



# Russell Police Department

14820 Chillicothe Road Novelty, Ohio 44072

9-1-1- Emergency / 440-338-1212 –Emergency

440-338-6212-Non-emergency

440-338-6113-Fax

Email: [rpd@russellpolice.com](mailto:rpd@russellpolice.com)

To: Russell Township Trustees

Justin Madden

James Mueller

Gary Gabram

Russell Township Fiscal Officer

Karen Walder

From: Chief Carroll

Date: 08-14-2018

The Russell Township Administration Building is in need of improvements regarding the safety and security of our personnel, sensitive data.

I have gathered quotes for security options such as cameras, video monitoring and door access systems for your review. I am still attempting to obtain proposals for programmable door lock / fixtures.

Currently, anyone can and in the past has walked in and through the building. This is not an acceptable practice for the wellbeing of our personnel, especially in today's society, and the sensitive information that may be inadvertently left out by personnel in plain view.

Also, the building's current "Buzz In" system is ineffective, it is only located at the front door and the current monitors and camera are of 20 year old technology, and are not working properly.

It is my opinion that the building's entrance doors should be secured and public entrance must be regulated by the Township personnel occupying the building as a safe practice.

Vendor: Visual Armor arrived at the Administration Building on 07-21-2018 and did an evaluation of the building and the needs of the personnel.

Allen Moon of Visual Armor submitted a proposal / quote #2036, #2037, #2038 on 08-10-2018.

The Visual Armor Proposals were submitted in 3 parts:

1. Quote #2036 consists of the:  
Hardware- 15 Cameras interior and exterior, Monitors and Mounts, Digital Video Recorder, and Miscellaneous Equipment.  
Total for Quote: \$11,485.11
  
2. Quote#2037 consists of the:  
Installation of CAT6 wiring within the finished ceilings and walls for camera data / future networking capabilities and telephone lines throughout the building from a central location, Rack mount switch, Server Rack to hold the Equipment.  
Total for Quote: \$4,959.40

Quote# 2038 consists of:

3. The 2 Entrance Doors of the Building to install a Buzz - In system, which includes the wiring of the system at the 2 entrance doors to 6 user / employees' work area, which would include the tenant in the basement.  
Total for Quote: \$4,534.67

Total for this project \$20,979.24

All of the equipment would be housed in the basement of the building in a small secured room, and this would create an infrastructure to a secure, centralized location.

Please see attached Quotes #2036, #2037 and #2038.

# Visual Armor Security

1222 Fanwood Dr.

Painesville, OH 44077

440-867-1464

## VIDEO SURVEILLANCE ESTIMATE

Date	Estimate #
7/29/2018	2036

Russell Township  
 Karen Walder  
 8501 Kinsman Rd.  
 Novelty, OH 44072

Item	Description	Qty	Rate	Total
G4-IPX17	4MP 2.8MM Fixed Lens Wedge IP Camera with Built-in Mic, 120dB WDR, IR 10M, IP66 (Inside Cameras)	7	129.05	903.35T
G4-IPX8	8.0MP/4K Sony Exmor IMX274 Image Sensor 4K@30FPS advanced infrared h.264/h.265/MJPEG compression algorithm capable infrared industrial cylinder IP camera. Indoor/outdoor 3.3-12mm Motorized Varifocal lens. 12VDC and Built-In PoE. Built-In TF Slot (up to 128GB storage) Industrial IR offers 50M IR Alarms, Audio In/Out, RS485, and convenient CVBS BNC Output for dual functionality. Smart Analysis and triple stream capability. 3.5mm Audio In/Out, 1/1 Alarm in/out.	4	245.05	980.20T
G4-IPX10	1/2.5" CMOS Image Sensor 8 Megapixel (3840 x 2160) realtime encoding 3.3 - 12mm Motorized Varifocal Lens H.265 / H.264 / MJPEG Video Compression Up to 30m (98') IR distance Smart Analysis (Perimeter Intrusion, Line Crossing and Object Removal) Triple Stream Encoding CVBS (BNC) Video Output 3.5mm Audio Input / Output 1 / 1 Channel Alarm Input / Output ONVIF Conformance IP66, IK10 Ingress Protection Rating	4	245.05	980.20T
G4-FXM-WM1	Wall Mount With Junction Box FXM-JB5 For IPX5, IPX6, IPX10, IPX12, IPX14, DX9	4	17.5375	70.15T
G4-FLUX-FXM-JB5	Junction Box for IPX5, IPX6, IPX10, IPX12, IPX14, DX9,DX10	4	16.1875	64.75T
G4-FLUX-FXM-JB3	Junction Box For 4MP Fixed Dome, IPX3, IPX3-2.8, IPX4, IPX8, IPX11	4	13.4875	53.95T
<b>Subtotal</b>				
<b>Sales Tax (0.0%)</b>				
<b>Total</b>				

