

**Purchasing Divison** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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

Proc Folder: 184004

Doc Description: ADDENDUM #3 ONE TIME PURCHASE & COMPLETE INSTALL OF A CCTV

Proc Type: Central Purchase Order

Date Issued Solicitation Closes Solicitation No Version 2016-08-30 2016-09-07 **CRFQ** 0506 WSH1700000001 4 13:30:00

**BID CLERK** 

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV

25305

US

Vendor Name, Address and Telephone Number:

Pomeroy IT Solutions Soo Westmoreland Office Park Dunbar, WV 25064 304-746-4434

19/06/16 10:06:19 W Purchasing Division

FOR INFORMATION CONTACT THE BUYER

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

Signature X

FEIN#

61-1352158 DATE Ø9-06-16

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

ADDENDUM #3 - TO EXTEND THE BID OPENING DATE FROM AUGUST 30, 2016, AT 1:30 PM EST TO SEPTEMBER 7, 2016, AT 1:30 PM EST.

#### NO OTHER CHANGES.

		SHIP TO			
PROCUREMENT OFFICER - 304-269-1210 HEALTH AND HUMAN RESOURCES		HEALTH AND HUMAN RESC	PROCUREMENT OFFICER - 304-269-1210 HEALTH AND HUMAN RESOURCES		
WILLIAM R SHARPE JR 936 SHARPE HOSPITAL		WILLIAM R SHARPE JR HOS 936 SHARPE HOSPITAL RD			
WESTON	WV26452	WESTON	WV 26452		
US		US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Forty-Three (43) Indoor Internet Protocol (IP) Cameras	43.00000	EA	\$157.00	1#6,751.00

Comm Code	Manufacturer	Specification	Model #
46171610			
			DS-20D2512F-1

#### **Extended Description:**

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

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PROCUREMENT OFFICE HEALTH AND HUMAN R WILLIAM R SHARPE JR 936 SHARPE HOSPITAL	RESOURCES HOSPITAL	PROCUREMENT OFFICER HEALTH AND HUMAN RES WILLIAM R SHARPE JR HO 936 SHARPE HOSPITAL R	SOURCES
WESTON	WV26452	WESTON	WV 26452
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Ten (10) Outdoor IP Cameras	10.00000	EA	\$15700	1 4
				7101	/#1.570.ºº

Comm Code	Manufacturer	Specification	Model #
46171610			DS-2CD2132F-i

**Extended Description:** 

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

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	AND HUMAN RESOURCES			OFFICER - 304-269	-1210	
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3	Two (2) Network Video Recorder(s) (NVRs)	2.00000	EA	\$8,345.0		
Comm Cod	e Manufacturer	Speci	fication	Model		
46171610		-	DS-C		I-F24/H-54	
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Section - 4.	1.3 Two (2) Network Video Recorder - in	clude viewing soft	vare and able to acc	ommodate the 129 ca	ameras	
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4	Five (5) Network Switches	5.00000	EA	\$ Ugua	1 11 0	
				7 9995	2,470.00	
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46171610				DG5-16	210-28P	
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46171610	mairuiacturer	Spec	ification Model #		
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		and accessories n	eeded to install, commission, and operate equipment		
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Line	Comm Ln Desc	Qty	Unit issue Unit Price Total Price		
7	One (1) year materials and labor warranty	1.00000	Unit Issue Unit Price Total Price		
Comm Code	Manufactura				
46171610	Manufacturer	Specif	fication Model #		
<u></u>			Included		
Extended De Section 4.1.7	<b>scription :</b> 7 - One (1) year materials and labor wan	antv			
SCHEDULE (	OF EVENTS				
<u>Line</u>	Event	Event D	ate		
1	Question Deadline 3:00 p.m.	2016-07			

	Document Phase	Document Description	Page 5
WSH1700000001	Final	ADDENDUM #3 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.
(Name, Title) Technology Solutions Executive
James Stowart-TSE
(Printed Name and Title) SOO West moreland Office Part Dunbar, WV 05064 (Address)
304-746-4434 800-650-1703 (Phone Number) / (Fax Number)
(entail address) (entail address)
CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation
unough wvo ASIS, 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 of service, unless otherwise stated herein; that the Vendor accents 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 inis bid, offer, or proposal, or any documents related thereto on yendor'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.
Pomeray IT Solutions
Pomeray IT Solutions
Pomeray IT Solutions (Company)
Pomeroy IT Solutions (Company)  Amus Muss - TSE (Authorized Signature) (Representative Name, Title)
Pomeroy IT Solutions (Company)  Tomus Musico - TSE (Authorized Signature) (Representative Name, Title)  James Stewart - TSE
Pomeroy IT Solutions (Company)  Authorized Signature) (Representative Name, Title)  James Stewart - TSE (Printed Name and Title of Authorized Representative)
Pomeroy IT Solutions (Company)  Authorized Signature) (Representative Name, Title)  James Stewart - TSE (Printed Name and Title of Authorized Representative)  Q9-06-16
Pomeroy IT Solutions  (Company)  Authorized Signature) (Representative Name, Title)  Sames Stewart - TSE  (Printed Name and Title of Authorized Representative)  Q9-Q6-16  Date)
Pomeroy IT Solutions (Company)  Authorized Signature) (Representative Name, Title)  James Stewart - TSE (Printed Name and Title of Authorized Representative)  Q9-06-16

# SOLICITATION NUMBER: CRFQ 0506 WSH1700000001 Addendum Number: 3

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

### Applicable Addendum Category:

l	/]	Modify bid opening date and time
[	1	Modify specifications of product or service being sought
[	Ī	Attachment of vendor questions and responses
[	1	Attachment of pre-bid sign-in sheet
1	Ī	Correction of error
[	}	Other

### **Description of Modification to Solicitation:**

1) To extend the bid opening date from August 30, 2016, at 1:30 PM EST to September 7, 2016, at 1:30 PM EST.

