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## تحويل مستندات

2.2/12/14

الموضوع :

المنافسة رقم ١٠٩-٣٥٤٣/٣٧٠٦ جلسة ٢٠٢٢/٠١/٣١ لتوفير منظومة مراقبة بالكاميرات لزوم

المعدات التابعة لإدارة الكراكات بالإسماعيلية.

### المرفقات:

- عدد/ ٤ خطابات متضمنة الإستفسارات الفنية لبعض الشركات التي قامت بإجراء المعاينة الميدانية لمواقع

تركيب الكاميرات بالمعديات التابعة لإدارة الكراكات بالإسماعيلية.

محول إلى إدارة التحركات- إدارة الكراكات:

يرجاء التكرم بالإستلام والدراسة وسرعة الإفادة بالرأي.

وشكراً ...

مدير إدارة التموين

المشاهد

15/54

(محمد حسين عبيد المتعصم)

- صورة السيد اللواء/ مختار رئيس الهيئة للأمن.

## Hazem Hassen

**From:** Abdelkhalek Ahmed <Abdelkhalek.Ahmed@system.com.eg>  
**Sent:** Tuesday, December 20, 2022 12:33 PM  
**To:** Hazem Hassen; mahmedsca@gmail.com  
**Cc:** Tarek Ghareeb; طارق عبد الله  
**Subject:** RE: Ferry Boats CCTV system ( tender no: 109-528/3656)  
**Attachments:** NVX-with-SONY-FCB-FV7570-camera, Datasheet Marine standard.pdf; ExSite Enhanced Explosionproof Camera System.pdf; C50515  
A-z-ExSiteEnhanced2ExplosionProofInterFixed\_SpecSheet\_011222.pdf; Compact  
Camera System.pdf

Dear Mr. Hazem,

I would like to let you know that we got the quotation from the company you selected for this tender and as we can see that they are not meeting the technical requirements.

We are going to meet them next week with the technical department and we will come back to you with the meeting.



**SYSTEL TELECOM**  
**Abdelkhalek Abdelhamid**  
**Senior System Architect**  
M: +203 271150888  
E: Abdelkhalek.ahmed@system.com.eg

**From:** Hazem Hassen [mailto:hazem.hassan@suezcanal.gov.eg]  
**Sent:** Monday, December 19, 2022 10:30 AM  
**To:** mahmedsca@gmail.com  
**Cc:** Tarek Ghareeb <tarek.ghareeb@suezcanal.gov.eg>; طارق عبد الله <awaleid.abdalla@suezcanal.gov.eg>  
**Subject:** Ferry Boats CCTV system ( tender no: 109-528/3656)

I would like to let you know that you have confirmed that we send any technical document that is required for the project and any updates that are required during the process.  
We are waiting for you to let us know the next step for it 12/19/2022.

Best regards



**SUEZ CANAL**

**Hazem Hassen**  
**IT Procurement Engineer**

Mobile: +203 271150888 | Email: hassen.hazem@suezcanal.gov.eg

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## 2.1.0 Introduction

The primary objective of this document is to provide a comprehensive overview of the project's goals, scope, and objectives. It serves as a foundational reference for all stakeholders involved in the project, ensuring a shared understanding of the project's purpose and direction.

The document is structured to provide a clear and concise overview of the project, covering the following key areas:

- Project Overview and Objectives
- Scope and Deliverables
- Stakeholders and Roles
- Project Organization and Governance
- Risk Management
- Communication and Reporting
- Appendices

The document is intended to be a living document, subject to updates and revisions as the project progresses. It is the responsibility of the project manager to ensure that the document remains current and relevant throughout the project lifecycle.

This document is a confidential document and its contents should not be disclosed to any third party without the prior written consent of the project manager. It is the responsibility of all project team members to maintain the confidentiality of the project information.

## TECHNICAL DATA

### GENERAL

Project Name: [Project Name]  
Project Number: [Project Number]

### MECHANICAL

Material: [Material]  
Dimensions: [Dimensions]

### ELECTRICAL

Voltage: [Voltage]  
Current: [Current]

### HOUSINGS WINDOW

Material: [Material]

Dimensions: [Dimensions]

Weight: [Weight]

Color: [Color]

### ELECTRICAL

Voltage: [Voltage]

Current: [Current]

Power: [Power]

Frequency: [Frequency]

Efficiency: [Efficiency]

Cost: [Cost]

### NETWORK

Protocol: [Protocol]

Speed: [Speed]

### CYBERSECURITY

Encryption: [Encryption]

Authentication: [Authentication]

Authorization: [Authorization]

Integrity: [Integrity]

Availability: [Availability]

Confidentiality: [Confidentiality]

Compliance: [Compliance]



## INTERFACE

- 24V DC 10A power supply
- 4 digital inputs
- 4 PNP 24V DC 10A digital outputs (open collector, max. 100mA)

