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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

PSH90063

PAGE 1

ADDRESS CORRESPONDENCE TO ATTENTION OF

ROBERTA WAGNER 804-558-0067

SH P TO HEALTH AND HUMAN RESOURCES PINECREST HOSPITAL 105 SOUTH EISENHOWER DRIVE

BECKLEY, WV 25801

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INQUIRIES: WRITTEN QUESTIONS SHALL BE ACCEPTED THE BUSINESS ON 12/18/2008 QUESTIONS OF THE USPS, FAX, COURIER OR E-MAIL IN ORDER VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO QUESTIONS WILL BE ANSWERED ORALLY IF TO QUESTIONS ARE PREFERRED ADDRESS INQUIRES	MAY BE SENT VIA TO ASSURE NO O SUBSTANTIVE POSSIBLE, E-MAIL
ROBERTA WAGNER DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25311	RECEIVED 2009 JAN 15 AM 10: 00
FAX: 304-558-4112 E-MAIL: ROBERTA A WAGNER@WV.GOV	WV PURCHASING DIVISION
SEE REVERSE SIDE FOR TERMS AND CONTINUE ITSTEPHONE	
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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division.
- 4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee
- 5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
- 6. Payment may only be made after the delivery and acceptance of goods or services.
- 7. Interest may be paid for late payment in accordance with the West Virginia Code
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code
- 9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract
- 12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties
- 13. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
- 14. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 15. WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT: If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division
- 2. SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications
- 3. Complete all sections of the quotation form.
- 4. Unit prices shall prevail in case of discrepancy.
- 5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 6. BID SUBMISSION: All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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Purchasing Division
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Bid Schedule / Cost Proposal

	k services, inc. Customer Name	Pinecrest Hospital					
ine#	Description	Part#	QTY	Unit Cost	Extended Cost		
1	DVR, 1 TB, 16 Channel, CD/DVD/RW	DRS6016-1.0TB	5	\$1,987.50	\$9,937.50		
	Client Software	Included w/ DVR	5	\$0.00	\$0.00		
2	Vandalproof Dome, 1/3" CCD, HR D/N 3-12mm VFA	MGDS4CW-5B-V2A	53	\$309.79	\$16,418.87		
3	Environmental Tube Housing w/ SS Htr-Blwr D/N cam	SS03-C4520V5A	10	\$428.25	\$4,282.50		
4		MPS24A8-20	10	\$ 169.69	\$1,696.90		
5	Power Supply 24VAC 8 output 20amp 120VAC	HM2100	10	\$30.00	\$300.00		
6	Wall Mount - ETH15	400A305P01	10	\$7.50	\$75.00		
7	Cam Lock for Master Power Supply	SUA1000RM2U	4	\$708.13	\$2,832.5		
8	APC UPS	1 Job	1	\$9,225.77	\$9,225.7		
9	Installation Materials	1 Job	1	\$51,840.86	\$51,840.8		
10	Installation Services	Grand Total			\$96,609.9		



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VENDOR RODKE

RFQ COPY

TYPE NAME/ADDRESS HERE

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 55130 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER PSH90063 11

ADDRESS CORRESPONDENCE TO ATTENTION OF

ROBERTA WAGNER 304-558-0067

HEALTH AND HUMAN RESOURCES PINECREST HOSPITAL

105 SOUTH EISENHOWER DRIVE ō 25801

BECKLEY, WV

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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: 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 the debt owed is an amount greater than one thousand dollars in the aggregate

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud | further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated

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Vendor's Name: UACHTEL	Detwork	Sarvaces,	-tox.	
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Authorized Signature:	TVEGY_	Date:	01/12/09	
	7 / /			
Purchasing Affidavit (Revised 07/01/08)				

	Agency46 REQ P O# PSH90063
BID BOND	
	Weston Metwork Sorvices, Inc.
KNOW ALL MEN BY THESE PRESENTS, That we, the undersign Kansas of Lenexa Kansas of Sioux Falls South Dakota, a corporation of Sioux Falls	ed,wachter Network Services, zhou
of South Dakotd	an expanized and existing under the laws of the State of
SD with its principal office in the City of Sioux Falls SD Sioux Falls South Edward Amount	as Surety, are held and firmly bound unto the State
SD with its principal office in the City of Sioux Falls of West Virginia, as Obligee, in the penal sum of Five Percent Amount	Bid #5% Amt. Bid) for the payment of which,
of West Virginia, as Obligee, in the penal sum of Five Percent Amount	administrators, executors, successors and assigns
of West Virginia, as Obligee, in the penal sum of Five Fer centermines.com well and truly to be made, we jointly and severally bind ourselves, our heirs	o administratory and the
The Condition of the above obligation is such that whereas the Proposal attached hereto an Digital Video Recorders, Pinecrest Hospital	incipal has submitted to the Purchasing Section of the d made a part hereof, to enter into a contract in writing for
NOW THEREFORE, (a) If said bid shall be rejected, or (b) If said bid shall be accepted and the Principal shall enter into hereto and shall furnish any other bonds and insurance required by the bid agreement created by the acceptance of said bid, then this obligation shall force and effect. It is expressly understood and agreed that the liability of exceed the penal amount of this obligation as herein stated. The Surety, for the value received, hereby stipulates and agrees way impaired or affected by any extension of the time within which the Ot waive notice of any such extension.	il be null and void, otherwise this obligation will and void, otherwise this burgular shall, in no event, if the Surety for any and all claims hereunder shall, in no event, is that the obligations of said Surety and its bond shall be in no bligee may accept such bid, and said Surety does hereby
10. who have harounted S	et their hands and seals, and such of them as are corporations
IN WITNESS WHEREOF, Principal and Surety have hereanto shave caused their corporate seals to be affixed hereunto and these presentations of the seals are the seals to be affixed hereunto and these presentations.	ents to be signed by their proper officers, this
15th day of January, 20 09	
13th day of	Wachter Network Services, Inc.
and the second second	(Name/of Principal)
Principal Corporate Seal	
	(Must be President or
	Vice President)
·	1/ P
	(Title)
	Western Surety Company
Surety Corporate Seal	(Name of Surety)
	T B XOut
	Attorney-in-Fact
Surety Telephone: (605) 336-0850	2 1 Ccarborollyll
Surety Telephone: (605) 336-0850 IMPORTANT - Surety executing bonds must be licensed in West V must be affixed, a power of attorney must be attached.	/irginia to transact surety insurance. Raisou our state

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

David M. Lockton, Debra J. Scarborough, Mary T. Flanigan, Christy M. McCart, Clifford B. Young, Kathy L. Fagan, Laura E. Coon, Jeffrey C. Carey, Adam J. Cantu, Charles R. Teter III, Mark Duggan, Nancy A. Clover, Laura M. Murren, Melissa D. Evans, Ronald J. Lockton, Patrick T. Pribyl, Claudia Mandato, Individually

of Kansas City, MO, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Senior Vice President and its corporate seal to be hereto affixed on this 16th day of December, 2008

WESTERN SURETY COMPANY



State of South Dakota County of Minnehaha

On this 16th day of December, 2008, before me personally came Paul I Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Senior Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation

My commission expires

November 30, 2012



CERTIFICATE

COMPANY do bereby certify that the Power of Attorney hereinabove set forth is sti	ill in
I, L. Nelson, Assistant Secretary of WESIERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is sti	ribed
1, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do never the still in force. In testimony whereof I have hereunto subscriptore, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscriptore, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscriptore, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force.	
my name and affixed the seal of the said corporation this day of JAN 1 5 2009,	
ny mana	T 3 7



WESTERN SURETY COMPANY

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WACHTER NETWORK SERVICES: KEY ADVANTAGES	4
STATEMENT OF WORK	4
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CUSTOMER AUTHORIZATION/SIGNATURE PAGE PROJECT CHANGE REQUEST & AUTHORIZATION FORM ATTACHMENT A – SITE PLANS	7 8 9

Implementing TechnologyBuilding Trust

Executive Summary

Wachter Network Services: Key Advantages

Thank you for your consideration of Wachter's Proposal for the Pinecrest Hospital Health and Human Services Bid PSH90063 - Video Security System / Analog...

The Request for Proposal (RFP), as provided by Pinecrest Hospital Health and Human Services contains a listing of the tasks to be performed. The RFP was used determine labor, work schedules and pricing. We trust that this document demonstrates a thorough understanding of Pinecrest Hospital Health and Human Services project objectives, and that the services we have proposed will achieve those objectives at a cost effective price.

In addition to price, there are several other factors that we would encourage Pinecrest Hospital Health and Human Services to consider as part of the decision-making process. We believe these factors will help to differentiate Wachter from other companies who may also be providing a proposal for this project.

The Project Manager and single point of contact for this project will be Rick Johnson. Wachter Network Services will utilize Wachter factory trained personnel to perform the installation and certification of the system. Wachter utilizes its own W-2 Employed technicians for all project work.

Wachter has a proven track record in the installation and final deployment of Enterprise Security Systems including Analog Video Solutions, IP Video Solutions and Access Control / Perimeter Security Wachter also has a proven track record in the installation and deployment of Voice & Data solutions, Fiber Optic transmission, Outside Plant construction and Electrical divisions.

Wachter will ensure that all installation work is completed in accordance with industry codes and standards. Wachter employs dedicated Quality Assurance technicians who conduct random quality audits of work performed by our Quality Assurance technicians. Once awarded, this project will be staffed with a Lead Technician assisted by installation technicians

All Wachter personnel will follow stringent safety practices while working on the project site.

Wachter has been in business since 1930, and remains a private family-owned corporation today. The values which provided the foundation for our growth and success during the past 77 years remain an integral part of our culture in 2008 We believe that Pinecrest Hospital Health and Human Services will experience a notable difference in the knowledge, experience and professionalism of the Wachter project team.

Please don't hesitate to call if you have any questions regarding this proposal, or Wachter's capabilities. We highly value the relationship we have with Pinecrest Hospital Health and Human Services and strive to provide continuous superior quality on the projects you entrust us with.

Sincerely,

Rick Johnson Operations Manager (901) 489-1268

Statement of Work

Summary of the Project

The pricing and SOW for this project were derived from the RFP provided by Pinecrest Hospital Health and Human Services. This will be a full Turnkey solution to include full product training upon completion.

Wachter Statement of Work

- WNS shall provide all materials as outlined in the RFP 1.
- WNS shall install all conduits as required
- WNS shall install all cabling as specified to achieve final integration 3.
- WNS shall install all data cabinets required to house the Video Recording solution in each of the four buildings.
- WNS shall hang and focus all cameras to achieve the desired ¹FOV as outlined in the pre-installation meeting.
- WNS shall provide System Administrator and End-User training
- WNS shall provide Tech Support after the sale
 - 24hr Call Center, NW Arkansas
 - Local Service technician to meet service response times

Customer Responsibilities

- Customer shall provide all Network switches for network integration.
- Customer shall provide all Network programming for a segregated platform.
- Customer shall provide adequate power for connection of CCTV equipment associated with this project. 120VAC / 20amp / Quad receptacle
 - Customer shall allow unencumbered access to the facility based on a pre-determined installation schedule.
- Customer shall provide all IP addressing requirements prior to the installation date. 4
- Customer shall provide a single point of contact for the duration of the project. 6.
- Customer shall attend the Pre-Installation meeting to determine the final FOV of the cameras.
- Customer shall appoint a System Administrator for ongoing support of the system.

Wachter Project Management Responsibilities

- WNS shall provide all project management resources
 - i Staffing requirements and installation schedule
- WNS shall provide all equipment scheduling.
- WNS shall provide all account reconciliation to include ongoing maintenance.

Key Assumptions

- All materials shall be new and carry a full manufacturer's warranty.
- Pricing is for services provided in the continental United States only

¹ Field Of View

Project Communications - Escalations

The Wachter Project Team will be comprised of the following individuals:

- Project Manager: Rick Johnson / 901 489 1268 / Rick Johnson@Wachter.com
- Operations Manager: Rick Johnson / 901.489.1268 / Rick Johnson @ Wachter.com

All project issues should be addressed first with the Project Manager and Operations Manager. Any unresolved or unsatisfactory project issues should be escalated to:

- Director of Security Integrations Marvin Hill / 901.377.0485 / Marvin Hill@Wachter com
- COO Mike Reedy / 913.208.0385 / mreedy@wachter.com

Quality Management

Quality Planning: The following project quality standards will be assessed and measured throughout the duration of this project:

- SOW deliverables: Per contract
- Schedule commitments: Per schedule
- Applicable Standards, Regulations and Codes

Quality Assurance /Quality Control: Wachter will deliver the QA/QC process through the following specific actions:

- Conduct random quality and safety audits
- Manage technician performance / professionalism issues in a timely manner
- Solicit Customer feedback

Warranty Statement

Wachter Network Services warrants all labor services and materials to be free of workmanship defects for a period of 12 months from the date that the work is performed During this 12-month period, Wachter Network Services will promptly repair, at no cost to the customer, any defects that are a direct result of labor workmanship.

Wachter Network Services will provide support via the NW Arkansas 24 hour central Call Center coupled with local Wachter Field Technicians

Change Control

Any services that are not expressly defined in the Statement of Work as Wachter Responsibilities are specifically excluded from this Statement of Work, unless added via the Project Change Control process

A Project Change Request (PCR) will be used to document any deviation to the original Scope of Work. Pinecrest Hospital Health and Human Services acknowledges that Wachter will not proceed with changes (+ or -) until the

The terms of a mutually agreed upon Change Authorization will prevail over those of this Statement of Work or any previous Change Authorization.

Project Pricing and Fees

The following is a Bill of Materials to be provided on this project.

