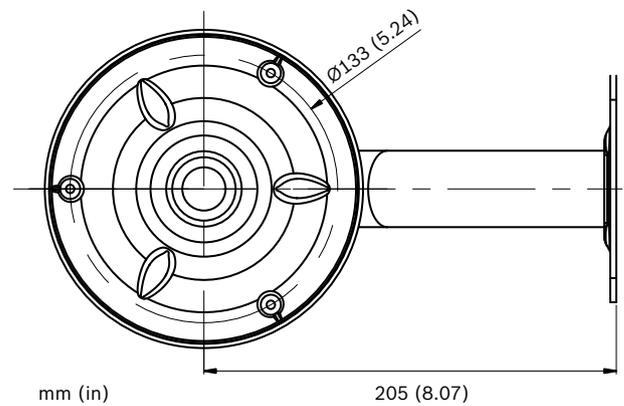
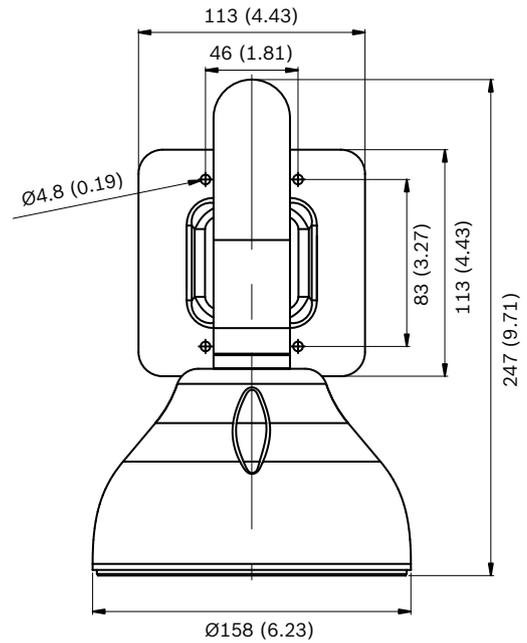
Accessories (not included)

BNC to UTP Transceiver



Dimensions in mm (in.)

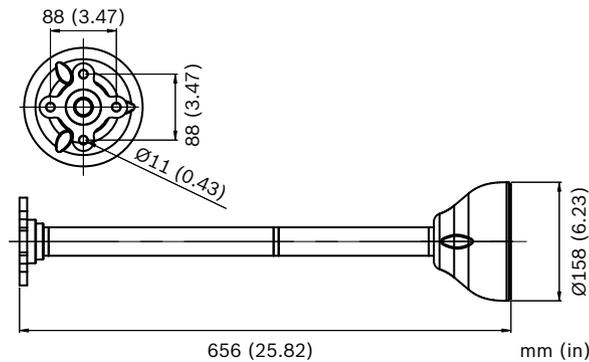
VDA-WMT-DOME -Pendant Wall Mount



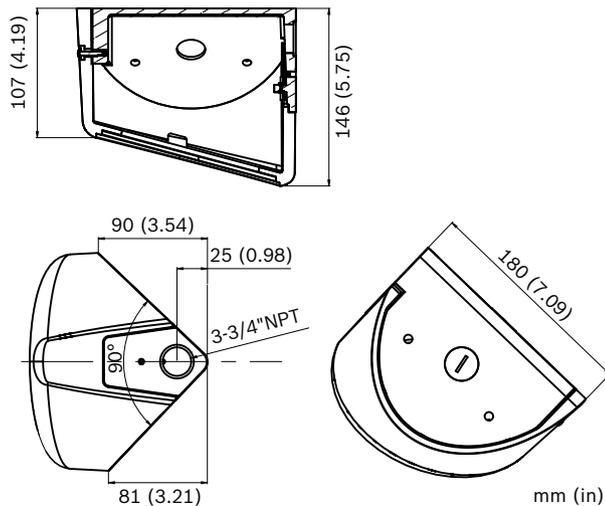
mm (in)

205 (8.07)