## ENVIRONMENT

- Temperature: -25°C to +55°C
- Humidity: 0% to 95%
- Vibration: 10g (0.5 to 2000 Hz)
- Shock: 10g (0.5 to 2000 Hz)
- Storage: 0°C to +70°C
- Operating: 0°C to +55°C
- Mounting: DIN rail or panel mount

## CERTIFICATIONS

- CE mark (EN 60947-1, EN 60947-2)
- UL mark (UL 508)
- VDE mark (VDE 0528)
- RoHS mark (RoHS 2.0)
- REACH mark (REACH SVHC)
- ISO 9001 mark (ISO 9001)
- ISO 14001 mark (ISO 14001)
- ISO 45001 mark (ISO 45001)

## CERTIFICATIONS - RAILWAY APPLICATIONS

- EN 50155 (Railway applications - Power supply equipment)
- EN 50124 (Railway applications - EMC)

## CERTIFICATIONS - MARINE APPLICATIONS

- IEC 60947-1 (Marine applications - Power supply equipment)
- IEC 60947-2 (Marine applications - Digital outputs)
- IEC 60947-3 (Marine applications - Analog outputs)
- IEC 60947-4 (Marine applications - Relay outputs)

## ACCESSORIES

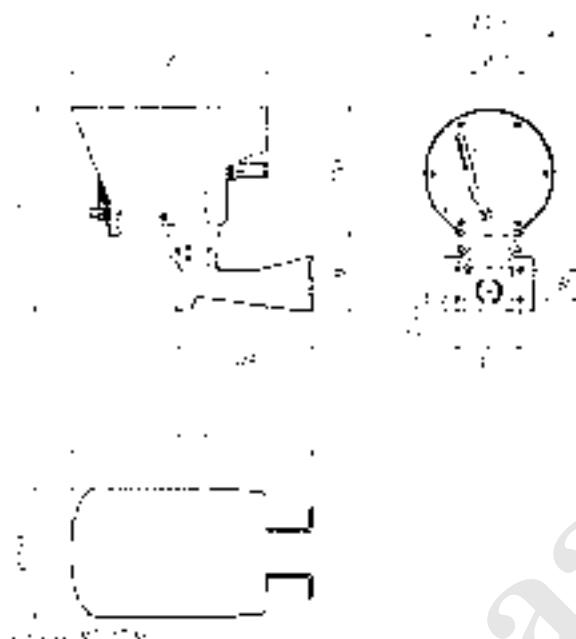
- DIN rail (35mm, 7.5mm, 15mm, 22.5mm, 35mm, 45mm, 60mm, 75mm, 90mm, 105mm, 120mm, 135mm, 150mm, 165mm, 180mm, 195mm, 210mm, 225mm, 240mm, 255mm, 270mm, 285mm, 300mm, 315mm, 330mm, 345mm, 360mm, 375mm, 390mm, 405mm, 420mm, 435mm, 450mm, 465mm, 480mm, 495mm, 510mm, 525mm, 540mm, 555mm, 570mm, 585mm, 600mm, 615mm, 630mm, 645mm, 660mm, 675mm, 690mm, 705mm, 720mm, 735mm, 750mm, 765mm, 780mm, 795mm, 810mm, 825mm, 840mm, 855mm, 870mm, 885mm, 900mm, 915mm, 930mm, 945mm, 960mm, 975mm, 990mm, 1005mm, 1020mm, 1035mm, 1050mm, 1065mm, 1080mm, 1095mm, 1110mm, 1125mm, 1140mm, 1155mm, 1170mm, 1185mm, 1200mm, 1215mm, 1230mm, 1245mm, 1260mm, 1275mm, 1290mm, 1305mm, 1320mm, 1335mm, 1350mm, 1365mm, 1380mm, 1395mm, 1410mm, 1425mm, 1440mm, 1455mm, 1470mm, 1485mm, 1500mm, 1515mm, 1530mm, 1545mm, 1560mm, 1575mm, 1590mm, 1605mm, 1620mm, 1635mm, 1650mm, 1665mm, 1680mm, 1695mm, 1710mm, 1725mm, 1740mm, 1755mm, 1770mm, 1785mm, 1800mm, 1815mm, 1830mm, 1845mm, 1860mm, 1875mm, 1890mm, 1905mm, 1920mm, 1935mm, 1950mm, 1965mm, 1980mm, 1995mm, 2010mm, 2025mm, 2040mm, 2055mm, 2070mm, 2085mm, 2100mm, 2115mm, 2130mm, 2145mm, 2160mm, 2175mm, 2190mm, 2205mm, 2220mm, 2235mm, 2250mm, 2265mm, 2280mm, 2295mm, 2310mm, 2325mm, 2340mm, 2355mm, 2370mm, 2385mm, 2400mm, 2415mm, 2430mm, 2445mm, 2460mm, 2475mm, 2490mm, 2505mm, 2520mm, 2535mm, 2550mm, 2565mm, 2580mm, 2595mm, 2610mm, 2625mm, 2640mm, 2655mm, 2670mm, 2685mm, 2700mm, 2715mm, 2730mm, 2745mm, 2760mm, 2775mm, 2790mm, 2805mm, 2820mm, 2835mm, 2850mm, 2865mm, 2880mm, 2895mm, 2910mm, 2925mm, 2940mm, 2955mm, 2970mm, 2985mm, 3000mm, 3015mm, 3030mm, 3045mm, 3060mm, 3075mm, 3090mm, 3105mm, 3120mm, 3135mm, 3150mm, 3165mm, 