No other changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

#### Terms and Conditions:

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- 2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

# 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.

Addendum Numbers Received:			
Check the box next to each addendum re	eceive	d)	
[ \( \) Addendum No. 1	[	}	Addendum No. 6
[ V] Addendum No. 2	-		
[0] Addendum No. 2	L	]	Addendum No. 7
[ ] Addendum No. 3	Г	1	Addendum No. 8
	L	,	14440114411111010
[ ] Addendum No. 4	[	]	Addendum No. 9
5 3 444 4 4			
[ ] Addendum No. 5	Γ	1	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 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.

Pomerou I Southons
Company
Authorized Signature
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing. Revised 6/8/2012

# 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: Sames Stouward
Telephone Number: (204) 746 - 4484
Fax Number: (505) 650 - 1703
Email Address: James - Stouward @ pomeroy - Com

Exhibit A - Pricing Page - CRFQ WSH1700000001

Item Number	Quantity	Description	Unit Cost	Extended Cost
4.1.1	43	indoor iP Cameras - minimum of 1 megapixel 1280x720		\$6,751.00
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°°	#16,690:0
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°°	₹ 750.00
4.1.6	1	Labor - Installation and labor to install and program CCTV system. Set up workstations and system to operate and fucntion correctly	#23,984.00	#23,98400
4.1.7	1	One year warranty on all material and labor	# Ø	\$ Ø
TOTAL COST \$52,215.00				

	4.1.7	1	One year warranty on all material and labor	# Ø	お
				TOTAL COST	\$50
1	Vendor Name:	'tom	eroy IT Solution	5	
•	Vendor Address		Westmore land O		
		ax Numbers:	304-746-4434 / 8	200-650-17	103
V	endor Email: _	Jan	les . Stewart @ pan	neroy.com	
V	endor Authoriz	ed Represen	tative: James Steway		
V	endor Authoriz	ed Represent	ative Signature: (Please Print)	Lewon	



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

STATE OF WEST VIRGINIA,	
COUNTY OF	
I. Becky Houston	, after being first duly sworn, depose and state as follows:
1. I am an employee of	Pomeroy ; and, (Company Name)
2. I do hereby attest that _	Pomaysy (Company Name)
maintains a written plan policy are in compliance	for a drug-free workplace policy and that such plan and with <b>West Virginia Code</b> §21-1D,
The above statements are swor	n to under the penalty of perjury.
	Printed Name: Becky Houston
	Signature: Becky Houston
	Title: Chiping Clatim Manage
	Company Name: Smem
	Date: 8/11/16
Taken, subscribed and sworn to	before me this 12th day of Avairst, 2016
By Commission expires _//	27/16
Se i) HEATHER R. SCRIST Notary Public-State at Large KENTUCKY - Notary ID # 478083 My Commission Expires November 27, 201	(Notary Public)
HIS AFFIDAVIT MUST BE SU	BMITTED WITH THE BID IN ORDER TO COMPLY

BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

WITH WY CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE

Name	Initiated	Completed/Results
Harold Callihan Harold.Callihan@pomeroy.com	X	Clear
Russel Hall II Russel.HailII@pomeroy.com	Х	Clear
Joshua Budd Joshua.Budd@pomeroy.com	Х	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@pomerov.com	X	Clear
Charles Guy Charles.Guy@pomeroy.com	Х	Clear
Earl Carey Earl.Carey@pomeroy.com	X	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	Х	Clear
Justin Matney Justin.Matney@pomeroy.com	Х	Clear
Marvin Carey earl.carey2@pomeroy.com	Х	Clear
Andrew Patrick Andrew.Patrick@pomeroy.com	Х	Clear
Dale Liles Dale.Liles@pomeroy.com	x	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	Х	Clear
Gabriel Richmond Gabriel.Richmond@pomeroy.com	Х	Clear
Rvan Lacy Joseph.Lacy@pomeroy.com	Х	Clear

Concentra Medical Centers

Average Construction Employees: 25

# Employee Reference Guide

35 25 13		nd Drug-Free Work	
CORPORATI	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 Hailucinogens (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.

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# 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.

·	
Contract Identification:	
Contract Number: <u>(35)/70000000</u>	
Contract Purpose: Purchase and install of	CCTV System
Agency Requesting Work: WUDHHR - William	
Required Report Content: The attached report must include ea should check each box as an indication that the required information indicating the education and training service to 21-1D-5 was provided;  Name of the laboratory certified by the United States Department.	ch of the items listed below. The vendor tion has been included in the attached report. In the requirements of West Virginia Code § artment of Health and Human Services or its artmetion on the public improvement; 35
Vendor Contact Information:	
Vendor Name: Pomeroy Vendor Address: 1020 Pekrshura Road Hebnon, Kenhucky 41048	Vendor Telephone: <u>B59-657-2100</u> Vendor Fax: <u>1-Bus-443-2703</u> Vendor E-Mail: <u>Becky</u> Houston & Roman

# ACORD

### **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MMDD/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 POLICES BELOW. THIS CERTIFICATE OF RISURANCE DOES NOT CONSTITUTE A CONTRACT SETWEEN 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 endorsement. A statement on this certificate does not confer rights to the certificate holder in tieu of such endorsement(s).