		Part #	QTY
Line#	Description	DRS6016-1.0TB	5
1	DVR, 1 TB, 16 Channel, CD/DVD/RW	MGDS4CW-5B-V2A	53
2	Vandalproof Dome, 1/3" CCD, HR D/N 3-12mm VFA	SS03-C4520V5A	10
3	Engineermental Tube Housing W/ SS Hir-Biwi D/14 cam	MPS24A 8-20	10
4	Power Supply 24VAC 8 output 20amp 120VAC	HM2100	10
5	Wall Mount - ETH15	400A 305P01	10
6	Cam Lock for Master Power Supply	SUA 1000RM2U	4
$\frac{3}{7}$	APC UPS	3/4 EMT	10
8	3/4" EMT Conduit per 100	1-EMT	1
9	1" EMT Conduit per 100	TK112A	1
10	3/4" Compression Coupling per 100	TC112A	1
11	3/4" Compression Fitting per 100	TS 902	2
$\frac{11}{12}$	3/4" EMT Conduit Straps per 100	TS903	1
13	1" EMT Conduit Straps per 25	EMT100	1
14	1" Vinyl Insert per 100	E19FWM20U20	4
15	19" Wall Mount Relay rack 36"	WNS Consumable	4
16	Consumable Hardware 1-per building	RG59-1P18-CM-BK	26
17	RG59U - PVC- Siamese 18/2 - 1000' spool	GBNC60-O	200
	2 Piece BNC Crimp Connector	SSS100	12
18	Fire Caulk		1 1
19	SiteTrailer	N/A WENGETALL	1 1
$\frac{20}{21}$	Installation Services	WNSINSTALL	

I otal cost for all phases of the installation is \$96,609.92 which includes,

- 1. Project Management
- 2. Installation Services
- 3. Training
- 4 Final System Acceptance

As outlined in the original RFP, upon successful completion of the project, a single invoice in the amount of \$96,609 92 will be issued to Pinecrest Hospital Health and Human Services

Customer Authorization/Signature Page

By signing and returning this page, Pinecrest Hospital Health and Human Services authorizes Wachter Network Services to order, schedule, and commit the labor and management resources necessary to perform the Statement of Work for the Bid PSH90063 Video Security System / Analog which totals \$96,609.92.

Wachter Network Services		Pinecrest Hospital Health and Human Services	
Date:	By:	Date:	
	Printed Name:		
Printed Name: Marvin Hill Title:		Title:	
		Date: By: Printed Name: Title:	

Project Change Request & Authorization Form

WACHTER network services, Inc.

Customer	
Wachter Job #	
Date Submitted	

network services, Inc.		
	Change #	
Project Name	Customer PO#	
Site Information	Wachter PM	
Customer Contact		
Name of Change:		
Reason for Change:		

Details of Requested Change

Details of Requested Change			
Details of treat.		Unit Price	Extended Price
	Part Number	Unit Frice	
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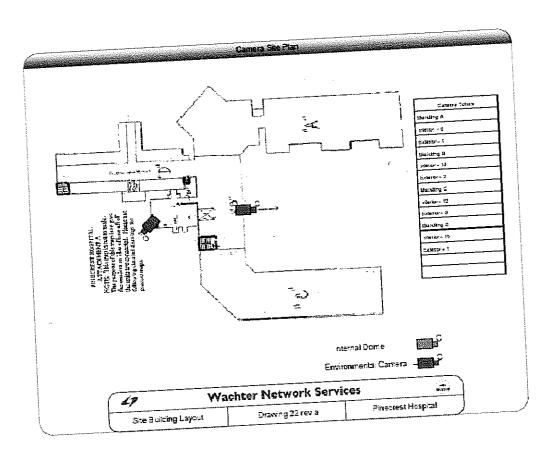
Total \$

Payment Terms Follow Original Contract Terms

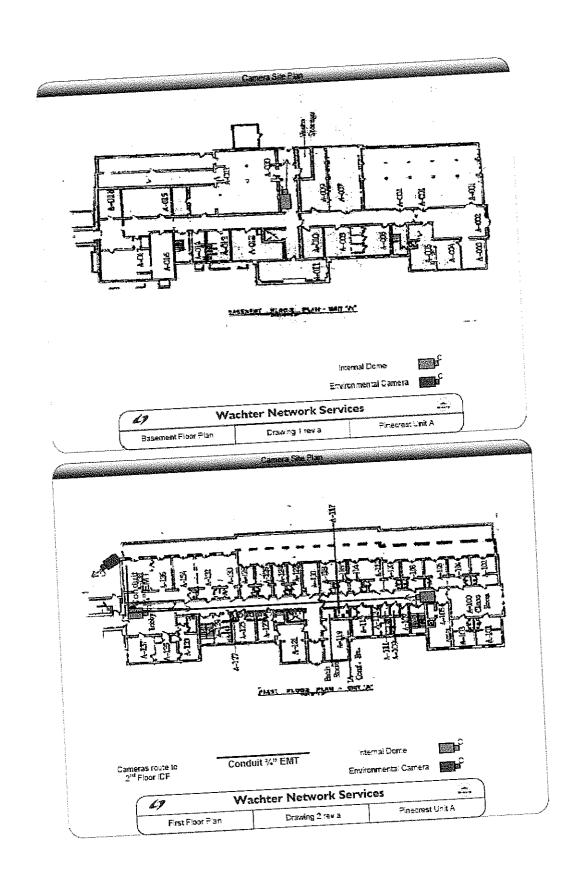
By signing below, both parties agree to the content and total charges of this project change request. Materials and equipment will not be ordered or labor expended until this request is approved by both parties. Change Approval

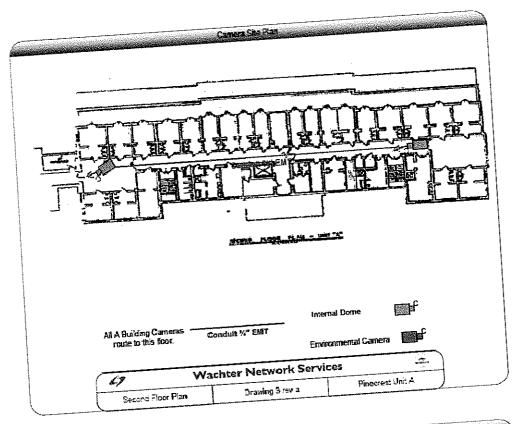
By signing below, both parties agree to be and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and equipment will not be ordered or labor expended until this request is approved by some and the source of the source		
and equipment will not be ordered structure:	Wachter Network Services Signature:	
Customer Acceptance Signature:		
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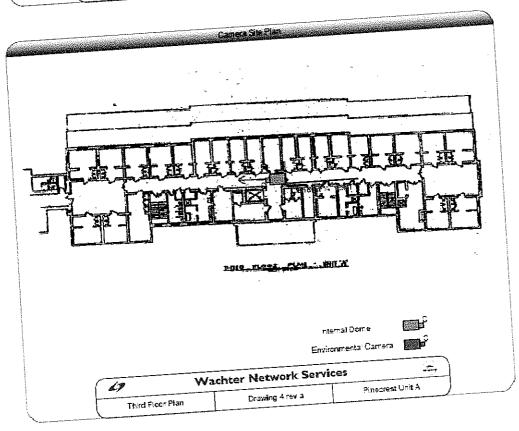
Attachment A – Site Plans

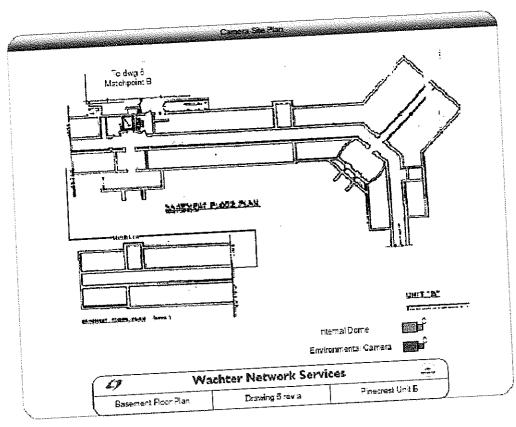


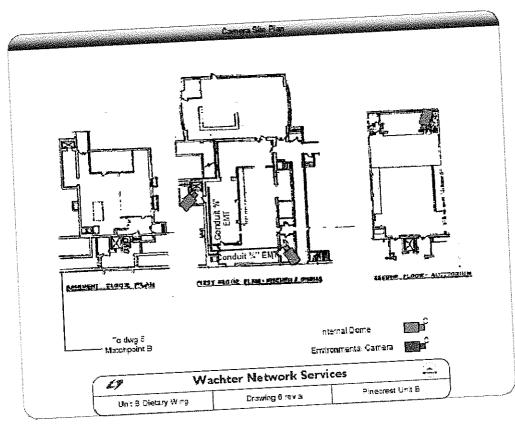
Overall Building Layout.