3180mm, 3195mm, 3210mm, 3225mm, 3240mm, 3255mm, 3270mm, 3285mm, 3300mm, 3315mm, 3330mm, 3345mm, 3360mm, 3375mm, 3390mm, 3405mm, 3420mm, 3435mm, 3450mm, 3465mm, 3480mm, 3495mm, 3510mm, 3525mm, 3540mm, 3555mm, 3570mm, 3585mm, 3600mm, 3615mm, 3630mm, 3645mm, 3660mm, 3675mm, 3690mm, 3705mm, 3720mm, 3735mm, 3750mm, 3765mm, 3780mm, 3795mm, 3810mm, 3825mm, 3840mm, 3855mm, 3870mm, 3885mm, 3900mm, 3915mm, 3930mm, 3945mm, 3960mm, 3975mm, 3990mm, 4005mm, 4020mm, 4035mm, 4050mm, 4065mm, 4080mm, 4095mm, 4110mm, 4125mm, 4140mm, 4155mm, 4170mm, 4185mm, 4200mm, 4215mm, 4230mm, 4245mm, 4260mm, 4275mm, 4290mm, 4305mm, 4320mm, 4335mm, 4350mm, 4365mm, 4380mm, 4395mm, 4410mm, 4425mm, 4440mm, 4455mm, 4470mm, 4485mm, 4500mm, 4515mm, 4530mm, 4545mm, 4560mm, 4575mm, 4590mm, 4605mm, 4620mm, 4635mm, 4650mm, 4665mm, 4680mm, 4695mm, 4710mm, 4725mm, 4740mm, 4755mm, 4770mm, 4785mm, 4800mm, 4815mm, 4830mm, 4845mm, 4860mm, 4875mm, 4890mm, 4905mm, 4920mm, 4935mm, 4950mm, 4965mm, 4980mm, 4995mm, 5010mm, 5025mm, 5040mm, 5055mm, 5070mm, 5085mm, 5100mm, 5115mm, 5130mm, 5145mm, 5160mm, 5175mm, 5190mm, 5205mm, 5220mm, 5235mm, 5250mm, 5265mm, 5280mm, 5295mm, 5310mm, 5325mm, 5340mm, 5355mm, 5370mm, 5385mm, 5400mm, 5415mm, 5430mm, 5445mm, 5460mm, 5475mm, 5490mm, 5505mm, 5520mm, 5535mm, 5550mm, 5565mm, 5580mm, 5595mm, 5610mm, 5625mm, 5640mm, 5655mm, 5670mm, 5685mm, 5700mm, 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16185mm, 16200mm, 16215mm, 16230mm, 16245mm, 16260mm, 16275mm, 16290mm, 16305mm, 16320mm, 16335mm, 16350mm, 16365mm, 16380mm, 16395mm, 16410mm, 16425mm, 16440mm, 16455mm, 16470mm, 16485mm, 16500mm, 16515mm, 16530mm, 16545mm, 16560mm, 16575mm, 16590mm, 16605mm, 16620mm, 16635mm, 16650mm, 16665mm, 16680mm, 16695mm, 16710mm, 16725mm, 16740mm, 16755mm, 16770mm, 16785mm, 16800mm, 16815mm, 16830mm, 16845mm, 16860mm, 16875mm, 16890mm, 16905mm, 16920mm, 16935mm, 16950mm, 16965mm, 16980mm, 16995mm, 17010mm, 17025mm, 17040mm, 17055mm, 17070mm, 17085mm, 17100mm, 17115mm, 17130mm, 17145mm, 17160mm, 17175mm, 17190mm, 17205mm, 17220mm, 17235mm, 17250mm, 17265mm, 17280mm, 17295mm, 17310mm, 17325mm, 17340mm, 17355mm, 17370mm, 17385mm, 17400mm, 17415mm, 17430mm, 17445mm, 17460mm, 17475mm, 17490mm, 17505mm, 17520mm, 17535mm, 17550mm, 17565mm, 17580mm, 17595mm, 17610mm, 17625mm, 17640mm, 17655mm, 17670mm, 17685mm, 17700mm, 17715mm, 17730mm, 17745mm, 17760mm, 17775mm, 17790mm, 17805mm, 17820mm, 17835mm, 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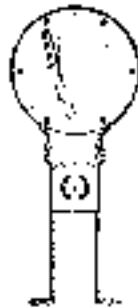
# M10 WITH SONY FCB-EX7339 CAMERA CONFIGURATION OPTIONS