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PRO The	buenn Hauser Group	117	Michalk		H 7/4		
828	0 Northcreek Drive, Suite 200	77.91	n. Hoth. 513-7	45-9200		513-7	45-9219
Cinc	Sinnati OH 45236		indevia@thehausergroup.com				
					HING COVERAGE		MAKS #
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	nercy IT Solutions Sales Company, Inc.		Federal: e sa				20281
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Heb	ron KY 41048		en p : Valley F				20508
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Agency UV DAHB
REQ.P.OH LUS 11 700 000000

#### GNOE CIE

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned,	Pomercy II Sciutions Sales Co., Inc.
of Hebron Kentucky	as Principal, and Fidelity & Deposit Company of Maryland
of Schaumburg , litinols , a corporation or	enized and existing under the laws of the State of
	as Surely, are held and firmly bound unto the State
of West Virginia, as Obligae, in the penal sum of Five Percent of Bid	
well and truly to be made, we jointly and severally bind ourselves, our helm, admit	
	and the second s
The Condition of the above obligation is such that whereas the Princ	icel has submitted to the Purchastro Section of the
Department of Administration a certain bid or proposal, attached hereto and made	
Contract for the purchase and installation of a closed circuit	Television System
for William R. Sharpe, Jr. Hospital and Transitional Living Fi	olity
NOW THEREFORE,	
(a) If said bid shall be relected, or	
(b) If said hid whall be recognized and the Discount about order by	a contract in accordance with the bid or proposal
situshed hereto and shall furnish any other bands and insurance required by the the agreement created by the acceptance of said bid, then this obligation shall be	old of attantial, and shall in all athan research madens
full force and effect. It is expressly understood and screed that the liability of the	: Surely for any and all claims hereunder shell, in no
event, exceed the penal amount of this obligation as herein stated.	
The Surety, for the value received, hereby slipulates and agrees that the way impaired or affected by any extension of the time within which the Obligeo waive notice of any such extension.	obligations of said Surety and its bend shall be in no may accept such bid, and said Surety does kereby
WITNESS, the following signatures and seeks of Principal and Surety, as	
Surety, or by Principal individually if Principal in an individual, this, 10th day of	August on 16
and a sale makes measured a Luncolum is an indianomic fast 10m of Al	20 TO
Principal Seat	Stren W
The state of the s	(Name of Principal)
	WIED WAR
	(Must be President, vice President, or
	Duly Authorized Agent)
	( BANGER AN OUNGER!
ya.	(Titie)
Branch - Donal	Fidelity & Deposit Company of Maryland
Surety Seal	
	(Name of Gurety)  Joseph M. Worrall
SEPORTANT - Supply systemilian boards	Attorney to Fact
IMPORTANT - Surety executing bonds must be ilcansed in West Virginia to a must attach a power of atternay with its seel affiled.	ranged surely insurance, must effic its seel, anti

#### 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 THOMIAS 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 Jennifer GERHARDT, Candice J. VOGEL, William E. CARLIN, Joseph WORRALL, Debra K. POLLINO and Julie E. CHRISMAN, sil of Cincinnati, Ordo, 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 Hy-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 FHDELITY AND DEPOSIT COMPANY OF MARYLAND, this 27th day of March, A.D. 2015.

ATTEST:

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







By Lie D. Barry

Secretary Eric D. Barnes 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 swom, deposeth and solth, that he/site is the said officer of the Company aforesaid, and that the seals offixed to the preceding instrument are the Corporate Scale of said Companies, and that the said Corporate Scale 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 Seal 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>Attorneys-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 studies 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-Laws 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 (NSURANCE COMPANY at a meeting duty 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,

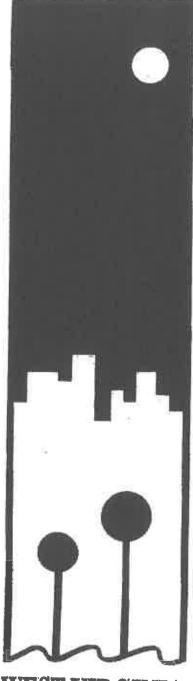
RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President. Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney 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 herepute subscribed my name and affixed the corporate scals of the said Companies,

this for day of

Geoffrey Delisio, Vice President

roffres Delicis



# WEST VIRGINIA CONTRACTOR LICENSING BOARD

# **CONTRACTOR LICENSE**

Authorized by the

West Virginia Contractor Licensing Board

Number:

WV034855

Classification:

SPECIALTY
LOW VOLTAGE SYSTEMS

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

**Date Issued** 

**Expiration Date** 

JUNE 07, 2016

Trace of Surfit.

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 licensec. 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.

WITNESS THE FOLLOWING SIGNATURE:
Vendor's Name: Pomosoy IT Solutions
Authorized Signature:
State of West Virginia
County of Kanacaha, to-wit:
Taken, subscribed, and sworn to before me this day of Soptember, 2016
My Commission expires 600 do 20 do 2
AFFIX SEAL HERE OFFICIA SEAL NOTARY PUBLIC NOTARY PUBLIC

Purchasing Affidavit (Revised 08/01/2015)

WV-96 Rev. 9/11

### 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 party.
- PAYMENT Any references to prepayment are deleted. Payment will be in arrears.
- 6. <u>INTEREST</u> 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. FISCAL YEAR FUNDING 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 agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect 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.
- 11. <u>FEES OR COSTS</u> 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.

