REQUEST FOR ACTION

DATE: **July 25, 2023**

x REQUEST FOR ACTION

_____ FOR YOUR INFORMATION

_____ REQUEST FOR INFORMATION

TO: Commissioners

FROM: Moses Sanzo, County Controller/Administrator

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SUMMARY OF REQUEST / INFORMATION: The County recently issued an RFP for the Re-Cabling and New Camera Technology Project at the Jail. This not only requires an improved technology cabling for the building, similar to what was completed at the Complex, but also to replace the antiquated camera and video equipment. Mike Bartley, our contracted technical support, lead the project to establish the specifications and issued the RFP a few months ago. He, along with the County Administrative and Sheriff's Department staff, met with the potential vendors and are making a recommendation based on the qualified bids and subsequent meetings, as this is a very complicated technical project involving various components to be sure they would be compatible.

ADDITIONAL INFORMATION:

CONTACT PERSON(S): Moses Sanzo, Controller; Jackie Arnold, CFO; Mike Bartley, ASI; Undersheriff Mike Odette and Steve Beebe, Jail Administrator.

BACKGROUND INFORMATION:

SUPPORTING DOCUMENTS: RFP & Supplemental Documentation

DRAFT MOTION(S):

Motion by _____, supported by _____, pursuant to the RFP process and subsequent review and interviews with the potential vendors of the submitted bids, to accept and award the Camera & Cabling Services Project as follows,

C&R electric:	**Not to exceed $ 260,000**
IT upgrades:	**Not to exceed $ 30,000**
Cornerstone:	**Not to exceed $ 50,000**

for a total not to exceed $416,000.00 ($340,000 plus a 20% contingency of $76,000), to be paid from the ARPA Fund 281 (expense category 6.1).

ATTACHMENTS YES X NO_____

PROJECT NAME	Structured Cabling & Video Survaliance Camera
LOCATION	Lapeer County Sheriff Department
BID DATE	5/31/2023
RFP NO.	2023-0-14

REF NO.	LAP NO.	ITEM DESCRIPTION	BID Cable & Camera	BID Old Cable Removal	TOTAL BID
1	1.001	Security Design, Farmington Hills MI	$ 195,056.00	N/A	$ 195,056.00
2	1.002	Professional Cabling Solutions, Troy MI	$ 258,828.33	N/A	$ 258,828.33
3	1.003	Vector, Freeland MI	$ 264,300.00	$ 5,200.00	$ 269,500.00
4	1.004	Superior Electric, Troy MI	$ 585,555.00	N/A	$ 585,555.00
5	1.005	Electronic Safety Inc. St. Clair Shores MI	$ 216,077.25	N/A	$ 216,077.25
6	1.006	I2G Systems, Plymouth MI	$ 254,883.20	$ 6,650.00	$ 261,533.20
7	1.007	C&R Electric, Troy MI	$ 253,275.00	Yes	$ 253,275.00
8	1.008	Convergint, Grand Rapids MI	$ 248,178.60	$ 9,175.00	$ 257,353.60
9	1.009	Thumb Communication Services, Lapeer MI	$ 330,512.85	$ 5,200.00	$ 330,512.85
10	1.010	Teoma Systems, Troy MI (Structured Cable Only)	$ 83,827.28	Yes	$ 83,827.28

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May 31, 2023

Lapeer County Jail
Attn: Lt. Steve Beebe
3231 John Conley Dr.
Lapeer, Mi 48446

Project:
Network Cabling Project and Video Surveillance Camera, RFP# 2023-0-14

Proposal

C & R Electric, L.L.C. is pleased to submit a proposal for the above referenced project wired to meet the National Electrical Code requirements with specifications up to but not to exceed the following:

Structured Cable Base Bid:

- Demo & disposal of existing network cabling
- Demo & disposal of existing camera system.
- Furnish & Install 207, CAT6A (Hubbell C6ASPDSB) network drops. Terminated and tested. Structured cabling and connectors (Hubbell Keystone HJU6ABK & HJU6AP)
- Furnish & Install 53 Indoor cameras (Vicon Security V2105D). Licensed, Terminated, and tested.
- Furnish & Install 14 Outdoor cameras (Vicon Security V2105D). Licensed, Terminated, and tested.
- Furnish & Install 13 Multi-Sensor 360 cameras (Vicon Security V2020). Licensed, Terminated, and tested.
- Furnish & Install 12 Corner cameras (Vicon Security V-CELL-HD-C). Terminated and tested.
- Furnish & Install 1 Multi-Sensor 360 camera (Vicon Security V2020). Terminated & tested.
- Furnish, Install, and Configure NVR (Network Video Recorder) specific to the **Interview-Admin Area.**
- Furnish, Install, and Configure NVR (Network Video Recorder) per specification of Video Surveillance overall system.
- Provide Vicon Security camera system training with Lapeer County Jail Staff.
- Provide Hubbell Certification in regard to the 25-year warranty on the certified connection.
- Material, Labor, and Permit included.

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Installation Warranty Information:

C & R Electric, LLC will replace or repair any defect in any material or workmanship installed by us in reference to the Network Cabling Project and Video Surveillance for Lapeer County Jail.

The warranty is valid for one year from the date of substantial completion. The substantial completion date will be determined during the initial kick-off meeting of the project.

Hubbell Premise Warranty:

Mission Critical Warranty: The Hubbell MISSION CRITCAL® program gives you an assurance of system success with a 25-year guarantee on the components, performance, and installation integrity of your structured cabling system. Link provided of sample document that will be used as a template for this project.
https://hubbellcdn.com/ohwassets/HCI/Premise/mission_critical_forms/WarrantySample.pdf

Vicon Security Warranty:

Vicon Industries Inc. (the "Company") warrants your equipment to be free from defects in material and workmanship under Normal Use from the date of original purchase for a period of **three years**, with the following exceptions: For more information on product warranty please visit: https://www.vicon-security.com/learn-and-support/vicon-product-warranty/us-product-warranty/

Vicon Industries Inc. (the "Company") warrants the Valerus server for **five years**. Vicon IP cameras provides a five-year warranty from the original date of purchase. https://www.vicon-security.com/learn-and-support/vicon-product-warranty/us-product-warranty/

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I, Tim Griffith Technical Sales Specialist for C&R Electric, LLC, is authorized to provide this bid proposal, and may bind the company under contract if selected per the Vice President Kyle Sponseller.

Base Bid:

Two-Hundred Fifty-Three Thousand Two Hundred & Seventy-Five Dollars = $253,275.00

Base Bid Breakdown:

- Structured Cabling: CAT6 Network Drop = $325.00 per network drop
- Video Surveillance: Basic 5 Megapixel Dome Camera & Installation = $2,000.00 per camera

Thank you,

Tim Griffith
Technical Sales Specialist

491 E. Wright Ave. • Shepherd, MI 48883 • (989) 828-4020 Phone • (989) 828-4089 Fax
5008 W. Lincoln Road • Alma, MI. 48801 • (989) 463-5134 Phone • (989) 463-3054 Fax

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Corporate Information

1. **Company Overview:**

C & R Electric LLC is a reputable electrical contracting company that has been providing top-notch services to customers since 2005. Our company's mission is to offer superior electrical solutions to our clients while maintaining the highest levels of professionalism, integrity, and quality workmanship.

Our team of skilled electricians are passionate about delivering reliable and efficient services to all our clients. We offer a diverse range of electrical services, including residential, commercial, institutional, government, industrial, agricultural, and renewable energy solutions. In addition, **our team includes technology experts who specialize in structural cabling, security, audio-visual, fire alarm, servers, and network electronics.** We also have an experienced professional engineering staff that can provide comprehensive sealed MEP engineering drawings, as well as advanced services such as VDC, BIM, 3D scanning, and prefabrication. We take pride in staying current with the latest industry trends and technologies to ensure that we deliver a cost-effective innovative solution to meet our client's needs.

2. **Company Profile:**

- C&R Electric, LLC has continued to grow since 2005.
- Our office is located in Shepherd, Michigan.
- We will be managing this project from our office in Shepherd.
- C&R Electric, LLC currently has 82 employees.
- Our technology team is made up of the following qualifications: Professional Engineer (P.E.), Computer/Systems Engineer, 2 - Senior Technicians, 6 - Technicians, Project Manager, and Project Coordinator.

3. **Qualifications:**

a) C&R Electric, LLC system of quality control is based on several factors. First and foremost is adhering to the NECA (National Electrical Contractors Association) standards and workmanship. Every project that we are awarded has a Project Manager, Foreman, Project Coordinator, and

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Technician(technicians). During the project we utilize various documentation/tools to ensure that the project is efficient and on time.

b) **References:**

Breckenridge Community Schools – Security Cameras

Designed and installed a corporation wide security camera system. Cameras installed to monitor Breckenridge Elementary School (interior and exterior), Breckenridge Middle School / High School (interior and exterior), and Football Stadium (exterior).

Project Cost: $ 130,000.00

Breckenridge Community Schools
700 Wright St.
Breckenridge, MI 48615
Phone 989-842-3182
Superintendent: Wade Slavik

Fulton Schools

Design and installation of technology packages including AV, Paging, Wireless, and Cameras. We were brought into the project after a complicated relationship with a technology consultant did not work out. We were given a list of already purchased materials and requested to design and implement a cost effect solution to fit in with their budget.

Project Cost: $ 100,000.00

Fulton Schools
8060 Ely Hwy.
Middleton, MI 48856
Phone: 989-236-7300
Superintendent: Tom Torok

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4. **Scope of Services and Proposed Project Schedule:**

Work Plan:

Scope of work for the Network Cabling Project and Video Surveillance Camera System. deliverables provided to Lapeer County Jail. We will follow the process below to provide the deliverables on the scope.

Intro

Meet with the Lapeer County Jail administration team to understand the detailed requirements of project and schedule. Provide contact information of the team that will be assigned to the project. Information and take-aways will focus on prioritization of various areas in the county jail building. Also establish a timeline and completion date.

Network Cabling:

- We will provide approximately 207 network drops to various locations throughout the jail.
- We will verify all locations provided on the drawings. Also, we will meet with the administration to coordinate the various areas of installation and provide an agreed upon schedule.
- Terminate, test, and certify all connections. We will provide a final report in our closing documents of each connection test and

Video Surveillance

- We will provide 92 licensed cameras (No re-occurring licensing required). placed, programmed, and labelled. (Naming convention to be discussed with administration. Cameras are as follows:
  - Furnish & Install 53 Vicon V2105D inside the building.
  - Furnish & Install 12 Vicon V2105D outside of the building.
  - Furnish & Install 1 Vicon V2020 Multi-Sensor at Outside Northwest Corner. (***This will take the place of two cameras at that corner of the building***).
  - Furnish & Install 13 Vicon V2020 Multi-Sensor Cameras for zoom and panoramic views if needed.
  - Furnish & Install 12 Vicon V-CELL-HD-C holding/confinement cells.
  - ***Furnish & Install 1 Vicon V2020 Multi-sensor Camera for the Interview Admin Area.***
- Furnish, Install & Configure Vicon Valerus NVR (Network Video Recorder) per specifications spelled out in the RFP. This NVR will be provided for all cameras except the Interview Admin Area.

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- Furnish, Install, & Configure a separate Vicon Valerus NVR (Network Video Recorder for the Interview Admin Area – Programmed to the specifications with 60-90 days of storage if needed.

- ***NO SUBCONTRACTORS WILL BE UTILIZED ON THIS PROJECT***

Insurance Requirements:

Insurance and all pertinent documents will be provided prior to the commencement of project start date to the Lapeer County Sheriff's Office.

Lapeer County Jail Handoff:

Project hand-off is very important in the entire process of creating a functional solution. This process will involve providing equipment documentation, solution documentation, training documentation and training. A secondary training may be needed to ensure that all administrative staff and IT. C&R Electric and Vicon Factory Representative will schedule this training immediately after installation of the Network Cabling and Video Surveillance projects are complete.

