

State of West Virginia **Request for Quotation** 04 - Audio/Video

Proc Folder: 184004

Doc Description: ADDENDUM #2 ONE TIME PURCHASE & COMPLETE INSTALL OF A CCTV

Proc Type: Central Purchase Order

Date Issued Solicitation Closes Solicitation No Version 2016-08-19 2016-08-30 CRFQ 0506 WSH1700000001 3 13:30:00

endant en en de la companya de la c **BID CLERK**

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV

25305

US

Vendor Name, Address and Telephone Number: meroy IT Solutions & Westmoreland Office Park Dunbar, WV 25064

> 08/29/16 12:11:53 WV Purchasing Division

FOR BIEGORIUS			
FOR INFORMAT	ION CONT	'AOT THE	DINZES
I ALCHART CHANGE	IOM COM	ALL DE	BUITER

April Battle (304) 558-0067 april.e.battle@wv.gov

Signature X

61-1352158 DATE 08-29-16

All offers subject to all terms and conditions contained in this solicitation

Page: 1

FORM ID: WV-PRC-CRFQ-001

ADDENDUM #2 - TO PROVIDE ANSWERS TO QUESTIONS SUBMITTED BY VENDORS DURING THE SOLICITATION PROCESS, TO PROVIDE A COPY OF THE PRE-BID SIGN-IN SHEET, AND TO MODIFY THE CAMERA LOCATIONS AND PAYMENT SCHEDULE.

US		US			
WESTON	WV26452	WESTON	WV 26452		
936 SHARPE HOSPITAL	RD	936 SHARPE HOSPITA	L RD		
PROCUREMENT OFFICER - 304-269-1210 HEALTH AND HUMAN RESOURCES WILLIAM R SHARPE JR HOSPITAL		HEALTH AND HUMAN	PROCUREMENT OFFICER - 304-269-1210 HEALTH AND HUMAN RESOURCES WILLIAM R SHARPE JR HOSPITAL		

i	i a					I OLAI FIICE	1
	1	Forty-Three (43) Indoor Internet	43.00000	EA	11.	1 14	1
		Protocol (ID) Company	40.00000	EA	# 14 7 00	1ま/ コム 100	П
		Protocol (IP) Cameras			71 31.	111/2/2010	Ł
					101.	1 (5) 1 (1)	i .
,							,
i	Comm Code	Manufacturer					
- 1		ingliff[actri.6]	Specification	n	Model #		1
- 1	40474040				1410-001 16		4

Unit Issue

Unit Price

Total Dales

46171610

Qty

Extended Description:

Section 4.1.1 - Forty-Three (43) Indoor IP Cameras - minimum of 1 megapixel 1280x720

PROCUREMENT OFFICE HEALTH AND HUMAN F WILLIAM R SHARPE JR	ER - 304-269-1210 RESOURCES	PROCUREMENT OFFICE HEALTH AND HUMAN F WILLIAM R SHARPE JR	RESOURCES
936 SHARPE HOSPITAL	RD.	936 SHARPE HOSPITAL	
WESTON	WV26452	WESTON	WV 26452
US		us	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Ten (10) Outdoor IP Cameras	10.00000	EA	#15700	1 11
L				T 101.00	/#1,570.°°

Comm Code 46171610	Manufacturer	Specification	Model #	1
40171810	_		D5-2CD2132F=1	1

Extended Description:

Section 4.1.2 - Ten (10) Outdoor IP Cameras - minimum of 3 megapixels 1280x720

PROCUREMENT OFFIC HEALTH AND HUMAN I WILLIAM R SHARPE JR	RESOURCES HOSPITAL	PROCUREMENT OFFICE HEALTH AND HUMAN I WILLIAM R SHARPE JR	RESOURCES
936 SHARPE HOSPITA	RD	936 SHARPE HOSPITA	L RD
WESTON	WV26452	WESTON	WV 26452
US		us	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Two (2) Network Video Recorder(s) (NVRs)	2.00000	EA	#8.345	0°0/\$16690
Comm Cod	le Manufacturer			<u> </u>	1.10,010
46171610	maritiacturer	Spe	cification	Model #	
				105-961	28NI-FOY/H
	Description :				
Section - 4	.1.3 Two (2) Network Video Recorder - in	clude viewing so	ftware and able to acco	mmodate the 129 cam	eras
Weller, r			S CONTRACTOR		
PROCUR	EMENT OFFICER - 304-269-1210		PROCUREMENT O	FFICER - 304-269-12	0
HEALTH A	AND HUMAN RESOURCES		HEALTH AND HUM		U
WILLIAM	R SHARPE JR HOSPITAL	WILLIAM R SHARPE JR HOSPITAL			
936 SHAR	PE HOSPITAL RD		936 SHARPE HOSE		
WESTON	110,00,450			HALKU	
WESTON	WV26452		WESTON	WV	26452
US			us		
			100		
Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Five (5) Network Switches	5.00000	EA	\$494.∞	1#0117000
				- 111-	1 #\alpha, 7 \(\mathcal{P}\).
omm Code	Manufacturer	Spec	ification	Model #	
6171610					10-288
xtended De	escription :				
ection 4.1.	4 - Five (5) Network Switches - 24 p				
Volley fo			Show the second		
ROCORE	MENT OFFICER - 304-269-1210			FICER - 304-269-1210	
	ND HUMAN RESOURCES		HEALTH AND HUMA		,
VILLIAM R	SHARPE JR HOSPITAL		WILLIAM R SHARPE		
36 SHARF	PE HOSPITAL RD		936 SHARPE HOSPI		
VESTON	WV26452		i		
	*** 20432		WESTON	W	26452
IS			US		
3					
		The second secon	bit. IA b	1114 m. s	
	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
	Comm Ln Desc Networking	Qty 1.00000		# 750°°	Total Price
ine		1.00000	EA	* 750°° /	
ine	Networking	1.00000			

INVOICE TO		SHIP TO		
PROCUREMENT OFFICER - 304-269-1210 HEALTH AND HUMAN RESOURCES WILLIAM R SHARPE JR HOSPITAL		PROCUREMENT OFFICER - 304-269-1210 HEALTH AND HUMAN RESOURCES WILLIAM R SHARPE JR HOSPITAL		
936 SHARPE HOSPITA	L RD	936 SHARPE HOSPITA	L RD	
WESTON	WV26452	WESTON	WV 26452	
us		US		<u> </u>
Line Comm Ln D	Pesc Qty	Unit Issue	Unit Price	Total Price

Line Co	mm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
Lai	bor	1.00000	EA	#23,984.00	/#23984.°
6171610	Manufacturer	Specification	<u> </u>	Model #	

Extended Description:

Section 4.1.6 - Labor - Installation and labor to install and program CCTV system. Set up workstations and system to operate and fucntion

PROCUREMENT OFFICER - 304-269-1210		PROCUREMENT OFFI	CER - 304-269-1210		
HEALTH AND HUMAN RESOURCES		HEALTH AND HUMAN	HEALTH AND HUMAN RESOURCES		
WILLIAM R SHARPE JE	RHOSPITAL	WILLIAM R SHARPE JE	R HOSPITAL		
936 SHARPE HOSPITA	L RD	936 SHARPE HOSPITA	AL RD		
WESTON	WV26452	WESTON	WV 26452		
US		US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
7	One (1) year materials and labor warranty	1.00000	EA	# (1)	1 # OL
	wantanty			1 4	/ # W

Comm Code	Manufacturer	Specification	Model #	
46171610			W	
<u></u>			Thoughd	

Extended Description:

Section 4.1.7 - One (1) year materials and labor warranty

Line Event Date
1 Question Deadline 3:00 p.m. Event Date
2016-07-29

	Document Phase	Document Description	Page 5
WSH1700000001	Draft	ADDENDUM #2 ONE TIME PURCHASE &	of 5
		COMPLETE INSTALL OF A CCTV	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

Total: \$ 52,215.00

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.
Formes Sowart - Technology Solutions Executive (Name, Title) Deproduction - Technology Solutions Executive (Printed Name and Title) SCO Westmore land Office Pack, Dunbar, WV 2506 (Address) (Address) (Address) (Phone Number) / (Fax Number) James. Stewart @ Domeroy. COM
(email address)
CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.
Pomeroy IT Solutions (Company) (Authorized Signature) (Representative Name, Title) Tames Stewart - Technology Solutions Executive
(Authorized Signature) (Representative Name, Title)
(Authorized Signature) (Representative Name, Title)
(Printed Name and Title of Authorized Representative)
08-16-16
(Date)
(304) 746 - 4434 / (800) 650 - 1703
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: WSH1700000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addend	un	11	Numbers Received:			
(Check the box next to each addendum received)						
					۰,	
E	V.	ĺ	Addendum No. 1	[]	Addendum No. 6
[V	1	Addendum No. 2	[]	Addendum No. 7
1]		Addendum No. 3	ſ]	Addendum No. 8
[]		Addendum No. 4	[]	Addendum No. 9
[]		Addendum No. 5]]	Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Pomeroy LT Solutions
Company
Authorized Signature

08-29-16
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

REQUEST FOR QUOTATION Closed Circuit Television System Expansion

- 10.1.4. Failure to remedy deficient performance upon request.
- 10.2. The following remedies shall be available to Agency upon default.
 - 10.2.1. Cancellation of the Contract.
 - 10.2.2. Cancellation of one or more release orders issued under this Contract.
 - 10.2.3. Any other remedies available in law or equity.