  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 to a certain dollar amount or to the amount of the agreement is hereby deleted. 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
- 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 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 Nama Pomerry IT Solutions
Signed:	Signed: max shull
Title:	Title: Technology Solutions Executive
Date:	Date: 09-96-16

# D-Link<sup>®</sup>

### Product Highlights

### Flexible Connectivity Options

- R.16, 24 or 48 10/100 T000BASE Toyers
- Z or 4 Oscabit 5FP points
- Poř.: 1802 jatí support on seject models

#### Traffic Prioritization for Voice and Video

 Auto Surveillance VLAN (ASV) and Auto Youe VLAN ensure security and telephone systems have highest privary

#### IPv6 Support

 Fully IPv6 campatible and ready for enterprise deployment

#### Energy Efficient Technology

 IEEE 802 Sez 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

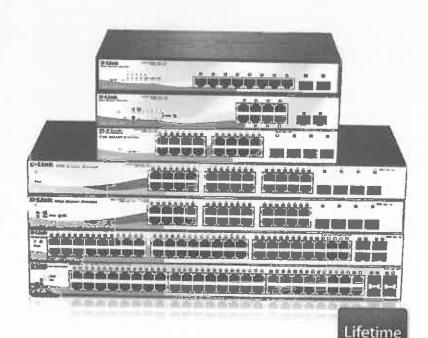
- Web GUI
- D-Link Network Assistant Utility
- Simplified CLI through Telnet
- SNMP and RMON
- IPv4/ IPv6 Dual Stack

#### 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 802.3ax 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.

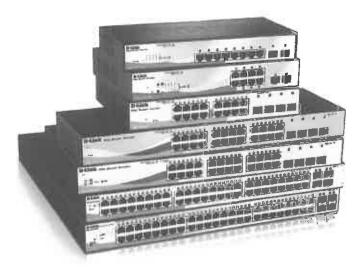


### **Energy Saving**

The DGS-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 L2 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				508 NE NIOSE
Port Standards & Functions		• IEEE 802.3u 100B • IEEE 802.3ab 1000B • IEEE 802.3x Flow Cor	OBASE-T Ethernet ASE-TX (Fast Ethernet) ASE-T (Gigabit Ethernet) htrol for Full-Duplex Mode 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
Network Cables		• UTP Cat. 5, Ca • EIA/TIA-568 100-6	at. 5e (100 m max.) ohm STP (100 m max.)	
Fuli/Half Duplex		• Full/half duplex fo • Full duplex f	or 10/100 Mbps speeds for Gigabit speed	
Media Interface Exchange		Auto or config	urable MDI/MDIX	
Performance		11-1-11	-100	Commence of the last
Switching Capacity	20 Gbps	40 Gbps	56 Gbps	104 Gbps
Transmission Method		Store-a	nd-forward	
MAC Address Table		16,000 ent	ries 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	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			E-12-1-1	
AC Input		100 to 240 VAC 50/60 Hz Int	ternal universal power supply	
Maximum Power Consumption	13.59 W	16.09 W	22.45 W	38.27 W
Standby Power Consumption	9.3 W/110 V, 9.4 W/240 V	8.59W/110V, 8.80W/240V	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 8TU/hr	54.91 BTU/hr	76.55 BTU/hr	130.58 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% 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	
Welght	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 • CE ( • ICE • VCCI • C- • B			
Safety					







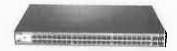


Technical Specifications	DGS-1210-10P	DGS-1210-28P	DGS-1210-52MP					
General								
Port Standards & Functions		• IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX (Fast Ethernet) • IEEE 802.3ab 1000BASE-T (Gigabit Etherne) • IEEE 802.3x Flow Control for Full-Duplex Mo • IEEE 802.3af compliance • IEEE 802.3at compliance • Auto-negotiation	t) de					
Number of Ports	• 8 10/100/1000 Mbps PoE • 2 SFP	• 48 10/100/1000 Mbps PoE • 4 SFP						
Network Cables		<ul> <li>UTP Cat. 5, Cat. 5e, Cat 6 (100 m max.)</li> <li>EIA/TIA-568 100-ohm STP (100 m max.)</li> </ul>						
Full/Half Duplex	• Full/half duplex for 10/100 Mbps speeds • Full duplex for Gigabit speed							
Media Interface Exchange		Auto or configurable MDI/MDIX	uuto 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	•	<ul> <li>Up to 256 static MAC entries</li> <li>Enable/disable auto-learning of MAC address</li> </ul>	es					
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 1 to 8: U • Ports 5 to 24: Up to 15.4 W • Ports 9 to 48: Up						
PoE Power Budget	Max. 78W	Max. 193 W	Max. 370 W					









AC Input		100 to 240 VAC 50/60Hz internal power supp	olv				
Maximum Power Consumption	103.4W (PoE on), 17.9W (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	24 W/110 V, 21.9 W/240 V	29.5 W/110 V, 27.5 W/240 V  Three smart fans				
Fan Quantity	0	Two 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	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 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)	12.74 lbs (5.78 kg)					
Diagnostic LEDs		3.1 lbs (1.41 kg)  5.60 lbs (2.54 kg)  12.74 lbs (5.78 kg)  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	•cUL •CELVD						