Hubbell Premise Wiring
Mission Critical Warranty and System Performance Warranty Program
Customer Agreement

This Agreement is effective beginning on **Month Day and Year** by and between Hubbell Premise Wiring, ("HPW") a division of Hubbell Incorporated (Delaware), incorporated under the laws of the State of Delaware, with offices at 40 Waterview Drive, Shelton, Connecticut, 06484, with offices at (Certified Installer). with offices at and (End User).

Recitals

A. HPW is engaged in the design, manufacture and sale of UTP, STP and Optical Fiber Connecting Hardware for use in structured cabling systems ("Structured Cabling Systems") consisting of items identified in HPW's current catalog and brochures.

B. HPW has initiated a Certified Installer Program to select and designate cabling system installation companies that design and install Structured Cabling Systems and meet and maintain compliance with the requirements of HPW's Certified Installer Agreement.

C. HPW and Wire and Cable Partner intend to offer, subject to the terms and conditions of this Agreement, a twenty-five (25) year warranty solely to the end-user of the Structured Cabling System in accordance with the terms and conditions of the "Hubbell Premise Wiring Channel Warranty and System Performance Warranty Program" certificate attached hereto as Exhibit "A" and made a part hereof (the "Warranty Certificate"). Subject to its terms and conditions, such Warranty Certificate provides that HPW and Wire and Cable Partner warrant solely to Customer that the structured cabling system links/channels consisting of HPW's new connecting hardware products and Wire and Cable Partner's new cable products installed as part of an HPW structured cabling system (1) are free from defects in materials and workmanship (2) will meet the applicable ANSI/TIA/EIA and ISO/IEC link*/channel transmission requirements in effect at the time of the installation and (3) will support any current or future application ratified by IEEE, ANSI, or ISO, designed to operate over the applicable ANSI/TIA/EIA-568-C, ISO/IEC 11801, Category 5 (Class D) link/channel, or link/channel compliant to the Category 5e, Category 6 (Class E), Category 6A (Class E_A) and/or optical fiber draft or standard in effect at the time of the installation.

*Channel Warranty – Hubbell Premise Wiring will provide system performance warranty provided the customer purchases and installs Hubbell Premise Wiring patch cords. If patch cords from any manufacturer other than Hubbell Premise Wiring are installed, the application assurance warranty is void.

D. The warranty referred to in Recital "C" above is backed by an extended twenty-five (25) year warranty from HPW's Certified Installers in accordance with HPW's Certified Installer Agreement. Subject to its terms and conditions, such Certified Installer Agreement provides that the Certified Installer warrants that it has properly designed, installed, documented and tested systems in accordance with ANSI/TIA/EIA-568-C, '569-B, TSB-67, TSB-95, TSB-155, the applicable Category 5, 5e, 6, 6A and optical fiber drafts or standards in effect at the time of installation, ISO/IEC 11801 Class C, Class D, Class E, ClassE_A or EN 50173 specifications, HPW specified requirements of ANSI/TIA/EIA 606-B, approved Optical Fiber, Category 5, 5e, 6, 6A Wire and Cable Partner's guidelines and HPW's Training Manual.

E. HPW will be provided with certain warranties (twenty-five years) for category 3, 5, 5e, 6, 6A and/or Optical Fiber of at least the same duration as HPW's extended warranties as outlined above from HPW's approved Wire and Cable Partner for cable utilized in Structured Cabling Systems in accordance with all applicable standards, such as ANSI/TIA/EIA-568-C, ISO/IEC 11801, or EN 50173, or category 3, 5, 5e, 6, 6A and/or optical fiber draft or standard in effect at the time of installation, in accordance with the terms and conditions set forth herein.

F. Wire and Cable Partner is a manufacturer of UTP, STP and/or Optical Fiber Cable that desires to be designated an approved HPW Wire and Cable Partner and participate in our Mission Critical Warranty and System Performance Warranty Program.

In consideration of the mutual promises and undertakings stated herein, HPW and approved Wire and Cable Partner, and Customer agree, each with the other as folows:

1.0 Certification Conditions

1.1 The Structure Cabling System has been designed and installed by a HPW Certified Installer and each link or channel has received a "PASS" indication when tested to the appropriate category requirements using a Level II, Level IIe, Level III, Level IIIe compliant hand-held tester.

1.2 The Customer/End-user shall purchase new approved HPW and Wire and Cable Partner products. All such products shall be purchased through Authorized Distributors of HPW and approved Wire and Cable Partner(s).

1.3 The Structured Cabling System will be designed, installed and tested in accordance with the current ANSI/TIA/EIA Standards documents: '568-C, '569-B, '606-B and TSB-67, TSB-95, TSB-155 HPW Training Manuals, Wire and Cable Partner's recommended guidelines, new HPW products, and new wire and cable products.

1.4 The Channel/Link warranty (Reference Exhibit 'A') covers the Structured Cabling System including work area outlets, horizontal cable, the connecting hardware in the horizontal cross-connect, the equipment cord at the work area, and the patch cord in the horizontal cross-connect as outlined in Exhibit A. It specifically excludes any active network equipment, public network interfaces, terminal equipment and installation labor.

1.5 Only those category 5e, category 6, category 6A links/channels that receive a PASS indication from a Level IIe, Level III or level IIIe tester that is tested for all parameters required by ANSI/TIA/EIA-568-C shall be included in the warranty. All copper channels receiving a FAIL indication shall be excluded from the warranty coverage. Only those optical fiber channels whose optical attenuation data is shown to be under the maximum allowed limit for a channel of that length will be covered by the warranty.

1.6 Both the Mission Critical Warranty and system performance warranty are non-transferable and apply only to the original Customer.

1.7 The Structured Cabling System must be registered through HPW's Mission Critical Warranty and System Performance Warranty Registration Process.

1.8 The Structured Cabling System must be maintained in accordance with ANSI/TIA/EIA '568-C, TSB-95, TSB-155, '569-B, and '606-B and ISO/IEC 11801 Standards guidelines. The Mission Critical Warranty and system performance warranty is void without such maintenance.

1.9 Moves, adds and changes to the Structured Cabling System after the original, approved installation has been completed must be registered with HPW and are subject to the terms and conditions of this Agreement. All such moves, adds and changes will be documented with HPW's Certified Installer and must be completed by a HPW Certified Installer. Unregistered moves, adds, and changes ("MAC's") or other alterations to the Structured Cabling System shall void the warranty for that portion of the Structured Cabling System that was altered and any other portion indirectly impacted by such MAC's.

1.10 Modification to HPW products and Wire and Cable Partner's products will void the warranty.

1.11 HPW reserves the right to deny system certification for Structured Cabling Systems not properly designed and installed to the requirements of this Agreement.

1.12 The Mission Critical Warranty and System Performance Warranty shall not apply to any HPW Structured Cabling System that has been damaged by, or fails due to accident, neglect, misuse, abuse, modification, causes other than ordinary use, or any other cause beyond HPW's control.

1.13 In the event that issues, disputes, claims and/or problems cannot be resolved with the selected HPW Certified Installer, the Customer may select, with HPW's prior, written concurrence, another HPW Certified Installer and maintain the warranty.

2.0 Warranty

2.1 HPW will issue a warranty as set forth in "Exhibit A" for installations meeting the criteria outlined in sections 3.1 and 3.2.

3.0 Certification/Registration Process

3.1 A HPW Certified Installer will submit on behalf of the Customer (by completing a "Structured Cabling System Registration Request Form") installations that comply with the appropriate standards as outlined in the recital section of this Agreement, and HPW's Training Manual, and which utilize new HPW products and new, approved Wire and Cable Partner's products.

3.2 In addition to the Structured Cabling System Registration Request Form, the Certified Installer shall also submit a Horizontal Schematic, Backbone Schematic, appropriate horizontal and backbone copper cable test records with a "PASS" indication for the appropriate category obtained by utilizing a certified Level II, IIe, III and IIIe test unit on all installed links or channels, on a CD, and appropriate horizontal and backbone optical fiber cable test records. HPW and Wire and Cable Partner reserve the right to inspect the Structured Cabling System prior to issuing any warranty.

3.3 After review of Structured Cabling System design and test results that are in compliance with all referenced requirements, HPW will strive to issue Mission Critical Warranty and System Performance Warranty documents within 60 days after complete installation documentation is received from the Certified Installer.

4.0 Claim Procedure

4.1 Claims from Customer shall be forwarded in writing to Certified Installer immediately after discovery of failure, detailing the extent of problem. The customer must rule out any active device failures (NIC's, switches, etc.) or any other device outside the scope of the Link/Channel prior to submitting claims. Certified Installer will notify HPW and Wire and Cable Partner of all Warranty claims by faxing to HPW and Wire and Cable Partner a copy of the "Structured Cabling System Claim Form". Certified Installer shall investigate and diagnose the claim and advise HPW and Wire and Cable Partner in writing of specific test procedures, results, and conclusions, along with recommendations to resolve the problem(s).

4.2 Should the Certified Installer determine that a claim is not covered by a HPW warranty, or is outside of the specified warranty time frame (25 year) as outlined in the recital section, the Certified Installer will notify HPW and Customer and reserves the right to bill the Customer for all costs to investigate the claim.

4.3 HPW and Wire and Cable Partner will work with the Certified Installer to resolve valid warranty claims. HPW and Wire and Cable Partner reserve the right to perform an onsite installation inspection to verify the cause of the defect. The inspection right, if exercised, will be completed within a reasonable time after notification of a claim.

4.4 In the event a claim is within the scope and coverage of the issued Warranty Certificate and has been caused by defective or non-performing HPW product(s), then subject to Section 4.9 below, HPW will reimburse the Certified Installer for reasonable costs associated with claim resolution based on prevailing industry rates to repair or replace the defective or non-performing HPW product(s). All claim related repair labor must be approved in advance in writing by HPW and Certified Installer will provide HPW with a firm price for such work. HPW reserves the right to have warranty repair labor quoted by and awarded to other qualified installers. HPW agrees to work directly with the Certified Installer or other qualified installer to resolve any such claims and agrees to cooperate with such installer to resolve the claim within a reasonable time frame to the extent possible.

4.5 In the event a claim is within the scope and coverage of the issued Warranty Certificate and has been caused by defective or non-performing Wire and Cable Partner product(s), then subject to Section 4.9 below, Wire and Cable Partner will reimburse the Certified Installer for reasonable costs associated with claim resolution based on prevailing industry rates to repair or replace the defective or non-performing Wire and Cable Partner product(s). All claim-related repair labor must be approved in advance in writing by Wire and Cable Partner and the Certified Installer will provide the Wire and Cable Partner with a firm price for such work. If the Certified Installer that originally installed the Structured Cabling System is uncooperative or its rates are uneconomic in Wire and Cable Partner's good faith judgment, Wire and Cable Partner reserves the right to have warranty repair labor quoted by and awarded to other qualified Hubbell Premise Wiring Certified Installer. Wire and Cable Partner agrees to work directly with the Certified Installer or other qualified installer to resolve any such claims and agrees to cooperate with such installer to resolve the claim within a reasonable time frame to the extent possible.

4.6 In the event a claim is covered by a HPW warranty and it is determined to have been caused by, or was the result of, actions of the Certified Installer then the Certified Installer shall repair the Structured Cabling System and/or product or replace the product at the Certified Installer's sole cost and expense.

4.7 In the event Certified Installer and Customer disagree with respect to whether the claim is within the scope of this Agreement, HPW and the approved Wire and Cable Partner reserve the right to investigate, determine and resolve the situation within the terms and conditions of this Agreement.