Image	Camera	Version	Release
1. 2/3" Super HAD CCD	with Sony FCB-EX7339 camera (1.44 Mpixel)	1. 2/3" Super HAD CCD 2. 2/3" Super HAD CCD 3. 2/3" Super HAD CCD	1. 2/3" Super HAD CCD 2. 2/3" Super HAD CCD 3. 2/3" Super HAD CCD

## TECHNICAL DRAWINGS

The indicated measurements are expressed in millimeters









[illegible][illegible]

- **Phantom J-Center** : The center of the bounding box of the object is not the center of the object.
- **Adaptive Model Detection** : The model is updated as the object moves.
- **Camera Substage** : The camera is used to track the object.
- **Directional Motion** : The object moves in a specific direction.
- **Loitering Detection** : The object is detected in a specific area.
- **Object Counting** : The number of objects is counted.
- **Object Removal** : The object is removed from the scene.
- **Stopped Vehicle** : The vehicle is stopped.

- **Stress** is a response to a stimulus
- **Stressors** are the stimuli that cause stress
- **Stress** is a response to a stimulus
- **Stressors** are the stimuli that cause stress
- **Stress** is a response to a stimulus
- **Stressors** are the stimuli that cause stress

1. **Introduction**  
 The purpose of this report is to provide a comprehensive overview of the project's progress and to identify any challenges or risks that may arise. The report is structured as follows:  
 - **Section 1:** Introduction  
 - **Section 2:** Project Overview  
 - **Section 3:** Progress Report  
 - **Section 4:** Challenges and Risks  
 - **Section 5:** Conclusion

2. **Project Overview**  
 The project is a new initiative aimed at improving the efficiency of the company's operations. It involves the implementation of a new software system and the training of staff to use it effectively. The project is expected to be completed by the end of the year.

3. **Progress Report**  
 The project has made significant progress since its inception. The software system has been successfully installed and tested. The staff has received initial training and is now beginning to use the system. The project is on track to meet its deadline.

4. **Challenges and Risks**  
 There are several challenges and risks associated with this project. The most significant ones are:  
 - **Time Constraints:** The project has a tight deadline, and any delays could impact the company's operations.  
 - **Resource Allocation:** The project requires a significant amount of resources, and it is essential to ensure that they are allocated effectively.  
 - **Staff Training:** The staff needs to be trained thoroughly to use the new system, and this process may take more time than anticipated.

5. **Conclusion**  
 The project is progressing well, and it is expected to be completed successfully. However, it is important to remain vigilant and address any challenges or risks that may arise. The project team will continue to monitor the progress and ensure that the project stays on track.

1. The first step is to identify the key components of the system. This includes understanding the hardware, software, and data involved.

1. General Description: This document provides the technical specifications for the H.264 High Profile MP GOP structure. It details the supported resolutions, aspect ratios, and maximum bit rates for various frame sizes and frame rates.

2. Resolution and Aspect Ratio: The supported resolutions are listed in the table below. The aspect ratio is 16:9 for all resolutions.