Software Feature		
L2 Features	MAC Address Table  16K entries  IGMP Snooping  IGMP v1/v2 Snooping  Supports 256 IGMP groups  Supports at least 64 static multicast addresses  IGMP per VLAN  Supports IGMP Snooping Querier  Loopback Detection  802.3ad Link Aggregation:  DGS-1210 28/28P: Maximum of 14 groups/8 ports per group  DGS-1210 52/52MP: Maximum of 26 groups/8 ports per group  DGS-1210-10/10P: Maximum of 5 groups/8 ports per group  LLDP  LLDP  LLDP-MED  Jumbo Frame  Up to 9,216 bytes	Spanning Tree Protocol 802.1D STP 802.1w RSTP Flow Control 802.3x Flow Control HOL Blocking Prevention Port Mirroring One-to-One Many-to-One Supports Mirroring for Tx/Rx/Both Multicast Filtering Forwards all unregistered groups Filters all unregistered groups Configurable MDI/MDIX MLD snooping v1/v2 (256 groups)
VLAN	802.1Q     VLAN Group     Max. 256 static VLAN groups     Configurable VID from 1 - 4094     Asymmetric VLAN	Auto Voice VLAN  Max, 10 user-defined OUI  Max, 8 default OUI  Auto Surveillance VLAN
QoS (Quality of Service)	802.1p Quality of Service     8 queues per port     Queue Handling     Strict     Welghted Round Robin (WRR)     Bandwidth Control     Port-based (Ingress/Egress, min granularity 10/100/1000 is 64 Kbps)	QoS based on: 802.1 p Priority Queues DSCP ToS IPv6 Traffic Class TCP/UDP port
L3 Features	IP Interface     Supports 1 Interface	• IPv6 Neighbor Discovery (ND)
Access Control List (ACL)	Max. 50 access list  Max. 768 rules shared by IPv4, MAC and IPv6  Each rule can only be associated with a single port  ACL based on  802.1p priority  VLAN  MAC address	Ether type IP address DSCP Protocol type TCP/UDP port number IPv6 Traffic Class
Security	Broadcast/Multicast/Unicast Storm Control D-Link Safeguard Engine DHCP Server Screening IP-MAC-Port Binding (Smart Binding) Supports 512 address binding entries ARP inspection ARP + IP inspection Supports DHCP Snooping 802.1X Port-based Access Control	ARP Spoofing Prevention  Max. 64 entries  Traffic Segmentation  SSH v2  SSL  Supports v1/v2/v3  Port Security  Supports up to 64 MAC addresses per port  Duplicate address detection
NAA	802.1X Authentication     Supports local/RADIUS database     Supports port-based access control     Supports EAP, OTP, TLS, TTLS, PEAP	IPv6 RADIUS Server     Support MD5 authentication



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 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	n en
Warranty	Limited Lifetime'
Ordering Informatio	
Part Number	Description
DGS-1210-10	10-Port Gigabit Web Smart Switch Including 2 Gigabit SFP ports
DGS-1210-10P	10-Port Glgabit Web Smart PoE+ Switch including 2 Glgabit 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 Gigabit SFP ports
DGS-1210-52MP	52-Port Gigabit Web Smart PoE+ Switch Including 4 Gigabit SFP ports
Optional SFP Transcie	evers:
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 Transcelver 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)

<sup>&</sup>lt;sup>1</sup> 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

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#### 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 Specifi	ications
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	rds
IEEE	802.3u 100BASE-FX
Emissions	FCC Class B, CE, ICES-003, VCCI
Safety	FDA/CDRH, TUV, UL, RoHS
Physical & Environmental	
Dimensions (L x W x H)	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 competible switches including the DES-1228, DES-1228P, DES-3252P, DES-3228PA, DES-1252, and DGS-3612G. Please visit supported in an updated list of competible D-Link devices.

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



### **Key Features**

- Up to 3 megapixel (2048 x 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						
Camera							
Image Sensor	1/3" Progressive Scan CMOS						
Min. Illumination	0.07Lux @ (F1.2, AGC ON) ,0 Lux with IR						
THE TOTAL COLUMN TO THE TO	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)						
Letts	Angle of view: 98.5°(2.8mm), 79°(4mm), 49°(6mm)						