4.8 If it is determined that the Structured Cabling System cannot be repaired to operate as originally intended, the party responsible for the non-performance or defect will at its own cost and expense reimburse the Customer through refund or credit for a prorated portion of the price paid by the Customer for the responsible party's products in the Structured Cabling System calculated for the balance of the warranty from the date of failure.

4.9 In the event that the parties cannot agree with respect to the cause of the defect and/or which party is responsible for corrective action, the parties agree to submit the issue to an individual expert mutually appointed by them. The expert will be an RCDD certified Consultant and/or Installer or has similar credentials. The expert will render a decision that all three parties (Certified Installer, HPW, Wire and Cable Partner) shall accept as final and binding. The party determined to be have been at fault shall bear all costs for the expert determination and repair costs.

4.10 The Certified Installer shall be solely responsible for all costs associated with repairs or replacements for warranty claims that are determined by HPW and/or the Wire and Cable Partner to have been the result of a non-standards compliant design or incorrect installation practice.

5.0 Force Majeure

5.1 HPW, approved Wire and Cable Partners, and Certified Installer shall not be held accountable for delays or failure to perform any obligation of this entire Agreement resulting from an unforeseen development, Act of God, or any other cause beyond its control.

6.0 Assignment

6.1 The Mission Critical Warranty and System Performance Warranty Program is non-transferable and applies solely to the original Customer and original installation.

7.0 Waiver

7.1 The failure by either party to enforce any provision of this Agreement shall not be construed to be a waiver of any future breach or any other provision herein.

8.0 Interpretation

8.1 This Agreement constitutes the entire agreement between the parties and it is understood and agreed this Agreement supersedes all prior arrangements or understandings, whether oral or written between HPW and Customer. There are no other terms and conditions or obligations, oral or expressed, other than those contained herein. This Agreement may not be changed, modified or altered unless in writing signed by all parties.

8.2 The parties agree that acceptance or acknowledgment of any act or performance not consistent with the terms of this Agreement shall not affect the remaining terms or be perceived as an approval of such acts.

9.0 Choice of Law

9.1 This Agreement shall be governed by and interpreted according to the laws of the State of Connecticut. Any disputes hereunder or relating hereto are subject to the jurisdiction of the courts of the State of Connecticut. In the case of a claim or controversy resulting from this Agreement, the prevailing party shall be entitled to recover reasonable attorney fees and costs associated with litigation.

Hubbell Premise Wiring

Hubbell Premise Wiring
40 Waterview Drive
Shelton, Connecticut 06484

Signature
Name: Michael R. O'Connor RCDD/NTS
Title: Senior Director Datacom Marketing
Dated:
Phone: 475-882-4930
Fax: 203-882-4849

Certified Installer

Signature: _____
Name:
Email:
Dated: _____
Phone:
Fax:

Approved Wire and Cable Partner

Signature: No signature required
Name:
Title:
Dated:
Phone:
Signature: No signature required

Customer

Signature: _____
Name:
Email:
Dated: _____
Phone:
Fax:

EXHIBIT A

HUBBELL PREMISE WIRING
LINK/CHANNEL* WARRANTY AND SYSTEM PERFORMANCE WARRANTY PROGRAM

Hubbell Premise Wiring ("HPW"), a division of Hubbell Incorporated (Delaware), and its Wire and Cable Partner warrant solely consisting of HPW's new connecting hardware products and Wire and Cable Partner's new cable products installed as part of an HPW structured cabling system at such site ("Structured Cabling System") (1) are free from defects in materials and workmanship (2) will meet the applicable ANSI/TIA/EIA and ISO/IEC link/channel transmission requirements in effect at the time of the installation and (3) will support any current or future application ratified by IEEE, ANSI, or ISO, designed to operate over the applicable ANSI/TIA/EIA-568-C, ISO/IEC 11801,Category 3 (Class C), Category 5 (Class D) link/channel, or link/channel compliant to the Category 5e, Category 6 (Class E), Category 6A (Class E_A) and/or optical fiber draft or standard in effect at the time of the installation. The duration of this warranty is for a period of twenty-five (25) years from date of the registered installation, and no claim may be made under this warranty after the expiration of such period. The Hubbell Premise Wiring Mission Critical Warranty and System Performance Warranty Program Customer Agreement ("Customer Agreement") signed in connection with this warranty will note whether this warranty is a link or a channel warranty, and whether Category 3, Category 5, Category 5e, Category 6 or Category 6A is applicable.

For this warranty to be valid, the Structured Cabling System must be installed by a HPW Certified Installer and designed, installed, documented, registered and tested in accordance with ANSI/TIA/EIA-568-C, '569-B, and '606-B, ISO/IEC 11801 standards documents, Wire and Cable Partner's recommended guidelines, and HPW's training manual. This warranty covers the Structured Cabling System including work area outlets, horizontal cable, the connecting hardware in the horizontal cross-connect, the equipment cord at the work area, and the patch cord in the horizontal cross-connect. It specifically excludes any active network equipment, public network interfaces, terminal equipment and installation labor. Neither HPW nor Wire and Cable Partner will be responsible for defects or non-compliance resulting from non-compliant or improper system construction or installation. For this warranty to be valid, all other terms and conditions of HPW's Certification program requirements, including without limitation those set out in the Customer Agreement, must be met.

Customer must send written notice of any claim under this warranty to the Certified Installer immediately after discovery of failure, detailing the extent of the problem. In the event of a claim that is determined by HPW and Wire and Cable Partner to be within the scope and coverage of this warranty and to have been caused by non-conforming HPW products, HPW's sole responsibility under this warranty (and Customer's sole and exclusive remedy) shall be to repair or replace the non-conforming part or component, the choice of which shall be at HPW's sole option, or a refund or credit may be made as provided in the paragraph below. In the event of a claim that is determined by HPW and Wire and Cable Partner to be within the scope and coverage of this warranty and to have been caused by non-conforming Wire and Cable Partner products, Wire and Cable Partner's sole responsibility under this warranty (and Customer's sole and exclusive remedy) shall be to repair or replace the non-conforming part or component, the choice of which shall be at Wire and Cable Partner's sole option, or a refund or credit may be made as provided in the paragraph below. This warranty covers the reasonable cost of labor to remedy a warranty claim if the installer and the amount to be incurred are pre-approved by HPW and Wire and Cable Partner in advance, but does not cover the cost of any products or associated labor not sold or provided by HPW or Wire and Cable Partner. Any such repair or replacement will be warranted for either (a) ninety days, or (b) the remainder of the original 25-year warranty period, whichever is longer. HPW will not in any way be responsible for any of Wire and Cable Partner's products, and Wire and Cable Partner will not in any way be responsible for any or HPW's products.

In those situations where the Structured Cabling System cannot be repaired to operate as originally intended in HPW's and Wire and Cable Partner's judgment, HPW or Wire and Cable Partner, as the case may be, will refund or credit the customer for a prorated portion of the price paid by the customer for the non-conforming products in the Structured Cabling System for the balance of the warranty period calculated from the date of the failure. In no event shall HPW's and/or Wire and Cable Partner's total liability exceed the purchase price paid to HPW for components, and approved Wire and Cable Partner's purchase price, and the reasonable labor costs to install the Structured Cabling System.

This warranty shall not apply if the Structured Cabling System has been (a) subject to abuse, neglect, accident or misuse, modification, uses other than ordinary use, or any other cause beyond HPW's and Wire and Cable Partner's control; (b) installed other than by a Certified Installer in good standing at the time of installation; (c) repaired, altered, or rewired other than by Certified Installer personnel or (d) improperly constructed or installed (including without limitation contrary to the standards referenced in the first paragraph above as in effect at the time of installation). This warranty will automatically terminate and be null and void upon removal of the Structured Cabling System from the site of the original installation. This warranty is also subject to the requirements and limitations of the Customer Agreement. Further, moves, adds, or changes to the Structured Cabling System after original, approved installation has been completed must be registered with HPW and are subject to the terms and conditions of the Customer Agreement. Unregistered moves, adds, or changes ("MAC's") to the Structured Cabling System shall void the warranty for that portion of the Structured Cabling System that has been altered and any other portion indirectly impacted by such MAC's.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN OR ORAL, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL HPW OR WIRE AND CABLE PARTNER BE LIABLE, WHETHER IN CONTRACT, TORT, OR UNDER ANY OTHER BASIS, FOR ANY DAMAGES SUSTAINED BY CUSTOMER OR ANY OTHER PERSON ARISING FROM OR RELATED TO LOSS OF PROFITS, DATA, TIME, USE, REVENUES OR THE LIKE OR FAILURE OR INTERRUPTION IN THE OPERATION OF ANY PRODUCT, OR FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SPECIAL DAMAGES OR LIABILITIES, NOR SHALL HPWS OR WIRE AND CABLE PARTNERS TOTAL LIABILITY FOR ANY CLAIMS OR DAMAGES ARISING OUT OF OR CONNECTED WITH THIS WARRANTY OR THE MANUFACTURE, SALE, DELIVERY OR USE OF THE PRODUCTS COVERED BY THIS WARRANTY EXCEED THE PURCHASE PRICE OF SUCH PRODUCTS WHICH ARE MADE BY SUCH ENTITY PLUS THE REASONABLE LABOR COSTS TO ORIGINALLY INSTALL THE STRUCTURED CABLING SYSTEM. THE FORGOING SHALL SURVIVE THE FAILURE OF AN EXCLUSIVE REMEDY.

*** Channel Warranty – Hubbell Premise Wiring will provide system performance warranty provided the customer purchases and installs Hubbell Premise Wiring patch cords. If patch cords from any other manufacturer other than Hubbell Premise Wiring are installed, the application assurance warranty is void.**

VICON

VALERUS VMS

A Unified Platform for Controlling Video, Access Control, LPR, and Other Integrated Applications

ONVIF

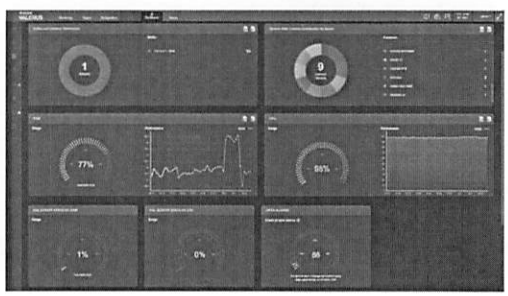
Overview

As the hub of your integrated security solutions, Valerus provides all the features you count on to make your job easier and more intuitive. Its sophisticated—yet simple and flexible interface—helps you monitor video, audio, alarms, access control, license plate recognition (LPR), and system health through a single unified UI. Plus, it exponentially reduces the time you spend on post-incident investigations, and allows you to deploy and maintain your surveillance infrastructure with ease.

Valerus software runs on a variety of platforms—from a small independent workstation, to a Vicon Application Server, to a large-scale virtual machine—to meet any customer application. Vicon's new AI-based analytics can help you perform more meaningful forensic searches and reduce the occurrence of false motion-triggered alarms.

Keep All Your Devices Working Optimally with Valerus Health Monitoring

Oversee the status of all your system components, and your network, in real-time.The Valerus health dashboards give you an at-a-glance summary of your infrastructure so you can quickly filter on issues and pinpoint concerns before they become critical.



Benefits at-a-Glance

- NEW The powerful VAX Action Plans are now available in Valerus
- AI filters allow for object-based recording and searching, significantly increasing operational efficiencies
- The free Desktop Client improves resource management and enhances performance, for the optimal Valerus experience
- Archive your video, audio, and data to a cloud drive, where it can be safely stored and seamlessly accessed, with longer retention times
- Virtual Matrix Display Control (VMDC) lets you control a large number of monitors, or a monitor wall, through a single interface, eliminating the need to manage each client individually

Features That Make a Difference

Seamless Integration with VAX Access Control

Monitor and respond to VAX notifications via the Valerus UI.