11. MISCELLANEOUS:

11.1. Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: James Stourst
Telephone Number: (204) 746 - 4434
Fax Number: (505) 650 - 1703
Email Address: James - Stewart @ Domeroy - Com

Exhibit A - Pricing Page - CRFQ WSH1700000001

Item Number	Quantity	Description		
	Quarterty	Description	Unit Cost	Extended Cost
4.1.1	43	Indoor IP Cameras - minimum of 1 megapixel 1280x720	# K57.00	#6,751.°°
4.1.2	10	Outdoor IP Cameras - minimum of 3 megapixels 1280x720	# 167.°°	#1,570°°
4.1.3	2	Network Video Recorder - include viewing software and able to accommodate the 129 cameras	*8,345°°	#16,690°°
4.1.4	5	Network Switches - 24 port switch with Power over Ethernet, 1 gigabit (10/100/1000)	\$494.00	#2,470°°
4.1.5	1	Miscellaneous installation materials and accessories needed to install, commission, and operate equipment	#750°°	# 750.°°
4.1.6	1	Labor - Installation and labor to install and program CCTV system. Set up workstations and system to operate and fucntion correctly	#23,984°°	#23,984.00
4.1.7	1	One year warranty on all material and labor	# Ø	# Ø
			TOTAL COST	\$52,215.00

	TOTAL COST	\$5
Vendor Name: POMETOY IT Solutions		
Vendor Address: 500 West more land Off Dunbar, WU 25064	1	
Vendor Phone/Fax Numbers: 304-746-4434 / 800 Vendor Email: James. Stewart @ Dom	0-650-1- eray.com	703
Vendor Authorized Representative: The Stewart (Please Print) Vendor Authorized Representative Signature:	man	
Q		



State of West Virginia DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT West Virginia Code §21-1D-5

STATE OF WEST VIRGINIA,	
COUNTY OF,	TO-WIT:
\	ter being first duly sworn, depose and state as follows:
1. I am an employee of	(Company Name); and,
2. I do hereby attest that	(Company Name)
	a drug-free workplace policy and that such plan and h West Virginia Code §21-1D.
The above statements are sworn t	o under the penalty of perjury.
SI TI Co	gnature: Becky Houston gnature: Becky Houston tle: Chyphyu Relation Manage pompany Name: Pomerny ate: 8/11/16
Taken, subscribed and sworn to be By Commission expires	efore me this 12th day of August, 2016
(Se I) HEATHER R CRIST Notery Public - State at Large KENTUCKY - Notary ID # 479063 My Commission Expires November 27, 2016	(Notary Public) L. Secret

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WY CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

Name	Initiated	Completed/Results
Harold Callihan Harold.Callihan@pomeroy.com	Х	Clear
Russel Hall II Russel.HallII@pomeroy.com	Х	Clear
Joshua Budd Joshua.Budd@pomeroy.com	X	Clear
Luke Evans Luke.Evans@pomeroy.com	Х	Clear
Russ Lavender Rusty.Lavender@pomeroy.com	Х	Clear
Scott Hougland Scott.Hougland@pomeroy.com	Х	Clear
Todd Bailey Todd.Bailey@pomeroy.com	Х	Clear
TRACE Marion Phillip.Marion@pomeroy.com	Х	Clear
Charles Guy Charles.Guy@pomeroy.com	Х	Clear
Earl Carey Earl.Carey@pomeroy.com	Х	Clear
Jason Songer Jason.Songer@pomeroy.com	X	Clear
Timothy Silman Timothy Silman@pomeroy.com	Х	Clear
Alex Volpenhein Alexander.Volpenhein@pomeroy.com	Х	Clear
Chip Terry Gary.Terry@pomeroy.com	Х	Clear
Billy Singer Billy.Singer@pomeroy.com	X	Clear
Justin Matney Justin.Matney@pomeroy.com	X	Clear
Marvin Carey earl.carey2@pomeroy.com	Х	Clear
Andrew Patrick Andrew.Patrick@pomeroy.com	X	Clear
Dale Liles Dale.Liles@pomeroy.com	Х	Clear
Jac Jensen Jac Jensen@pomeroy.com	Х	Clear
Jonathan Lacy Jonathon.Lacy@pomeroy.com	Х	Clear
James Dickess James.Dickess@pomeroy.com	Х	Clear
Larry Arthur Larry.Arthur@pomeroy.com	X	Clear
Gabriel Richmond Gabriel.Richmond@pomeroy.com	Х	Clear
Ryan Lacy Joseph.Lacy@pomeroy.com	Х	Clear

Concentra Medical Centers

Average Construction Employees: 25

Employee Reference Guide

2 22	Alcohol and Drug	-Free Workplac	æ
CORPORATE POLICY	Origination Date:	Revision Date: July 2011	Effective Date: April 2011

Purpose

The purpose of this policy is to maintain safe, healthy, and efficient working conditions for its employees and for protecting the safety and security of the Company's products, property, and facilities.

Scope

This policy outlines the safety threats and consequences of substance abuse.

Policy

Being under the influence of any drug or alcohol on the job may pose a serious safety and health risk not only to the user, but to all those who work with the user. The possession, use, or sale of an illegal drug or alcohol in the workplace also poses unacceptable risks for safe and efficient operations. Controlled substances include, but are not limited to, the following: Narcotics (heroin, morphine, etc.); Cannabis (marijuana, hashish); Stimulants (cocaine, amphetamines, etc.); Depressants (tranquilizers); and Hallucinogens (PCP, LSD, etc.).

With these basic objectives in mind Pomeroy has established the following policy with regard to the use, possession, and/or sale of alcohol or drugs.

On-the-Job Use, Possession or Sales of Alcohol or Drugs

Alcohol: Being under the influence of alcohol while performing Company business or while in a Company facility is prohibited. Consumption on Company property is prohibited except as permitted by management.

Legal Drugs (those prescribed by a licensed medical provider for the user or over the counter medications): For certain job positions, an employee's use of a legal drug can pose a significant risk to the safety of the employee or others. Employees who feel or have been informed that the use of such a drug may present a safety risk are to report such drug use to Human Resources by calling (800) 846-8727. A determination shall be made with regard to job-related consequences. Supervisors who are aware of such a situation are to instruct the employee to report to the Human Resources Department.

Illegal Drugs (those not prescribed for the user or obtained over the counter): The use, sale, purchase, transfer, possession, or being under the influence of an illegal drug by an employee while in a Company facility or while performing Company business is prohibited.

	ige 65		
7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	

State of West Virginia Purchasing Division

CERTIFIED DRUG-FREE WORKPLACE REPORT COVERSHEET

In accordance with **West Virginia Code** § 21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. That report must include each of the Items identified below in the Required Report Content section.