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VI DI UI V							
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°						
To a state of the							
Video Compression	H.264/ MJPEG						
H.264 Type	Main Profile						
Video Bit Rate	32 Kbps – 12 Mbps						
Dual Stream	Yes						
Audio	C 744   C 700 4   C 700   L C 700   C						
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)						
Max. Resolution	2048 × 1536						
Frame Rate	50Hz: 20fps(2048 × 1536), 25fps(1920 × 1080), 25fps (1280 × 720)						
riallie Nate	60Hz: 20fps(2048 × 1536), 30fps(1920 × 1080), 30fps (1280 × 720)						
Image Settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client						
midec dettiliga	software or web browser						
Backlight	V						
compensation	Yes, zone optional						
ROI	Support						
Network							
Network Storage	Local storage: Built-in Micro SD/SDHC/SDXC card slot, up to 128 GB.  NAS (Support NFS,SMB/CIFS)						
Alarm Trigger	Intrusion detection, Line crossing detection, Motion detection, Dynamic Analysis, Tampering alarm, Network disconnect, IP address conflict,						
	Storage full, Storage error						
	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,						
Protocols							
Security	TYPOEINTP.UPDP.SWIP.SNMP IGMP 802 19 000 1006 2001000						
o dodnity	PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour User Authentication, Watermark						
Standard	User Authentication, Watermark						
Standard	User Authentication, Watermark ONVIF, PSIA, CGI, ISAPI						
Standard Interpress Communication	User Authentication, Watermark						
	User Authentication, Watermark ONVIF, PSIA, CGI, ISAPI						
Standard  Apteriace Communication Interface Alarm interface Audio interface	User Authentication, Watermark  ONVIF, PSIA, CGI, ISAPI  1 RJ45 10M/100M Ethernet interface  -S: 1 alarm I/O  -S: 1 audio I/O						
Standard  Apteriace Communication Interface Alarm interface Audio interface	User Authentication, Watermark  ONVIF, PSIA, CGI, ISAPI  1 RJ45 10M/100M Ethernet interface  -S: 1 alarm I/O  -S: 1 audio I/O						
Standard  Apteriace Communication Interface Alarm interface Audio interface	User Authentication, Watermark ONVIF, PSIA, CGI, ISAPI  1 RJ45 10M/100M Ethernet interface -S: 1 alarm I/O						

**HIKVISION** 

V B and B Co I d								
Channel Bandwidth	20/40MHz Support							
Protocols	802.11b: CCK, QPSK, BPSK							
1100003	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							
1 0 10 0 1	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							
Genera								
Operating Conditions	-30 °C - 60 °C (-22 °F - 140 °F)							
operating conditions	Humidity 95% or less (non-condensing)							
Power Supply	12 V DC ± 10%							
	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)							
k # \A# AAF FI	long set to the set of							

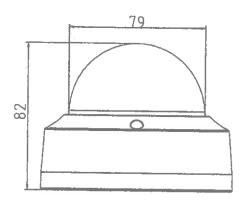
<sup>\* &</sup>quot;-W" series support Wi-Fi (802.11b/g/n) and the modules with Wi-Fi function don't support the 802.1X protocol.

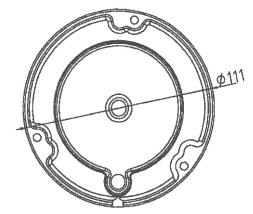
### **Order Models**

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

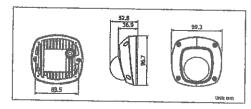




#### **Key features**

- 1.3MP / 3MP high resolution
- HD real-time video
- -l: 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 (O