- See VAX alerts, door states, and door and access notifications from the Valerus alarm list and maps.
- Enable action plans and door overrides directly from the Valerus map.
- Integrate VAX events into the Valerus Alarms Management Suite.
- The integration also supports VAX I/O events; once the VAX system is added to Valerus, the VAX I/Os will be automatically added to the Valerus tree and map as resources.

Third Party Integrations

Vicon hand selects innovative technology partners to integrate with Valerus, including such industry-leading brands as Software House, Halo, Sureview, Lenel, and Thermal Radar. These integrations enhance our existing product offerings and address the unique needs of our customers.

True Standards-Based

Valerus is ONVIF-compliant, utilizing open SSL and REST API, and does not require expensive proprietary camera drivers.

Windows Service

Valerus is based on a Windows Service that runs in the background. The browser-based platform requires a browser that supports Active X (currently IE 11 and Microsoft Edge); it will work on Google Chrome using the Valerus Chrome extension. Apps are available at the Apple and Google stores for mobile devices. An Internet Gateway allows for external connectivity.

Optional Application-Based Client

For users who don't want to use a browser for the Valerus client, or just want an executable in Windows startup, a thick client is available.

Quick Configuration

This streamlined configuration process lets the VMS discover and configure all devices on the network with just a few clicks, so the system will be up and running in minutes. The default settings can be adjusted at any time.

Device Configuration

A devices web interface lets you configure system devices directly through the VMS.

Import Users

Valerus can connect to an Active Directory server, eliminating the need to set up individual users; the user information is collected directly from the corporate network. Additionally, you can compile a list of users offline, then import those users via a csv file.

Device Reports

Easily generate and export reports (HTML or Excel) of all devices on the network, sorted by their host Recording Server.

Single Point of Management/Central Software Upgrade

The entire system is centrally managed from the Application Server. All configuration (including user management), alarm handling, system-wide authorizations, upgrades, and licensing are performed from a single unit. New Valerus versions can be uploaded to the Application Server and remotely pushed to the Recording Servers.

User Roles and Authorization

You can configure unique roles, each with its own privileges and resource authorization. Valerus ships with four default roles: Admin, Supervisor, Investigator, and Operator, and you can create new roles as needed.

Export
Export video to any mapped storage media, including the cloud, in MP4 format. All exported files are digitally signed using the system's SSL certificate, and can be authenticated during playback.

360° Lens Dewarp
Digital dewarping of the fisheye image is available in live video and playback.

Support for H.265 Compression
H.265 compression reduces storage and bandwidth requirements.

Remote Storage and Auto Archiving
Valerus can map directly to, and store video, on remote devices, including a NAS device, someone else's computer, another server, a data center, or the cloud. And you can choose to archive whenever, wherever, and however you prefer (for example, event-based or on a schedule).

Alarms
A dedicated Alarm tab displays all active alarms, in real-time, along with details pertinent to each alarm. Each alarm is accompanied by an audible and visual indicator, which can be turned on/off by the user, configured to time out, or be manually acknowledged.

Alarm Management
Valerus lets you define which events are elevated to alarm status, what outputs should be triggered in the event of an alarm, create an alarm lifecycle, and determine—step-by-step—what users should do when the alarm occurs.

Bookmarks
Create a text bookmark (e.g., case notes) related to a video clip. This bookmark is accessible during playback, and is searchable in a query.

Alarm/Event Search
Search for specific types of events for more meaningful search results, e.g., events with people and/or vehicles, and reduce the amount of non-relevant video you watch.

Museum Search
Search for object-based motion in an area and receive a list of instances of people and/or vehicles within that area.

Thumbnail Search
Thumbnail renderings of video help you search for specific incidents or a specific timeframe in your timeline.

Advanced LPR and VAX Search Filters
In instances where you may know only part of the data you're searching for, you can specify the "Contains" criteria in your search query (in other words just the info you know, even though it's incomplete). This will limit the results to only records containing that partial data.

Privacy Masks
Block sensitive areas in the camera's field of view via software. An "unmask" feature can temporarily remove the privacy mask; the mask can also be removed on exported video.

Interactive Maps
Create and import static or live geographical maps and overlay interactive icons for camera, VAX, I/O, LPR and other resources directly onto it. Multiple maps can be linked to support multi-level drill-down.

Audit Log
Track users' actions in the system to ensure optimal usage. Track by user, PC, date/time, and specific action, then export those reports in excel or HTML.

Mobile App

The free Valerus smartphone app lets you view live and recorded video on your Apple or Android smartphone or tablet. Mobile devices are listed in the Valerus resource tree, and if you're logged into Valerus you can get web push notifications on your device.

Clean, Optimized User Interface

Easy-to-use tabs let you access forensic searches, configuration features, health dashboards, alarm panel, live monitoring, and VAX Access Control. Choose from multiple display options and create multiple views. All system resources are displayed according to hierarchy or user group, and the resource list can also include frequently visited websites.

Support for Keyboard and PLC Controls

Vicon keyboards and PLC controllers connect through a serial or IP connection for camera control, video switching, and controlling remote client monitors.

Application Server Redundancy

In the event the primary Application Server fails, an optional secondary server will automatically intercede.

Backup and Restore System Settings

Application Server and Recording Server settings are backed up regularly and can be automatically restored in the event of a failed server, eliminating the need to reconfigure the unit.

Access List

As an added security/network management measure, you can create a list that restricts or grants user access to Valerus.

Customizable Rules and Events

You can set up rules that will automatically trigger responses to a variety of events, including external 3rd party events. Additionally, the powerful VAX action plans can be triggered in Valerus.

Network and Security

Valerus is compatible with these protocols: IPv4/IPv6, TCP/IP, HTTP, HTTPS, RTSP, RTCP, RTP, DHCP, UDP and ARP. Valerus provides HTTP, HTTPS encrypted data transmission, SSL and password protection for security. A user can be set to a complex password that can be enforced.

Recording Server Failover

A dedicated server, or clusters of servers, can be configured as backup server(s). This ensures uninterrupted recording in the event that one or more Recording Servers fail.

ViconNet Gateway

This module allows existing ViconNet users to seamlessly upgrade to Valerus.

Client Monitoring Service

The main toolbar can indicate system performance and the current load level on the system; this can help you know if too many devices are being displayed.

Log Collection

Retrieve system logs from all Valerus workstations without the need for a special tool.

Order Your Valerus Software Pre-installed on a Server

We offer our powerful VMS functionality in a variety of server offerings that scale in performance to best match your requirements. These servers are bundled with the Windows® OS and Valerus software, all pre-installed, pre-tested, and certified for plug-and-play operation out of the box.

Recording Servers: Communicate, stream, and record video and audio from the edge devices.
Application Servers: Centrally manage the system, run the web server, and service the web clients.
Client Workstations: Run the Valerus VMS in a web browser for a powerful user interface.

Learn more about Vicon's server lineup **here**.

System Requirements for Valerus VMS

For customers who prefer to deploy the software on their own COTS hardware platform, Valerus VMS requires a dedicated server or virtual machine. These specifications are recommended for the Operating System and VMS application.

Feature	Details
Operating System	Servers: Microsoft® Windows® 10, 64-bit Windows Server 2016, 2019 and 2022 Workstation: Additionally supports Windows 11 and Windows 7 (for browser-based client PC only)
CPU	Intel® i7 processor
Memory	16 GB
Graphics	256 MB RAM onboard
Network Interface	100/1000 Mbps
Disk Space	5 GB min for installation; 75 GB min for recording
Minimum Desktop Client Requirements:	i3 Machine: 8 GB RAM; CPU: 3.60 GHz. Graphics: Intel® UHD Graphics 630. Processor: Intel Core™ i3 10100 CPU @3.60 GHz. OS: Windows 10, 11. Version: 10.0.19401 Build 19401.
Browser	Must have Microsoft Edge which provides IE 11 services (must support Active X); Chrome can be used with the Valerus Chrome extension available (free) at the Chrome store
Performance*	Recording Server with standard internal storage: Up to 200 Mbits or up to 70 cameras Recording Server with internal RAID: Up to 300 Mbits or up to 100 cameras *Both the bandwidth and the number of cameras should be taken into consideration. For exact numbers, refer to the Valerus storage calculator.

Valerus License Model Numbers

Each edge device requires just one Valerus license, regardless of how many channels that edge device provides. To choose the Valerus offering that's right for you—PRO or ENTERPRISE—refer to the Valerus Tier Chart, which outlines what features are available with which offering.

Edge Device	Valerus PRO	Valerus ENTERPRISE
Vicon device	VLR-VPRO-LIC	VLR-VENT-LIC
Third Party device	VLR-PRO-LIC	VLR-ENT-LIC

Check Out the Valerus TRY Version!
Vicon offers a free trial version of Valerus software that includes fully functioning demos so you can try before you buy.

Data Sheet Number: V281-23-02
Vicon Data Sheet Number: 8009-7281-23-02

NETWORK DOME CAMERAS

Roughneck V2100D Series

VICON

ONVIF
Driving network video through global standardization

Product at a Glance

- 2 MP and 5 MP models
- True WDR (120 dB)
- H.265/H.264 compression; M-JPEG compression
- 98 ft/30 m IR range; Smart IR
- Motorized zoom and focus varifocal lens
- Triple streaming
- Smart Encoding
- Power-over-Ethernet (PoE); 12 VDC
- SD card slot for on-camera storage
- IP67 rated for outdoor environments
- IK10 rated for impact protection
- NDAA/GSA/TAA compliant; ONVIF S/T/G/Q
- Surface mounting on wall or ceiling

Overview

Vicon's Roughneck® V2100D Series of HD IP Dome Cameras is designed for performance in the most demanding security installations. There are 2 MP and 5 MP models with a motorized varifocal autoris lens.

The V2100D Series provides triple streaming video and supports H.264/H.265 compression technology, significantly reducing file sizes and conserving valuable network bandwidth. Smart encoding effectively enhances video encoding efficiency and further reduces transmission rate and improves storage capacity.

The dome camera is designed for easy installation. Power over Ethernet (IEEE 802.3af) eliminates the need for power cables, providing a cost-effective method of installation. The camera also accepts 12 VDC. The dome camera can be mounted on a wall or ceiling. Refer to Ordering Information for details on accessories and other mounting options.

In order to adapt to constantly changing outdoor lighting conditions, the V2100D Series features an autoiris lens that maintains picture quality under changing lighting conditions. The true day/night progressive scan camera also includes a removable IR cut filter for superior image quality in all lighting conditions. True Wide Dynamic Range (120 dB) further improves video exposure quality in scenes with high contrast between bright and dark areas. Smart IR adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object.

For protection against the elements, the camera dome is IP67 rated with a IK10 vandal-proof casing to withstand rain, dust, and vandalism. The camera meets the latest regulations required to be NDAA, GSA schedule and TAA approved and support ONVIF profiles S/T/G/Q.

The camera can be used with Vicon Valerus™ as well as many other popular VMS systems; each VMS may support different camera functions.