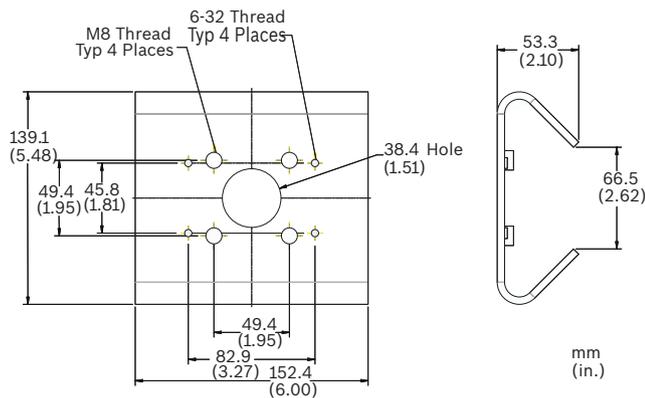
VDA-PMT-DOME –Pendant Pipe Mount



VDA-CMT-DOME –Corner Mount



LTC 9213/01 Pole Mount Adapter



Technical specifications

Electrical

Model No.	Rated Voltage	Rated Frequency
VDN-5085-V311, VDN-5085-V911, VDN-5085-VA11	12 VDC / 24 VAC	50 Hz

VDN-5085-V321, VDN-5085-V921, VDN-5085-VA21	12 VDC / 24 VAC	60 Hz
Power Consumption	360 mA (12 VDC), 700 mA with heater on 330 mA (24 VAC), 650 mA with heater on	
Image Sensor	960H, 1/3" DS CCD, sensor resolution 720TVL, WDR dual shutter	
System	PAL or NTSC	
Total pixels (H x V)	1020 x 596 (PAL) 1020 x 508 (NTSC)	
Effective pixels (H x V)	976 x 582 (PAL) 976 x 494 (NTSC)	

Sensitivity Lens 2.8 to 10.5 mm (3200K, scene reflectivity 89%, transmission 68%, F1.2)"

	Full video (100 IRE)	Usable picture (50 IRE)	Usable picture (30 IRE)
Color	0.7 lx (0.0651 fc)	0.13 lx (0.0121 fc)	0.06 lx (0.00558 fc)
Color + SensUp 10x	0.07 lx (0.00651 fc)	0.013 lx (0.00121 fc)	0.006 lx (0.000558 fc)
Monochrome	0.3 lx (0.0279 fc)	0.06 lx (0.00558 fc)	0.03 lx (0.00279 fc)
Monochrome SensUp 10x	0.03 lx (0.00279 fc)	0.006 lx (0.000558 fc)	0.003 lx (0.000279 fc)

Sensitivity Lens 9 to 22 mm (3200K, scene reflectivity 89%, transmission 68%, F1.4)"

	Full video (100 IRE)	Usable picture (50 IRE)	Usable picture (30 IRE)
Color	1 lx (0.0930 fc)	0.17 lx (0.0158 fc)	0.08 lx (0.00744 fc)
Color + SensUp 10x	0.1 lx (0.00930 fc)	0.017 lx (0.00158 fc)	0.008 lx (0.000744 fc)
Monochrome	0.4 lx (0.0372 fc)	0.08 lx (0.00744 fc)	0.04 lx (0.00372 fc)
Monochrome SensUp 10x	0.04 lx (0.00372 fc)	0.008 lx (0.000744 fc)	0.004 lx (0.000372 fc)

Sensitivity Lens 18 to 50 mm (3200K, scene reflectivity 89%, transmission 68%, F1.5)"

	Full video (100 IRE)	Usable picture (50 IRE)	Usable picture (30 IRE)
Color	1.1 lx (0.102 fc)	0.2 lx (0.0186 fc)	0.09 lx (0.00836 fc)
Color + SensUp 10x	0.11 lx (0.0102 fc)	0.02 lx (0.00186 fc)	0.009 lx (0.000836 fc)