<u>Instructions:</u> Vendor should complete this coversheet, attach it to the required report, and submit it to the appropriate location as follows: For contracts more than \$25,000, the report should be mailed to the West Virginia Purchasing Division at 2019 Washington Street East, Charleston, WV 25305. For contracts of \$25,000 or less, the vendor should mail the report to the public authority issuing the contract.

or less, the vendor should mail the report to the public authority issuing the contract.
Contract Identification:
Contract Number: (05)/700000000
Contract Purpose: Putchase and install of CCTV system
Agency Requesting Work: WYDHHR - William R. Shape Jr Hospital
Required Report Content: The attached report must include each of the items listed below. The vendor should check each box as an indication that the required information has been included in the attached report.
Information indicating the education and training service to the requirements of West Virginia Code § 21-1D-5 was provided;
Name of the laboratory certified by the United States Department of Health and Human Services or its successor that performs the drug tests; Concentral Melical Centers
Average number of employees in connection with the construction on the public improvement; 35
Drug test results for the following categories including the number of positive tests and the number of negative tests: (A) Pre-employment and new hires; (B) Reasonable suspicion; (C) Post-accident; and (D) Random.
Vendor Contact Information:
Vendor Name: BS9-657-2100 Vendor Address: 1020 Petershitta Rad Vendor Fax: 1-866-443-2703 Vendor E-Mail: Becky Houston & Romerson



CERTIFICATE OF LIABILITY INSURANCE

DATE (MMUDD/YYYY)

8/9/2016 THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an andorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s). Michelle Davis The Hauser Group Feet: 513-745-9200 MAX Halt 513-745-9219 8260 Northcreek Drive, Sulte 200 anness, mdavis@thehausergroup.com Cincinnati OH 45236 INSURER(5) AFFORDING COVERAGE NAIC MAURER A : Great Northern Insurance Co. 20303 maurer a :Federal Insurance Company 20261 POMER-1 Pomeroy IT Solutions Sales Company, Inc. 1020 Petersburg Road Hebron KY 41048 maurenc: Columbia Casualty Company 31127 20508 Maurento: Valley Forge Insurance Co. MALINER E : Continental Insurance Co. 35289 MSURER F : OVERAGES

CERTIFICATE NUMBER: 785351296

REVISION NUMBER:
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAMS. ALSO WAS POLICY BY POLICY BY 1 TYPE OF DESURANCE POLICY NUMBER ercial general liability 1/18/2016 1/31/2017 A X 200 \$1,000,000 DAMAGE TO RENTED PREMISES (En DECLINATE) CLAIMS-MADE X OCCUR \$1,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GEN'L AGGREGATE LIMIT APPLIES PER: GENERAL AGGREGATE \$2,000,000 POLICY X PER PRODUCTS - COMP/OP AGG \$2,000,000 OTHER: Employee Benefits \$1,000,000 COMBRED ENGLE CHIN (E) assidant) AUTOMOBILE LIABILITY 1/18/2016 1/31/2017 73591678 51,000,000 Х ANY AUTO BODILY INJURY (Per person) SCHEDULED AUTOS NON-OWNED ALL COMNED BOOKY INJURY (Per accident) 8 PROPERTY DAMAGE HIRED AUTOS X X E AUTOR 8 X BRUSLLA LIAD X 79894106 1/18/2016 1/31/2017 OCCUR \$25,000,000 EACH OCCURRENCE STATE LINE CLAIMS-MADE AGGREGATE \$25,000,000 RETENTION S DED 1/18/2016 1/18/2016 1/18/2016 ERS COL 5000732305 1/31/2017 DED NORKERS COMPENSATION AND EMPLOYERS' LIABILITY X PER STATUTE B023881819 1/31/2017 ANY PROPRIETORIPATTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mundalusy in NS) 8023881838 1/31/2017 E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - BA EMPLOYEE \$1,000,000 yes, describe under ESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT \$1,000,000 Technology E&O 596650123 1/18/2016 Limit Flotor 1/31/2017 \$10,000,000 DESCRIPTION OF OPERATIONS / LOCATIONS / VISHCLES (ACORD 181, Admicast Florents Schedule, may be attached if more space is required) CERTIFICATE HOLDER CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED REFORE For Information Purposes Only THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

Agency UN DAHS
REO.P.O# WSUIDOCOCCO |

BID BOND

		Pomeroy IT Solutions Sales Co., Inc.
KNOW ALL MEN BY THESE PRESENTS Hebron	i, That we, the undersigned, Kentucky	as Principal, and Fidelity & Deposit Company of Maryland
or Schaumburg Illinois	a comoration (organized and existing under the laws of the State of
Maryland with its principal office in the Cit		es Surety, are held and firmly bound unto the State
of West Virginia, as Obliges, in the penal sum of		
well and truly to be made, we jointly and severally		ministrators, executors, successors and assions.
should point from an arm actimized and housing many amounts.		•
The Condition of the above obligation is	: s such that whereas the Pri	incipal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proper Contract for the purchase and inst	sal, attached hereto end ma allation of a closed circi	ude a part hereof, to enter into a contract in writing for uit Television System
for William R. Sharpe, Jr. Hospital		
NOW THEREFORE.		
مير المراجعات منذ العماد ابتيا أدامت الأ		
(a) If said bid shall be rejected, or (b) If said bid shall be accepted a	nd the Principal shall enter	into a contract in accordance with the bid or proposal
situched hareto and shall furnish any other bonds	and insurance required by the	he bid or proposal, and shall in all other respects perform be null and void, otherwise this obligation shall remain in
full force and effect. It is expressly understood at	nd agreed that the liability of	the Surety for any and all claims hereunder shall, in no
event, exceed the penal amount of this obligation a	is herein stated.	
The Surely for the value received, hereby	that seems that uniquesthat	the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the		gee may accept such bid, and said Surely does hereby
waive notice of any such extension.		
WITNESS, the following signatures and a	eals of Principal and Surety,	assculed and sealed by a proper officer of Principal and
Surety, or by Principal individually if Principal is an	inclividual, this 10th day of	August / 20 16
		10
Principal Seal		- Noust
		(Name of Principal)
		By WELGOTIVE SAN
		(Must be President, Vice President, or Duly Authorized Agent)
		Co 21 - 22 Am Co N. 15-7
		(Title)
		CAO
Surety Seal		Fidelity & Deposit Company of Maryland
	p processing and the same of t	(Name of Surety)
	(**	$\mathbf{Y}_{\mathbf{A}}$
	<u>\</u> .	Joseph M. Worrall
	7	Attorney to Fact
IMPORTANT - Surety executing bands must be	Honnand in West Victoria	to transact surety insurance, must affix its seel, and
must attach a power of attorney with its seal aff	bond.	

ZURICH AMERICAN INSURANCE COMPANY COLONIAL AMERICAN CASUALTY AND SURETY COMPANY FIDELITY AND DEPOSIT COMPANY OF MARYLAND POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Maryland, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Maryland (herein collectively called the "Companies"), by THOMAS O. MCCLELLAN, Vice President, in pursuance of authority granted by Article V. Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint Jenniler GERHARDT, Candice J. VOGEL, William E. CARLIN, Joseph WORRALL, Debra K. POLLINO and Julie E. CHRISMAN, all of Cincinnati, Ohio, EACH its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed; any and all bonds and undertakings, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York, the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills. Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V. Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Scals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 27th day of March, A.D. 2015.

ZURICH AMERICAN INSURANCE COMPANY COLONIAL AMERICAN CASUALTY AND SURETY COMPANY FIDELITY AND DEPOSIT COMPANY OF MARYLAND







Secretary Eric D. Barnes

Que D. Barry

Vice President Thomas O. McClellan

State of Maryland

County of Baltimore On this 27th day of March, A.D. 2015, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, THOMAS O. MCCLELLAN, Vice President, and ERIC D. BARNES, Secretary, of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Scals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Scal the day and year first above written.

Maria D. Adamski, Notary Public My Commission Expires: July 8, 2015

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V. Section 8. <u>Attornevs-in-Fact</u>. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify of revoke any such appointment or authority at any time."

CERTIFICATE

I. the undersigned. Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Luws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May. 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May. 1990.

RESOLVED: "That the facsimite or mechanically reproduced seal of the company and facsimite or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies,

this Intaky of

Geoffrey Delisio, Vice President

boffres Delision



CONTRACTOR LICENSE

Authorized by the

West Virginia Contractor Licensing Board

Number:

WV034855

Classification:

SPECIALTY
LOW VOLTAGE SYSTEMS

POMEROY IT SOLUTIONS SALES COM INC DBA POMEROY IT SOLUTIONS SALES COM INC 500 WESTMORELAND OFFICE PARK DUNBAR, WV 25064

Date Issued

Expiration Date

JUNE 07, 2016

JUNE 07, 2017

Authorized Company Signature

Chair, West Virginia Contractor Licensing Board

This license, or a copy thereof, must be posted in a conspicuous place at every construction site where work is being performed. This license number must appear in all advertisements, on all bid submissions and on all fully executed and binding contracts. This license cannot be assigned or transferred by licensee. Issued under provisions of West Virginia Code, Chapter 21, Article 11.



STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

AGREEMENT ADDENDUM

In the event of conflict between this addendum and the agreement, this addendum shall control:

- DISPUTES Any references in the agreement to arbitration or to the jurisdiction of any court are hereby deleted. Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims.
- 2. HOLD HARMLESS Any provision requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety.
- 3. GOVERNING LAW The agreement shall be governed by the laws of the State of West Virginia. This provision replaces any references to any other State's governing law.
- 4. TAXES Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal, State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor any other narty.
- PAYMENT Any references to prepayment are deleted. Payment will be in arrears.
- 6. INTEREST Any provision for interest or charges on late payments is deleted. The Agency has no statutory authority to pay interest or late fees.
- 7. NO WAIVER Any language in the agreement requiring the Agency to waive any rights, claims or defenses is hereby deleted.
- 8. <u>FISCAL YEAR FUNDING</u> Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, or otherwise available for this service. In the event funds are not appropriated and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
- 9. STATUTE OF LIMITATION Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted.
- SIMILAR SERVICES Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted.
- FEES OR COSTS The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction.
 Any other provision is invalid and considered null and void.
- 12. ASSIGNMENT Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Prior to assigning the agreement.
- 13. LIMITATION OF LIABILITY The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor. Accordingly, any Limitations on special, incidental or consequential damages are acceptable. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
- 14. RIGHT TO TERMINATE Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor. Agency agrees to pay Vendor for services rendered or goods received prior to the effective date of termination.
- 15. TERMINATION CHARGES Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term.
- 16. RENEWAL Any reference to automatic renewal is deleted. The agreement may be renewed only upon mutual written agreement of the parties.
- 17. INSURANCE Any provision requiring the Agency to purchase insurance for Vendor's property is deleted. The State of West Virginia is insured through the Board of Risk and Insurance Management, and will provide a certificate of property insurance upon request.
- 18. RIGHT TO NOTICE Any provision for repossession of equipment without notice is hereby deleted. However, the Agency does recognize a right of repossession with notice.
- 19. ACCELERATION Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.
- 20. CONFIDENTIALITY -Any provision regarding confidentiality of the terms and conditions of the agreement is hereby deleted. State contracts

 21. AMENDMENTS. All providents are public records under the West Virginia Freedom of Information Act.
- 21. <u>AMENDMENTS</u> All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General.

ACCEPTED BY:

STATE OF WEST VIRGINIA	VENDOR
Spending Unit:	Company Name: TOMCKOW IT SOUTIONS
Signed:	Signed: Smot Silles
Title:	Title: Technology Solutions Executive
Date:	Date: 08-29-16

D-Link[®]

Product Highlights

Flexible Connectivity Options

- · 8.16, 24 or 48 10/100/1000BASE-T ports
- 2 or 4 Gigabit 5FP ports
- PoE+ (802.3at) support on select models

Traffic Prioritization for Voice and Video

 Auto Surveillance VLAN (ASV) and Auto Voice VLAN ensure security and telephone systems have highest priority

IPv6 Support

 Fully IPv6 compatible and ready for enterprise deployment

Energy Efficient Technology

IEEE 802 3az EEE and D-Link Green 3.0 technology help reduce energy use and operating costs

DGS-1210 Series

Gigabit Web Smart Switches

Features

Security

- * Access Control List
- D-Link Safeguard Engine®
- Port Security
- ARP Spoofing Prevention
- */ Smart IP-MAC-Port Binding
- DHCP Server Screening

Management

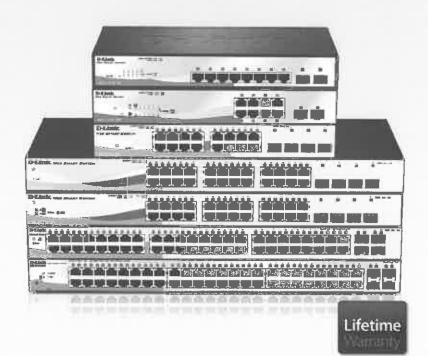
- Web GUI
- D-Link Network Assistant Utility
- Simplified CLI through Telnet
- SNMP and RMON
- IPv4/ IPv6 Dual Stack

QoS

- Supports IEEE 802.1p Quality of Service
- Supports DSCP

Advanced Features

- Auto Surveillance VLAN
- · Auto Voice VLAN
- Port or VLAN-based Loopback Detection
- Cable Diagnostics
- LLDP/LLDP-MED



Overview

The DGS-1210 Series is the latest generation of D-Link® Gigabit Web Smart Switches featuring D-Link Green 3.0 technology. The switches comply with the IEEE 802.3az Energy Efficient Ethernet standard. Support for IPv6 management and configuration features ensures your network remains protected after an upgrade from IPv4 to IPv6. By offering multiple management options, these switches allow quick deployment, infrastructure expansion, and seamless upgrades. Targeting small and medium sized businesses, the DGS-1210 Web Smart switches provide functionality, security, and manageability for a fraction of the standard cost of ownership.

The DGS-1210 Series switches support 8, 16, 24, or 48 10/100/1000BASE-T ports. In addition, each switch supports 2 or 4 Gigabit SFP ports for optical connections using multimode or singlemode SFP transceivers.

PoE Support

Several models in the DGS-1210 series family support Power-over-Ethernet capabilities, simplifying deployments with IP cameras, VoIP phones, wireless access points, and other powered devices. These models include the DGS-1210-10P, DGS-1210-28P and DGS-1210-52MP. Using the switch's management interface, an administrator can control various PoE functions, such as remotely rebooting cameras or access points, from anywhere on the network, including over the Internet. The switches also support time-based PoE – an option that allows administrators to set a time window that determines when each port's PoE power is turned on and off.



Energy Saving

The DG5-1210 Series Switches are capable of conserving power without sacrificing operational performance or functionality by using D-Link Green 3.0 technology. Using the Energy Efficient Ethernet standard, the network will automatically decrease the power usage when traffic is low. For environments not fully supporting the standard, these switches offer advanced power-saving settings including port shutoff, LED shutoff, and system hibernation based on custom time profiles. The time profiles can also be applied to the PoE switches so that unnecessary power consumption can be saved during off hours.

Easy Management

The D-Link Web Smart Switch series is designed for easy management. All configuration can be performed through an intuitive browser-based Graphical User Interface regardless of the host PC's operating system. The DGS-1210 Series switches also support a D-Link Network Assistant Utility that enables administrators to remotely control their network down to the port level. This utility allows customers to easily discover multiple D-Link Web Smart Switches within the same L2 network segment. With this utility, users do not need to change the IP address of their PC. It also simplifies the initial setup by taking switches, within the same L2 network segment, that are connected to the user's PC, and displaying them on screen for instant access. This allows extensive switch configuration and basic setup of discovered devices, including password changes and firmware upgrades. In addition, the DGS-1210 Series supports D-View® 6.0 and Compact Command Line Interface (CLI) through Telnet. D-View 6.0 is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.



Auto Surveillance VLAN and Voice VLAN

The D-Link Web Smart series automates the process of setting up IP surveillance and VoIP devices on a network. Auto Surveillance VLAN consolidates data and surveillance video transmission through the network, sparing businesses the expense of maintaining dedicated facilities. ASV also protects the quality of real-time video by grouping IP surveillance devices on a single high priority VLAN. This ensures that surveillance video streams will not be affected when ordinary data traffic is at a high level. Similarly, the Auto Voice VLAN guarantees clear quality and efficient transmission for all voice communication.

Extensive Layer 2 Features

Equipped with a complete lineup of £2 features, these switches include IGMP Snooping, Port Mirroring, Spanning Tree, and Link Aggregation Control Protocol (LACP). The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfer. At 2000 Mbps Full Duplex, the Gigabit ports provide high-speed data pipes to servers with minimum data transfer loss. Network maintenance features include Loopback Detection and Cable Diagnostics. Loopback Detection is used to detect loops created by a specific port and automatically shut down the affected port. The Cable Diagnostic feature designed primarily for administrators and customer service representatives, can rapidly discover the type of error and determine the cable quality.