Specifications

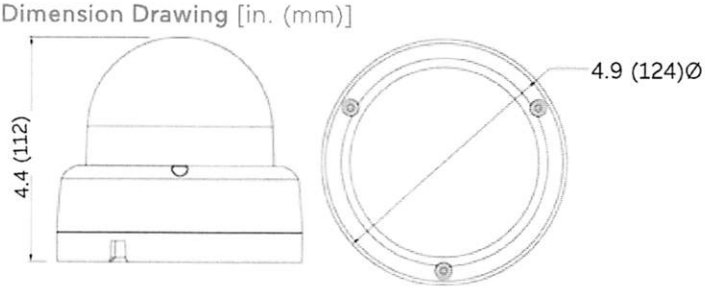
Model	V2102D-W313MIR	V2105D-W313MIR
Image Sensor:	1/2.8-in.	
Max Resolution:	1920 x 1080 (1080p)	2592×1944 (5 MP)
Image Settings:	Digital image effects: flip, and mirror and corridor. Configurable brightness, contrast, saturation, hue, sharpness. White balance. Backlight Compensation (BLC). HLC. Gain control. Gamma correction. Electronic shutter speed. Day/night mode. Dynamic Noise Reduction (3 DNR). Motion detection (4 programmable zones). Privacy masking (8 masks). Dynamic ROI. Digital zoom. Event notification.	
Video Content Analysis (VCA):	Motion, Tampering/Defocus. Museum Search.	
Electronic Shutter Speed:	Auto (1/2 ~ 1/10,000 sec), manual	
Day/Night Performance:	True day/night (IR cut filter)	
Wide Dynamic Range	True WDR; 120 dB	
Minimum Illumination (@ 30 IRE):	Color: 0.015 lux; BW: 0.005 lux, IR Off; 0 lux, IR On	Color: 0.05 lux ; BW: 0.03 lux, IR Off; 0 lux, IR On
IR Distance:	Smart IR. 98 ft (30 m); 16 IR LEDs	
Lenses		
Focal Length:	3.1-10 mm; 3.2X optical zoom	
Max. Aperture:	f/1.4 - f/2.8	
Iris:	DC autoiris	
Zoom/Focus Adjust:	Motorized zoom and focus	
Field of View: Horizontal/Vertical/Depth	34° (tele) - 102° (wide)/20° (tele) - 54° (wide)/ 40° (tele) - 118° (wide)	32° (tele) - 96° (wide)/24° (tele) - 69° (wide)/ 40° (tele) - 124° (wide)
Network Video Transmission		
Network:	10/100Base-T/TX: RJ-45	
Image Compression:	H.264; H.265; M-JPEG	
Resolution:	2 MP: 1920×1080 (1080P), 1280×960/720, 800×600, 640×480 5 MP: 2592×1944/1520, 2048×1536, 1920×1080 (1080P), 1280×960/720, 800×600, 640×480	
Protocol:	ARP, DHCP, DNS, FTP, HTTP, HTTPS, HLS, ICMP, IGMP, IPv4/6, LDAP, NTP, RTSP/RTCP/RTP, RTMP, QoS, SMTP, SNMP v1/2c/3, TCP, TLS/TTLS, UDP, UPnP, 802.1X, UPnP, Bonjour, DDNS, PPPoE; ONVIF S/G/Q/T	
Frame Rate:	30/25 fps max	
Streams:	Triple streaming. 2 MP: Single: 2 MP@30fps; Dual: 2 MP@30fps + 2 MP@30fps; Triple: 2 MP@30fps + 2 MP@30fps + 1280 x 720@30 fps 5 MP: Single: 5 MP@30fps; Dual: 5 MP@30fps + 640×480@30fps; Triple: 5 MP@30fps + 640×480@30fps + 640 x 480@30 fps	
Users:	Live: 10 users	
Web Browser:	Chrome®, Safari®, Firefox®, Microsoft® Edge	
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, IEEE 802.1X, Digest Authentication, Advanced Security	

Specifications

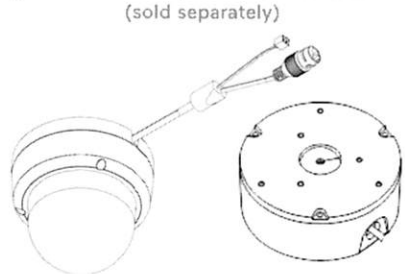
Mechanical	
Construction:	Dome body: white aluminum. Dome bubble: polycarbonate.
Camera Angle of Adjustment:	3-axis adjustment. Pan: >355°; Tilt: 80°; Rotate: ±355°
Mounting:	Surface mount, wall or ceiling
Dimensions:	4.9 in. (124 mm) (Diam) x 4.4 in. (112 mm) (H)
Weight:	2.2 lb (1 kg)
Electrical	
Input Power:	PoE IEEE 802.3af class 3; 12 VDC (±10%)
Current:	12 VDC: 0.63 A; PoE: 0.16 A
Power Consumption:	IR On: 7.6 W; IR Off: 5.2 W
Controls and Connectors	
Connectors:	Pigtail cable provided; optional backbox required for cabling PoE/Network: RJ-45 CAT 5; Reset button; Default button; Micro SD card slot for SDHC/SDXC card (128 G max; customer-supplied)
Environmental	
Operating Conditions:	Outdoor rated Temp: -22° to 140° F (-30° to 60° C) Humidity: up to 90%, non-condensing
Approvals:	UL, FCC Class A, CE, IP67, IK10; ONVIF Profile S/T/G/Q, RoHS, BIS
Country of Origin:	Taiwan
Warranty:	5 years

Ordering Information	
Model Number	**Description**
V2102D-W313MIR	2 MP; 3.1-10 mm motorized zoom and focus; autoiris
V2105D-W313MIR	5 MP; 3.1-10 mm motorized zoom and focus; autoiris
Accessories	
V2100D-PLATE	Adapter Plate; allows the V2100D vandal dome to be mounted to a 4×4 electrical box
V2XXXD-PM	Pendant Cap; provides pendant mounting configuration for use with SVFT-WM-1/UWM-1/UCM-1/UPM-2, V-24CMB-4, V-20B-A-4
V2100D-BOX	Backbox; for ease of cabling
V2100D-ICH/V2100D-ICH	In-Ceiling Mounting; for mounting in a drop or hard ceiling

Dimension Drawing [in. (mm)]



Pigtail Cable: Use optional V2100D-BOX (sold separately)



V2100D-BOX

Data Sheet Number: V318-20-09
Vicon Data Sheet Number: 8009-7318-20-09

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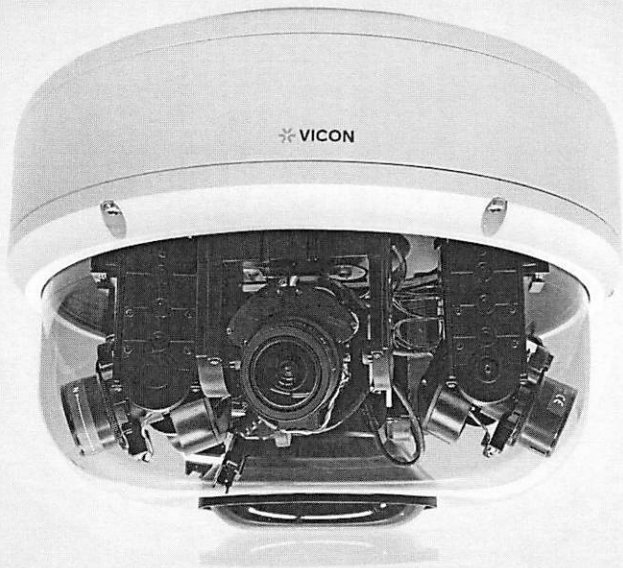
AI ANALYTICS INSIDE



V2000-WIR-360 Series

Roughneck AI Remote Positioning Multi-Sensor

NDAA-Compliant GSA ONVIF S/G/T/Q TAA

Overview

A single Roughneck® AI Multi-Sensor (with a single IP address and cable) replaces four separate cameras, at a fraction of the cost, to cover the same viewing area. For example, Vicon's 32MP Multi-Sensor can take the place of four individual 8MP cameras. You'll get the same overall coverage, but you're reducing the time and expense of installation, setup, tuning and maintenance, because you're doing these things once instead of four times.

The flexible lens positioning options allow one of the four cameras to point straight down, eliminating blind spots. And because you can remotely position all four multi-sensor cameras in minutes–right from your desk–you're not dependent on an onsite technician just to reposition a camera.

AI ANALYTICS INSIDE

Perform more meaningful post-event forensic searches with AI-based analytics
The camera's AI-based analytics allow it to distinguish people and vehicles from other objects in a scene. Object-only recording, and the ability to filter out "environmental noise" that can trigger a motion detection alarm (e.g., shadows, swaying trees and bushes, etc.), significantly increases operational efficiencies. The result?

- Filter out non-relevant video for faster incident resolution
- Reduce storage requirements (by limiting recording to just object-based motion)
- Diminish nuisance alarms
- Respond to genuine threats quicker, and with fewer resources

Product at a Glance

- Four 5 MP or 8 MP sensors deliver an impressive 20 MP or 32 MP overall resolution
- Setup and reposition cameras in minutes, right from your computer
- Pre-defined presets deliver 180°, 270° and 360° views, and you can define additional presets of your own
- Starlight low-light technology delivers color images in near total darkness - no need for the camera to switch to B&W mode
- Integrated IR provides uniform illumination in total darkness for high-quality video from 131 feet (40 m) away
- Four independent sensors, but only a single IP and Ethernet cable required