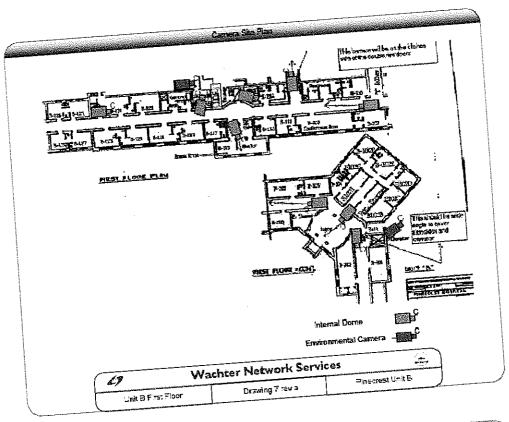


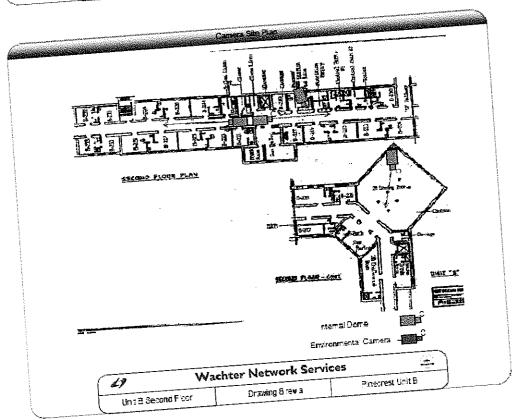


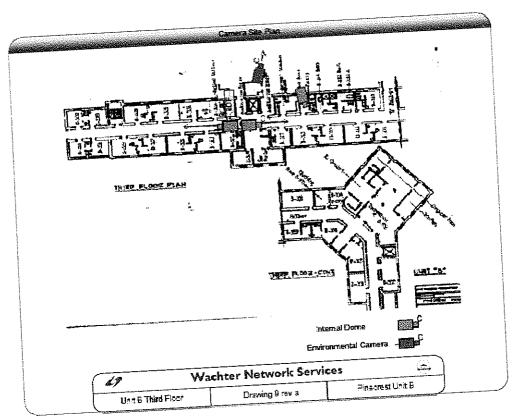


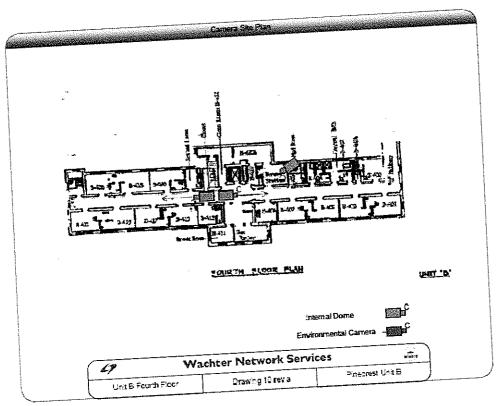


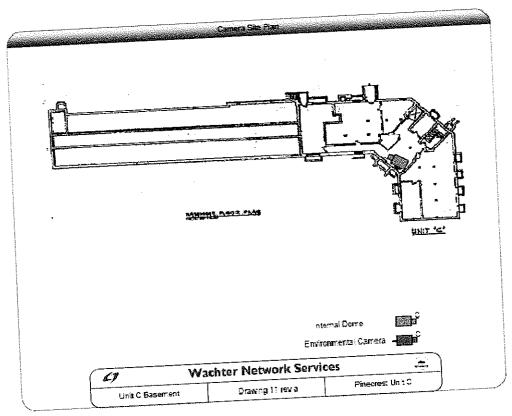


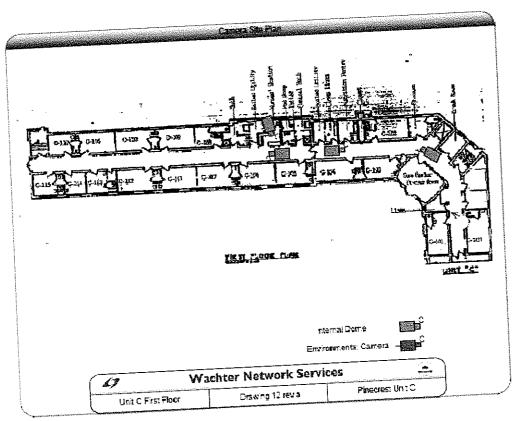


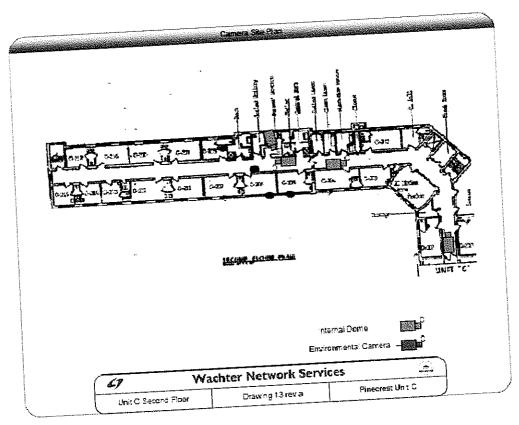


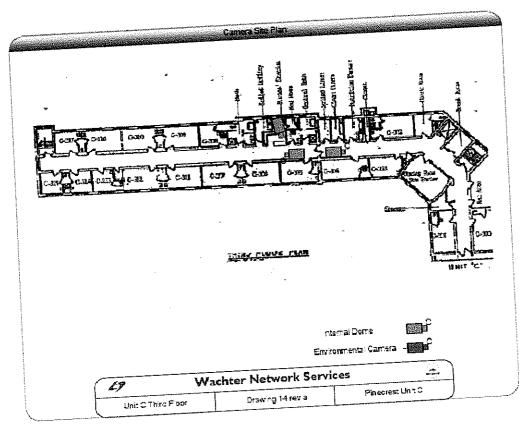


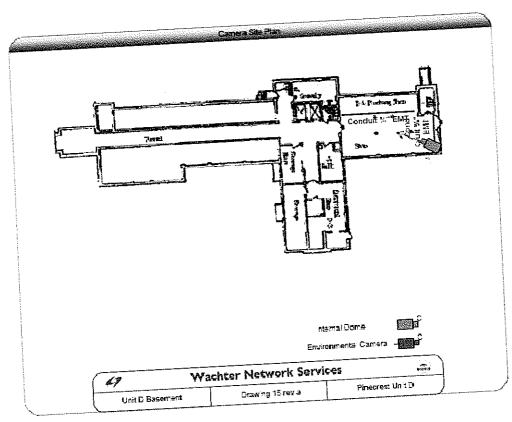


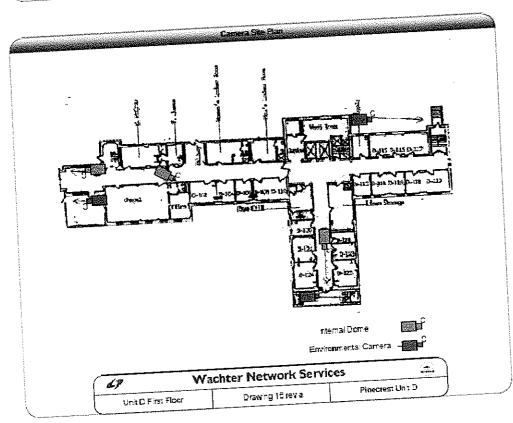


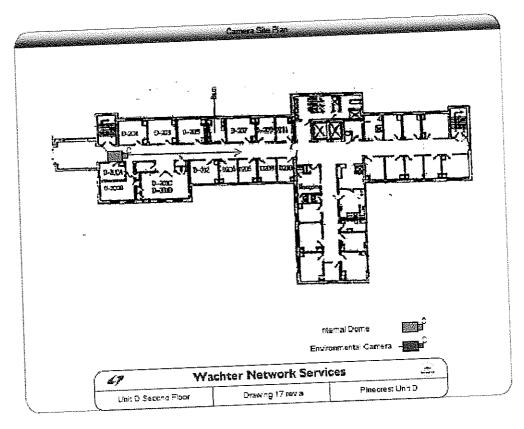


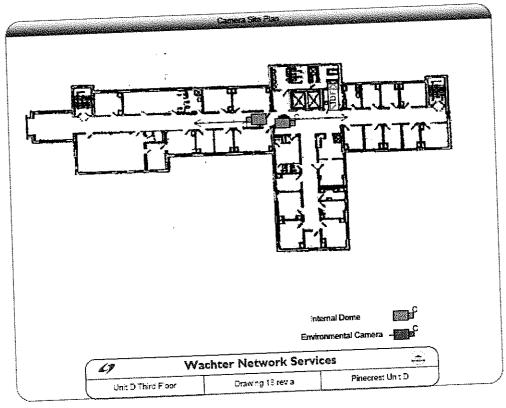


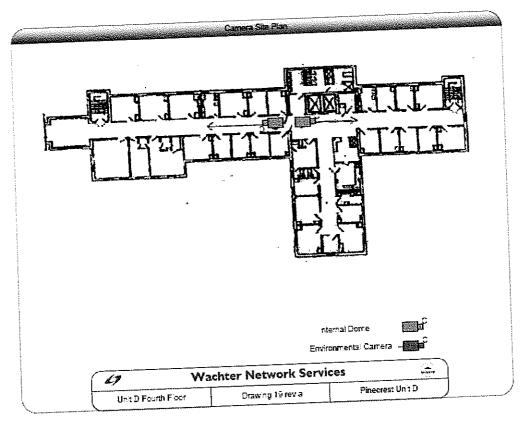


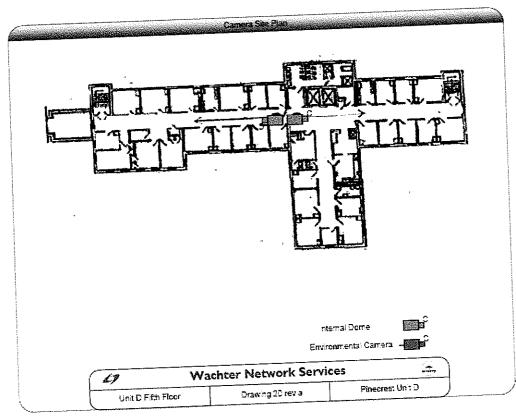


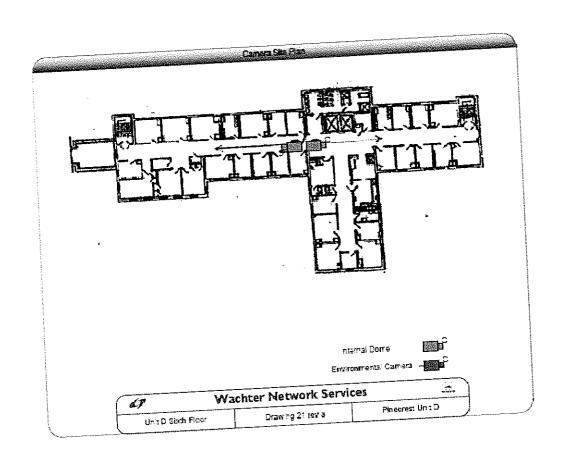






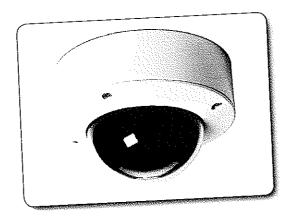








PRODUCT INFORMATION



MGDS4

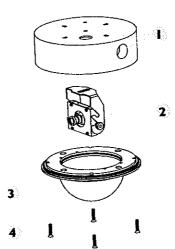
MINIGLOBE SERIES: DETENTION GRADE

The detention grade MiniGlobe (MGDS4) provides a tamper-resistant, integrated solution for a variety of security applications. The MGDS4 includes a high-quality camera, lens and impact-resistant housing. Use the MGDS4 in critical public locations and anywhere with low (10 feet or less) ceilings. It is an ideal solution for prisons, schools, institutions and government facilities.

Part of the MiniGlobe line, the surface-mount MGDS4 is designed for quick and simple installation. The MGDS4 will mount easily to a standard 4" octagonal junction box (other mounting options are available). It comes with a clear, polycarbonate dome and camera-concealing liner.

The MGDS4 accommodates an extensive variety of cameras including high resolution color, true day/night and wide dynamic range. DSP chip technology features Auto White Balance, Auto Gain Control, and Backlight Compensation.

The MGDS4 delivers excellent quality in an easy-to-install, versatile, integrated product—an exceptional solution for high security applications.



FEATURES

- Vandal-resistant housing
- · Impact-resistant dome
- · Cast aluminum construction
- Integrated camera, lens and housing solution
- Extensive camera options including high resolution color, true day/night, and wide dynamic range

HIGHLIGHTS

- 1) Side and top cable access ports
- Multiple camera options
- 3) Impact-resistant dome
- 4) Tamper-resistant screws



TECHNICAL SPECIFICATIONS

DIMENSIONS (All Dimensions Are in Inches) 6.085 1..80 2 24 4.06 6.075

MECHANICAL PROPERTIES

Cast aluminum

Cast aluminum trim ring with polycarbonate dome Upper Unit Heavy-gauge steel construction with black powder-coat finish Lower Unit

3.0 lbs (Shipping Weight = 3.7 lbs) Hardware Unit Weight

ELECTRICAL PROPERTIES

24VAC +/- 10% Input Voltage 3.5 - 4 5W Power Consumption BNC

Video Connections 1.0 V p-p 75 Ohm composite

Video Output Operating Temperature -10 to 55 degrees C

RECOMMENDED POWER SUPPLIES

Power supplies for 24VAC cameras. Multiple camera MPS24A series

application-4 8 and 16 outputs (Contact Wren for

amperage specifications.)

RECOMMENDED MOUNTING

4" Octagonal junction box or equivalent (Steel City® part #54151-1/2)

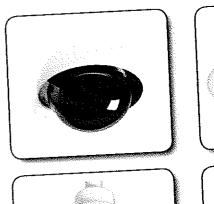
Transpector CAMERA SPECS Image Device Picture Elements Resolution Scanning System Min. Illumination HI RES COLOR 1/3" Sony CCD Image Set 480 TVL 2:1 Interlaced 0.4 lux (F2.0)	CCD Image Sensor	1/3" Sony CCD Image Sensor 768H × 494V 480 TVL 2:1 Interlaced 1:0 lux (F1.2)
mage Device 768H x 494V 480 TVL Scanning System 1/3" Sony CCD Image Set 768H x 494V 480 TVL 2:1 Interlaced	768H x 494V 480 TVL 2:1 Interlaced	480 TVL 2:1 Interlaced
S/N Ratio Shutter Speed Synchronization System Auto Gain Control Auto Iris Lens White Balance Backlight Compensation > 46dB Up to 1/100,000 Internal On/Off Switchable 2.8 - 10 mm Automatic On/Off Switchable 1.0 Vp-p. 75 Ohm Control	> 46dB Up to 1/100.000 Internal On/Off Switchable 2.8 - 10 mm Automatic On/Off Switchable 1.0 Vp-p 75 Ohm Composite	> 46dB Up to 1/100 000 Internal On/Off Switchable 2.8 - 10 mm ATC/AWB switchable Automatic 1.0 Vp-p. 75 Ohm Composite 24VAC/12VDC +/- 10% < 3.0V
Video Output	0% < 3.0W 24VAC/12VDC 17 1000	3 ounces/84 9 grams -10 to 50 C

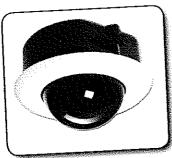


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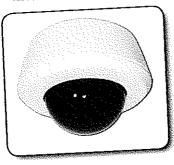












INTEGRATED CAMERA SOLUTIONS

MINIGLOBE SERIES

The MiniGlobe (MG4) series is an attractive, integrated camera and housing product family Like all Wren Products, it is designed for quick and simple instal-

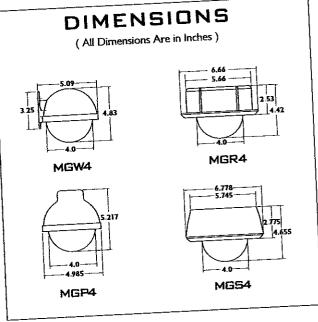
lation. The attractive yet discreet appearance of the MG4 series makes it an ideal solution for nearly any application—retail, office buildings, hospitals, shopping malls and even residential

The MG4 series allows for wall, pole, surface, recessed and pendant mount installations making it ideal for register locations to capture facial recognition and transaction verification. The MG4 series accommodates an extensive variety of cameras including high resolution color, true day/night and wide dynamic range. DSP chip technology features Auto White Balance, Auto Gain Control and Backlight Compensation. Cameras feature 2.8-10mm auto iris lenses.

High quality image, attractive housing, and simple to install—the MG4 series provides an exceptional cost effective solution.

FEATURES

- Simple, easy connection for both power and video
- Integrated camera, lens and housing solution
- Quick & simple installation
- Ideal for retail, hospitals, office buildings and more
- Attractive compact design
- Extensive variety of camera options





TECHNICAL SPECIFICATIONS

MECHANICAL PROPERTIES

Upper Unit

MGW4

Dow Magnum ABS

MGP4 MGR4 Dow Magnum ABS Steel construction with black

powder-coat finish; Plenum rated;

MGS4

Meets UBC 4305-A Dow Magnum ABS

Lower Unit

Optical-grade polycarbonate

Hardware

Steel construction with black

powder-coat finish

Weight (without camera)

MGW4

II 00 ounces

MGP4 MGR4 II 00 ounces 14 75 ounces

MGS4

21.44 ounces

ELECTRICAL PROPERTIES

Input voltage

24VAC +/- 10%

Power consumption

40-4.5W

Video connections

BNC

Video output

1.0 V p-p, 75 Ohm composite

ENVIRONMENT

Indoor

Operating Temperature 0-50 degrees C

RECOMMENDED POWER SUPPLIES

MPS24A series

Power supplies for 24VAC cameras.

Multiple camera application-4 8,

and 16 outputs

(Contact Wren for amperage specifications.)

		TRUE DAY/NIGHT	· · · · · · · · · · · · · · · · · · ·
CAMERA SPECS Image Device Picture Elements Resolution Scanning System Min. Illumination S/N Ratio	HI RES COLOR 1/3" Sony CCD Image Sensor 768H x 494V 480 TVL 2:1 Interlaced 0.4 lux (F2.0) > 46dB	TRUE DAY/NIGHT 1/3" Sony CCD Image Sensor 768H x 494V 480 TVL 2:1 Interlaced Color: 0.4 lux (F2.0) B&W: 0.0 lux with IR on > 46dB Up to 1/100 000	WIDE DYNAMIC RANGE 1/3" Sony CCD Image Sensor 768H × 494V 480 TVL 2:1 Interlaced 1.0 lux (Fi 2) > 46dB Up to 1/100,000
Shutter Speed Synchronization System Auto Gain Control Auto Iris Lens White Balance Backlight Compensation Video Output Power Supply Weight Operating Temperature	Up to 1/100.000 Internal On/Off Switchable 2.8 - 10 mm Automatic On/Off Switchable 1.0 Vp-p. 75 Ohm Composite 24VAC/12VDC +/- 10% < 3.0W 3 ounces/84 9 grams -10 to 50 C	Internal On/Off Switchable 2 8 - 10 mm Automatic On/Off Switchable 1.0 Vp-p 75 Ohm Composite 24VAC/12VDC +/- 10%. < 3.0W 3 ounces/84.9 grams -10 to 50 C	Internal On/Off Switchable 2.8 - 10 mm ATC/AWB switchable Automatic 1.0 Vp-p. 75 Ohm Composite 24VAC/12VDC +/- 10% < 3.0W 3 ounces/84.9 grams -10 to 50 C

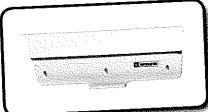


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The Power to See Your Business[™]





The Environmental Tube Housing (ETHI5) is an attractive and protective housing for various fixed camera/lens combinations. The product is a great solution for both indoor and outdoor applications, such as transportation parking structures, commercial property, resorts and office buildings.