Secure your Network

D-Link's innovative Safeguard Engine protects the switches against traffic flooding caused by virus attacks. The switches also support 802.1X port-based authentication, allowing the network clients to be authenticated through external RADIUS servers. In addition, the Access Control List (ACL) feature enhances network security and protects the network by screening traffic from illegal MAC or IP addresses. ARP Spoofing Prevention prevents malicious intruders from sending massive fake ARP messages through a manipulated source. This protects important data from being stolen by Man-in-the-Middle attacks, and prevents wasting CPU cycles on these packets. For added security, the DHCP Server Screening feature blocks rogue DHCP server packets from user ports to prevent unauthorized IP assignment.

Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DGS-1210 Series Web Smart switches to further its commitment to product quality and long-term customer confidence.











Technical Specifications	DGS-1210-10	DGS 1210-20	DGS-1210-28	DGS-1210-52
General				
Port Standards & Functions	 IEEE 802 3 10BASE-T Ethernet IEEE 802 3u 100BASE-TX (Fast Ethernet) IEEE 802 3ab 1000BASE-T (Gigabit Ethernet) IEEE 802 3x Flow Control for Full-Duplex Mode Auto-negotiation 			
Number of Ports	•8 10/100/1000 Mbps •2 SFP	• 16 10/100/1000 Mbps • 4 SFP	-24 10/100/1000 Mbps -4 SFP	•48 10/100/1000 Mbps •4 SFP
Network Cables	• UTP Cat. 5, Cat. 5e (100 m max.) • EIA/TIA-568 100-ohm STP (100 m max.)			
Full/Half Duplex	• Full/half duplex for 10/100 Mbps speeds • Full duplex for Gigabit speed			
Media Interface Exchange		Auto or config	urable MDI/MDIX	
Performance				
Switching Capacity	20 Gbps	40 Gbps	56 Gbps	104 Gbps
Transmission Method		Store-ar	nd-forward	
MAC Address Table		16,000 entr	ries per device	
MAC Address Update		• Up to 256 sta • Enable/disable auto-le	atic MAC entries earning of MAC addresses	
Maximum 64 bytes packet forwarding rate	14.88 Mpps	29.8 Mpps	41.7 Mpps	77.4 Mpps
Packet Buffer Memory	1.5 MB	1.5 MB	1.5 MB	3.0 MB
Physical & Environment				
AC Input		100 to 240 VAC 50/60 Hz in	ternal universal power supply	
Maximum Power Consumption	13.59W	16.09 W	22.45 W	38.27 W
Standby Power Consumption	9.3 W/110 V, 9.4 W/240 V	8.59 W/110 V, 8.80 W/240 V	17.65 W/110 V, 17.84 W/240 V	29.44 W/110 V, 29.49 W/240
Fan Quantity	0	0	0	Two smart fans
Acoustics	0 dB(A)	0 dB(A)	0 dB(A)	Low speed: 39.8 dB(A) High speed: 49.2 dB(A)
Heat Dissipation	46.37 BTU/hr	54.91 BTU/hr	76.55 BTU/hr	130.58 BTU/hr
Operating Temperature		23 to 122 °l	F (-5 to 50 °C)	
Storage Temperature		-4 to 158 °F	(-20 to 70°C)	
Operating Humidity		0% to 95% no	on-condensing	
Storage Humidity	0% to 95% non-condensing			











Dimensions	• 11.02 x 4.96 x 1.73 inches (280 x 126 x 44 mm) • 19" standard rack mounting width, 1U height	• 11.02 x 7.09 x 1.73 inches (280 x 180 x 44 mm) • 19" standard rack mounting width, 1U height	• 17.32 x 5.51 x 1.73 inches (440 x 140 x 44 mm) • 19"standard rack mounting width, 1U height	 17.32 x 8.27 x 1.73 inches (440 x 210 x 44 mm) 19" standard rack mounting width, 1U height
Weight	3.39 lbs (1.54 kg)	2.82 lbs (1.28 kg)	3.68 lbs (1.67 kg)	5.69 lbs (2.58 kg)
Diagnostic LEDs	Power (per device) Link/Activity/Speed (per 10/100/1000 Mbps port) Link/Activity/Speed (per SFP port)	Power (per device) Link/Activity/Speed (per 10/100/1000 Mbps port) Link/Activity/Speed (per SFP port)	Power (per device) Link/Activity/Speed (per 10/100/1000 Mbps port) Link/Activity/Speed (per SFP port)	Power (per device) Link/Activity/Speed (per 10/100/1000 Mbps port Link/Activity/Speed (per SFP port) Fan (per device)
MTBF	360,844 hours	317,412 hours	540,000 hours	481,624 hours
Certifications	• FCC Class A • CE Class A • ICES-003 • VCCI Class A • C-Tick • BSMI			
Safety	• cUL • CE LVD			







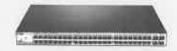


Technical Specifications	DGS-1210-10P	DGS-1210-28P	DGS-1210-52MP
General			
Port Standards & Functions	• IEEE 802.3 10BASE-T Ethernet • IEEE 802.3 u 100BASE-TX (Fast Ethernet) • IEEE 802.3 ab 1000BASE-T (Gigabit Ethernet) • IEEE 802.3 x Flow Control for Full-Duplex Mode • IEEE 802.3 af compliance • IEEE 802.3 at compliance • Auto-negotiation		t) de
Number of Ports	•8 10/100/1000 Mbps PoE •2 SFP	• 24 10/100/1000 Mbps PoE • 4 SFP	• 48 10/100/1000 Mbps PoE • 4 SFP
Network Cables		• UTP Cat. 5, Cat 5e, Cat 6 (100 m max.) • EIA/TIA-568 100-ohm STP (100 m max.)	
Full/Half Duplex	• Full/half duplex for 10/100 Mbps speeds • Full duplex for Gigabit speed		
Media Interface Exchange		Auto or configurable MDI/MDIX	
Performance			
Switching Capacity	40 Gbps	56 Gbps	104 Gbps
Transmission Method		Store-and-forward	
MAC Address Table		16,000 entries per device	
MAC Address Update	 Up to 256 static MAC entries Enable/disable auto-learning of MAC addresses 		
Maximum 64 bytes packet forwarding rate	14.88 Mpps	41.7 Mpps	77.4 Mpps
Packet Buffer Memory	1.5 MB	1.5 MB	3.0 MB
PoE	*		
PoE Standard		IEEE 802.3af and IEEE 802.3at	
PoE Capable Ports	Ports 1 to 8: Up to 30 W	• Ports 1 to 4. Up to 30 W • Ports 5 to 24: Up to 15,4 W	• Ports 1 to 8: Up to 30 W • Ports 9 to 48: Up to 15.4 W
PoE Power Budget	Max. 78 W	Max. 193 W	Max. 370 W









ACInput	1	100 to 240 VAC 50/60Hz internal power supp	ilv
Maximum Power Consumption	103.4 W (PoE on), 17.9 W (PoE off)	251.3 W (PoE on), 21.9 W (PoE off)	483.1 W (PoE on), 48.9 W (PoE off)
Standby Power Consumption	10.3 W/110 V, 11.1 W/240 V	24W/110V, 21.9W/240V	29.5 W/110 V, 27.5 W/240 V
Fan Quantity	0	Two smart fans	Three smart fans
Acoustics	0 dB(A)	Low speed: 47 dB(A) High speed: 52 4 dB(A)	Low speed: 40.4 dB(A) High speed: 50.1 dB(A)
Heat Dissipation	352.63 BTU/hr	840.89 BTU/hr	1648.23 BTU/hr
Operating Temperature		23 to 122 °F (-5 to 50 °C)	
Storage Temperature	-4 to 158 °F (-20 to 70°C)		
Operating Humidity	0% to 95% non-condensing		
Storage Humidity	0% to 95% non-condensing		
Dimensions	• 11.02 x 7.08 x 1.73 inches (280 x 180 x 44 mm) • 19" standard rack mounting width, 1U height	• 17.32 x 8.27 x 1.73 inches (440 x 210 x 44 mm) • 19" standard rack mounting width, 1 U height	• 17.32 x 16.9 x 1.73 inches (440 x 430 x 44 mm) • 19" standard rack mounting width 1U height
Weight	3,1 lbs (1,41 kg)	5.60 lbs (2,54 kg)	12.74 lbs (5.78 kg)
Diagnostic LEDs	Power (per device) PoE Max (per Device) Link/Activity/Speed (per 10/100/1000Base-T port) Link/Activity/Speed (per SFP port) Fan (per device) Button to switch LED display mode between PoE and Link/Activity		
MTBF	315,336 hours	239,236 hours	318,616 hours
Certifications	FCC Class A CE Class A ICES-003 VCCI Class A C-Tick BSMI		
Safety	a de la companya de l	•cUL •CELVD	