	DS-20D2512F-(S)	DS-2CD2532F-I(S)
Carnera		
Image sensor	1/3" progressive scan CMOS	
Min. Illumination	0.01 lux @F1.2, AGC ON, 0 lux with tR	0.07 lux @F1.2, AGC ON, 0 lux with IR
Shutter time	1/25s - 1/100,000s	and the cold the state of the s
and the second of the second o	4mm@ F2.0 (2.8mm, 6mm optional)	4mm@ F2.0 (2.8mm, 6mm optional)
	The second secon	2048 × 1536:
Lens	Angle of view: 92.5°(2.8mm), 73.1°(4mm), 46°(6mm)	Angle of view: 86°(4mm), 70°(4mm), 43.3°(6mm) 1920 × 1080: Angle of view: 98.5°(4mm), 79°(4mm), 49°(6mm)
Lens mount	M12	traille or store and faithful to faithful 42 fellill
Day & night	-l: IR cut filter with auto switch	and the section of th
Adjustment angle	Pan: -30°-30°, Tilt: 0-75°, Rotation: 0-360°	de la compania del compania de la compania del compania de la compania del compania
Digital noise reduction	3D DNR	THE RESIDENCE WHEN AND ADDRESS OF THE PARTY
Wide dynamic range	Digital WDR	hadronian non-measurement and a consequence of the contract of
Backlight compensation	A CONTRACT OF A	and the control of the second
Compression Standard	1 and marries and trigger and	
Video compression	H.264/MJPEG	
H.264 codec profile	Main profile	deligned in the second
Bit rate	32 Kbps - 16 Mbps	a to their comments of the subdivision or make the subdivision of the
Audio compression(-s)	G.711/3.726MP2L2	
Audio bit rate(-s)	64Kbps(G.711) / 16Kbps(G.728) / 32-128Kbps(MF	BALAK
Image	[04/04/9/01/11])   torrobol(01/20]   35-150/mbs(W)	2(2)
Max. Image Resolution	1280 × 960	lance area
surement resistant surements of the surement o	50 Hz: 25 fps (1280 × 960), 25 fps (1280 x 720), 25	2048 × 1536
Frame rate	lps (704 x 576),   25 fps (640 x 480)   60 Hz; 30 fps (1280 x 960), 30 fps (1280 x 720), 31 fps (704 x 576),   30 fps (640 x 480)	50Hz: 20fps (2048 x 1536), 25fps (1920 x 1080), 25fps (1280 x 720)
lmage settings	Rotate mode, Saturation, brightness, contrast, shar browser	paness adjustable through client software or web
ROI	Yes, up to 4 configurable areas	man of the second of the secon
Network		
Network storage	Local storage: Built-in Micro SD/SDHC/SDXC card NAS	slot, up to 64 GB.
Alarm trigger	Motion detection, tampering alarm, network discon- error	nect, IP address conflict, storage exception, storage
Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDN PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802,1X,Qc	IS,RTP,RTSP,RTCP, S,IPv6,Boniour
Protocols System compatibility	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDN PPPGE,NTP,UPnP,SMTP,SNMP,IGMP,802,1X,Qu ONVIF, PSIA, CGI, ISAPI	IS,RTP,RTSP,RTCP, IS,IPv6,Bonjour
System compatibility General functionalities	PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802,1X,Qc ONVIF, PSIA, CGI, ISAPI	S,IPv6,Bonjour
System compatibility	PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802,1X,Qc	S,IPv6,Bonjour
System compatibility General functionalities Interface Communication Interface	PPPOE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,On ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user aut 1 RJ45 10M / 100M ethernet port	S,IPv6,Sonjour thentication, video mask, watermark
System compatibility General functionalities Interface Communication	PPPOE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,On ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user aut 1 RJ45 10M / 100M ethernet port	S,IPv6,Sonjour thentication, video mask, watermark
System compatibility General functionalities Interface Communication Interface	PPPOE,NTP,UPnP,SMTP,SMMP,IGMP,802.1X,Qc ONVIF, PSIA, CGI, ISAPI Filckerless, dual stream, heartbeat, mirror, user aut	S,IPv6,Sonjour thentication, video mask, watermark
System compatibility Deneral functionalities Interface Communication Interface On-board storage Narm Interface	PPPOE,NTP, UPnP, SMTP, SMMP, IGMP, 802.1X, Ox ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user aut 1 RJ45 10M / 100M ethernet port Built-in Micro SD/SDHC/SDXC card slot, up to 64 6	S,IPv6,Sonjour thentication, video mask, watermark
System compatibility Ceneral functionalities Interface Communication Interface Ch-board storage Varm Interface	PPPOE,NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, Oz. ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user auti 1 RJ45 10M / 100M ethernet port Bull-in Micro SD/SDHC/SDXC card slot, up to 64 6 -S: 1/1 alarm I/O	S,IPv6,Sonjour Thentication, video mask, watermark
System compatibility Deneral functionalities Interface Communication Interface On-board storage Marm Interface Denerall Operating conditions	PPPOE,NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, Ox ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user auti 1 RJ45 10M / 100M ethernet port Built-in Micro SD/SDHC/SDXC card slot, up to 64 6 -S: 1/1 alarm I/O -30 °C ~ 60 °C (-22°F ~ 140 °F) humidity 95% or la	S,IPv6,Sonjour Thentication, video mask, watermark
System compatibility Ceneral functionalities Interface Communication Interface On-board storage Warm Interface Ceneral Operating conditions Cower supply	PPPOE,NTP,UPnP,SMTP,SMMP,IGMP,802.1X,Qc ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user auti 1 RJ45 10M / 100M ethernet port Built-in Micro SD/SDHC/SDXC card slot, up to 64 6 -S: 1/1 alarm I/O -30 °C ~ 60 °C (-22°F ~ 140 °F) humidity 95% or in 12 VDC ± 10%, PoE (802.3at)	S,IPv6,Sonjour Thentication, video mask, watermark
System compatibility Jeneral functionafiles Interface Communication Interface On-board storage Marm Interface Reneral Operating conditions Cower supply Cower consumption	PPPOE,NTP,UPnP,SMTP,SMMP,IGMP,802.1X,Ox ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user aut 1 RJ45 10M / 100M ethernet port Built-in Micro SD/SDHC/SDXC card slot, up to 64 6 -S: 1/1 alarm I/O -30 °C ~ 60 °C (-22°F ~ 140 °F) humidity 95% or in 12 VDC ± 10%, PoE (802.3af) Max. 5VV	S,IPv6,Sonjour Thentication, video mask, watermark
System compatibility General functionalities Interface Communication Interface On-board storage Narm Interface General Operating conditions Ower supply Cower consumption Potect levet	PPPGE,NTP,UPnP,SMTP,SMNP,IGMP,802.1X,Oc ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user aut 1 RJ45 10M / 100M ethernet port Built-in Micro SD/SDHC/SDXC card slot, up to 64 6 -S: 1/1 alarm I/O -30 °C - 80 °C (-22°F - 140 °F) humidity 95% or le 12 VDC ± 10%, PoE (802.3af) Max. 5W	S,IPv6,Sonjour Thentication, video mask, watermark
System compatibility General functionafiles Interface Communication Interface On-board storage Narm interface General Operating conditions Cower consumption Protect level Impact Protection	PPPOE,NTP, UPnP, SMTP, SMMP, ISMP, 802.1X, Ox. ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user aut  1 RJ45 10M / 100M ethernet port  Built-in Micro SD/SDHC/SDXC card slot, up to 64 6 -S: 1/1 alarm I/O  -30 °C - 60 °C (-22°F - 140 °F) humidity 95% or le  12 VDC ± 10%, PoE (802.3af)  Max. 5W  IP68  IEC60088-275Eh, 50J; EN50102, up to IK68	S,IPv6,Sonjour Thentication, video mask, watermark
System compatibility General functionalities Interface Communication Interface On-board storage Narm Interface General Operating conditions Ower supply Cower consumption Potect levet	PPPGE,NTP,UPnP,SMTP,SMNP,IGMP,802.1X,Oc ONVIF, PSIA, CGI, ISAPI Flickerless, dual stream, heartbeat, mirror, user aut 1 RJ45 10M / 100M ethernet port Built-in Micro SD/SDHC/SDXC card slot, up to 64 6 -S: 1/1 alarm I/O -30 °C - 80 °C (-22°F - 140 °F) humidity 95% or le 12 VDC ± 10%, PoE (802.3af) Max. 5W	S,IPv6,Sonjour Thentication, video mask, watermark