Monochrome	0.5 lx (0.0465 fc)	0.09 lx (0.00836 fc)	0.05 lx (0.00465 fc)
Monochrome SensUp 10x	0.05 lx (0.00465 fc)	0.009 lx (0.000836 fc)	0.005 lx (0.000465 fc)
Signal-to-Noise Ratio	>54 dB		
Video Output	Composite video 1 Vpp, 75 ohm		
Synchronization	Internal, Line Lock		
Shutter	Auto (1/50 [1/60] to 1/100000) selectable, fixed, flickerless, default		
Sensitivity Up	Adjustable from Off up to 10x		
Day/Night	Color, Mono, Auto		
Dynamic Engine	XF-Dynamic, HDR, Smart BLC		
Dynamic Range	94 dB (WDR)		
Dynamic Noise Reduction	2D-NR, 3D-NR		
AGC	AGC On or Off (0 – 40 dB) selectable		
Smart BLC	On/Off		
Peak White Invert	On/Off		
White Balance	ATW Indoor, ATW Outdoor, ATW hold and Manual		
Contrast Enhancement	Low, Medium, High		
Sharpness	Sharpness enhancement level selectable		
Alarm Output	VMD or Bilinx		
Cable Compensation	Up to 1000 m (3000 ft) coax without external amplifiers (automatic set-up in combination with Bilinx coaxial communication)		
Camera ID	17 character editable string, position selectable		
Test Pattern Generator	Color bar, Raster, Impulse, Cross Impulse, Cross hatch,		
Modes	6 preset programmable modes		
Remote Control	Bilinx coaxial bi-directional communication		
Video Motion Detection	4 areas, fully programmable		
Privacy Masking	15 independent areas, fully programmable		
E-Zoom	Up to 16x		
Digital Image Stabilizer	On/Off		
Controls	OSD with soft-key operation		
OSD Language	English, French, German, Spanish, Portuguese, Simplified Chinese, Russian		

Optical

Varifocal	Manual zoom and focus adjustment
Iris control	Automatic iris control

Viewing angle

2.8 to 10.5 mm	Wide 101.8° x 73.7° (H x V)
	Tele 27.4° x 20.6° (H x V)
9 to 22 mm	Wide: 32.1° x 23.3° (H x V)
	Tele: 13.1° x 9.8° (H x V)
18 to 50 mm	Wide: 14.6° x 10.9° (H x V)
	Tele: 5.6° x 4.2° (H x V)

Mechanical

Dimensions	See drawings
Weight	750 g (1.65 lb)
Mounting	Flush on hollow surface with three (3) screws in a 4S electrical box
Color	White (RAL9010) trim ring with black inner liner
Adjustment range	360° pan, 90° tilt, ±90° azimuth
Dome bubble	Polycarbonate, clear with UV blocking anti- scratch coating
Trim ring	Aluminum

Environmental

Operating temperature default (with heater off)	-30 °C to +55 °C (-22 °F to +131 °F)
Operating temperature (with heater on)	-50 °C to +55 °C (-58 °F to +131 °F)
Storage temperature	-55 °C to +70 °C (-67 °F to +158 °F)
Operating humidity	5% to 93% relative humidity
Storage humidity	Up to 98% relative humidity
Impact protection	IEC 60068-2-75 test Eh, 50 J EN 50102, exceeding IK 10
Water/dust protection	IP66 and NEMA Type-4X

Ordering information

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 2.8 to 10.5 mm lens; 50 Hz; PAL
Order number **VDN-5085-V311**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 2.8 to 10.5 mm lens; 60 Hz; NTSC
Order number **VDN-5085-V321**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 9 to 22 mm lens; 50 Hz; PAL
Order number **VDN-5085-V911**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 9 to 22 mm lens; 60 Hz; NTSC
Order number **VDN-5085-V921**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 18 to 55 mm lens; 50 Hz; PAL
Order number **VDN-5085-VA11**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 18 to 55 mm lens; 60 Hz; NTSC
Order number **VDN-5085-VA21**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 2.8 to 10.5 mm lens; surface mount; 50 Hz; PAL
Order number **VDN-5085-V311S**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 2.8 to 10.5 mm lens; surface mount; 60 Hz; NTSC
Order number **VDN-5085-V321S**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 9 to 22 mm lens; surface mount; 50 Hz; PAL
Order number **VDN-5085-V911S**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 9 to 22 mm lens; surface mount; 60 Hz; NTSC
Order number **VDN-5085-V921S**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 18 to 50 mm lens; surface mount; 50 Hz; PAL
Order number **VDN-5085-VA11S**