The ETH15 is designed to meet NEMA-4 guidelines and independently certified to IP66 requirements. It features our unique "living hinge" which provides an exceptional seal and weather-resistance. Tamper-resistant screws come standard to make the ETH15 suitable for high-security applications

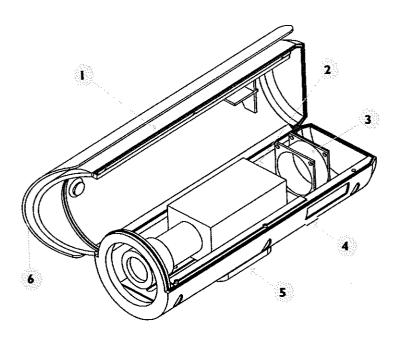
Designed for maximum durability, the ETHI5 comes with a sunshield and is constructed of white, UV-protected polymer material which gives it a clean, professional appearance. The surface is paintable, enabling the ETHI5 to be customized for situations where aesthetics are important.

The ETHIS is designed for easy installation and maintenance Camera adjustments may be made easily using the removable camera tray. Cables pass into the ETHIS via a water-tight cable connector or 1/2" conduit connector.

Available options include a heater/blower kit and several mounts. The heater/blower kit provides lens de-fogging and de-icing.

FEATURES

- Sleek, attractive appearance
- "Living hinge" for weather-resistant seal
- Easy installation and maintenance
- UV-protected
- Designed to meet
 NEMA-4 guidelines
- Independently certified to IP66 requirements
- Tamper-resistant screws
- Heater/blower kit available



HIGHLIGHTS

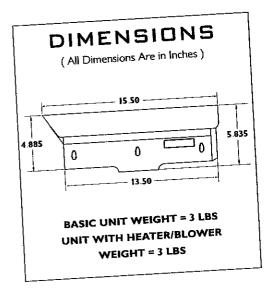
- Designed to meet NEMA-4 guidelines and independently certified to IP66 requirements. Constructed of UVresistant, paintable polymer material.
- Removable camera tray allows for easy camera connections and adjustments. Locks in place when lid is closed.
- Unit can be ordered with optional heater/blower.
- 4) Watertight cable pass connector.
- The mounting foot is designed for attachment to a variety of mounts.
- The sunshield provides additional protection from the elements.



TECHNICAL SPECIFICATIONS

OUTDOOR HOUSINGS

ENVIRONMENTAL TUBE HOUSING



ELECTRICAL PROPERTIES

24 VAC +/- 10% Input Voltage

1 heater blower = 1.8 amps (camera not included) Power Requirements

23.5 CFM @ 2.2 watts Blower

One (I) 40 watt heater Heater

CERTIFICATIONS

Designed to meet NEMA-4 guidelines and independently certified to IP66 requirements with proper installation

ENVIRONMENT

Outdoor/Indoor -30°C to 50°C (-22°F to 122°F) with Heater/Blower option or 0°C to 50°C without Operating Temperature

RECOMMENDED MOUNTS

HM2100 Wall HM2200 Pole HM2300 Corner HM2400 Pedestal HM2600 Ceiling/J Mount







HOUSING/CAMERA MOUNT OVERVIEW

Wren offers a selection of premium mounts for multiple applications. All housing mounts are designed for use in both indoor and outdoor environments. They are made from heavy-gauge steel and aluminum, support many times the required weight

	sy to install.	COLOR	MODEL NUMBER AND MOUNT	NOTES	SHIPPING WEIGHT (IN LBS)	SHIPPING DIMENSIONS (IN INCHES)
HOUSING	APPLICATION Wall		HM1102		3.96	13 × 13 × 9
	Pole		HM1222	Requires wall-mount for EG8. HM1102 Accommodates 3" to 10" poles	2.40	12×10×3.5
EG8	Corner	Gray	нм1332	Requires wall-mount for EG8. HM1102 Includes liquid tight conduit and connectors Available without liquid tight conduit and connectors. HM13	420	13 x 13 x 9.2
	Roof/Parapet		HM1722	Requires wall-mount for EG8. HM1102	24.00	5.5 × 9 × !

	Pole		HM1222	 Accommodates 3" to 10" poles 	2.40	12×10×3.5	
	Corner	Gray	нм1332	Includes liquid tight conduit and connectors Available without liquid tight conduit and connectors, HM1322	4.20	13 × 13 × 9.25	
EG12	Roof/Parapet		HM1722		24.00	5.5 x 9 x 59	



HOUSING/CAMERA MOUNT OVERVIEW

HOUSING	APPLICATION	COLOR	MODEL NUMBER AND MOUNT	SHIPPING WEIGHT (IN LBS)	SHIPPING DIMENSIONS (IN INCHES)
	Wall		нм2100	1.80	15×7×7
	Pole		HM2200	3.28	22 × 7 × 7
	Corner	White	нм2300	3.52	24 × 9 × 9
ETH15	Pedestal		HM2400	1.02	13 × 4 × 4
	Ceiling/ J-Mount		нм2600	1.98	17×8.5×4
C400	Wall or Ceiling	Beige	CM1100	0.4	5×4×5
SERIES			Land junction box		

^{*}Note: Constructed from sturdy, injection-molded plastic and fits a standard junction box



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8L110 rev-d (06.18.08) Doc MD 72.210 19

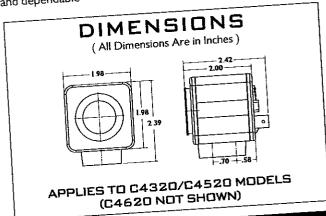


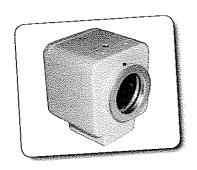
The Power to See Your Business[™]

CAMERA SOLUTIONS

C4000 SERIES

The C4000 camera series offers robust features to meet a wide range of application requirements, including true day/night. The C4000 cameras are well-priced and deliver excellent image quality. Models have an extensive user interface enabling easy feature selection. These camera solutions are flexible and dependable





FEATURES

- Extensive options including day/night
- Horizontal resolution up to 480TVL

(645	20 NOT SHOWN		WIDE DYNAMIC RANGE (C4620)
CAMERA SPECS	HI RES COLOR (C4320)	TRUE DAY/NIGHT (01114)	1/3" Sony CCD Image Sensor
mage Device Picture Elements Resolution Scanning System Min. Illumination S/N Ratio Shutter Speed Synchronization System Auto Gain Control Auto Iris Lens (optional) White Balance Backlight Compensation Video Output Power Supply Weight Operating Temperature	1/3" Sony CCD Image Sensor 768H x 494V 480 TVL 2:I Interlaced 0 4 lux (F2 0) > 46dB Up to 1/100,000 Internal On/Off Switchable DC/Video Drive Switch Automatic On/Off Switchable 1.0 Vp-p. 75 Ohm Composite 24VAC/12VDC +/- 10% < 3.0W 5 ounces/141.5 grams -10° to 50° C	1/3" Sony CCD Image Sensor 768H x 494V 480 TVI. 2:1 Interlaced Color: 0.4 lux (F2.0) B&W: 0.0 lux with IR on > 46dB Up to 1/100 000 Internal On/Off Switchable DC/Video Drive Switch Automatic On/Off Switchable 1.0 Vp-p. 75 Ohm Composite 24VAC/12VDC +/- 10%, < 3.0V 5 ounces/141.5 grams -10° to 50° C	768H x 494V 480 TVL 2:1 Interlaced 1 0 lux (F1.2) > 46dB Up to 1/100,000 Internal On/Off Switchable DC/Video Drive Switch ATC/AWB switchable Automatic 1 0 Vp-p. 75 Ohm Composite

ACCESSORIES

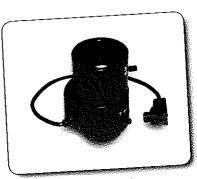
CM1100

5" Wall or Ceiling Camera Mount



FEATURES

- Compatible with 1/3" format cameras
- · Auto iris
- » All-glass optics







L3SV5A

LENS SOLUTIONS

L35V

The L3SV varifocal lenses deliver excellent quality, durability and value. Models have all-glass optics and metal threads for camera connection. Compatible with 1/3-inch CS-mount cameras, L3SV lenses are easy to use and install. They have focal lengths of 2.8-12 mm and 5-50 mm. Lenses utilize the latest technology for optimized, bright sharp images even in environments

DIMENSIONS (All Dimensions Are in Inches)	
Ø1.4 1.8	
L3SV2A	_
Ø1.7 2.0	
L3SV5A	

7.77565	MODEL L35V2A	MODEL L35V5A
LENS SPECS	1/3"	1/3"
ormat	, i	CS
ount Type	CS	5 0 - 50
ocal Length (mm)	2.8 - 12	auto: DC drive
	auto: DC drive	1
ris	manual	manual
Focus	manual	manual
Zoom	4×	10×
Zoom Ratio	14-360	1.4 - 360
Relative Aperture (F Stops)	1340° - 32.0°	59.6° - 7.4°
Angle of View (Diagonal)	Į.	49.2° - 5.82°
Angle of View (Horizontal)	99.8° - 25.0°	37.98° - 4.38°
Angle of View Vertical	72.5° - 18.7°	84-142
Back Focal Length (mm)	9.75 - 20.46	i
Weight (grams)	79	204



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DIGITAL RECORDING SOLUTIONS

DRS6000 SERIES

DIGITAL VIDEO RECORDER

Wren's DRS6000 series of network digital video recorders (DVRs) offers features and functionality to support diverse surveillance needs. The embedded Linux operating system provides premium security, stability and reliability. This I6-channel DVR can stand alone or be networked and is available with 500GB, ITB, or 15TB storage capacity. Network software allows for remote viewing and configuration of multiple DVRs making it easy to manage video. This DVR compresses video to CIF of 1.2 KB allowing video to travel on the network without slowing it down. Simultaneous playback, record and burning features enable interaction without degradation or interruption of recording or monitoring performance. The smart search feature allows for faster access to recorded video. Email notifications can be customized to generate alerts automatically when a video event occurs. The DRS6000 series makes it easy to capture and manage video that is critical to business.



BACK SIDE OF THE WREN DRS6000

FEATURES

- Three versions available: 500GB, ITB, I.5TB
- Compresses video to CIF file size of I.2KB
- Secure Linux operating system
- IR remote and Push Button control
- UL and FCC approved



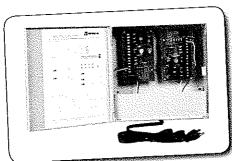
TECHNICAL SPECIFICATIONS

		16/16/16
Cł	nannel/Input/Output	480/120
Vi Z	iewing/Recorded FPS	Various Functions and Settings
Z	oom	Various Functions and Settings
s	equence Display	480 FPS
R	Real Time Display	MAX 120 FPS, 30 per CH
F	Recording Rate	4 User-selected Levels
ī	Record Quality Algorithm of MJPEG, JPEG, and H.263	
		Full Pentaplex
 	Operation	Various Functions and Settings
	Motion Detect	SMS Remote PC Software Included
	Network Function	16/4
	Alarm In/Out	CDRW, USB port, or PC via SMS Remote Software
	Back-Up	CORVY, OSB PORSA CONTROL THROUGH IR Remote and Push Buttons. Multiple protocols recognized.
	PTZ	Holds up to 3 HDD internally - 500GB, ITB, 1.5TB
	Storage	1 CH Audio ADPCM Compression
	Audio	90-264 VAC 50 Watts
	Power Consumption	13.23 lbs with 2 HDDs
	Weight	13.78" (W) × 15.75" (D) × 3.46" (H)
	Dimensions (Inches)	40° ~ 104° F
	Operating Temp.	Less than 90%
Ì	Operating Humidity	LCJJ G.G.









The Wren Master Power Supply series provides reliable and durable power systems for indoor and outdoor video applications. They are easy to install and use, and are available in multiple configurations for powering up to 16 components. All units have built-in surge protection, smart fuses, and many other features to protect your video equipment.

Models are available with 4, 8 or 16 outputs and deliver up to 20 Amps for powering cameras, dome systems, and other video devices. The MPS series delivers consistent voltage to your equipment and protects it from transient power spikes with selfresetting fuses. Each board has fused protection for the input to the printed circuit boards (PCB).

The attractive, corrosion-resistant metal housing has a beige powder-coat finish and is suitable for industrial use as well as public areas where aesthetics are important Wiring connections are simple and require only a screwdriver for installation. A wiring sheet and instructions are on the inside of the cabinet door for quick reference.