Resolution			H.264 High Profile MP GOP structure:		
MPx	Width	Height	Aspect Ratio	Maximum IPx	Recommended Bit Rate (Mbps)
MP1	1280	720	16:9	15	15
MP2	1920	1080	16:9	25	25
MP3	2560	1440	16:9	35	35
MP4	3840	2160	16:9	55	55
MP5	4096	2160	16:9	65	65
MP6	5120	2880	16:9	85	85
MP7	6144	3456	16:9	105	105
MP8	7680	4320	16:9	135	135
MP9	8192	4608	16:9	145	145
MP10	8192	4608	16:9	145	145
MP11	8192	4608	16:9	145	145
MP12	8192	4608	16:9	145	145
MP13	8192	4608	16:9	145	145
MP14	8192	4608	16:9	145	145
MP15	8192	4608	16:9	145	145
MP16	8192	4608	16:9	145	145
MP17	8192	4608	16:9	145	145
MP18	8192	4608	16:9	145	145
MP19	8192	4608	16:9	145	145
MP20	8192	4608	16:9	145	145
MP21	8192	4608	16:9	145	145
MP22	8192	4608	16:9	145	145
MP23	8192	4608	16:9	145	145
MP24	8192	4608	16:9	145	145
MP25	8192	4608	16:9	145	145
MP26	8192	4608	16:9	145	145
MP27	8192	4608	16:9	145	145
MP28	8192	4608	16:9	145	145
MP29	8192	4608	16:9	145	145
MP30	8192	4608	16:9	145	145
MP31	8192	4608	16:9	145	145
MP32	8192	4608	16:9	145	145
MP33	8192	4608	16:9	145	145
MP34	8192	4608	16:9	145	145
MP35	8192	4608	16:9	145	145
MP36	8192	4608	16:9	145	145
MP37	8192	4608	16:9	145	145
MP38	8192	4608	16:9	145	145
MP39	8192	4608	16:9	145	145
MP40	8192	4608	16:9	145	145
MP41	8192	4608	16:9	145	145
MP42	8192	4608	16:9	145	145
MP43	8192	4608	16:9	145	145
MP44	8192	4608	16:9	145	145
MP45	8192	4608	16:9	145	145
MP46	8192	4608	16:9	145	145
MP47	8192	4608	16:9	145	145
MP48	8192	4608	16:9	145	145
MP49	8192	4608	16:9	145	145
MP50	8192	4608	16:9	145	145
MP51	8192	4608	16:9	145	145
MP52	8192	4608	16:9	145	145
MP53	8192	4608	16:9	145	145
MP54	8192	4608	16:9	145	145
MP55	8192	4608	16:9	145	145
MP56	8192	4608	16:9	145	145
MP57	8192	4608	16:9	145	145
MP58	8192	4608	16:9	145	145
MP59	8192	4608	16:9	145	145
MP60	8192	4608	16:9	145	145
MP61	8192	4608	16:9	145	145
MP62	8192	4608	16:9	145	145
MP63	8192	4608	16:9	145	145
MP64	8192	4608	16:9	145	145
MP65	8192	4608	16:9	145	145
MP66	8192	4608	16:9	145	145
MP67	8192	4608	16:9	145	145
MP68	8192	4608	16:9	145	145
MP69	8192	4608	16:9	145	145
MP70	8192	4608	16:9	145	145
MP71	8192	4608	16:9	145	145
MP72	8192	4608	16:9	145	145
MP73	8192	4608	16:9	145	145
MP74	8192	4608	16:9	145	145
MP75	8192	4608	16:9	145	145
MP76	8192	4608	16:9	145	145
MP77	8192	4608	16:9	145	145
MP78	8192	4608	16:9	145	145
MP79	8192	4608	16:9	145	145
MP80	8192	4608	16:9	145	145
MP81	8192	4608	16:9	145	145
MP82	8192	4608	16:9	145	145
MP83	8192	4608	16:9	145	145
MP84	8192	4608	16:9	145	145
MP85	8192	4608	16:9	145	145
MP86	8192	4608	16:9	145	145
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MP88	8192	4608	16:9	145	145
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MP94	8192	4608	16:9	145	145
MP95	8192	4608	16:9	145	145
MP96	8192	4608	16:9	145	145
MP97	8192	4608	16:9	145	145
MP98	8192	4608	16:9	145	145
MP99	8192	4608	16:9	145	145
MP100	8192	4608	16:9	145	145

3. Performance Characteristics: The performance characteristics of the H.264 High Profile MP GOP structure are detailed in the table below. The table shows the maximum bit rate and recommended bit rate for various frame sizes and frame rates.

4. Test Results: The test results for the H.264 High Profile MP GOP structure are detailed in the table below. The table shows the maximum bit rate and recommended bit rate for various frame sizes and frame rates.

5. Conclusion: The H.264 High Profile MP GOP structure is a highly efficient and scalable video coding standard. It provides high-quality video at low bit rates and is suitable for a wide range of applications.

6. Appendix A: H.264 High Profile MP GOP structure. This appendix provides the H.264 High Profile MP GOP structure for various frame sizes and frame rates. The structure is defined by the sequence of frames in the GOP, including the I-frame, P-frame, and B-frame.

7. Appendix B: H.264 High Profile MP GOP structure. This appendix provides the H.264 High Profile MP GOP structure for various frame sizes and frame rates. The structure is defined by the sequence of frames in the GOP, including the I-frame, P-frame, and B-frame.

8. Appendix C: H.264 High Profile MP GOP structure. This appendix provides the H.264 High Profile MP GOP structure for various frame sizes and frame rates. The structure is defined by the sequence of frames in the GOP, including the I-frame, P-frame, and B-frame.

9. Appendix D: H.264 High Profile MP GOP structure. This appendix provides the H.264 High Profile MP GOP structure for various frame sizes and frame rates. The structure is defined by the sequence of frames in the GOP, including the I-frame, P-frame, and B-frame.

10. Appendix E: H.264 High Profile MP GOP structure. This appendix provides the H.264 High Profile MP GOP structure for various frame sizes and frame rates. The structure is defined by the sequence of frames in the GOP, including the I-frame, P-frame, and B-frame.