2 Features	• MAC Address Table	Spanning Tree Protocol
	• 16K entries	802 1D STP
	IGMP Snooping	• 802.1w RSTP
	• IGMP v1/v2 Snooping	• Flow Control
	• Supports 256 IGMP groups	- 802.3x Flow Control
	 Supports at least 64 static multicast addresses 	HOL Blocking Prevention
	• IGMP per VLAN	Port Mirroring
	Supports IGMP Snooping Querier	• One-to-One
	Loopback Detection	• Many-to-One
	802.3ad Link Aggregation:	
	- DGS-1210 28/28P: Maximum of 14 groups/8 ports	 Supports Mirroring for Tx/Rx/Both Multicast Filtering
	per group	
	DGS-1210 52/52MP: Maximum of 26 groups/8 ports	Forwards all unregistered groups
	per group	Filters all unregistered groups
	- DGS-1210 -10/10P: Maximum of 5 groups/8 ports	Configurable MDI/MDIX
	per group	 MLD snooping v1/v2 (256 groups)
	•LLDP	
	• LLDP-MED	
	- Jumbo Frame	
	• Up to 9,216 bytes	
VLAN	*802.1Q	AutoVoiceVI AN
	•VLAN Group	Auto Voice VLAN May 10 years defined OUT
	Max. 256 static VLAN groups	Max 10 user-defined OUI Max 8 default OUI
	Configurable VID from 1 - 4094	
	Asymmetric VLAN	Auto Surveillance VLAN
Oos (Ouglity of Condes)	0001-0-1-1-66	
QoS (Quality of Service)	- 802.1p Quality of Service	 QoS based on:
	8 queues per port	802.1p Priority Queues
	Queue Handling	• DSCP
	• Strict	•ToS
	Weighted Round Robin (WRR)	 IPv6 Traffic Class
	Bandwidth Control	•TCP/UDP port
	Port-based (Ingress/Egress, min granularity 10/100/1000 is 64 Kbps)	3
L3 Features	- IP Interface	IPv6 Neighbor Discovery (ND)
	Supports 1 interface	
Access Control List (ACL)	- Max. 50 access list	• Ether type
	 Max. 768 rules shared by IPv4, MAC and IPv6 	- IP address
	 Each rule can only be associated with a single port 	• DSCP
	ACL based on	Protocol type
	- 802.1p priority	•TCP/UDP port number
	•VLAN	• IPv6 Traffic Class
	MAC address	
Security	Broadcast/Multicast/Unicast Storm Control	ARP Spoofing Prevention
	D-Link Safeguard Engine	• Max. 64 entries
	DHCP Server Screening	Traffic Segmentation
	• IP-MAC-Port Binding (Smart Binding)	• SSH v2
	Supports 512 address binding entries	• SSL
	• ARP Inspection	• Supports v1/v2/v3
	• ARP + IP Inspection	• Supports v1/v2/v3 • Port Security
	• Supports DHCP Snooping	Supports up to 64 MAC addresses per port
	802.1X Port-based Access Control	Duplicate address detection
A A A		
AAA	- 802.1X Authentication	• IPv6 RADIUS Server
	Supports local/RADIUS database	 Support MD5 authentication
	 Supports port-based access control 	
	 Supports EAP, OTP, TLS, TTLS, PEAP 	



MIB/RFC Standards	• RFC 783 TFTP • RFC 951 BootP/DHCP Client • RFC 1157 SNMP v1, v2, v3 • RFC 1213 MIB II • RFC 1215 MIB Traps Convention • RFC 1350 TFTP • RFC 1493 Bridge MIB • RFC 1769 SNTP • RFC 1542 BootP/DHCP Client • RFC 1901 SNMP v1, v2, v3 • RFC 1907 SNMP v2 MIB • RFC 1908 SNMP v1, v2, v3 • RFC 2131 BootP/DHCP Client • RFC 2138 RADIUS Authentication • RFC 2139 RADIUS Authentication • RFC 2233 Interface Group MIB	• RFC-2246 SSL • RFC 2475 • RFC 2570 SNMP v1, v2, v3 • RFC 2575 SNMP v1, v2, v3 • RFC 2598 CoS • RFC 2618 RADIUS Authentication • RFC 2819 RMON v1 • RFC 2865 RADIUS Authentication • RFC 3164 System Log • RFC 3195 System Log • RFC 3411-17 SNMP • D-Link Private MIB • LLDP MIB • Zone Defense MIB • 2233 Interface Group MIB
OAM	Cable Diagnostics	Factory Reset
Management	Web-based GUI D-Link Network Assistant Utility Compact CLI Telnet Server TFTP Client Configurable MDI/MDIX SNMP Supports v1/v2c/v3 SNMP Trap Backup/Upgrade firmware Smart Wizard Upload/Download Configuration file	System Log Max. 500 log entries BootP/DHCP Client SNTP ICMP v6 IPv4/v6 Dual Stack DHCP Auto Configuration Time Setting SNTP RMONv1 Trusted Host
D-Link Green 3.0 Technology	Power Saving by: Link Status Time-based PoE: PoE ports can be turned on/off by port or system through schedule	LED Shutoff System Hibernation Port Shutoff

Warranty Informatio	
Warranty	Limited Lifetime!
Ordering Informatio	1
Part Number	Description
DGS-1210-10	10-Port Gigabit Web Smart Switch including 2 Gigabit SFP ports
DGS-1210-10P	10-Port Gigabit Web Smart PoE+ Switch including 2 Gigabit SFP ports
DGS-1210-20	20-Port Gigabit Web Smart Switch including 4 Gigabit SFP ports
DGS-1210-28	28-Port Gigabit Web Smart Switch including 4 Gigabit SFP ports
DGS-1210-28P	28-Port Gigabit Web Smart PoE+ Switch including 4 Gigabit SFP ports
DGS-1210-52	52-Port Gigabit Web Smart Switch including 4 Glgabit SFP ports
DGS-1210-52MP	52-Port Gigabit Web Smart PoE+ Switch including 4 Gigabit SFP ports
Optional SFP Transci	ever s
DGS-712	1000BASE-T Copper SFP Transceiver
DEM-310GT	1000BASE-LX Single-mode, SFP Transceiver up to 10 km
DEM-311GT	1000BASE-SX Multi-mode, SFP Transceiver up to 550 km
Optional Software	
DV-600S	D-View 6.0 Network Management System (Standard Edition)
DV-600P	D-View 6.0 Network Management System (Professional Edition)

Limited lifetime warranty available only in the U.S.A.

Last updated: 01/29/2015 Hardware REV C

U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | dlink.com

©2015 D-Link Corporation/D-Link Systems, inc. All rights reserved. D-Link and the D-Link logo are registered trademarks of D-Link Corporation or its subsidiaries in the United States and/or other countries. Other trademarks or registered trademarks are the property of their respective owners.

Visit www.dlink.com for more details.





Features:

- + Small Form-factor Pluggable (SFP)
- + IEEE 802.3u 100Base-FX Standard
- + 2km Multi-mode Fiber
- + Hot-Swappable
- + FDA, CDRH, TUV Laser Eye Safety Certified
- + 200Mbps Full Duplex Data Transfer Rate

100BASE-FX Multimode LC SFP Transceiver, Up to 2km

Overview

D-Link's DEM-211 100BASE-FX Multimode LC SFP Transceiver provides a high performance solution for serial optical data communication applications. The DEM-211 has a duplex LC connector and provides an IEEE 802.3u compliant link for up to 100Mbps in half duplex mode (200Mbps full-duplex mode) for fiber cable applications.