Each output board has an "on/off" switch to power up or down selective devices and an LED so you can quickly verify that 120VAC power is being received. Troubleshooting is easy with LEDs that indicate power input and power output statuses

FEATURES

- · 4, 8 or 16 output models
- · Intelligent fuses to improve operational time
- Built-in surge protection
- UL Listed units available
- Sleek cabinet design
- 6-foot power cord for easy installation
- · Compatible with cameras, domes, PTZs and other video equipment

	APPLICATIONS
	VEBLICATIONS
INDOOR	A1

INDOOR A	PPL	ICATION	5		DIMENSIONS
MODEL #	UL	OUTPUTS/	OUTPUT FUSED	AMPS AVAIL	(IN INCHES)
A49512D4 3		4@ 12VDC	1.85	3	8×9×2.7
MPS12D4-3		8 @ 12VDC	185	6	7×8×2.7
MPS12D8-6	1	16 @ 12VDC	185	12	11.5×11.5×2.7
MPS12D16-12	١.	4 @ 24VAC	185	3.5	8×9×2.7
MPS24A4-4		8 @ 24VAC	1.85	3.5	8×9×2.7
MPS24A8-4		16 @ 24VAC	1.85	7	11.5 x 11.5 x 2.7
MPS24A16-7	<u> </u>	18 @ 24VAC			TM Indicator

OUTOOR	APPLIC	ATION	IS,
			-11

UL	OUTPUTS/	OUTPUT FUSED	AMPS AVAIL	DIMENSIONS (IN INCHES)
		3	8	11.5 × 11.5 × 2.7
1			10	11.5×11.5×2.7
1	1 1		70	11.5 x 11.5 x 2.7
	8 @ 24VAC	3		
	UL	VOLTAGE 4 @ 24VAC 4 @ 24VAC	UL OUTPUTS/ OUTPUT VOLTAGE FUSED	UL OUTPUTS! OUTPUT AMPS AVAIL. 4 @ 24VAC 3 8 4 @ 24VAC 3 10

Indicator: LED indication of AD and DC power. Outputs: Each output is fused with self-resetting SmartFuses™



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MD 7-2-210-12



User Manual

English

APC Smart-UPS®

750/1000/1500 VA 100/120/230 Vac 2U Rack-Mount Uninterruptible Power Supply

The APC Uninterruptible Power Supply (UPS) is designed to prevent blackouts, brownouts, sags, Introduction and surges from reaching your computer and other valuable electronic equipment. The UPS filters small utility line fluctuations and isolates your equipment from large disturbances by internally disconnecting from the utility line. The UPS provides continuous power from its internal battery until the utility line returns to safe levels or the battery is discharged

INSTALLATION 1:



Read the Safety Instruction sheet before installing the UPS.

Inspect the UPS upon receipt. APC designed robust packaging for your product. However, accidents and damage may occur during shipment. Notify the carrier and dealer if there is damage

The packaging is recyclable; save it for reuse or dispose of it properly.

Check the package contents. The package contains the UPS, the front bezel, the rail kit, and a literature kit containing:

- Product documentation and safety information
- CD-ROM with additional user manual language support and safety information
- PowerChute® CD-ROM (120V/230V models only)
- Serial and USB communication cables
- Two IEC jumper cables and one plug adaptor (230V models only)

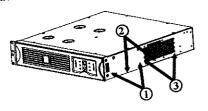


The UPS is shipped with the battery disconnected.

Rail Installation

Install the rails following instructions in the rail kit.

Mounting rails are supplied for the standard 4-post rack. Two-post racks require only the mounting brackets

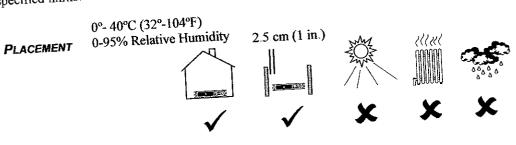


Ear Mounting Locations:

- Standard
- Optional (1 4" setback)
- 2-post rack (5" setback)

Place the UPS where it will be used. The UPS is heavy. Select a location sturdy enough to handle the weight.

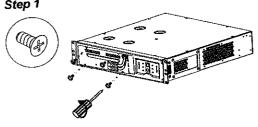
Do not operate the UPS where there is excessive dust or the temperature and humidity are outside the specified limits.



Mounting the UPS in a Rack

The UPS is heavy. To lighten it, you may remove the battery before mounting the unit in the rack (Steps 1 and 2).

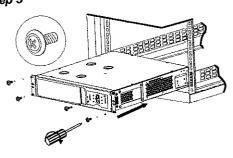
Step 1



Step 2 Caution: The battery is heavy.



Step 3



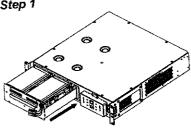


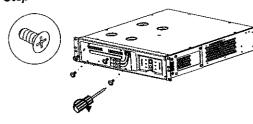
Install the UPS at or near the bottom of the rack (Step 3).

Check to ensure the rack will not tip after installing the UPS into the rack.

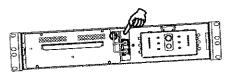
Installing and Connecting the Battery and Attaching the Front Bezel Step 2

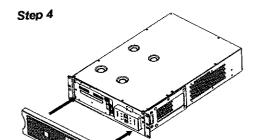
Step 1





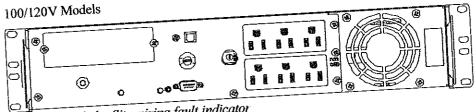
Step 3
Connect battery plug to UPS. Tuck white battery cord into space above connector



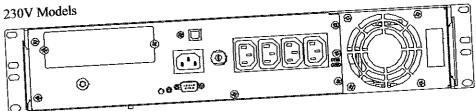


Connecting Equipment and Power to the UPS

SMART-UPS REAR PANEL



120V Model Only: Site wiring fault indicator



- Connect equipment to the UPS. Note: Do not connect a laser printer to the UPS. A laser printer draws significantly more power than other types of equipment and may overload the UPS
- Add any optional accessories to the Smart-Slot
- Using a power cord, plug the UPS into a two-pole, three-wire, grounded receptacle only.
 - 100V/120V models: The power cord is permanently attached to the rear panel of the UPS. The INPUT plug is a NEMA 5-15P.
 - 230V models. The power cord is supplied by the customer. Connect ground leads to the TVSS screw (optional). To make the connection, loosen the screw and connect the surge suppression device's ground lead. Tighten the screw to secure the lead.
- Turn on all connected equipment. To use the UPS as a master ON/OFF switch, be sure all connected equipment is switched ON. The equipment will not be powered until the UPS is turned on.
- To power up the UPS press the test button on the front panel
 - The UPS charges its battery when it is connected to utility power. The battery charges to 90% capacity during the first four hours of normal operation. Do not expect full battery run capability during this initial charge period
 - 120V Models: Check the site wiring fault LED located on the rear panel. It lights up if the UPS is plugged into an improperly wired utility power outlet. Refer to Troubleshooting in
- 6. For additional computer system security, install PowerChute® Smart-UPS monitoring software

BASIC CONNECTORS

Serial Port

·::::) (0)



Power management software and interface kits can be used with the UPS. Use only interface kits supplied or approved by APC.



Use an APC supplied cable to connect to the Serial Port. DO NOT use a standard serial interface cable since it is incompatible with the UPS connector. Both Serial and USB Ports are provided. They cannot be used simultaneously.

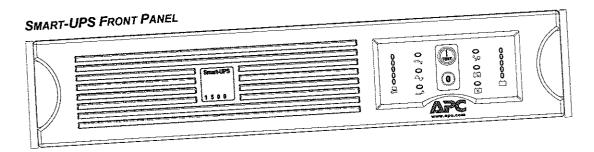
TVSS Screw



The UPS features a transient voltage surge-suppression (TVSS) screw for connecting the ground lead on surge suppression devices such as telephone and network line protectors.

When connecting grounding cable, disconnect the UPS from utility power

OPERATION 2:



Power On



Power Off



100V/230V 085% 067% 050% 033% 017%	120V 085% 067% 050% 033% 017%	 120V 096% 072% 048% 024% 00% sattery
•	017% Load	 Battery Charge

Online



The online LED illuminates when the UPS is supplying utility power to the connected equipment. If the LED is not lit, the UPS is either not turned ON, or is supplying battery power

AVR Trim



This LED illuminates to indicate the UPS is compensating for a high utility voltage.

AVR Boost



This LED illuminates to indicate the UPS is compensating for a low utility voltage

On Battery



When the on battery power LED is lit the UPS is supplying battery power to the connected equipment. When on battery, the UPS sounds an alarm—four beeps every 30 seconds.

Overload



The LED illuminates and the UPS emits a sustained alarm tone when an overload condition occurs

Replace Battery



Failure of a battery self-test causes the UPS to emit short beeps for one minute and the replace battery LED illuminates. Refer to Troubleshooting in this manual

Battery Disconnected



The replace battery LED flashes and short beep is emitted every two seconds to indicate the battery is disconnected.

Automatic Self-Test

The UPS performs a self-test automatically when turned on, and every two weeks thereafter (by default).

During the self-test, the UPS briefly operates the connected equipment

If the UPS fails the self-test, the replace battery LED X lights and immediately returns to online operation. The connected equipment is not affected by a failed test. Recharge the battery for 24 hours and perform another self-test. If it fails, the battery must be replaced.

Manual Self-Test

Press and hold the button for a few seconds to initiate the self-test.

The Smart-UPS switches to battery operation automatically if the utility power fails. While running On Battery Operation on battery, an alarm beeps four times every 30 seconds.

Press the button (front panel) to silence the UPS alarm (for the current alarm only) If the utility power does not return, the UPS continues to supply power to the connected equipment until the bat-

If PowerChute® is not being used you must manually save your files and turn off the computer before the UPS fully discharges the battery.

DETERMINING ON BATTERY RUN TIME

UPS battery life differs based on usage and environment. It is recommended that the battery/batteries be changed once every three years. See the APC web site, www.apc.com, for on battery run times

3: USER CONFIGURABLE ITEMS

NOTE: SETTINGS ARE MAD	E THROUGH SUPPLIES	D POWERCHUTE SOFTWARE (SORY CARDS.	
	FACTORY	USER SELECTABLE CHOICES	DESCRIPTION
FUNCTION automatic Self-Test	Every 14 days (336 hours)	Every 7 days (168 hours), On Startup Only, No Self-Test	This function sets the interval at which the UPS will execute a self-test. Refer to your software manual for details.
JPS ID	UPS_IDEN	Up to eight characters to define the UPS	Use this field to uniquely identify the UPS, (i.e. server name or location) for network management purposes.
Date of Last Battery Replacement	Manufacture Date	Date of Battery Replace- ment mm/dd/yy	Reset this date when you replace the battery module.
Minimum Capacity Before Return from Shutdown Voltage Sensitivity The UPS detects and react to line voltage distortions by transferring to battery operation to protect the connected equipment Where power quality is poor, the UPS may fre- quently transfer to batter operation. If the connecte equipment can operate normally under such contions, reduce the sensitive	high s di- di- ity	15, 25, 35, 50, 60, 75, 90 percent Brightly lit: UPS is set to high sensitivity. Dimly lit: UPS is set to medium sensitivity. Off: UPS is set to low sensitivity. high medium low	ity button (rear panel). Use a pointed object (such as a pen) to do so.
setting to conserve batte capacity and service life Alarm Delay After Line Fail		30 second delay, At Lo Battery Condition, No	delay
Shutdown Delay	20 seconds	0, 60, 120, 240, 480, 7 960 seconds	Sets the interval between the time when the UPS received shutdown command and actual shutdown.

NOTE: SETTINGS ARE MAD	ACIOE REDUCIANT EL	LIED POWERCHUTE SOFTWARE CESSORY CARDS.	
FUNCTION	FACTORY DEFAULT	USER SELECTABLE CHOICES	DESCRIPTION
Low Battery Warning PowerChute interface software provides auto- matic, unattended shut- down when approximately two minutes (by default) of battery operated run time remains	2 min	Brightly lit: Low battery warning interval is about two minutes. Dimly lit: Low battery warning interval is about five minutes. Off: Low battery warning interval is about eight minutes.	The low battery warning beeps are continuous when two minutes of run time remain. You can change the warning interval default setting through PowerChute software.
^~~~		2 min.	
	1	-☆ 5 min.	
		8 min.	
		Possible interval settings: 5, 7, 10, 12, 15, 18 minutes	
Synchronized Turn-on Delay	0 seconds	20, 60, 120, 240, 480, 720, 960 seconds	The UPS will wait the speci- fied time after the return of utility power before turn-on (to avoid branch circuit over- load).
High Transfer Point	100V: 108VAC	100V: 110, 112, 114VAC	To avoid unnecessary battery usage, set the high transfer point higher if the utility volt-
	120V: 127VAC	120V: 130, 133, 136VAC	age is chronically high and the connected equipment is known to work under this
	230V: 253VAC	230V: 257, 261, 265VAC	condition.
Low Transfer Point	100V: 92VAC	100V: 86, 88, 90VAC	Set the low transfer point lower if the utility voltage is chronically low and the con-
	120V: 106VAC	120V: 97, 100, 103VAC	nected equipment can tolerate this condition.
	230V: 208VAC	230V: 196, 200, 204VAC	

STORAGE, MAINTENANCE, AND TRANSPORTING 4:

Store the UPS covered and positioned as for proper functioning, in a cool, dry location, with the batteries fully charged.

At -15 to +30 °C (+5 to +86 °F), charge the UPS battery every six months. At +30 to +45 °C (+86 to +113 °F), charge the UPS battery every three months.

Replacing the Battery Module

This UPS has an easy to replace, hot-swappable battery module. Replacement is a safe procedure, isolated from electrical hazards. You may leave the UPS and connected equipment on for the following procedure. See your dealer or contact APC at the web site, www.apc.com for information on replacement battery modules



Once the battery is disconnected, the connected equipment is not protected from power outages.

Be careful during the following steps-the battery module is heavy.

Refer to Installing and Connecting the Battery and Attaching the Front Bezel, in this manual

Refer to Mounting the UPS in a Rack (Steps 1 and 2) for instructions on battery removal.



Be sure to deliver the spent battery to a recycling facility or ship it to APC in the replacement battery packing material.

Disconnecting the Battery for Transport



Always DISCONNECT THE BATTERY before shipping in compliance with U.S. Department of Transportation (DOT) regulations.

The battery may remain in the UPS; it does not have to be removed.

- Shut down and disconnect any equipment attached to the UPS
- Shut down and disconnect the UPS from the power supply.
- Remove the front bezel, and unplug the battery connector, by pulling firmly on white battery 3.

For shipping instructions and to obtain appropriate packing materials contact APC at the web site, www.apc.com/support/contact

5: TROUBLESHOOTING

Use the chart below to solve minor Smart-UPS installation and operation problems Refer to the APC web site, www.apc.com, for assistance with complex UPS problems.