SECURITY today 2022 NEW PRODUCT OF THE YEAR

ASTORS 2022 GOLD AWARD WINNER HOMELAND SECURITY AWARDS

SIA NEW PRODUCTS+ SOLUTIONS AWARDS

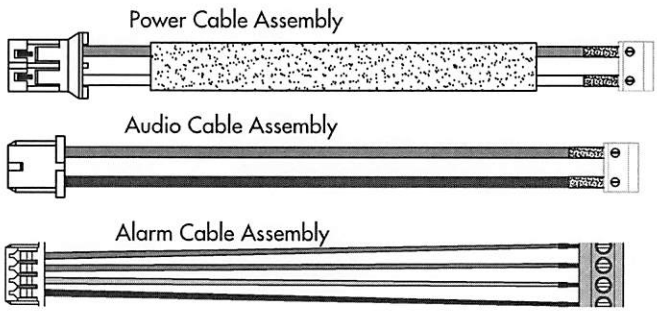
Specifications

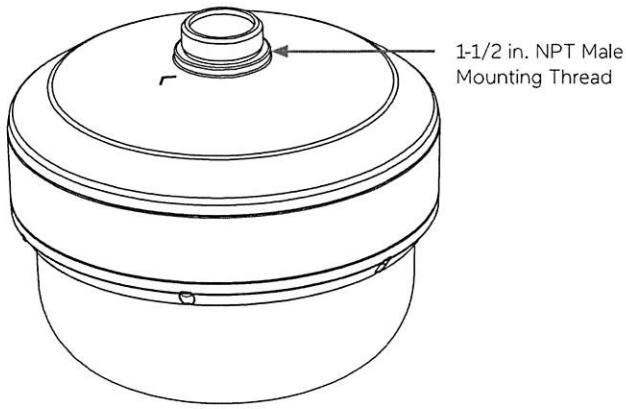
Model	V2020-WIR-360	V2032-WIR-360
Camera		
Device Type:	Indoor/outdoor multi-sensor panoramic cameras	
Image Sensor:	4X 1/2.8" 5 MP CMOS progressive scan Starlight	4X 1/1.8" 8 MP CMOS progressive scan Starlight
Max Resolution:	4X 2592 x 1944 (5 MP)	4X 3840 x 2160 (8 MP)
Image Settings:	WDR (120 dB). BLC. Configurable brightness, contrast, saturation, sharpness. Mirror. Flip. White balance. Exposure. Gain Control. Privacy masks (5). Day/night, True day/night ICR. Audio. Event handler and notifications.	
Video Content Analysis:	Video Motion Detection (VMD; 5 areas); Motion, Tampering/Defocus, Intrusion, Loitering, Line Cross, Tailgating, Object Left/Removed, Crowding. Museum Search.	
AI-Based Object Classification Analytics:	Vehicles, people, animals	
Electronic Shutter Speed:	1/7 ~ 1/20,000 sec	
Day/Night Performance:	True Day/Night with mechanical IR cut filter; Auto, Forced Day, Forced Night and Scheduled	
Wide Dynamic Range (WDR):	120 dB, True WDR	
IR Distance:	Up to 131 ft (40 m)	
Min Illumination @30 IRE:	Color: 0.03 lux; B/W: 0.01 lux, IR Off; 0 lux, IR On	Color: 0.02 lux; B/W: 0.01 lux, IR Off; 0 lux, IR On
Preset Positions:	360°, 270° Wide, 270° Tele, 180° Wide, 180° Tele, User Defined (2)	
Adjustment:	Remotely adjustable: Pan: 360°; tilt: 90°; each module can be positioned remotely along a track	
Lenses		
MFZ Lens:	4x 3.1 - 10 mm; 3.2X optical zoom	4x 3.6 - 10 mm; 2.8X optical zoom
Angle of View:	H: 32° (tele) - 96° (wide); V: 24° (tele) - 69° (wide)	H: 46° (tele) - 98° (wide); V: 26° (tele) - 54° (wide)
Network Video Transmission		
Network:	10/100 Mbps Ethernet; RJ-45	
Image Compression:	H.265/H.264 and M-JPEG	
Streaming:	Triple streaming	
Max. Frame Rate:	Up to 30 fps at 20 MP	Up to 30 fps at 32 MP
Audio:	Two way audio: 1 audio input, 1 audio output; G.711 8 KHz/8 bits	
Protocols:	IPv4/IPv6; TCP/IP; UDP; SNMP v2c/v3; HTTP; RTP; RTSP; RTCP; SMTP; HTTPS; UPnP; FTP; SSL; DNS; NTP; QoS; LDAP (client); DynDNS; Zeroconfig; ONVIF S, G, T, Q	
Users:	Up to 10 clients	
Web Browser:	Internet Explorer®; Mozilla Firefox®; Google Chrome®	
Security:	Password protection, IP address filtering, HTTPS, IEEE 802.1X network access control	
Alarms	1 alarm input, 1 alarm output	
Mechanical and Electrical		
Pan/Tilt Range:	Remote adjustment: Pan: 360°; Tilt: 90° (Default value 83°)	
Construction:	Die-cast aluminum housing; polycarbonate dome	
Mounting:	Surface-mounted; mounting holes provided; includes mounting cap. Mounting options available.	
Controls and Connectors:	I/O cable assemblies supplied for power, audio (2X) and Alarms. PoE/Network: RJ-45. Alarm In/Out: terminal blocks. Power: 2-pin terminal block. Audio In/Out: phone jacks. SD card (2X).	
Dimensions:	H: 5.6 in. (142.3 mm); Diam: 9.7 in. (247.5 mm); refer to dimensional diagram	
Weight:	7.55 lb (3.425 kg)	
Input Power:	PoE++ (IEEE802.3bt Class 5); 24 VDC; 24 VAC	
Current:	1.7 A	
Power Consumption:	40 W max	

Specifications (cont'd)

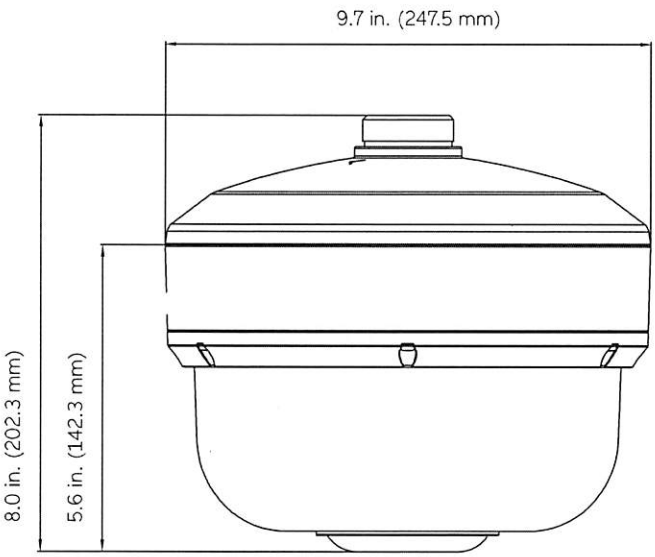
Model	V2020-WIR-360	V2032-WIR-360
Environmental		
Operating Conditions:	Temp: -40° to 131° F (-40° to 55° C) IR Off. Humidity: Up to 90%, relative, non-condensing.	
Approvals:	FCC Class A, CE, IP66, IK10; UL	
Country of Origin:	Taiwan	
Warranty:	5 years	

Connectors





Dimensional Drawing



Ordering Information

Model Number	Resolution	Lens	Environment
V2020-WIR-360	4X 2592 x 1944 pixels (20 megapixel)	4X 3.1-10 mm MFZ	Indoor/Outdoor
V2032-WIR-360	4X 3840 x 2160 pixels (32 megapixel)	4X 3.6-10 mm MFZ	Indoor/Outdoor

Model Number	Accessories Description
V1001-WM	Wall mount for the V1000/V2000 series of multi-sensor cameras
V1001-PM	Pendant mount for the V1000/V2000 series of multi-sensor cameras
V2000-360-ICD	In-ceiling mount for installation in a drop ceiling
V1001-ADAPT	Adapter plate; used when mounting the wall mount to the V-20B-A-4 pole mount or V-24CMB-4 corner mount bracket
V-24CMB-4	Corner mounting bracket; adapter plate required
V-20B-A-4	Pole mount adapter; adapter plate required
SVFT-UPM-2	Parapet mount
SVFT-UCM-1	Ceiling Mount; for mounting to a ceiling
VPOE-INJ-60BT	Single-port PoE gigabit injector; compatible with IEEE802.3bt; 60 W output
VPOE-INJ-90BT	Single-port PoE gigabit injector; compatible with IEEE802.3bt; 90 W output; NDAA compliant

V1001-WM


V2000-360-ICD


V1001-PM


V1001-ADAPT

V-24CMB-4


V-20B-A-4

SVFT-UPM-2


SVFT-UCM-1

Data Sheet Number: V322-21-03
Vicon Data Sheet Number: 8009-7322-21-03

Lapeer County

Sheriff Department

ARPA Request

Camera Replacement and Cable Management Requirements/Goals

7/21/2023

Recent events at Lapeer County Sheriff Department have exposed serious infrastructure and security deficiency.

Departments cabling infrastructure was originally installed during building construction in 1998. Over the years additional pieces were added by multiple vendors. No long-term plan to upgrade entire system was developed due to cost restraints.

Current camera and security systems were installed in February 2016. Typical ROI and end of life is 5 years. Storage capacity for video has been exhausted. Current cameras are outdated and visual coverage is inadequate.

Lapeer County Sheriff Department Request following to correct deficiencies:

Implement Structured cabling to improve Efficiency replace old outdated infrastructure

Normal cabling is point to point, which runs a cable directly to and from devices that require connectivity. In contrast, a structured cabling system utilizes a series of patch panels and trunks to build a structure that allows the connection, movement, and removal of devices without requiring the use of new cables and connections every time there is a change. Every patch panel is cabled to return to a main distribution area, where every reconfiguration is accomplished through patch leads, small cables for linking patch panels to create circuits.

Improving Network Performance With Versatile Physical Layer Connectivity

In order to achieve a high-performance, future-ready structured cabling system, you need to consider the right combination of design, performance, distance and density requirements. Versatile physical layer connectivity guides the creation of an open system platform, where the right media selection and cabling topology will increase productivity. Best practices to versatile physical layer connectivity include:

Designing for network flexibility

Apply open architecture designs to accommodate your performance requirements for a highly scalable network. The flexibility of the foundational layer creates ripple effects throughout the network.

Selecting the appropriate universal cabling topology

Making the right media selection

Choose the appropriate cabling media from twisted-pair and optical fiber to address high-speed bandwidth requirements.

Determining the migration path to support wireless mobility

Determine your migration path for Wi-Fi and in-building cellular connectivity to support a multi-screen environment.

Supporting multiple applications through scalable designs

Deploy scalable designs that can support multiple and varied applications over a high-performance, IP-based structured cabling system.

Scalable design and performance in data centers depend upon two different things.

The first is the physical layer, which includes data servers, switches, storage devices and cable managers. By optimizing server rack space rack space and ensuring effective network cable management, efficiency and uptime can be improved, reducing the footprint required for server hardware and lowering equipment costs.

The second, and more complex, is the infrastructure that supports increasing data rates and volumes. This includes transitioning from 40G to 100G and eventually the emerging 400G ethernet capability. It not only means more fiber cable, but an increased number of connections.

Insertion Loss

The simplified version of insertion loss is this: the **more connectors you have**, the **greater potential there is for loss of speed**. A lower insertion loss means a stronger signal. Data centers should understand their insertion loss margin.

This margin is the actual insertion loss experienced vs. the standard insertion loss, and it can be affected by a number of things. So how do you reduce insertion loss?

- **Rack optimization** – The right rack and cabling solutions will reduce the distance data has to travel, decreasing loss
- **Air flow** – Temperature controls, or factoring in realistic temperatures, help manage insertion loss expectations
- **Connectors fit for purpose** – The right connection components will also reduce loss, and the expected loss of these components should be factored in when being calculated

Efficient data center that are set up to be denser and reduce the distance data has to travel, have **lower potential for insertion loss**. Note the word "potential." Since many factors, from the quality of cabling and connections, to the efficiency of rack and cabling solutions can have an impact, its necessary to look at this factor from several angles.