D-Link's highly integrated transceivers offer low jitter performance for extended optical link support

without degradation. The high performance DEM-211 enables reliable data transfer in short, intermediate, and long distances for building, factory, campus, and metropolitan networking applications. When two switches are connected together using a DEM-211 transceiver on both ends, link speeds of up to 155Mbps can be attained. The DEM-211 allows you to provide 100BASE-FX SFP fiber optic connectivity on Gigabit combo SFP ports for D-Link switches!

Technical Specifications	
Product/Performance Specific	cations
Compatible with	DES-1228, DES-1228P, DES-3252P, DES-3228PA, DES-1252, DGS-3612G
Capacity	100Mbps half-duplex (200Mbps full-duplex)
Fiber Type	62.5/125um Multi-mode
Maximum Cable Distance	2km
Wave Length	1310nm
Network Protocols & Standar	ds
JEEE	802.3u 100BASE-FX
Emissions	FCC Class B, CE, ICES-003, VCCI
Safety	FDA/CDRH, TUV, UL, RoHS
Physical & Environmental	
Dimensions (LxWxH)	0.5in x 2.28in x 0.3in
Weight	0.03lbs
Temperature	Operating: 32°F to 158°F (0°C to 70°C) Storage: -40°F to 185°F (-40°C to 85°C)
Humidity	Operating: 10% to 90% Non-condensing Storage: 5% to 90% Non-condensing
Power Budget	13dB
Power Voltage	3.3V
Output Optical Power	Max14dBm, Min19dBm
Warranty	
Warranty	2-Year Limited

'This transceiver connects with supported compatible switches including the DES-1228, DES-1228P, DES-3252P, DES-3228PA, DES-1252, and DGS-3812G. Please visit support dlink com for an updated list of compatible D-Link devices.

DS-2CD2132F-I(W)(S)



Key Features

- Up to 3 megapixel (2048 × 1536) resolution
- Standard video compression with high compression ratio, ROI (region of interest) encoding
- Progressive scan CMOS, capture motion video without incised margin
- Support dual stream, and the sub-stream for mobile surveillance
- High-performance and long service life infrared LED, Approx. 10 to 30 meters IR range
- Two-way audio(-S)
- Audio I/O(-S)
- Support Wi-Fi(-W)
- IR cut filter with auto switch
- PoE (Power over Ethernet)
- Built-in Micro SD/SDHC/SDXC card slot, up to 128 GB
- Ingress Protection level: IP66
- Impact Protection: IEC60068-2-75 test, Eh, 20J; EN50102, up to IK10
- Other functions: rotate mode, alarm, mirror, reset button, etc
- Support intrusion detection and line crossing detection
- Support VCA, which is compatible with NVR for the second time of video searching and analysing

Specification

Model	DS-2CD2132F-I(W)(S)
Parameter	3 Megapixel CMOS Vandal-proof Network Dome Camera
en mark	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	0.07Lux @ (F1.2, AGC ON) ,0 Lux with IR
	0.19 Lux @ (F2.0, AGC ON) ,0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Lens	4mm@ F2.0 (2.8mm, 6mm optional)
Lens	Angle of view: 98.5°(2.8mm), 79°(4mm), 49°(6mm)

HIKVISION

Lens Mount	M12	
Day & Night	IR cut filter with auto switch	
Digital Noise		
Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Angle Adjustment	Pan:0° - 355°, Tilt: 0° - 75°, Rotation: 0-355°	
Video Compression	H.264/ MJPEG	
H.264 Type	Main Profile	
Video Bit Rate	32 Kbps – 12 Mbps	
Dual Stream	Yes	
Audio Compression(-S)	G.711/G.722.1/G.726/MP2L2	
Audio Bit Rate(-S)	64Kbps(G.711) /16Kbps(G.722.1)/16Kbps(G.726) /32-128Kbps(MP2L2)	
a dige of		
Max. Resolution	2048 × 1536	
Frame Rate	50Hz: 20fps(2048 × 1536), 25fps(1920 × 1080), 25fps (1280 × 720)	
Traine nate	60Hz: 20fps(2048 × 1536), 30fps(1920 × 1080), 30fps (1280 × 720)	
Image Settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client	
mage detailigs	software or web browser	
Backlight	Yes, zone optional	
compensation	res, zone optional	
ROI	Support	
Nework		
Network Storage	Local storage: Built-in Micro SD/SDHC/SDXC card slot, up to 128 GB. NAS (Support NFS,SMB/CIFS)	
	Intrusion detection, Line crossing detection, Motion detection, Dynamic	
Alarm Trigger	Analysis, Tampering alarm, Network disconnect, IP address conflict,	
	Storage full, Storage error	
Duntaral	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,	
Protocols	PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour	
Security	User Authentication, Watermark	
Standard	ONVIF, PSIA, CGI, ISAPI	
(naina		
September 1		
Communication	1 RI45 10M/100M Ethornot interfere	
U , , Ld. L	1 RJ45 10M/100M Ethernet interface	
Communication	1 RJ45 10M/100M Ethernet interface -S: 1 alarm I/O	
Communication Interface Alarm Interface Audio interface	-S: 1 alarm I/O -S: 1 audio I/O	
Communication Interface Alarm Interface Audio interface	-S: 1 alarm I/O	
Communication Interface Alarm Interface Audio interface	-S: 1 alarm I/O -S: 1 audio I/O	

HIKVISION

TO INDICITY		
Channel Bandwidth	20/40MHz Support	
Protocols	802.11b: CCK, QPSK, BPSK	
110000013	802.11g/n: OFDM	
Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS	
Transmit Output	11b: 17±1.5dBm @ 11Mbps	
Power	11g: 14±1.5dBm @ 54Mbps	
TOWE	11n: 12.5±1.5dBm	
	11b: -90dBm @ 11Mbps (Typical)	
Receive Sensitivity	11g: -75dBm @ 54Mpbs (Typical)	
	11n: -74dBm (Typical)	
	11b: 11Mbps	
Transfer Rates	11g: 54Mbps	
	11n: up to 150Mbps	
Wireless Range	50m(depend on environment)	
Wireless Standards	IEEE802.11b, 802.11g, 802.11n	
(c)		
Operating Conditions	-30 °C - 60 °C (-22 °F - 140 °F)	
Operating Contactoris	Humidity 95% or less (non-condensing)	
Power Supply	12 V DC ± 10%	
Томестоприу	PoE (802.3af)	
Power Consumption	Max. 5W	
Ingress Protection		
level	IP66	
IR Range	30 meters	
Impact Protection	IEC60068-2-75Eh, 20J; EN50102, up to IK10	
Dimensions	Ф111 × 82 (4.4" × 3.2")	
Weight	500g (1.1 lb)	
	2005 (1.1 lb)	

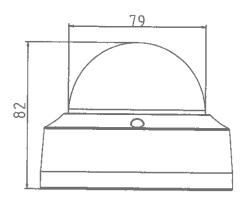
^{* &}quot;-W" series support Wi-Fi (802.11b/g/n) and the modules with Wi-Fi function don't support the 802.1X protocol.

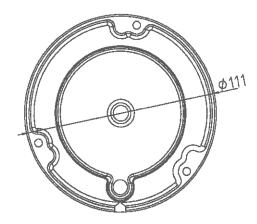
Order Models

DS-2CD2132F-I, DS-2CD2132F-IW, DS-2CD2132F-IS, DS-2CD2132F-IWS



Dimensions





Accessories



Inclined ceiling mount DS-1259ZJ



Wall mount DS-1272ZJ-110



DS-2CD2512F-I (S)(1.3MP)/DS-2CD2532F-I (S)(3MP) IR Mini Dome Network Camera























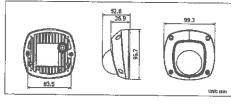






- 1.3MP / 3MP high resolution
- HD real-time video
- -I: IR LEDs (up to 10m)
- DWDR & 3D DNR & BLC
- Onboard storage (up to 64GB)
- -S: Aduio/Alarm I/O
- IP66 protection