PROBLEM AND POSSIBLE CAUSE	SOLUTION
UPS WILL NOT TURN ON	
Battery not connected properly.	Check that the battery connector is fully engaged
button not pushed. UPS not connected to utility power supply. Very low or no utility voltage.	Press the button once to power the UPS and the connected equipment. Check that the power cable from the UPS to the utility power supply is securely connected at both ends. Check the utility power supply to the UPS by plugging in a table lamp. If the light is very dim, have the utility voltage checked.
UPS WILL NOT TURN OFF	
button not pushed. Internal UPS fault	Press the button once to turn the UPS off. Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.
UPS BEEPS OCCASIONALLY	ties the connected equipment.
Normal UPS operation when running on battery.	None. The UPS is protecting the connected equipment.
UPS DOES NOT PROVIDE EXPE	CTED BACKUP TIME
The UPS battery is weak due to a recent outage or is near the end of its service life.	CTED BACKUP TIME Charge the battery Batteries require recharging after extended outages. They wear faster when put into service often or when operated at elevated temperatures. If the battery is near the end of its service life, consider replacing the battery even if the replace battery LED is not yet lit.
TO THE !	
Internal UPS fault	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
FRONT PANEL LEDS FLASH S	EQUENTIALLY
The UPS has been shut down remotely through software or	None. The UPS will restart automatically
ALL LEDS ARE OFF AND THE	UPS IS PLUGGED INTO A WALL OUTLET e None. The UPS will return to normal operation when the power is restored
The UPS is shut down and the battery is discharged from an extended outage.	e None. The UPS will return to normal appropriate the None.

PROBLEM AND POSSIBLE CAUSE	SOLUTION
	E UPS EMITS A SUSTAINED ALARM TONE
The LIPS is overloaded.	The connected equipment the APC web site, www.apc.com
i	The alarm remains on until the overload is removed. Discomment the LIPS to eliminate the overload.
	The UPS continues to supply power as long as it is offine and the breaker does not trip; the UPS will not provide power from batteries in the breaker does not trip; the UPS will not provide power from batteries in the
	If a continuous overload occurs while the UPS is on battery, the unit turns off output in order to protect the UPS from possible damage.
THE REPLACE BATTERY LED IS LI	Τ
Replace Battery LED flashes	Check that the battery connectors are fully engaged.
and short beep is emitted every two seconds to indicate the battery is disconnected.	
Weak battery	Allow the battery to recharge for 24 hours. Then, perform a self-test. If the problem persists after recharging, replace the battery.
Failure of a battery self-test.	Ine UPS emits short beeps for one minute and the <i>replace battery</i> LED Ine UPS emits short beeps for one minute and the <i>replace battery</i> LED illuminates. The UPS repeats the alarm every five hours. Perform the self-illuminates after the battery has charged for 24 hours to confirm the test procedure after the battery has charged for 24 hours to confirm the <i>replace battery</i> condition. The alarm stops and the LED clears if the battery passes the self-test.
	_
THE SITE WIRING FAULT LED IS 120V models only. Site wiring	Wiring taults detected include the
LED on rear panel	Contact a qualified electrician to correct the building wiring
The UPS is plugged into an improperly wired utility power outlet.	
THE INPUT CIRCUIT BREAKER 1	RIPS tugging equipment and press the
The plunger on the circuit breaker (located to the right of the input cable connection) por out	Reduce the load on the UPS by unplugging oquip
AVR BOOST OR AVR TRIM LI	EDS LIGHT
Your system is experiencing excessive periods of low or high	Have quantied service personnel. Have quantied service personnel. I lems. If the problem continues, contact the utility company for further
voltage	assistance

PROBLEM AND POSSIBLE CAUSE	SOLUTION
THERE IS NO UTILITY POWER AND TI	IE UPS HAS BEEN TURNED OFF
120V/230V Models: When the UPS is off and there is no utility power, use the cold start feature to apply power to the connected equipment from the UPS battery. Cold start is not a normal condition.	Press and hold the button, (for about 3 seconds). The unit will beep, the LED lights will flash, and the unit will beep a second time. Release the ON button during the second beep. This will supply immediate power to the UPS and the connected equipment. Make sure connected equipment is switched to ON.
UPS OPERATES ON BATTERY ALTH	OUGH NORMAL LINE VOLTAGE EXISTS
UPS input circuit breaker tripped	Reduce the load on the UPS by unprugging equipment and resetting the circuit breaker (on the back of UPS) by pressing the plunger in.
Very high, low, or distorted line voltage. Inexpensive fuel powered generators can distort the voltage.	Move the UPS to a different outlet on a different circuit. Iest the input voltage with the utility voltage display (see below). If acceptable to the connected equipment, reduce the UPS sensitivity.
BATTERY CHARGE AND BATTERY	OAD LEDS FLASH SIMULTANEOUSLY
The internal temperature of the UPS has exceeded the allowable threshold for safe operation.	Check that the room temperature is within the specified limits for operation. Check that the UPS is properly installed allowing for adequate ventilation. Allow the UPS to cool down. Restart the UPS. If the problem continues contact APC at, www.apc.com/supoport .
DIAGNOSTIC UTILITY VOLTAGE FE	ATURE
Utility Voltage	The UPS has a diagnostic feature that displays the unity voltage. This the UPS into the normal utility power.
100V 120V 230V 0119 0133 0266 0109 0123 0248 0100 0115 0229 091 0105 0210 081 098 0191 Battery Charge	Press and hold the button to view the utility voltage bar graph display. After a few seconds the five-LED, Battery Charge, , display or the right of the front panel shows the utility input voltage. Refer to the figure at left for the voltage reading (values are not listed or the UPS) The display indicates the voltage is between the displayed value on the list and the next higher value. Three LEDs light, indicating utility voltage within the normal range. If no LEDs are lit and the UPS is plugged into a working utility power outlet, the line voltage is extremely low. If all five LEDs are lit, the line voltage is extremely high and should be checked by an electrician.
The UPS starts a self-	test as part of this procedure. The self-test does not affect the voltage displa

Service

If the UPS requires service do not return it to the dealer. Instead, follow these steps:

- Review the problems discussed in the *Troubleshooting* section of this manual to eliminate common problems.
- 2. If the problem persists, contact APC Customer Service through the APC web site, www.apc.com/support.
 - Note the model number of the UPS, the serial number, and the date purchased. If you call APC Customer Service, a technician will ask you to describe the problem and try to solve it over the phone, if possible. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
 - If the UPS is under warranty, repairs are free. If not, there is a repair charge
- 3. Pack the UPS in its original packaging If the original packing is not available, refer to the APC web site, www.apc.com/support, for information about obtaining a new set.
 - Pack the UPS properly to avoid damage in transit. Never use Styrofoam beads for packaging.

 Damage sustained in transit is not covered under warranty.



Always DISCONNECT THE BATTERY before shipping in compliance with U.S. Department of Transportation (DOT) regulations.

The battery may remain in the UPS; it does not have to be removed.

- 4. Mark the RMA# on the outside of the package.
- 5. Return the UPS by insured, prepaid carrier to the address given to you by Customer Service

Contacting APC

USA-	Outside the USA-
Refer to the APC web site, www.apc.com/support	Refer to the APC web site, <u>www.apc.com</u> . Select the appropriate country from the country selection field. Select the <i>Support</i> tab at the top of the web page.

REGULATORY AND WARRANTY INFORMATION 6:

Regulatory Agency Approvals and Radio Frequency Warnings

230V MODELS











This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take corrective actions.

120V MODELS





This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded signal cables must be used with this product to ensure compliance with the Class A FCC limits

BSMI



警告使用者: 這是甲類的資訊產品,在居住的 環境中使用時,可能會造成射頻 干擾,在遺種情況下,使用者會 被要求採取某些適當的對策。

100V MODELS



この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスA情報 技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。 この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A

Declaration of Conformity



EC Declaration of Conformity

Date of Product Declaration 2002

We, the undersigned, declare under our sole responsibility that the equipment specified below conforms to the following standards and directives:

Harmonized Standards:

EN55022; EN50091-2; En60950; EN50091-1-1, 2; 55024; IBC60950; EN61000-3-2, 3-3, 4-2, 4-3, 4-4, 4-5, 4-6, 4-8, 4-11

Applicable Council Directives:

73/23/EEC, 93/68/EEC 89/336/EEC, 92/31/EEC, 91/157/EEC

Type of Equipment:

Uninterruntible Power Supply

Model Numbers:

SUA750RMZU, SUA1000RMZU, SUA1500RMZU, SUA750RMIZU, SUA1000RMIZU, SUA1500RMIZU, SUA750RMIZU, SUA1000RMIZU, SUA1500RMIZU

J. Garage

Imperiera

American Power Conversion Ballybritt Business Park Column Ireland

Place:

Ray S. Ballard Managing Director, Europe

Galway, freland

5 Jan 02

N.F.

American Power Conversion Ballybritt Business Park

American Power Conversion Breaffy Rd.

Castelbar
Co Mayo, Ireland

American Power Conversion 132 Fairgrounds Rd. West Kingston, RI 02892 USA

American Power Conversion 1600 Division Rd. West Warwick, RI 02893 USA

American Power Conversion 40 Catamore Blvd. East Providence, RI 02914 USA

APC India Pvt, Ltd. 187/3, 188/3, Jigani Industrial Area Bangaldore, 562106 Kanataka American Power Conversion Lot 3, Block 14, Phase 3 PEZA, Rosario Cavite Philippines

American Power Conversion 2nd Street PEZA, Cavite Economic Zone Rosario, Cavite Philippines

American Power Conversion Lot 10, Block 16, Phase 4 PEZA, Rosario, Cavite Philippines

APC Brazil LFDA. AI. Xingu, 850 Barueri Aiphaville/Sao Paulo 06455-030 Brazil

APC (Suzhou) UPS Co. Ltd 339 Suhong Zhong Lu Suzhou Industrial Park Suzhou Jiangau 221502! P. R. China

Limited Warranty

American Power Conversion (APC) warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of pur-

EXCEPT AS PROVIDED HEREIN, AMERICAN POWER CONVERSION MAKES NO WARRANTIES EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

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CORPORATE FACT SHEET



Headquarters

500 Sugar Mill Road; Suite 150 B Atlanta, GA 30350 (770) 640-1314 (phone) (877) 206-1292 (toll-free) info@wrensolutions.com www.wrensolutions.com

Description

Wren, a provider of video surveillance solutions for 25 years, gives organizations the power to improve security, reduce risk and streamline operations. Our network video technology solutions, which include video management software, cameras, indoor and outdoor housings, public view monitors, DVRs, and accessories, are trusted by retail, education, government, healthcare and hospitality industries to deliver an unprecedented level of increased security and operational visibility. Our solutions are scalable, easy to implement and designed for use in a wide range of businesses, from Fortune 100 enterprises to small, independently-owned companies. Wren is a privatelyheld company. For more information about Wren and our video surveillance solutions, visit us at www.wrensolutions.com

Products

Wren carries a full range of IP and analog video solutions. All of our cameras, indoor and outdoor housings, public view monitors, DVRs, and accessories are time-tested, proven products manufactured to the highest standards. They are flexible, scalable, cost effective and are designed for easy installation and maintenance, minimizing the cost of ownership. Manufactured from the finest quality materials, both Wren's Network Video Solutions and analog products are created with special attention to the eye-pleasing aesthetics demanded by today's architecture. Visit www.wrensolutions.com for a complete product list and details

Markets Served

Wren's roster of customers includes some of the largest, most respected Fortune 500 retail companies as well as school districts, and independently-owned businesses. A tribute to their legacy of excellent customer service, Wren has a customer retention rate of 98%. Wren has extensive experience with staging and deploying largescale national rollouts.

History

Wren was founded in 1983 by Cliff Wren to manufacture housings for security systems. By 1993, Wren had greatly expanded its product line and began aggressively marketing to the rapidly growing security industry. Since that time, we have experienced continual business growth and now market complete video surveillance solutions Our business philosophy is two-fold—to provide premium products and superior customer service.

PROPERTY OF WREN

Page 1 of I

Doc MD 7-2-220-03 (9/21/06)

TERMS & CONDITIONS

Effective Date: February 1, 2008



Open Account

To establish an open account, the Customer must submit a completed credit application, three (3) current credit references a bank reference and a current financial statement (if available) to establish an open account the Customer thus: shortly a completed credit application, directly current credit relevance a sailt reference and a for approval prior to shipment. Customers that are not an open account may order and pay by certified funds, wire transfer C.O.D. or credit card

FILLING
All pricing is subject to change without notice. All shipments are billed at current prevailing prices. Only quotes in writing are binding.

rayment 1 erms

Standard terms are Net 30 days and require that an invoice amount be paid in full within this time. A specific condition for maintaining any Wren discount is prompt payment within the Net

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Standard terms are Net 30 days and require that an invoice amount be paid in full within this time. A specific condition for maintaining any Wren discount is prompt payment within the Net Standard terms are Net 30 days and require that an invoice amount be paid in full within this time. A specific condition for maintaining any vyren discount is prompt payment within the No. 30 term. Payment beyond the standard term may be cause for discounts and other program benefits to be rescinded. All accounts past due will be charged interest at the rate of 18% per appropriate that the payment beyond the standard term may be cause for discounts and other program benefits to be rescinded. All accounts past due will be charged interest at the rate of 18% per appropriate of other orders. Full conformance his West shall be decreased in the payment of the payment of the payment of the payment with a payment of the pay 30 term. Payment beyond the standard term may be cause for discounts and other program benefits to be rescinded. All accounts past due will be charged interest at the rate of 18% per annum or the maximum rate of interest allowed by law, whichever is the lesser. Invoices past due may result in non-processing of other orders. Full performance by Wren shall be deemed to have precured upon product shipment from Ween's place of hydrogen.