# Visual Armor Security

1222 Fanwood Dr.

Painesville, OH 44077

440-867-1464

## VIDEO SURVEILLANCE ESTIMATE

Date	Estimate #
7/29/2018	2036

Russell Township  
 Karen Walder  
 8501 Kinsman Rd.  
 Novelty, OH 44072

Item	Description	Qty	Rate	Total
G4-FX-4KNVR432-P	32 IP Channel Inputs 16 Independent 10/100M PoE Ports H.265 / H.264 Video Compression Up to 8MP Recording Resolution 1 HDMI (Up to 4K Resolution) and 1 VGA Video Outputs 4 SATA Interfaces for Internal Storage up to 6TB each 1 RJ-45 10/100M Ethernet Interface Supports NAT functionality and QRCode scanning for mobile device access ONVIF Compliant. 6TB HDD Installed.	1	667.80	667.80T
Wire	Cat6 for cameras only and monitors	2	147.20	294.40T
MISC	HDMI 4K 1x8 HDMI Splitter	1	65.00	65.00T
VA-HDMI EXTENDER	HDMI® Extender Using Cat5e or CAT6 Cable - Extend Up to 98ft	8	24.57	196.56T
MISC	24" Vizio TV for viewing camera system	6	170.50	1,023.00T
MISC	32" Vizio TV for viewing camera system	1	242.00	242.00T
MISC	43" Vizio 4K TV for viewing camera system	1	412.50	412.50T
MISC	40AM1337 Full motion 13-37" TV Mount	7	36.25	253.75T
MISC	80AM3763 Full Motion 37-63" TV Mount	1	77.50	77.50T
Labor	Installation of security camera system at location with connection to the LAN for local access.	1	5,200.00	5,200.00
<p>*****CAMERA SYSTEM ONLY*****Includes all cameras, TV and mounts, and connections completed.                      Playback can be utilized by each computer connected to the LAN (local area network) via a free web browser setup. Downloading can be completed at each computer also, however faster backup will be completed at NVR by use of a USB flash drive.                      There is 2 service calls free of charge for a year after installation is completed.</p>				
		<b>Subtotal</b>		
		<b>Sales Tax (0.0%)</b>		
		<b>Total</b>		

# Visual Armor Security

1222 Fanwood Dr.

Painesville, OH 44077

440-867-1464

## VIDEO SURVEILLANCE ESTIMATE

Date	Estimate #
7/29/2018	2036

Russell Township  
Karen Walder  
8501 Kinsman Rd.  
Novelty, OH 44072

Item	Description	Qty	Rate	Total
	A three warranty on the wiring excludes fire, natural disaster, or damaged caused by employee.			
<b>Subtotal</b>				\$11,485.11
<b>Sales Tax (0.0%)</b>				\$0.00
<b>Total</b>				\$11,485.11