FLEXIDOME AN outdoor 5000

960H analog outdoor WDR dome camera. IP66; IK10; 12VDC/24VAC; true day/night; 720 TVL; 3-axis adjustment; 4-zone motion detect; 15-zone privacy mask; varifocal 18 to 50 mm lens; surface mount; 60 Hz; NTSC
Order number **VDN-5085-VA21S**

Accessories**VDA-455SMB**

High impact surface mount box for dome cameras
Order number **VDA-455SMB**

VDA-455UTP

Adaptor for UTP twisted pair output
Order number **VDA-455UTP**

S1460 Service/Monitor Cable

2.5 mm jack to BNC video connector cable. 1 m
Order number **S1460**

VDA-WMT-DOME Wall Pendant Mount Bracket

Wall pendant mount bracket for FlexiDome cameras
Order number **VDA-WMT-DOME**

VDA-CMT-DOME Corner Mount Bracket

Corner mount bracket for FlexiDome cameras
Order number **VDA-CMT-DOME**

VDA-PMT-DOME Pendant Pipe Mount Bracket

Pendant pipe mount bracket for FlexiDome cameras
Order number **VDA-PMT-DOME**

LTC 9213/01 Pole Mount Adapter

Flexible pole mount adapter for camera mounts. Max. 9 kg (20 lb); 3 to 15 inch diameter pole; stainless steel straps
Order number **LTC 9213/01**

UPA-2420-50 Power Supply

Power supply for cameras. 220 VAC, 50 Hz In; 24 VAC, 20 VA Out
Order number **UPA-2420-50**

UPA-2430-60 Power Supply

Power supply for camera. 120 VAC, 60 Hz; 24 VAC, 30 VA Out

Order number **UPA-2430-60**

UPA-2450-50 Power Supply, 220 V, 50 Hz

Indoor power supply for camera. 220 VAC, 50 Hz In; 24 VAC, 50 VA Out

Order number **UPA-2450-50**

UPA-2450-60 Power Supply, 120 V, 60 Hz

Indoor power supply for camera. 120 VAC, 60 Hz In; 24 VAC, 50 VA Out

Order number **UPA-2450-60**

VDA-455TBL Tinted bubble

Tinted bubble for FlexiDome series

Order number **VDA-455TBL**

VDA-455CBL Clear bubble

Clear Bubble for FlexiDome series

Order number **VDA-455CBL**

EX12LED-3BD-8M Infrared Illuminator

Mini IR 850 nm illuminator. LED array; 3D Diffuser; black; 17 m HFOV; 30° beam pattern

Order number **EX12LED-3BD-8M**

EX12LED-3BD-8W Infrared Illuminator

Mini IR 850 nm illuminator. LED array; 3D Diffuser; black; 16 m HFOV; 60° beam pattern

Order number **EX12LED-3BD-8W**

EX12LED-3BD-9M Infrared Illuminator

Mini IR 940 nm illuminator. LED array; 3D Diffuser; black; 17 m HFOV; 30° beam pattern

Order number **EX12LED-3BD-9M**

EX12LED-3BD-9W Infrared Illuminator

Mini IR 940 nm illuminator. LED array; 3D Diffuser; black; 16 m HFOV; 60° beam pattern

Order number **EX12LED-3BD-9W**

TC8235GIT Ground Loop Isolation Transformer

Order number **TC8235GIT**

Software Options**VP-CFGSFT Configuration Software**

Configuration software for cameras using Bilinx. VP-USB adaptor

Order number **VP-CFGSFT**

Represented by:**Americas:**

Bosch Security Systems, Inc.
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Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

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Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

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11 Bishan Street 21
Singapore 573943
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Fax: +65 6571 2699
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www.boschsecurity.asia

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Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:

Robert Bosch Ltda Security Systems Division
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Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com



DTK-iBNC Series

Coaxial Line Surge Protector General Product Specifications

DITEK's iBNC inline surge protectors are designed to protect externally-mounted cameras where a dedicated ground connection is unavailable. The iBNC diverts transient surges through the coaxial shielding, protecting the video feed without introducing ground loops. Solid performance and easy installation make the iBNC a favorite of CCTV integrators.