		Power	
Temperature		40 VDC	100-240 V
Model	Description	Power (W)	Power (W)
MP1	1280x720	15	15
MP2	1920x1080	25	25
MP3	2560x1440	35	35
MP4	3840x2160	55	55
MP5	4096x2160	65	65
MP6	5120x2880	85	85
MP7	6144x3456	105	105
MP8	7680x4320	135	135
MP9	8192x4608	145	145
MP10	8192x4608	145	145
MP11	8192x4608	145	145
MP12	8192x4608	145	145
MP13	8192x4608	145	145
MP14	8192x4608	145	145
MP15	8192x4608	145	145
MP16	8192x4608	145	145
MP17	8192x4608	145	145
MP18	8192x4608	145	145
MP19	8192x4608	145	145
MP20	8192x4608	145	145
MP21	8192x4608	145	145
MP22	8192x4608	145	145
MP23	8192x4608	145	145
MP24	8192x4608	145	145
MP25	8192x4608	145	145
MP26	8192x4608	145	145
MP27	8192x4608	145	145
MP28	8192x4608	145	145
MP29	8192x4608	145	145
MP30	8192x4608	145	145
MP31	8192x4608	145	145
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MP33	8192x4608	145	145
MP34	8192x4608	145	145
MP35	8192x4608	145	145
MP36	8192x4608	145	145
MP37	8192x4608	145	145
MP38	8192x4608	145	145
MP39	8192x4608	145	145
MP40	8192x4608	145	145
MP41	8192x4608	145	145
MP42	8192x4608	145	145
MP43	8192x4608	145	145
MP44	8192x4608	145	145
MP45	8192x4608	145	145
MP46	8192x4608	145	145
MP47	8192x4608	145	145
MP48	8192x4608	145	145
MP49	8192x4608	145	145
MP50	8192x4608	145	145
MP51	8192x4608	145	145
MP52	8192x4608	145	145
MP53	8192x4608	145	145
MP54	8192x4608	145	145
MP55	8192x4608	145	145
MP56	8192x4608	145	145
MP57	8192x4608	145	145
MP58	8192x4608	145	145
MP59	8192x4608	145	145
MP60	8192x4608	145	145
MP61	8192x4608	145	145
MP62	8192x4608	145	145
MP63	8192x4608	145	145
MP64	8192x4608	145	145
MP65	8192x4608	145	145
MP66	8192x4608	145	145
MP67	8192x4608	145	145
MP68	8192x4608	145	145
MP69	8192x4608	145	145
MP70	8192x4608	145	145
MP71	8192x4608	145	145
MP72	8192x4608	145	145
MP73	8192x4608	145	145
MP74	8192x4608	145	145
MP75	8192x4608	145	145
MP76	8192x4608	145	145
MP77	8192x4608	145	145
MP78	8192x4608	145	145
MP79	8192x4608	145	145
MP80	8192x4608	145	145
MP81	8192x4608	145	145
MP82	8192x4608	145	145
MP83	8192x4608	145	145
MP84	8192x4608	145	145
MP85	8192x4608	145	145
MP86	8192x4608	145	145
MP87	8192x4608	145	145
MP88	8192x4608	145	145
MP89	8192x4608	145	145
MP90	8192x4608	145	145
MP91	8192x4608	145	145
MP92	8192x4608	145	145
MP93	8192x4608	145	145
MP94	8192x4608	145	145
MP95	8192x4608	145	145
MP96	8192x4608	145	145
MP97	8192x4608	145	145
MP98	8192x4608	145	145
MP99	8192x4608	145	145
MP100	8192x4608	145	145

11. Appendix F: H.264 High Profile MP GOP structure. This appendix provides the H.264 High Profile MP GOP structure for various frame sizes and frame rates. The structure is defined by the sequence of frames in the GOP, including the I-frame, P-frame, and B-frame.



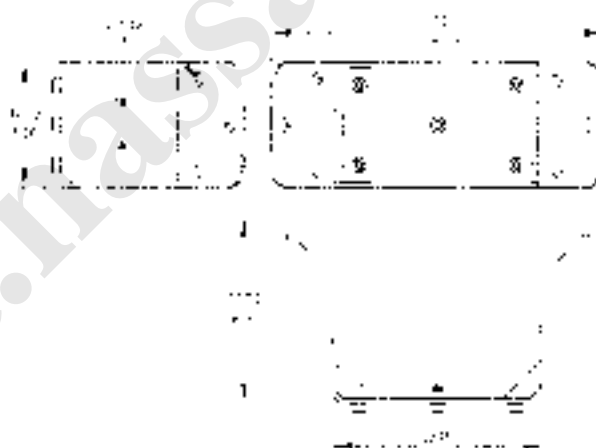
# PAN/2019 DIAL MOUNT



## 6"X6"X20" CORNER ADAPTER



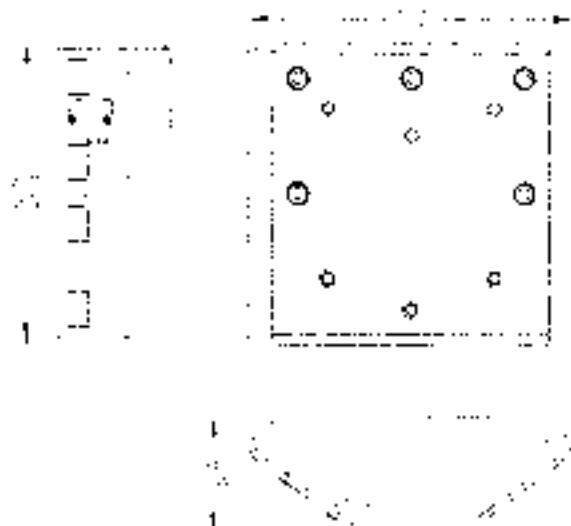
Note: This adapter is used to mount the dial to the corner of a structure.



## 6"X6"X20" POLE ADAPTER



Note: This adapter is used to mount the dial to the pole of a structure.