Visual Armor Security

1222 Fanwood Dr.  
 Painesville, OH 44077  
 440-867-1464

# Estimate

Date	Estimate #
7/29/2018	2037

Name / Address
Russell Township Karen Walder 8501 Kinsman Rd. Novelty, OH 44072

Project

Description	Qty	Rate	Total
Install CAT6 Network throughout the location as described. Locations are offices and rooms in the building. Relocate the modem from the Internet provided to the basement and have all lines started from this location. This price includes the wiring, the connections, labeling on outlet for Internet and phone.	1	3,500.00	3,500.00
Rack mount 12U Wall Mount Server 600mm Depth Cabinet Rack Enclosure Glass Door Lock with accessories including rack mount battery back up, 48 port Cat6 patch panel, shelf for switches or routers.	1	550.00	550.00T
Netgear 48 port Gigabit Rackmount Switch	1	275.00	275.00T
Netgear 8 port gigabit ethernet switch (if needed)	2	60.00	120.00T
Netgear 5 port gigabit ethernet switch (if needed)	4	55.00	220.00T
Cat6 wire for phone and internet runs	2	147.20	294.40T
		<b>Subtotal</b>	\$4,959.40
		<b>Sales Tax (0.0%)</b>	\$0.00
		<b>Total</b>	\$4,959.40

Visual Armor Security

1222 Fanwood Dr.  
Painesville, OH 44077  
440-867-1464

# Estimate

Date	Estimate #
8/10/2018	2038

<b>Name / Address</b>
Russell Township Karen Walder 8501 Kinsman Rd. Novelty, OH 44072

			Project
Description	Qty	Rate	Total
GT-DB-AUDIO MODULE	2	158.905	317.81T
GT- DBP PANEL	2	31.035	62.07T
GT-SW	4	22.8475	91.39T
GF-4P	2	22.845	45.69T
GF-3F	2	31.725	63.45T
GT-103HB	2	209.99	419.98T
GT-BC	1	52.49	52.49T
GTW-DP	1	34.38	34.38T
GT-1A	6	81.23833	487.43T
MCW-S/A	6	28.125	168.75T
W-DIN11	1	9.99	9.99T
PS-2420UL	1	99.99	99.99T
87200210C	1	181.25	181.25T
Installation of "buzz in" door system. The wiring on this project will be run through the walls when able otherwise there will be in cable molding. This estimate includes call boxes for the main entrance and side entrance. Also includes 6 "tenant" stations which will be placed at each desk and the individual can release the door lock and let the individual inside the building. The call buttons at the doors are surface mounted and the "tenant" stations will be desk mounted. All products are Aiphone brand products.	1	2,500.00	2,500.00
		<b>Subtotal</b>	\$4,534.67
		<b>Sales Tax (0.0%)</b>	\$0.00
		<b>Total</b>	\$4,534.67

Chief,

The following information is from Visual Armor Security estimate # 2036\* in regards to the equipment that will be installed at 8501 Kinsman Rd. in Novelty, OH 44072:

#### NVR

1. **G4-FX-4KNVR432-P:** This NVR (Network Video Recorder) is a 32-channel system with 16 independent PoE ports capable of 4K resolution recording. The brand of the system is a G4 Direct Flux system and has a two (2) year warranty on the device.  
<http://www.g4direct.com/products-one/FLUX-NVR/FX-4KNVR432P>

#### CAMERAS

1. **G4-IPX17:** This is a 4mp 2.8MM fixed lens wedge IP Camera. This camera contains a built-in mic that can be disabled if requested. These are the cameras that are going to be used inside of the building. <http://www.g4direct.com/products-one/FLUX-SECURITY/IPX17>
2. **G4-IPX8:** This camera is an 8mp (4K) cylinder IP camera with a motorized zoom lens. The lens is 3.3-12mm lens. These cameras are going to be used outside of the building.  
<http://www.g4direct.com/products-one/FLUX-SECURITY/IPX8>
3. **G4-IPX10:** This camera is an 8mp, 3.3-12mm motorized varifocal lens dome camera and would also be used on the outside of the building. <http://www.g4direct.com/products-one/FLUX-SECURITY/IPX10>

All cameras are Flux Security branded cameras and have a 2-year warranty. The specs for the cameras are listed in the attached webpages, which will provide picture and further description of each item.