Dimensions



Accessories



Available models

DS-2CD2512F-I, DS-2CD2512F-IS DS-2CD2532F-I, DS-2CD2532F-IS

*-S:Audio/Alarm IO

	DS-2CD2512F-I(S)	DS-2CD2532F-WS)	
Camera		- SOURCE BOOK	
Image sensor	1/3" progressive scan CMOS		
Mln. illumination	0.01 lux @F1.2, AGC ON, 0 lux with JR	0.07 lux @F1.2, AGC ON, 0 lux with IR	
Shutter time	1/25s ~ 1/100,000s	TOO TOO OT THE TOO OT THE WILLIAM	
	4mm@ F2.0 (2.8mm, 6mm optional)	4mm@ F2,0 (2,8mm, 6mm optional)	
		2048 × 1536:	
Lens	Angle of view: 92.5°(2.8mm), 73.1°(4mm),	Angle of view: 86°(4mm), 70°(4mm), 43.3°(6mm)	
	46°(6mm)	1920 × 1080:	
Lens mount	M12	Angle of view: 98.5°(4mm), 79°(4mm), 49°(6mm)	
Day & night	-I: IR cut filter with auto switch		
Adjustment angle	Pan: -30°-30°, Tilt: 0-75°, Rotation: 0-380°		
Digital noise reduction	3D DNR		
Wide dynamic range	Digital WDR		
Backlight compensation	The state of the s		
Compression Standard	1 Took Lone ournightenio		
Video compression	H.264 / MJPEG		
H.264 codec profile	Main profile		
Bit rate	32 Kbps ~ 16 Mbps		
Audio compression(-s)	G.711/G.726/MP2L2		
Audio bit rate(-s)	1	ALAN	
Image	64Kbps(G.711) / 16Kbps(G.726) / 32-128Kbps(MP)	2(2)	
Max. Image Resolution	11280 × 960	10040 4500	
MOY MINDS LICEONTHOLI	a find the same of	2048 × 1536	
	50 Hz: 25 fps (1280 × 960), 25 fps (1280 x 720), 25 fps (704 x 576).		
Frame rate	25 fps (640 x 480)	50Hz: 20fps (2048 x 1536), 25fps (1920 x 1080), 25fps (1280 x 720)	
ridilie (ale	60 Hz; 30 fps (1280 × 960), 30 fps (1280 x 720), 30	60Hz: 20fps (2048 x 1536), 30fps (1920 x 1080).	
	1ps (704 x 576),	30fps (1280 x 720)	
	30 fps (640 x 480)	The second of th	
lmage settings	Rotate mode, Saturation, brightness, contrast, sharp browser	eness adjustable through client software or web	
ROI	Yes, up to 4 configurable areas		
Network	1 cos, ap to 4 confligurable di eas		
	It areal storage: Built-in-Micro CD/CDUC/CDVC and	olet up to 64 CD	
Network storage	Local storage: Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB. NAS		
Alams trianne	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception, storage		
Alam trigger	error	and in and an initial orange morphon, storage	
Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS	S,RTP,RTSP,RTCP,	
- College - Coll	PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS	S,IPv6,Bonjour	
System compatibility	ONVIF, PSIA, CGI, ISAPI		
General functionalities	Flickertess, dual stream, heartbeat, mirror, user authentication, video mask, watermark		
nterface			
Communication	1 RJ45 10M / 100M ethernet port		
nterface	THOS TOWN TOWN BUILDING POIL		
On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB		
Varm Interface	-S: 1/1 alarm I/O		
Beneral			
Operating conditions	-30 °C ~ 60 °C (-22°F ~ 140 °F) humidity 95% or less (non-condensing)		
ower supply	12 VDC ± 10% , PoE (802.3af)		
ower consumption	Max. 5W		
Protect level	IP66		
mpact Protection	IEC60068-275Eh, 50J; EN50102, up to IK08		
R range	-I: 10 meters		
Dimensions (mm)	99.3×96.7×52.8mm		
Veight	800 g (1.32 lbs)		



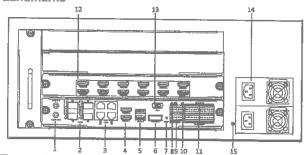
DS-96000NI-F24/H Series Network Video Recorder (NVR)



Key Features

- Connect Up to 128/256 IP Cameras, Linux OS
- · Up to 8 Megapixels Resolution
- Simultaneous HDMI1/VGA Output
- Video Outputs up to 1920 x 1080 Resolution
- · Up to 44 Channels at 1080p Resolution
- 12 HDMI Outputs for Video Wall
- · Up to 24 SATA Hard Disks
- Redundant Power Supply
- ANR Technology
- HDD Hot Swap with RAID 0, RAID 1, RAID 5, RAID 10
- Configurable To N+1 Hot Spare System
- 4 Self-Adaptive 10W100W1000M Network and 4 1000M Optical Fiber Interfaces
- · Smart Search and Playback
- . HDD Quota and Group Modes

Landmarks



Index	Name
1	RCA connector for audio output and output
2	4 Fiber Optic Interfaces
3	4 LAN network interfaces
4	2 HDMI video output connectors
5	USB 3.0 Interfaces
5 6	miniSAS Interface (optional)
7	Reset the device.
8	RS-485 Interface
9	RS-232 Interface
10	Controller Port
11	ALARM IN and ALARM OUT
12	HDMI Output Extension Board
13	VGA Interface
14	100 to 240 VAC Power Input (Dual Power Supplies)
15	GND

IP Video Input	128-ch	256-ch		
	Up to 8 MP resolution	Control of the Contro		
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 k	0)		
	the comment of the second	The state of the s		
Incoming Bandwidth	400 Mbps	640 Mbps, or 400 Mbps (when RAID is enabled)		
Outgoing Bandwidth	400 Mbps	400 Mbps		
Remote Connection	256	100 11000		
		make the same set and amount		
Recording Resolution	8 MP/6 MP/5 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/ 2CIF/CIF/QCIF			
HDMI1/VGA Output Resolution	1-ch, 1920 × 1080p, 1600 × 1200, 1280 × 1024, 1280 × 720, 1024 × 768			
HDMI2 Output	1-ch, 1920 × 1080p, 1600 × 1200, 1280 × 1024, 1280 × 720, 1024 × 768			
HDMI Outputs (On HDMI Output Extension Board)				
LCD Screen	Yes			
Audio Output	1-ch, RCA (2.0 Vp-p,1 K Ω)			
	A	Transmission and the second		
Live View/Playback	8 MP/6 MP/5 MP/3MP/10	080p/UXGA/720P/VGA/4CIF/DCIF/		
Resolution	2CIF/CIF/QCIF			
Synchronous Playback	16-ch			
Capability	44-ch @ 1080p			
SATA				
	24 SATA interfaces for 24 HDDs			
MiniSAS (Optional)	1 miniSAS interface	V 251 227. 1		
Capacity	Up to 6 TB capacity for e	ach HDD		
Capacity				
Array Type	RAID 0, RAID 1, RAID 5,	RAID 10		
Number of Arrays	24			
Network Interface	and the same of th			
	4, RJ-45 10 /100 /1000 N	tops self-adaptive Ethernet Interface		
Optic Fiber Interface	4, 1000 Mbps optic fiberinterface			
Serial Interface	RS-232; RS-485; keyboard			
USB Interface Front panel: 1 × USB 2.0; rear panel: 2 × USB 3.0		rear panel: 2 x USB 3.0		
	larm In/Out 16/8			
		and the same of th		
Power Supply	100 to 240 VAC, 50 to 60	Hz		
Max. Power Consumption	600 W			
Consumption (w/o Hard Disk)	≤100 W			
Working Temperature	-10° C to +55° C (14° F to	131° F)		
Working Humidity	10% to 90%			
Chassis	19-inch rack-mounted 4U	chassis		
Dimensions (W × D × H)	447 mm × 528 mm × 172	mm (17.6" × 20.8" × 6.8")		
Weight (w/o Hard Disk)	≤28.1 kg (61.9 lbs)			
NOTE: To ca	culate the incoming bands	idth and the connected IP cameras:		
	A = B/(C+D)			
A = Number of iP cameras that can be connected B = Incoming bandwidth				
C=C	onnected IP cameras' main	stream hitrate value		
D=C	onnected IP cameras' sub-	stream bitrate value		

EXAMPLE:

Order Models

DS-96128NI-F24/H DS-96256NI-F24/H DS-96128NI-F24 NVR incoming bandwidth is 400 Mbps. The IP camera to connect has a resolution of 720p (1280 x 720)/25 (30) fps. Bitrates for the IP cameras' main stream and sub-stream are set at 4 Mbps and 1 Mbps respectively. In this example, B = 400 Mbps, C = 4 Mbps, D = 1 Mbps, and A = 8/(C+D) = 400/(4+1) = 80, So, the number of IP cameras that can be connected is 80.