Model Number	PLZT Coeff	Common Leads	Package
PLZT 100K	100	100	100
PLZT 100K	100	100	100
PLZT 100K	100	100	100

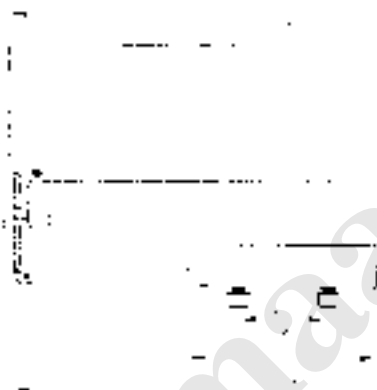
[illegible]

- [illegible]

- [illegible]

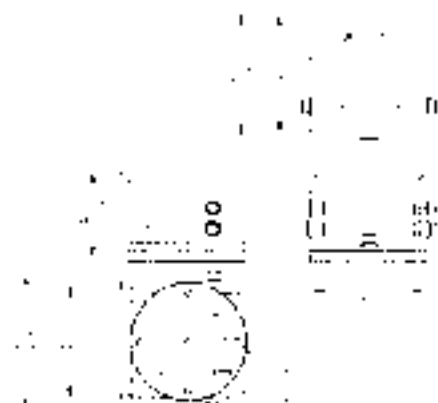
**U.S. DEPARTMENT OF THE INTERIOR**

- ● ● ●



Wstęp: ...

ARM720 ADJUSTABLE MOUNT



2010  
 USA & Canada  
 International  
 www.100air.org

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion. The number of people aged 65 and over is expected to increase from 200 million to 400 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

## ExSite® Enhanced 2 Explosionproof Fixed Camera System

Proven. Proven. Proven.

## ExSite® Enhanced 2 Explosionproof Fixed Camera System

### Product Features

- Up to 1920 x 1080p Resolution Wide Dynamic Range (WDR)
- Multi-Stream H.264 and H.265 IP Video with Smart Compression
- Rated to Operate from -50 °C to +60 °C (-58 °F to +140 °F) with a built-in converter
- AISI 316L Stainless Steel Electro Polished Construction
- Standard IP Ethernet Connection
- Full Support Built-In Analytics
- Ultra-High Image Stabilization
- OnOff Profiles B, G, and I Compliant
- Certifications: IEC Part 15, CE, UL, UL100, ENEC, FM, RoHS
- Hazardous Location Certifications: IECEx, ATEX, INMETRO, EACEx, UL94



### Camera System

ExSite® Enhanced 2 Series is purpose-built to monitor operations and control processes in hazardous locations with risks of explosion due to the presence of flammable fluids, gases or dust. Rugged outdoor cameras available in fixed, fixed compact, and PTZ, all with stringent explosion proof and dust tight construction requirements when complying with international standards (UL, CSA, ATEX, IECEx, EACEx).

High resolution operators crisp and clear regardless with 30x optical zoom, with day/night, and low light capabilities for challenging lighting conditions common to hazardous areas. The ExSite® Enhanced 2 Series is built to survive in the harshest conditions, rated IP69 it protects from water, oil, and high and low temperatures with an operating range of -50 to +60 °C. It also has standard corrosion resistance.

ExSite® Enhanced 2 Series cameras are easy to install and adaptable to most operational needs.

ExSite® Enhanced 2 Series cameras support a range of input power options. ExSite® Enhanced 2 Series cameras also come standard with wetters and sun shields, capturing clear video regardless of the weather.

The ExSite® Enhanced 2 Series provides industry-leading image quality using a full HD 1080p camera producing up to 90 images per second. The camera's image-logs capability increases video quality in poor visibility conditions and 40-msec filtering is available.

### Video

ExSite® Enhanced 2 Series cameras provide flexible streaming options. The primary stream can be compressed with efficient H.265, H.264 High or Main profiles, or MJPEG formats. It can be configured to a constant frame rates and variable bit rates, to optimize image quality with bandwidth and storage.

offer an H.265+ Smart Compression is available on both H.265 and H.265+ reducing storage and bandwidth utilization.

## Open and Integrated

Existing EX3800 and 2 Series cameras can be easily connected to Pelco's open and integrated systems such as VideoSpan, EX3800 Enhanced 2 Series cameras integrate with Pelco's legacy system through the ONVIF Profile S, Profile G, and Profile T standards.

## Standard Web Interface

Pelco cameras use a standard Web browser interface for easy remote setup and administration. Controls are optimized for convenient one-step camera configuration for features including color, exposure, flicker control, backlight compensation, and streaming.

## Pelco Analytics

EX3800 Enhanced 2 Series cameras feature Pelco's Smart Analytics technology.

### Basic Analytics

EX3800 Enhanced 2 Series cameras feature basic video analytics including Simple Motion Detection and Camera Sabotage.

**Simple Motion Detection:** These algorithms allow the camera to record or send an alarm when there is motion in a selected zone or within the entire scene.