DTK-iBNC2.8

DTK-iBNC6.8

Application Features

- Protects fixed or Coaxitron (PTZ) camera video feeds
- Small footprint makes installation easy
- Recommended for applications where AC power is already protected and ground is unavailable
- Ten Year

Specifications:

Agency Approvals: UL497B

Connection Method: BNC Female In/Out

Protection Type: Analog Video

Service Voltage: -1V – 1V

Max. Continuous Current: 0.2A

Voltage Clamping: 2.8VDC, 6.8VDC

Peak Surge Current: 20,000 Amps
(10/1000 µsec impulse)

Coaxial Band Pass Range: 0Hz – 10MHz,

Return Loss: 22dB RL @ 10MHz

Insertion Loss: <0.3dB/Channel

Impedance: 75 Ohms

Protection Modes: Center Pin – Shield

Dimensions: 3.6" H x 1.1" Diameter (91mm x 28mm)

Weight: 2.5oz (71g)

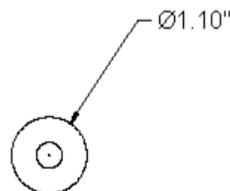
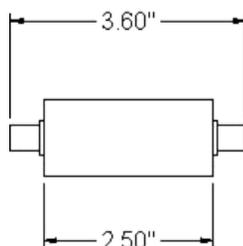
Housing: Aluminum

Selection Guide

Fixed cameras: **DTK-iBNC2.8**

Coaxitron cameras: **DTK-iBNC6.8**

	DTK-iBNC2.8	DTK-iBNC6.8
Service Voltage	±1V peak-peak	5VDC
Impedance	75 Ohms	75 Ohms
Voltage Clamping	2.8VDC	6.8VDC
Peak Surge Current	20,000 A	20,000 A



PRODUCT SUBSTITUTION REQUEST FORM
(Must be submitted a minimum of 7 days before the bid date)

Bidder: _____ Project No: IFB 2015-251

Project: Detention Center Camera and Monitor Upgrades

Section: _____ Article/ Paragraph: _____

Proposed Substitution: _____

Manufacturer: _____ Address: _____

Telephone: _____ Proposed Model No.: _____

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its installation.

The undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Submitted By: _____ Signed: _____

Firm: _____ Address: _____

Phone: _____

REVIEW & ACTION (Initial)

- _____ Substitution approved - Make submittals in accordance with Project Manual requirements.
- _____ Substitution approved as noted - Make submittals in accordance with Project Manual requirements.
- _____ Substitution rejected - Use specified materials.
- _____ Substitution Request received too late - Use specified materials.

Signature: _____ Date: _____

Supporting Data Attached: Drawings Product Data Samples Tests Reports Other

PAYMENT BOND

STATE OF TEXAS §
COUNTY OF COLLIN §

KNOW ALL MEN BY THESE PRESENTS:

That _____, a corporation organized and existing under the laws of the State of _____, and fully authorized to transact business in the State of Texas, whose address is _____ of the City of _____ County of _____, and State of _____, (hereinafter referred to as "Principal"), and _____ (hereinafter referred to as "Surety", a corporation organized under the laws of the State of _____ and authorized under the laws of the State of Texas to act as surety on bonds for principals, are held and firmly bound unto _____ (hereinafter referred to as "Owner") and unto all persons, firms and corporations who may furnish materials for or perform labor upon the buildings, structures or improvements referred to in the attached Contract, in the penal sum of _____ Dollars (\$ _____) (not less than 100% of the approximate total amount of the Contract as evidenced in the proposal) in lawful money of the United States, for the payment whereof, the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors, and assigns, jointly and severally, firmly by these presents:

WHEREAS, the Principal has entered into a certain written contract with the Owner, dated the _____ day of _____, 20____, to which said Contract is hereby referred to and made a part hereof and as fully and to the same extent as if copied at length herein for the construction of _____.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that the bond guarantees the full and proper protection of all claimants supplying labor and material in the prosecution of the work provided for in said Contract and for the use of each claimant, and that conversely should the Principal faithfully perform said Contract and in all respects duly and faithfully observe and perform all and singular the covenants, conditions, and agreements in and by said Contract, agreed to by the Principal, and according to the true intent and meaning of said Contract and the claims and specifications hereto annexed, and any and all duly authorized modifications of said Contract that may hereafter be made, notice of which modification to Surety being hereby waived, then this obligation shall be void; otherwise, to remain in full force and effect. Provided further, that if any legal action be filed on this Bond, venue shall lie in Collin County, Texas.

"PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions Texas Government Code, Chapter 2253, as amended, and Chapter 3503 of the Texas Insurance Code, as amended, and all liabilities on this bond shall be determined in accordance with the provisions of said articles to the same extent as if they were fully copied at length herein.

Surety, for value received, stipulates and agrees that the bond shall automatically be increased by the amount of any Change Order or supplemental agreement which increases the Contract price with or without notice to the Surety and that no change, extension of time, alteration or addition to the terms of the Contract, or to the work performed thereunder, or the plans, specifications, or drawings accompanying the same, shall in anyway affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed thereunder.

The undersigned and designated agent is hereby designated by Surety herein as the agent resident to whom any requisite notice may be delivered and on whom service of process may be had in matters arising out of such suretyship.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument this _____ day of _____ 20_____.

WITNESS

PRINCIPAL

Printed/Typed Name _____

Title: _____

Company: _____

Address: _____

SURETY

Printed/Typed Name _____

Title: _____

Company: _____

Address: _____

WITNESS

The Resident Agent of the Surety for delivery of notice and service of process is:
Name: _____
Address: _____
Phone Number: _____

Note: Date of Bond must NOT be prior to date of contract.

PERFORMANCE BOND

STATE OF TEXAS §
COUNTY OF COLLIN §

KNOW ALL MEN BY THESE PRESENTS:

That _____, a corporation organized and existing under the laws of the State of _____, and fully authorized to transact business in the State of Texas, whose address is _____ of the City of _____ County of _____, and State of _____, (hereinafter referred to as "Principal"), and _____ (hereinafter referred to as "Surety", a corporation organized under the laws of the State of _____ and authorized under the laws of the State of Texas to act as surety on bonds for principals, are held and firmly bound unto _____ (hereinafter referred to as "Owner") and unto all persons, firms and corporations who may furnish materials for or perform labor upon the buildings, structures or improvements referred to in the attached Contract, in the penal sum of _____ Dollars (\$ _____) (not less than 100% of the approximate total amount of the Contract as evidenced in the proposal plus 10-percent of the stated penal sum as an additional sum of money representing additional court expenses, attorneys' fees, and liquidated damages arising out of or connected with the below identified Contract) in lawful money of the United States, for the payment whereof, the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors, and assigns, jointly and severally, firmly by these presents:

WHEREAS, the Principal has entered into a certain written contract with the Owner, dated the _____ day of _____, 20____, to which said Contract is hereby referred to and made a part hereof and as fully and to the same extent as if copied at length herein for the construction of _____.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said Principal fully and faithfully executes the work and performance of the Contract in accordance with the plans specifications, and Contract Documents, including any extensions thereof which may be granted with or without notice to Surety, during the original term thereof, and during the life of any guaranty required under the Contract, and according to the true intent and meaning of said Contract and the plans and specifications hereto annexed, if the Principal shall repair and/or replace all defects due to faulty materials or workmanship that appear within a period of one year from the date of final completion and final acceptance of the work by OWNER; and if the Principal shall fully indemnify and save harmless the OWNER from all costs and damages which OWNER may suffer by reason of failure to so perform herein and shall fully reimburse and repay OWNER all outlay and expense which the OWNER may incur in making good any default or deficiency, then this obligation shall be void; otherwise, to remain in full force and effect; and in case said CONTRACTOR shall fail to do so, it is agreed that the OWNER may do said work and supply such materials and charge the same against said CONTRACTOR and Surety on this obligation. Provided further, that if any legal action be filed on this Bond, venue shall lie in _____ Collin County, Texas.

"PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions Texas Government Code, Chapter 2253, as amended, and Chapter 3503 of the Texas Insurance Code, as amended, and all liabilities on this bond shall be determined in accordance with the provisions of said articles to the same extent as if they were fully copied at length herein.

Surety, for value received, stipulates and agrees that the bond shall automatically be increased by the amount of any Change Order or supplemental agreement which increases the Contract price with or without notice to the Surety, but in no event shall a Change Order or Supplemental Agreement which reduces the Contract price decrease the penal sum of the Bond. And further that no change, extension of time, alteration, or addition to the terms of the Contract, or to the work performed thereunder, or the plans, specifications, or drawings accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of the Contract or to the work to be performed thereunder.

Surety agrees that the bond provides for the repairs and/or replacement of all defects due to faulty materials and workmanship that appear within a period of one (1) year from the date of completion and acceptance of the improvement by the OWNER.

The undersigned and designated agent is hereby designated by Surety herein as the agent resident to whom any requisite notice may be delivered and on whom service of process may be had in matters arising out of such suretyship.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument this _____ day of _____ 20_____.

WITNESS

PRINCIPAL

Printed/Typed Name _____
Title: _____
Company: _____
Address: _____

WITNESS

SURETY

Printed/Typed Name _____
Title: _____
Company: _____
Address: _____

The Resident Agent of the Surety for delivery of notice and service of process is:
Name: _____
Address: _____
Phone Number: _____

Note: Date of Bond must NOT be prior to date of contract.

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor or other person doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 1491, 80th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code by a person who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the person meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person knowingly violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of person who has a business relationship with local governmental entity.

2 Check this box if you are filing an update to a previously filed questionnaire.

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

3 Name of local government officer with whom filer has employment or business relationship.

Name of Officer

This section (item 3 including subparts A, B, C & D) must be completed for each officer with whom the filer has an employment or other business relationship as defined by Section 176.001(1-a), Local Government Code. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income, other than investment income, from the filer of the questionnaire?

Yes No

B. Is the filer of the questionnaire receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer named in this section AND the taxable income is not received from the local governmental entity?

Yes No

C. Is the filer of this questionnaire employed by a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

Yes No

D. Describe each employment or business relationship with the local government officer named in this section.

4

Signature of person doing business with the governmental entity

Date

Request for Taxpayer Identification Number and Certification

**Give Form to the
 requester. Do not
 send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Other (see instructions) ▶ _____	Exemptions (see instructions): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	City, state, and ZIP code	
List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)																																																																									
Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i> on page 3.																																																																									
Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.	<table border="1" style="margin: 0 auto;"> <tr><td colspan="9" style="text-align: center;">Social security number</td></tr> <tr> <td style="width: 20px; height: 20px;"> </td><td style="width: 20px; height: 20px;"> </td> </tr> <tr><td colspan="9" style="text-align: center;">-</td></tr> <tr> <td style="width: 20px; height: 20px;"> </td><td style="width: 20px; height: 20px;"> </td> </tr> </table> <table border="1" style="margin: 0 auto;"> <tr><td colspan="9" style="text-align: center;">Employer identification number</td></tr> <tr> <td style="width: 20px; height: 20px;"> </td><td style="width: 20px; height: 20px;"> </td> </tr> <tr><td colspan="9" style="text-align: center;">-</td></tr> <tr> <td style="width: 20px; height: 20px;"> </td><td style="width: 20px; height: 20px;"> </td> </tr> </table>	Social security number																		-																		Employer identification number																		-																	
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Part II 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: (a) I am exempt from backup withholding, or (b) 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 (c) the IRS has notified me that I am no longer subject to backup withholding, and 3. I am a U.S. citizen or other U.S. person (defined below), and 4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.	
Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.	

Sign Here	Signature of U.S. person ▶	Date ▶
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. The IRS has created a page on www.irs.gov/w9 for information about Form W-9, at www.irs.gov/w9. Information about any future developments affecting Form W-9 (such as legislation enacted after we release it) will be posted on that page.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, payments made to you in settlement of payment card and third party network transactions, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct.

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.