#### Mounts

1. The **FXM-WM1** is a wall mount for the IPX10 cameras. <http://www.g4direct.com/products-one/CCTV-Accessories/FXM-WM1>
2. The **FXM-JB5** is a junction box that connects to the FXM-WM1 for the IPX10 cameras.  
<http://www.g4direct.com/products-one/CCTV-Accessories/FXM-JB5>
3. The **Flux-FXM-JB3** is a junction box for the IPX8 cameras.  
<http://www.g4direct.com/Home?search=jb3>



The wire used for the camera system is Cat6. All wiring will be run neatly throughout the building and hidden inside open cavity walls. If brick or unpassable interior walls, then cable raceway will be used and match color of the walls. The same Cat6 wiring will be used to connect multiple TV/monitors throughout the building. At the end of the Cat6 wiring will be an HDMI extender which will connect into a HDMI splitter at the main hub location (where NVR will be placed). The wiring at the main hub coming from the wall will be in tubing to keep setup clean.

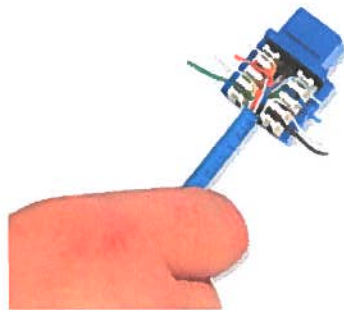
The TV mounts will be mounted on the walls with the least amount of wiring showing from the back of the TV. Connections will be made with HDMI cables and power to the TV.

All connections for camera system, the Cat6 wiring connection will be made with push through Cat6 connectors and crimp tool.

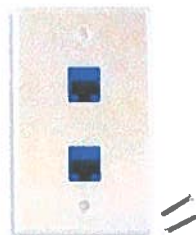


**Estimate #2037\* Wiring for internet and phone lines**

Installation would include Cat6 network lines throughout the building at roughly 25 different internet ends. The lines would be installed the walls and with connections being made on a punch down keystone jack similar to the following:



The keystone jack will then be placed in wall outlet and labeled with "D" for data. Example V1 would be voice 1 and connected into the proper switch and will correspond with the number on the patch panel. See below photo of example:



The rack mount is a Navepoint 12U Wall Mount Network Server 600mm Depth Cabinet Rack capable of holding NVR inside along with Gigabit Rackmount Switch and any other equipment that needs to be in rack mount. The rack mount will be mounted to the wall in the desired location.

The phone wire will be installed with the internet wiring. Once type of wiring is confirmed to connect phone lines this will be installed in the wall outlet with a keystone jack and labeled with "V" voice.

Training on the camera system will occur once product is installed at location. Training manual will also be available via website <https://g4direct.app.box.com/s/q8gtid342mt3vjrp1fsywupq5ltxi3h0> Contact can also be made with Visual Armor Security to answer any questions regarding camera system.



The following is the information in regards to the door "buzz in" system that would be installed. All door buzz in equipment is from Aiphone. Model number is in bold while description follows.

2 **GT-DB**: Audio Module for GT Modular Entrance Panel

2 **GT-DBP**: Audio Panel for GT-DB(-VN)

4 **GT-SW**: 4-Call Switch Module for GT Modular Entrance Panel:

2 **GF-4P**: 4-Call Button Panel

2 **GF-2P**: 2-Call Button Panel

2 **GF-3F**: 3-Module Front Frame

2 **GT-103HB**: 1x3 Module Surface Mount Box

1 **GT-BC**: Audio Bus Control Unit

1 **GTW-DP**: Distribution Point Wiring Terminal Strip

6 **GT-1A**: Audio Open Voice Tenant Station

6 **MCW-S/A**: Desk Stand, Adjustable 1 W-DIN11 DIN Rail Mounting Bracket

1 **PS-2420UL**: 24VDC Power Supply, 2A, UL Listed

1 **87200210C**: 2 conductor, 20AWG, Solid, Non-Shielded, Low Cap Wire, 1000'

**\*Please note the updated pricing due to further labor work at location.**

**Thank you and we look forward to working with you,**

**Allan Moon**

**Visual Armor Security**

**440-867-1464 (Office)**

**440-336-1719 (Cell)**



• = IPX8 Cameras

• = IPX 10 Cameras