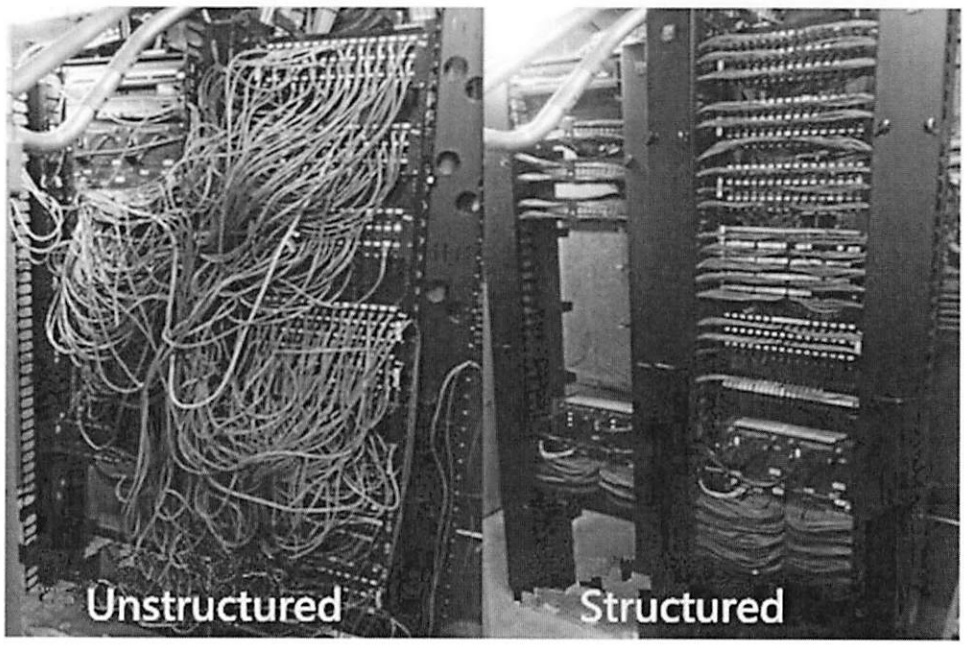
Skew

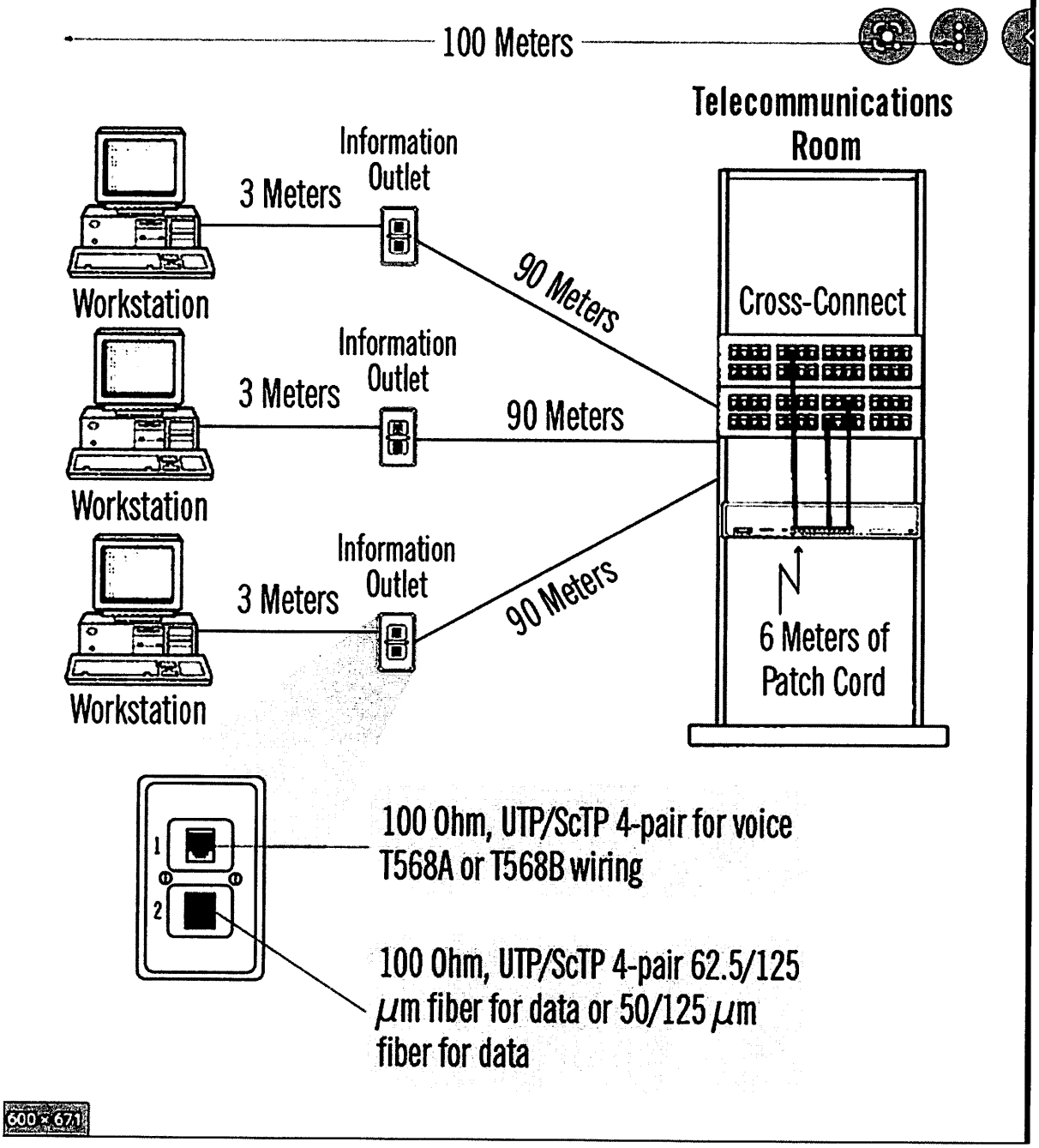
Skew is the difference between the time it takes light to travel on different fibers. Too much skew can **result in data loss or errors**.

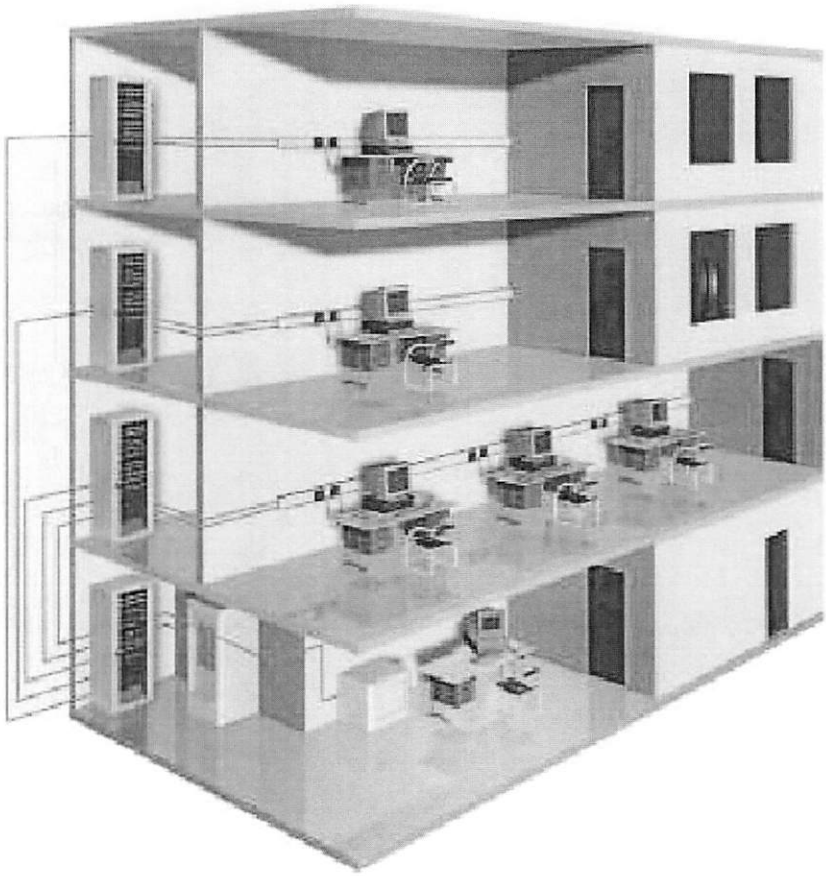
The standards for skew are tight in parallel optical cabling solutions, as low as .075 n-s (nanoseconds). The simple reason for this, is that **skew can affect the longevity of optical cables** and how scalable they are when it comes to higher data rates and volumes – two of the primary factors in scalability.

This is another factor that can get complicated at times, and is influenced by the length of cables, the type of cable used and more. The key is to know what to look for in **parallel optical circuits**: low skew components with tight tolerances over the distance you need to run them.

Expansion of wireless technologies will also impact future scalability.




100 Meters
Telecommunications Room
Information Outlet
3 Meters
90 Meters
Workstation
Cross-Connect
6 Meters of Patch Cord
1
2
100 Ohm, UTP/ScTP 4-pair for voice T568A or T568B wiring
100 Ohm, UTP/ScTP 4-pair 62.5/125 μm fiber for data or 50/125 μm fiber for data
600 x 671



Unified state of the art platform for controlling Video, Access Control and Security

The hub of integrated security solutions must monitor video, audio, alarms, access control, license plate recognition (LPR), and system health through a single unified user interface. System should exponentially reduce the time spent on post-incident investigations and allow user to deploy and maintain your surveillance infrastructure with ease.

AI-based analytics should be included to help perform more meaningful forensic searches and reduce the occurrence of false motion-triggered alarms.

The entire system should be centrally managed from the Application Server. All configuration (including user management), alarm handling, system-wide authorizations, upgrades, and licensing are performed from a single unit.

VMS should include the following:

Single Point of Management/Central Software Upgrade

System is centrally managed from the Application Server. All configuration (including user management), alarm handling, system-wide authorizations, upgrades, and licensing are performed from a single unit.

Device Reports

Easily generate and export reports (HTML or Excel) of all devices on the network, sorted by their host Recording Device.

Export

Export video to any mapped storage media, including the cloud, in a secure format. All exported files are digitally signed using the system's SSL certificate, and can be authenticated during playback.

360° Lens Dewarp

Digital dewarping of the fisheye image is available in live video and playback

Alarm/Event Search

Search for specific types of events for more meaningful search results, e.g., events with people and/or vehicles, and reduce the amount of non-relevant video you watch.

Thumbnail Search

Thumbnail renderings of video help you search for specific incidents or a specific timeframe in your timeline

Advanced LPR and VAX Search Filters

In instances where you may know only part of the data you're searching for, you can specify the "Contains" criteria in your search query (in other words just the info you know, even though it's incomplete). This will limit the results to only records containing that partial data.

Privacy Masks

Block sensitive areas in the camera's field of view via software. An "unmask" feature can temporarily remove the privacy mask; the mask can also be removed on exported video.

Network and Security

Compatible with these protocols: IPv4/IPv6, TCP/IP, HTTP, HTTPS, RTSP, RTCP, RTP, DHCP, UDP and ARP. Provide HTTP, HTTPS encrypted data transmission, SSL and password protection for security.

Recording Server Failover

A dedicated server, or clusters of servers, can be configured as backup server(s). This ensures uninterrupted recording in the event that one or more Recording Servers fail.

Application Server Redundancy

In the event the primary Application Server fails, an optional secondary server will automatically intercede.

Backup and Restore System Settings

Application Server and Recording Server settings are backed up regularly and can be automatically restored in the event of a failed server.

Support for H.265 Compression

H.265 compression to reduce storage and bandwidth requirements.

Camera Requirements

2 MP and 5 MP models available

True WDR (120 dB)

H.265/H.264 compression; M-JPEG compression

98 ft/30 m IR range; Smart IR

Motorized zoom and focus varifocal lens

Triple streaming

Smart Encoding

Power-over-Ethernet (PoE); 12 VDC

SD card slot for on-camera storage

IP67 rated for outdoor environments

IK10 rated for impact protection

NDAA/GSA/TAA compliant; ONVIF S/T/G/Q

Surface mounting on wall or ceiling

CORNERSTONE

W6484 Design Drive
Greenville, WI 54942
920.749.2840

Proposal

Date: July 24, 2023

To: Lapeer County Jail

Attn: Mr. Bartley

Re: Security Systems Upgrades for the Lapeer County Jail, Lapeer, Michigan

Scope of Work

Cornerstone, Inc. proposes the following Upgrades for the Jail Security Systems:

Part 1 - Programmable Logic Controller / Human Machine Interface (PLC/HMI) Door Control and Intercom Systems: Cornerstone proposes the following replacement equipment that is at end-of-life.

1.1 - Replace two (2) existing Dell OptiPlex 9020 computers with new and current MS Windows 14 OS.

1.2 - Update the InduSoft HMI 7.0 touch screen software to the current version.

1.3 - Replace two (2) existing ELO Touch screen 32” monitors.

1.4 - Provide two (2) new 1500 VA UPS units.

1.5 - Provide on-site Technician to install new equipment and software.

1.6 - Add sixteen (16) new camera icons. Reprogram all 63 cameras.

1.7 - Inspect the CJ series PLC equipment racks to be sure they are in good working order. Test all the UPS stand-by power units, both equipment racks.

1.8 - Add an ethernet module to CJ PLC for camera interface.

1.9 - Travel expenses.

CORNERSTONE

W6484 Design Drive
Greenville, WI 54942
920.749.2840

Part 2 - Video Surveillance System: Cornerstone proposes to reprogram the HMI to facilitate the new Vicon IP camera system, server, storage, and monitors, and Reconfigure the InduSoft HMI program for both Operator stations as follows:

2.1 - We recommend the following CCTV monitor configuration.

2.2 - Master Control has Four (4) large view monitors, Callups will be done via Vicon workstation

1. #1 will serve as a call-up monitor when an icon is selected or an intercom, duress or door alarm is received.
2. #2 Will display cameras 1 thru 16 with multi-view (4x4) display.
3. #3 Will display cameras 17 thru 32 with multi-view (4x4) display.
4. #4 Will display cameras 33 thru 48 with multi-view (4x4) display.
5. #5 Will display cameras 49 thru 63 with multi-view (4x4) display

2.3 - Housing Control has Two (2) large view monitors, Callups will be done via Vicon workstation

1. #1 will serve as a call-up monitor when an icon is selected or an intercom, duress or door alarm is received.
2. #2 Will display cameras 1 thru 16 with multi-view (4x4) display.