If litigation is required to enforce or defend any provision of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between Wren and a Curromer the constitution including reasonable attending to the position of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between Wren and a Curromer the constitution including reasonable attending to the position of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between Wren and a constitution of the contraction of the c In litigation is required to enforce or defend any provision of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between vivren and a Customer, the prevailing party in any such litigation shall be entitled to recover its costs and expenses related to the litigation, including reasonable attorneys fees from the non-prevailing to have occurred upon product shipment from Wren's place of business.

Custom and OEM Projects

A 50% deposit may be required in advance for all custom, special order and OEM orders. This deposit will not be refunded in the case of cancellation of purchase order. Pricing on this type A 30% deposit may be required in advance for an cuscom, special order and OEm orders. This deposit will not be retunded in the case of cancendum of pt. of equipment is non-discountable and may require additional time to quote and/or deliver. Custom special order and OEM products can not be returned.

Snipping

Orders will be shipped F.O.B., Wren Warehouse. For open accounts, Wren will prepay freight and add the amount to Customer invoice. Wren reserves the right to ship via carrier and orders will be shipped F.O.B., Wren Warehouse. For open accounts, Wren will prepay freight and add the amount to Customer invoice. Wren reserves the right to ship via carrier and orders will be shipped F.O.B., Wren Warehouse. For open accounts, Wren will prepay freight and add the amount to Customer invoice. Wren reserves the right to ship via carrier and orders will be shipped F.O.B., Wren Warehouse. For open accounts, Wren will prepay freight and add the amount to Customer invoice. Wren reserves the right to ship via carrier and orders will be shipped F.O.B., Wren Warehouse. For open accounts, Wren will prepay freight and add the amount to Customer invoice. Wren reserves the right to ship via carrier and orders will be shipped F.O.B., Wren Warehouse. For open accounts, when we have a supplied to the reserves of the rese Orders will be snipped r. J.B., vyren yvarenouse, ror open accounts, vyren will prepay treight and add the amount to Customer invoice, vyren reserves to manner of its choice, unless otherwise noted on purchase order. Orders must be received by 12:00PM C.S.T. for same day shipment (when stock allows).

- Discrepancies: Any discrepancies between packing slip and merchandise received must be reported within ten (10) business days of receipt of product.
- - recrandse: radiure to notify the appropriate party as described below may result in defial of the claim.

 Prepaid Freight: If damaged merchandise is received, keep all original shipping materials, packaging and documentation, and notify Wren within ten (10) business are trained to the control of the contr Damaged Merchandise: Failure to notify the appropriate party as described below may result in denial of the claim.
 - Collect/Third-Party Freight: Customer is responsible for filing a claim with carrier

Were warrants its products as set forth herein against any defects in material or workmanship if the product is used for the purposes for which it was intended. This warranty shall not apply

Were warrants its products as set forth herein against any defects in material or workmanship if the product is used for the purposes for which it was intended. This warranty shall not apply

Were warrants its products as set forth herein against any defects in material or workmanship if the product is used for the purposes for which it was intended. This warranty shall not apply

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This warranty extends solely to the original Customer purchasing the product. The original Customer cannot transfer the warranty to anyone who purchases the product from the original Customer unless specified in writing by Wesp. number invoice number and senai number (if applicable) or other illiorination allowing viven to identify the pro-for non-product services such as consulting or installation will be as set forth in the contract or purchase order.

Special Software evarranty

Wren's Software License Agreement and Maintenance and Support Agreement contain special warranty provisions applicable to software. Wren warrants that any software provided

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Wren's Software License Agreement and Maintenance and Support Agreement contain special warranty provisions applicable to software. Wren warrants that any software provided Customer unless specified in writing by Wren. Wren's Software License Agreement and Maintenance and Support Agreement contain special warranty provisions applicable to software. Wren warrants that any software provided with its products will not infringe the valid U.S. copyright of any third party. In the event that the software becomes, or in Wren's opinion is likely to become the subject of a claim of copyright infringement, Wren may at its option (a) replace or modify the software to make it non-infringing; or (b) terminate the software license and return a pro rata portion of the purphers price in either event Wren shall have no further lichility of any bind as the foresting are the licenses's sole remodiles related to any such infringement claim. copyright intringement, when may at its option (a) replace or month the software to make it non-intringing; or (b) terminate the software iterated to any such infringement claim, purchase price. In either event Wren shall have no further liability of any kind, as the foregoing are the licensee's sole remedies related to any such infringement claim.

Some Wren products and services may provide for warranties, support and procedures that differ from these general terms and conditions. In the event there is any difference or conflict between specific terms and conditions will govern.

Applicable Law, venue

Applicable Law, venue

The parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out of or pertaining to the business relationships between the parties agree that the interpretation and enforcement of this instrument. The parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out or or pertaining to the pusiness relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out or or pertaining to the pusiness relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out or or pertaining to the pusiness relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out or or pertaining to the pusiness relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out or or pertaining to the pusiness relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out or or pertaining to the pusiness relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out or or pertaining to the pusiness relationships between the parties agree that the interpretation and enforcement of this instrument, or any other instrument or claim arising out or or pertaining to the pusiness relationships between the parties agree that the interpretation and enforcement of the pusiness agree that the properties agree that the properties agree that the properties agree that the interpretation and enforcement of the properties agree that the interpretation are properties agree that the properti

LIMITATION OF LIADING.

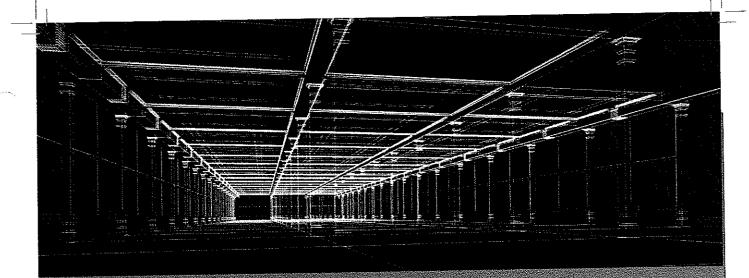
Under no circumstances (warranty or otherwise) will Wren be liable to the Customer for any amount over and above the cost of the product or service in question. Wren will not be liable to the Customer for any amount over and above the cost of the product or service in question. Wren will not be liable to the Customer for any amount over and above the cost of the product or service in question. Wren will not be liable to the Customer for any amount over and above the cost of the product or service in question. Wren will not be liable to the Customer for any amount over and above the cost of the product or service in question. Wren will not be liable to the Customer for any amount over and above the cost of the product or service in question. Under no circumstances (warranty or occerwise) will yearen de liable to the Lustomer for any amount over and above the cost of the product or service in question, everen will not be library for any loss of business down time damage or injury to property or person, or any other claimed consequence of an alleged defect in material or workmanship in a product or service.

Returns
In order to return parts to the factory for repair or credit, please call the factory at (800) 881-2249 or (573) 893-2249 to obtain a Return Authorization (RA) number. All returns are subject to order to return parts to the factory for repair or credit, please call the factory at (800) 881-2249 or (573) 893-2249 to obtain a Return Authorization (RA) number. All returns are subject to order to return parts to the factory for repair or credit, please call the factory at (800) 881-2249 or (573) 893-2249 to obtain a Return Authorization (RA) number. All returns are subject to order to return parts to the factory for repair or credit, please call the factory at (800) 881-2249 or (573) 893-2249 to obtain a Return Authorization (RA) number. All returns are subject to order to return parts to the factory for repair or credit, please call the factory at (800) 881-2249 or (573) 893-2249 to obtain a Return Authorization (RA) number. All returns are subject to order to return parts to the factory for repair or credit, please call the factory at (800) 881-2249 or (573) 893-2249 to obtain a Return Authorization (RA) number. All returns are subject to order to return parts to the factory for repair or credit, please call the factory at (800) 881-2249 or (573) 893-2249 to obtain a Return Authorization (RA) number. All returns are subject to order t in order to return parts to the factory for repair or credit, please call the factory at (800) 881-2247 or (3/3) 873-2247 to obtain a Keturn Authorization (KA) number. All returns are stude to Wren's RA Policy. Goods returned by the Customer for credit within 30 calendar days to Wren's RA Policy. Goods returned for credit should be in their original condition—new and unused. Merchandise may be returned by the Customer for credit within 30 calendar days to the provider of the condition of the co to wren's KA Policy. Goods returned for credit should be in their original condition—new and unused. Merchandise may be returned by the Customer for credit within from the invoice date. Products may not be returned more than 31 calendar days from the invoice date. Custom special order and OEM products may not be returned more than 31 calendar days from the invoice date.

Force majeure
Wren will not be responsible for any loss damage, or delay caused in whole or substantial part by natural or man-made disaster or act of God, labor strikes or disruption, or unavailability of products or delay in shipping.

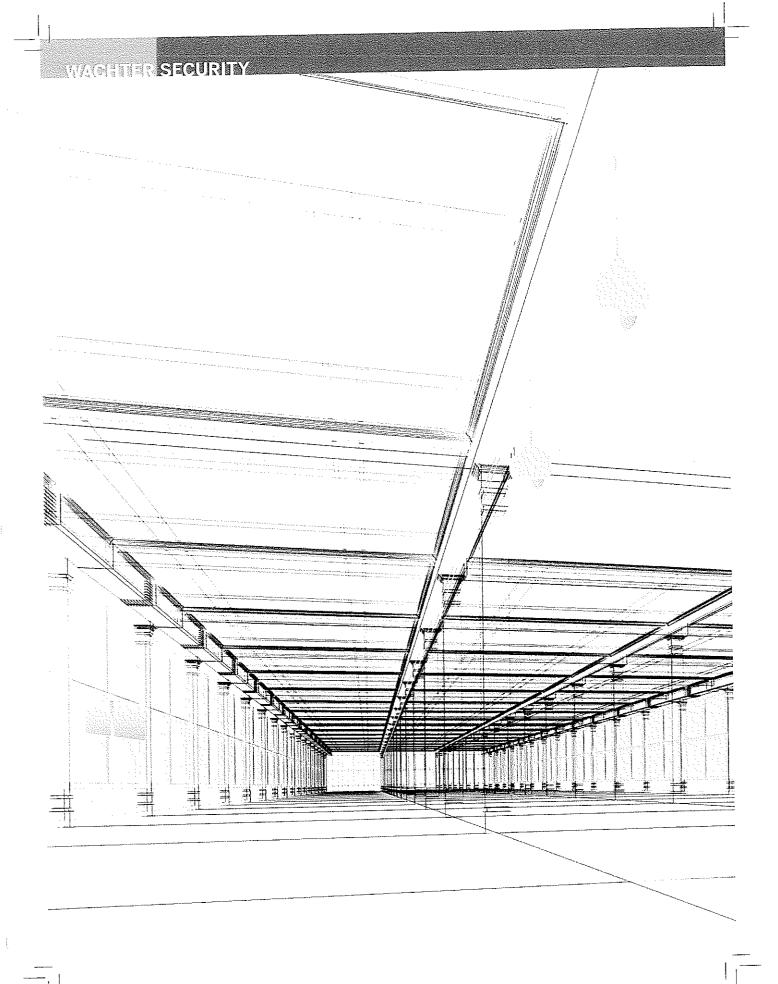
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Implementing technology, building trust



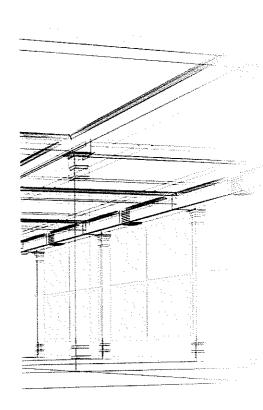


SECURITY CONVERGENCE

Call it convergence or call it integration security today follows the flow of information through both logical and physical environments reaching across people processes and technology to protect the business enterprise.

Private companies and public-sector organizations alike depend on TCP/IP networks, servers and digital storage media for the integration of logical security information security physical and personal security business continuity, disaster recovery and risk management. It is a comprehensive integrated approach and the payoff includes not only cost savings but brand protection and reduced liability

Wachter security professionals help your business stay current by offering in-depth expertise in the design installation, construction and management of integrated security control and monitoring systems. Our capabilities also include the design and installation of complex voice data and IP technologies on which today's advanced security systems are built, making Wachter a trusted single source for converged integrated security solutions.

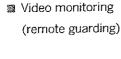


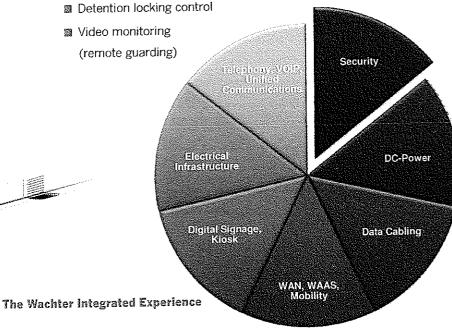
THE WACHTER APPROACH

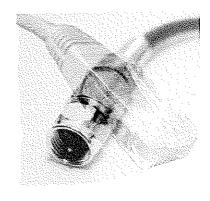
Wachter locks out the competition with its value-added consultative design techniques site surveys needs analyses comprehensive expertise and extraordinary service Whether your organization anticipates new construction or the need for an upgrade retrofit or technical support our unmatched ability to combine best-in-class equipment with leading-edge network technology and fulltime coast-to-coast W2 employees makes Wachter the nationwide vendor of choice for integrated security solutions.