# DS-96000NI-F24/H Series

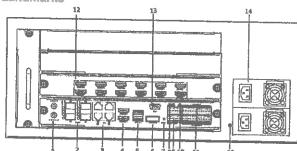
Network Video Recorder (NVR)



#### **Key Features**

- Connect Up to 128/256 IP Cameras, Linux OS
- Up to 8 Megapixels Resolution
- Simultaneous HDMl1/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 10M/100M/1000M Network and 4 1000M Optical Fiber Interfaces
- Smart Search and Playback
- HDD Quota and Group Modes

#### Landmarks



	4	2	3	4	5	-6	78	9 10	11	is	
index	Name										
1	RCA	onnec	tor for	audi	O OU	poruț	and	outh	hist		
2	4 Fibe	ar Optid	Inter	aces		40.00	4114	oung			
3	4 LAN	l netwo	ork inte	rface	es.						
4	2 HDN	II vide	o outo	ut co	กกล	ctor	9				
5 6	USBS	3.0 Inte	rfaces	ì							
6	miniS.	AS Inte	rface	(ootle	วกสไ						
7	Reset	the de	wice.	(-pa	140	'					
8		5 Inte									
	RS-23	2 Inte	face								
10		oller Po									
11	ALARI	M IN a	nd AL	ARM	OU	r					
12	HDMI	Outpu	t Exte	nsion	Вое	ırd					
13	VGA I	nterfac	0								
14	100 to	240 V	AC Po	wer	lnou	t (D	ual	Powe	er Supp	dies)	
15	GND				- Partie	- 1-					
						_	-	_	_		

#### Order Models

DS-96128NI-F24/H DS-96256NJ-F24/H

	05:95128NF528H	3550500005000
Wdoo/Audio Input	the little	
IP Video Input	1 128-ch Up to 8 MP resolution	256-ch
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 k	(Ω)
Incoming Bandwidth	400 Mbps	640 Mbps, or 400 Mbps (when RAID is enabled)
Outgoing Bandwidth Remote Connection	400 Mbps 256	400 Mops
Video/Audio Output	200	
Lichester Carbon		
Recording Resolution	2CIF/CIF/QCIF	1080p/UXGA/720p/VGA/4CIF/DCIF/
HDMf1/VGA Output	1-ch, 1920 × 1080p, 16	00 × 1200, 1280 × 1024, 1280 × 720,
Resolution	1024 × 768	
HÖMI2 Output	1-ch, 1920 × 1080p, 16 1024 × 768	90 × 1200, 1280 × 1024, 1280 × 720,
HDMI Outputs (On HDMI	12-ch 1920 - 1090s 10	800 × 1200, 1280 × 1024, 1280 ×
Output Extension Board)	720, 1024 × 768	000 × 1200, 1200 × 1024, 1260 ×
LCD Screen	Yes	make a filtra or plant of the town coupling
Audio Output		in a second
	1-ch, RCA (2.0 Vp-p, 1 K	. Ω)
Decoding	Animan .	
Live View/Playback Resolution	8 MP/6 MP/5 MP/3MP/1080p/UXGA/720P/VGA/4CIF/DCIF/ 2CIF/CIF/QCIF	
Synchronous Playback	16-ch	
Capability	44-ch @ 1080p	
Hard Disk		• 9
SATA	24 SATAInterfaces for 24	Unna
MiniSAS (Optional)	1 miniSAS interface	
Capacity	I miliono mienace	
Clar Array	Up to 6 TB capacity for e	gáu HDD
LUMB WITHY		
Array Type	RAID 0, RAID 1, RAID 5,	RAID 10
Number of Arrays	24	
External interlace		
Network Interface	4. RJ-45 10 /100 /1000 M	lbps self-adaptive Ethernet interface
Optic Fiber Interface	4, 1000 Mbps optic liber!	ujodavo
Serial Interface	RS-232; RS-485; keyboard	
USB Interface	Front panel: 1 x USB 2.0; rear panel: 2 x USB 3.0	
Alarm In/Out	16/8	
General	10/0	
Power Supply	Jans, Die Line St.	
More Breeze Community	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%	
Chassia	19-Inch rack-mounted 4U chassis	
Dimensions (W x D x H)	447 mm × 528 mm × 172 mm (17.6" × 20.8" × 6.8")	
Weight (w/o Hard Disk) ≤ 28.1 kg (61.9 lbs)		usufive x 50'9. x 9'9.)
in San in Train in in Diger	> co   vA (01.9 (02)	

NOTE: To calculate the incoming bandwidth and the connected IP cameras:

#### A = B/(C+D)

- A = Number of IP cameras that can be connected B = Incoming bandwidth C = Connected IP cameras' main stream bitrate value D = Connected IP cameras' sub-stream bitrate value

#### EXAMPLE:

DS-96128NI-F24 NVR incoming bendwidth 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 = B/(G+D) = 400/(4+1) = 80. So, the number of IP cameras that can be connected is 80.