2.4 - The existing CCL camera commands from the HMI to the LTC-8500 matrix switch will be maintained during the system cut over, which will slowly migrate from the old to new video system.

Part 3 - Clarifications:

3.1 - No other programming will be provided to control any monitors other than the two (2) Call-up monitors from their HMI Station.

3.2 - There are 63 total cameras. 34 in Master Control (9 are exterior cameras), 12 in Housing and 16 that were added (unknown locations). If the 16 new are in Master Control, 2 will not be displayed (34 + 16 = 50) – (4 x 16 = 48).

3.3 - Provide (1) Cornerstone technician on-site to update the software, test and certify the system.

3.4 - All video work is by others. Others also need to make up a drawing with the new camera locations. (see attached schedule and drawing).

3.5 - Provide 1-year warranty on new parts and labor provided by Cornerstone.

CORNERSTONE

W6484 Design Drive
Greenville, WI 54942
920.749.2840

Part 4 - General Notes:

4.1 - Cornerstone will provide its standard General Liability Insurance. (Certificate furnished upon request)

4.2 - Suitable secured dry storage space is to be provided by the Customer for our materials and protection of same.

4.3 - Payment & Performance Bonds are not included.

4.4 - Michigan Sales tax is included.

Proposal: $48,500.00

Schedule 84 Provider #GS-07F-269AA

GSA

This proposal is subject to acceptance within 30 days from the date hereon, and to all standard Terms and Conditions noted in the attached page. We hope this proposal will merit your placing with us your business, which will have our best attention in pursuing the work to completion.

Jared Johnson
Estimator
Office: 920.882.8845
Cell: 920.505.0104
Email: jjohnson@cornerstoneinc.com

Cc: Donald M. Rochon, Senior Manager
drochon@conrestoneinc.com

Please address the Contract or Purchase Order to:

Cornerstone, Inc.
2511 Midpark Road
Montgomery, AL 36109

Please reference this Scope of Work and its date, in the Purchase Order.
Forward to Jared Johnson & Don Rochon's emails.

Lapeer County

Network Cabling and Video Surveillance Camera RFP # 2023-0-14

Question and Answers last updated

5/23/2023

1. New jail or old? And if the jail is existing already and in use, that confirms it is currently occupied? We ask because the plan indicates new build.

* Night work or weekends? What is county policy? How long per day would staff be working under sheriff supervision, secured away from all prisoners?

Jail was built in 1998-- yes, jail is occupied. New build is referring to entire new camera system for the jail, and new control panels.

Work can be done 24 hours a day. Staff would be under deputy supervision 24 hours a day. Inmates would not be in areas where your staff would be working.

We would move inmates out of areas accordingly.

2. Maps for all other buildings – including going thru the marked up jail map on a zoom or conf call.

* Can you provide us with floor plans for all county buildings? Site pics or will surveys be allowed?

i. Bldg material infrastructure can determine installation risk.

ii. If plans are unmarked, again we would need to determine locations for all hardware, IDF's, MDF, etc.

Marked up jail map at end of this document. No other maps of County buildings will be provided. Don't understand need. This is a stand alone building.

Final drops and location will be determined during selected vendors contract definitions.

Pre-proposal meeting to view the areas will be held at 9:00 AM, May 15, 2023 or 9:00 AM May 16,2023 as stated in RFP.

3. Cameras & network infrastructure are mentioned, but then at the end I note mention of cabling for wireless AP's.

* Do you need us to quote out ap's? Do you provide?

Mention of wireless AP's was for informational purposes. County will provide wireless AP's

4. What surveillance system do you currently use that any new camera add's would have to be adoptable into?

* Is the system using or having Onvif based protocol?

This will be a totally new system no new camera add's needed. Vendor's proposal will determine protocol.

3. FIBER: is the county currently connected via fiber between all facilities/municipal bldgs?

* Where is the head end?

All County buildings are connected via Fiber.

5. NETWORK: is there room on available patch & POE for all new data?

* If not, does client need pricing?
* If not, can client provide mapping for which IDF's/data closets would need what size patch/POE?

The building has 1 network room. It will be completely re-done. Please provide pricing for patch panel. POE handled by switch.

1. Is there a clearer set of drawings available?
   Best Drawing currently is enclosed in this document

2. The drawings speak of 360 cameras but, on the requested bill of material there are no 360 cameras mentioned.
   360 camera cable drops for possible expansion and/or moving. Actual cameras to be purchased is quantity in RFP.

3. "Auto dome" is a competitor's term for PTZ, however 3-10mm lenses are for fixed cameras, not PTZs. Do you want PTZ or fixed?
   Sorry we tried removing all manufacture designations and missed one. The actual designation of number PTZ and fixed
   Cameras will be determined by vendor during walk through and/or final contract. For purpose of RFP please quote PTZ.

4. Corner mount camera" please clarify, PTZ, single sensor, multi-sensor
   Same as #3

5. Pendant wall/ceiling mounts" are these to be wall -or- ceiling mounts
   Combination of both. Actual designation should be determined by vendor during walk through.

1. Where are IDF?
   No IDF's all home runs to MDF

2. In the MDF do you want vertical or horizontal cable management?
   Specification to be proposed by vendor for most efficient and Organized cable management

3. Please verify LCSD is supplying monitors?
   Yes LCSD is supplying monitors.

4. Please confirm that we will be able to use your lift?
   Yes lift can be used if certified to use.

5. There was confusion on which type of cable.
   As stated in RFP CAT6A is to be used.

5/21/2023 & 5/22/2023

1. Are we installing new monitors and mounts
   County will be suppling monitors and mounts

2. Does the new camera system need to be NDAA Compliant?
   Yes
3. Where are we installing the new camera server? Booking or MDF?
   MDF

4. Are we providing the POE Switches for the cameras and decoders?
   NO
5. Are we using the exis□ng touch screens?
   New touch screens

   a. Are we installing new computers for the touch screens?
      NO
   b. Are we installing new UPS's for the touch screens and computers?
      No
6. Are we installing new UPS's for the POE switches and server?
   No
7. Are we installing POE protectors for the 2 pole cameras?
   No

8. Do we need to provide addi□onal licenses for any other work sta□ons?
   5 Additional Licenses Please

9. Are we providing any addi□onal cameras or licenses for future work?
   The counts in RFP Include extra camers

10. Do we need addi□onal decoders or license for conference room TV?
Not at this time
11. There was men□on about (13) 360-degree cameras. I do not see that on the bid spec.
Yes 13. We are taking vendors advice on latest specs.

12. How many call up monitors are in each loca□on?
County will be suppling monitors

13. How many F.P.S. are you looking to record for each camera?
a. Is the recording going to be con□nuous or set to mo□on?
Continuous recording

14. Do you have a spec on the 12 corner mount cameras?
Vendors recommendation please

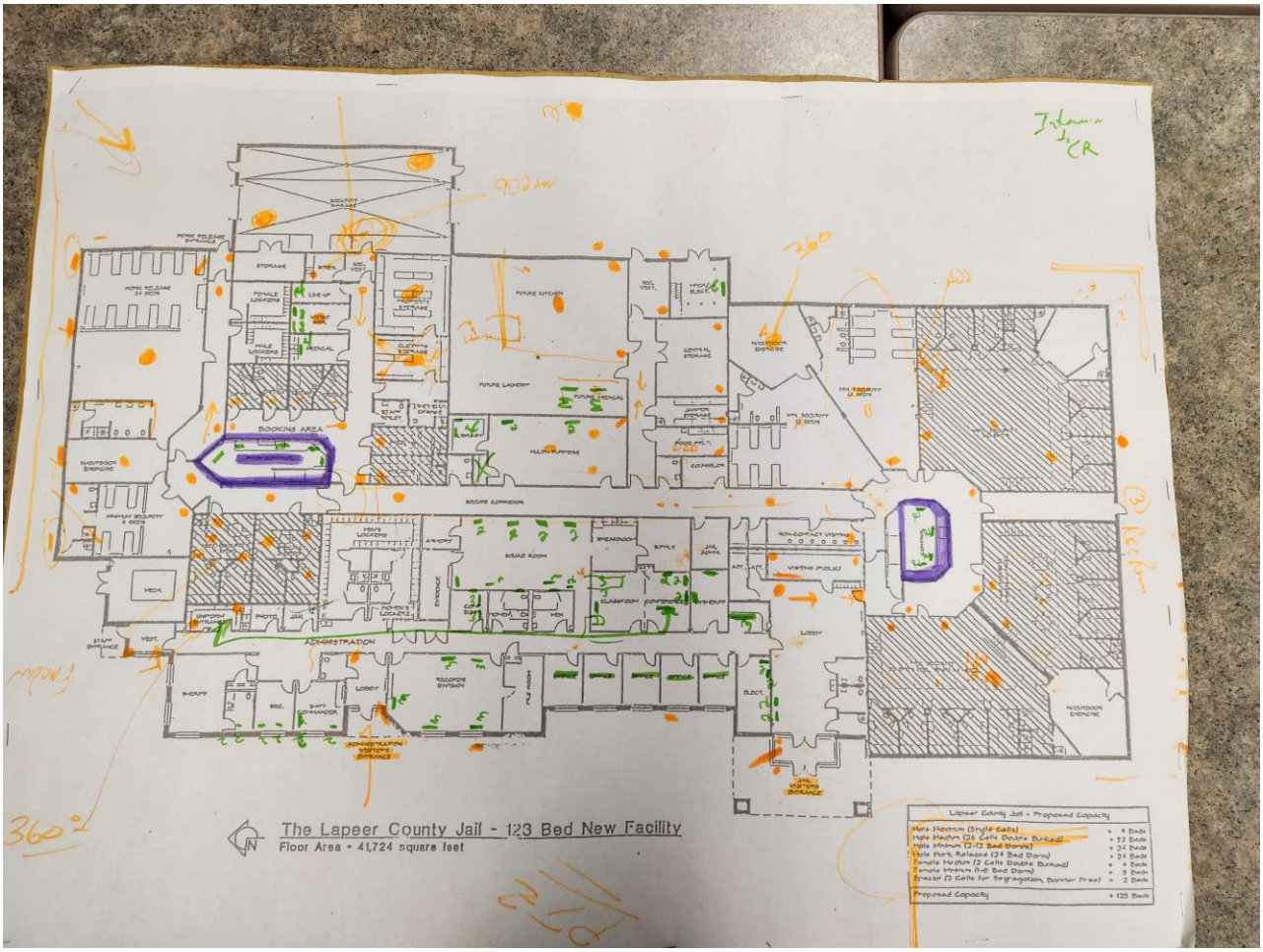
15. There was men□on about 360-degree cameras in the interview rooms.
Yes 1 360 for up front interview (Michigan law)

16. If we are installing these, do we need a second camera in the rooms also.
NO

18. In the spec it calls for patch cords to be supplied in the MDF. Are we providing any patch cords at the work statons?
NO

19. Are you providing the switches for the new cabling project?
Yes
20. We will need to replace some ceiling tiles. Who is providing these?
NO
21. Please verify how many days of storage you are looking to retain video?
—60 days//Breathalyzer room is 90 days

22. Please provide a readable print of network drop locations and quan□ty.
Working on obtaining this.
23. Please verify the front interview room will be a stand-alone system.
Yes, stand alone


The Lapeer County Jail - 123 Bed New Facility
Floor Area - 41,724 square feet
BOOKING AREA
ADMINISTRATION
FUTURE KITCHEN
FUTURE LAUNDRY
FUTURE MEDICAL
MULTI-PURPOSE
SQUAD ROOM
CLASSROOM
CONFERENCE
LOBBY
Lapeer County Jail - Proposed Capacity
Proposed Capacity + 125 Beds