Our integrated electronic security solutions are built around resilient backbones that feature the latest in information and network technology, including:

- IP network video
- Digital and networked video recorders (DVRs & NVRs)
- Video analytics
- POS integration
- Loss-prevention solutions
- Enterprise data-mining solutions
- Mobile wireless video and networks
- Detention locking control







Based on our customers' specialized needs. Wachter creates a custom service package structured around consultative design comprehensive supplier relationships and systems expertise that includes:

- Voice and data infrastructure
- Security and surveillance alarms
- Fire alarms
- Closed-circuit television
- **MATV**
- 図 CATV
- Emergency call systems (nurse call/man down)
- Access controls
- Biometrics
- Door control and monitoring
- Perimeter security
- Intercom
- Paging
- Integrated systems fabrication





Whether a project is turnkey – from estimate to design and engineering to systems fabrication installation and project management – or involves the service maintenance or inspection of existing systems our Wachter solutions design team will provide a cost-effective security solution and a single-point-of-contact client executive

CORRECTIONS AND DETENTION SECURITY

The Wachter security solutions team has more than 60 years of combined experience in the design construction systems fabrication and service of integrated security systems for detention and judicial facilities. Our strategic partner Logical Systems Incorporated, has provided site-specific software development for dozens of detention facilities across the United States and Puerto Rico resulting in the integration of multiple security systems over a common network that allows control and monitoring from a single console

PERIMETER SECURITY

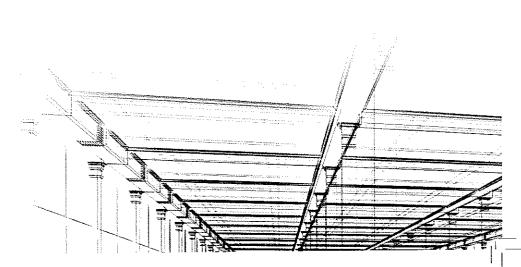
More than walls fences and razor wire modern perimeter security incorporates advanced technology such as digital video monitoring, microwave and passive infrared motion detection intrusion alarms and lethal and non-lethal protection systems. Wachter solutions extend across the complete technological spectrum including fence-mounted detection equipment and underground sensor systems that offer the full function – but not the look – of high-security environments.

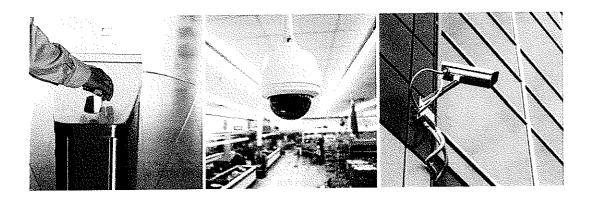
Sophisticated perimeter security systems are employed not just by government and correctional facilities but by some of the wolds largest business and commercial enterprises as part of an overall strategy to control loss and protect employees.

CORPORATE, INDUSTRIAL AND COMMERCIAL SECURITY

From department stores and medical centers to manufacturing complexes and financial centers companies across the globe have made security a strategic part of their business integrating safety and loss control with cost-effective operations. Video analytics, for example, can help to improve merchandising by determining customer flow and facilitating product placement. Multiple, locations can be monitored and controlled from a single central site resulting in decreased travel time, less customer and employee theft and reduced headcount. The right security solution can deliver not only improved safety and more effective loss control but a bonafide return on investment.





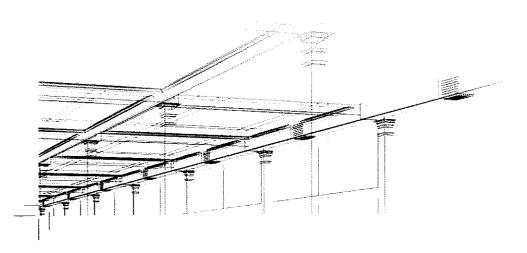


BUSINESS PARTNERS

To help deliver best-in-class service and technology Wachter teams with several leading companies in the security industry including Logical Systems Incorporated – an expert in security software development and systems fabrication. We are also affiliated with security market partners such as PSA and 1NService and have certifications from the National Institute for Certification in Engineering Technologies. In addition our employees are members of ASIS International the National Fire Protection Association and the American Correctional Association.

THE WACHTER SECURITY EXPERIENCE

In today's high-tech business environment security isn't just about locking doors. It's about opening them to the prospect of improved process control greater cost-effectiveness and enhanced reputation. Whatever your organization's security needs. Wachter has the right combination to deliver safety, loss prevention, access control and ROI.



WACHTER BUSINESS PARTNERS AND SUPPLIERS

AUDIO EQUIPMENT

AIPHONE
ATLAS SOUNDOLIER
BOGEN COMMUNICATIONS
QUAM NICHOLS
STENTOFON
TOA

FIRE ALARM

SIEMENIS

REPURENCE SECURITY

GDI MAGAL SENSTAR INC SOUTHWEST MICROWAVE

JANGRASTRUCTURE

ANXITER
BOGEN COMMUNICATIONS
COMSCOPE
CORNING
GENERAL CABLE
GRAYBAR
PANDUIT

DVE / NYE

BOSCH DELL DIGIOP IBM MARCH NETWORKS PELCO VERINT 3VR

IP CAMERA SOFTWARE

CISCO
IBM
MARCH NETWORKS
MILESTONE
ONSSI
VERINT
VIDEO IO
VIDEO NEXT
VIDEO PROTEIN
PELGO
WREN SOLUTIONS

CAMERAS IP / ANALOG / ICVR

AXIS
BOSCH
CIEFFE
IQINVISION
KT&C
PELCO
VICONS
VIDEOIO

ACCESS CONTROL

AMAG BOSCH BRIVO GE SECURITY HID HIRSCH ISGNAS

REPRORKS

CISCO BELDEN FIRETIDE NORTEL NYT PIVOTS TROPOS VIDEOLARM

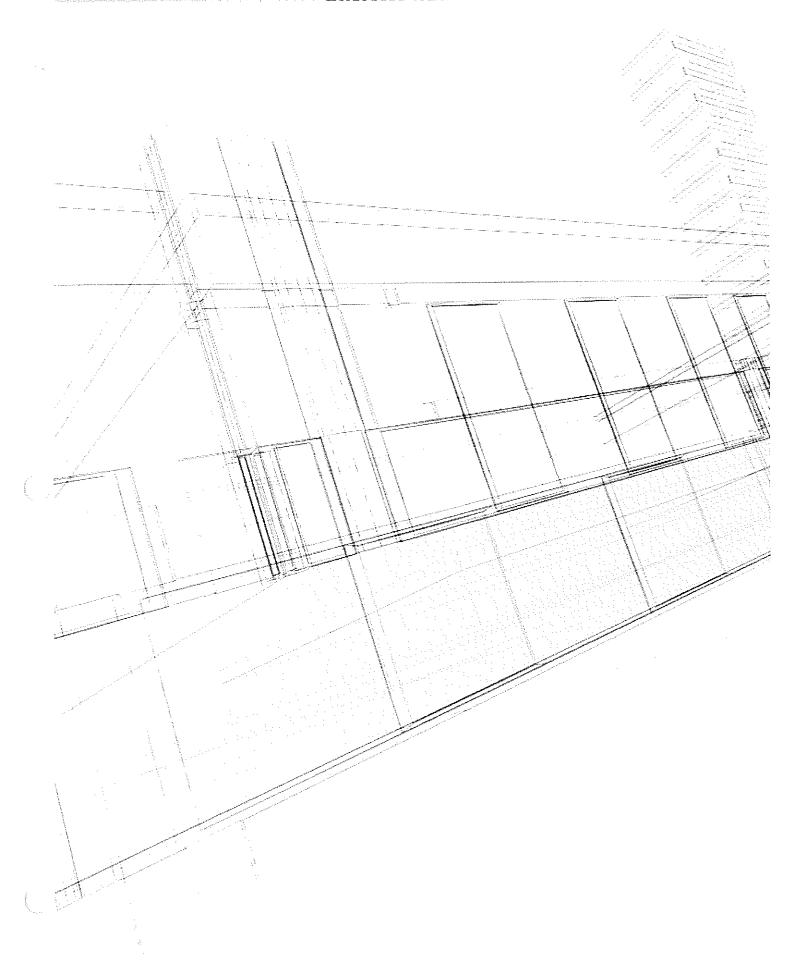


LENEXA, KANSAS LOWELL, ARKANSAS IRVINE: CALIFORNIA CHARLOTTE, NORTH CAROLINA DALLAS, TEXAS FT LAUDERDALE, FLORIDA BREADFORD LUK

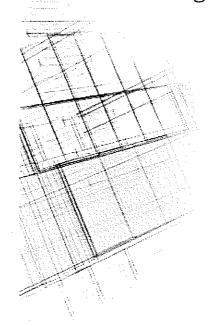
WACHTER CORPORATE HEADQUARTERS 16001 W. 99TH STREET LENEXA, KANSAS 66219-1293 913-541,2500 www.wachter.com



Implementing technology, building trust

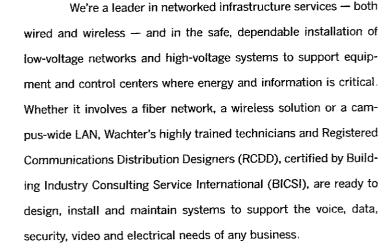


Voice, data, security, intelligent-building systems and power are converging to form a single, networked flow of energy and information.

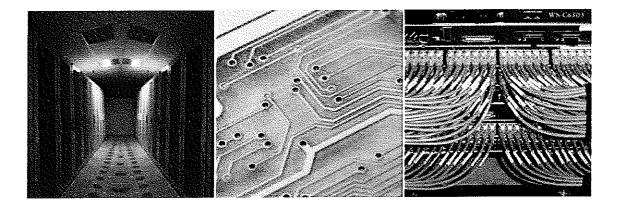


From high-speed transaction processing to the control and monitoring of energy consumption and building security, 21st-century businesses are leveraging that convergence to optimize production, reduce time to market, acquire new customers and gain a competitive advantage. And more and more they're depending on Wachter to help them get the job done right.... the first time.

Headquartered in Lenexa, Kansas, Wachter has been building trusted relationships with clients since 1930. Its reputation is built on the high-quality design, implementation and support of technology and power solutions, in single buildings or over thousands of locations across the continent.







Factories, data centers, call centers, distribution centers, corporate offices and retail branch locations nationwide rely on us to:

- Simplify nationwide rollouts of new technology and power
- Streamline technology deployment at new locations
- Support existing systems through move, add, change and service agreements

Wachter customers also benefit from the superior service afforded by our highly trained employee workforce, GPS-equipped fleet of vehicles, online dispatch-management system and four-hour nationwide emergency response capability. In addition, our ability to provide on-demand ticket status, reports and other project deliverables has been commended by Fortune 500 businesses from London to Los Angeles.

In meeting those demands, Wachter also maintains an abiding respect for the environment. Our company is committed to Leadership in Energy and Environmental Design (LEED) accreditations and green building practices, as well as to the design and installation of energy-management and intelligent-building systems.

6

NETWORK SOLUTIONS

Wachter's structured cabling-system solutions provide the foundation for high-quality voice, data, security, video and intelligent building systems and our BICSI-certified RCDD professionals are exceptionally experienced in dealing with:

- Single and multi-mode fiber desktop and backbone systems
- AutoCAD and Visio design, plus as-built deliverables
- Manufacturer-certified extended warranties
- 302 11 wireless LAN surveys, design and installation
- Mobile wireless and technology design

VOICE AND TELECOM SOLUTIONS

As voice and data converge onto a single IT network, Wachter has become a trusted onestop source for cutting-edge, end-to-end voice-over IP and wireless telephony solutions. Our design, installation and maintenance products and services include:

- VOIP and legacy voice systems
- Paging and unified communications
- EF&I services for central-office and cellular equipment installations
- Uninterruptible power supplies, power generators and fuel cells
- DC rectifiers and battery plants

SECURITY SOLUTIONS

In response to growing concerns about safety, theft and potential liability, Wachter also offers design and installation of a wide variety of security solutions for commercial and institutional facilities. Security applications are built around resilient backbones that feature the latest in information and network technology, including:

- CCTV cameras, DVRs and NVRs
- Video analytics
- Mobile wireless security
- Access- and perimeter-control systems
- Monitoring and fire alarm systems

ELECTRICAL SYSTEM SOLUTIONS

Voice, data, video, building management and security. They're the high-tech network applications for today and tomorrow. But without electricity to bring them to life, they re just hardware and code. Wachter also brings the power, with trusted commercial and industrial electrical system capabilities such as:

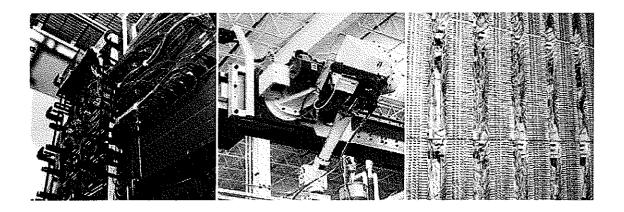
- Electrical system design and engineering using LEED and Building Information Modeling (BIM)
- Intelligent-building systems design
- Commercial and industrial electrical installation
- Electrical maintenance and service
- Generator and UPS installation
- Lighting audits, controls and retrofits

Our electricians and engineers also specialize in the design and installation of controls and instrumentation for applications such as:

- Manufacturing scheduling
- Process-control and instrumentation design
- RFID tracking and sorting
- Process integration

SOLUTION DESIGN

To ensure that we provide our clients with a high-quality solution, Wachter utilizes an internal group of technical specialists to assist with the design and implementation of customer projects. It's one of the first steps in our customer-relationship-management (CRM) process, which includes defining client requirements for materials, design, documentation, workmanship accounting and project management.



For complex electrical design-build projects, Wachter utilizes BIM software to create 3-D designs, a process that increases project collaboration, minimizes changes or rework and improves onsite productivity. The result: lower costs, improved quality and satisfied customers

EDUCATION, TRAINING AND QUALITY ASSURANCE

CRM standards are maintained throughout the work schedule with the help of education and training plans specifically developed for teams and individuals assigned to a project. Each Wachter participant is required to complete training in order to receive project certification. Based on established quality standards, a project checklist is developed and an audit is performed by a senior Wachter technician, a process that ensures consistency and verifies every requirement has been met or exceeded.

THE WACHTER EXPERIENCE

By consistently delivering on our commitments, we've been successful in establishing longterm customer relationships built on quality, trained professionals and trust. It's a formula that for the past eight decades has helped Wachter set the standard for nationwide delivery of technology and power.