**Camera Sabotage:** An alarm is triggered if the lens is obstructed or when the camera is moved or tilted.

### Pelco Smart Analytics

Pelco Smart Analytics uses object detection AI technology delivering enhanced accuracy in high-contrast, poorly lit, and crowded indoor environments. Added processing power enables the EX3800 Smart Analytics detection of over 10 objects. Objects are classified even when they remain stationary. Pelco Smart Analytics recognizes people and vehicles (includes car, truck, bus, motorcycle, and bicycle) as well as animal. Ten different object behaviors can be recognized to create events integrated with many VMS systems.

Object Detected	Behavior Events	
People	Objects in Area	Objects Enter Area
Vehicles with Classification	Object Loitering	Objects Leave Area
	Objects Crossing Beam	Object Stays in Area
	Object Approaches or Enters Area	Object Not Detected
	Object Not Present in Area	

**Objects in Area:** The event is triggered when the selected object type moves into the region of interest.

**Object Loitering:** The event is triggered when the selected object type moves in the region of interest and dwells for an extended amount of time.



## ExSite® Enhanced 2

### Explosionproof Fixed Compact Camera System

#### Product Features

- Up to 3200 x 1800 Resolution Wide Dynamic Range (WDR)
- Multi-Support H.264 and H.265 IP Video with Smart Compression
- Remote Operate from -40 °C to +60 °C (-40 °F to 140 °F) with a 30-60° tilt angle
- AISI 316 Stainless Steel Exterior Polished Construction
- Standard Ethernet Connection
- Full Suite of Built-In Analytics
- Crimp Profiles S, G, and L Quickconnect
- Certifications: FM3C Part 15, UL, ULX, UL, IECEx, FM3C, FM3B, RS
- Hazardous Location Certifications: IECEx, ATEX, INMETRO, EAC Ex, ULX, UL



#### Camera System

ExSite® Enhanced 2 Series is purpose-built to monitor operations and control processes in hazardous locations with risks of explosion due to the presence of flammable liquids, gases or dust. Rugged outdoor cameras available in fixed, fixed tripod, and PTZ. Intricate support explosion-proof and dust-tight camera housing, camera complying with international standards (UL, CSA, ATEX, IECEx, EACEx).

Provide plant operators crisp and clear evidence with zoom, with true WDR, and low light capabilities for challenging lighting conditions common to hazardous areas. The ExSite® Enhanced 2 Series is built to survive in the harshest conditions, rated IP69 K protects from water, high wind, high and low temperatures with an operating range of -40 to +60°C. It is also resistant to corrosion elements.

ExSite® Enhanced 2 Series cameras are easy to install and adaptable to most operational needs. ExSite® Enhanced 2 Series cameras support a range of input power options. ExSite® Enhanced 2 Series cameras also come standard with wipers and sun shields, protecting the video output lens of the weather.

The ExSite® Enhanced 2 Series provides industry-leading image quality using 4K UHD 1080p camera producing up to 30 frames per second. The camera's image output capability increases video quality in poor visibility conditions and AI image filtering is available.

#### Video

ExSite® Enhanced 2 Series cameras provide flexible streaming options. The primary stream can be compressed with efficient H.265, H.264 High or Main profiles, or MJPEG for only. It can be configured to a variety of frame rates and variable bit rates to optimize image quality with bandwidth and storage.

Advanced Smart Compression is available at up to 1284 and 1285, minimizing storage and bandwidth utilization.

## Open and Integrated

ExSite Enhanced 2 Series cameras seamlessly connect to Pelco video management systems such as VideoAnalytics. ExSite Enhanced 2 Series cameras integrate with most third-party systems through the ONVIF Profile S, Profile G, and Profile T standards.

## Standard Web Interface

Pelco cameras use a standard Web browser interface for easy remote setup and administration. The interface is designed for convenient one-stop camera configuration and features in-depth color calibration, flicker control, low-light compensation, and streaming.

## Pelco Analytics

ExSite Enhanced 2 Series cameras feature Pelco's most advanced analytics technology.

### Basic Analytics

ExSite Enhanced 2 Series cameras feature basic video analytics including Simple Motion Detection and Camera Sabotage.

**Simple Motion Detection:** These algorithms allow the camera to record or send an alarm when there is motion detected in a selected region or with the entire scene.

**Camera Sabotage:** An alarm is triggered if the lens is obstructed or when the camera is repositioned.

### Pelco Smart Analytics

Pelco Smart Analytics uses object detection AI technologies delivering improved accuracy in both outdoor and indoor environments. Added processing power enables the tracking and classification of over 50 objects. Objects are classified when they remain stationary. Pelco Smart Analytics can begin and monitor vehicles (including car, truck, bus, motorcycle), and bicycle classification. Ten different object behaviors can be recognized to create events integrated with many VMS systems.

Object Detected		Behavior Events
Profile	Objects in Area	Objects Enter Area
Vehicles with Classification	Object Loitering	Objects Enter Area
	Objects Crossing Beam	Object Stops in Area
	Object Approaches or Enters Area	Direction Violated
	Object Not Present in Area	

**Objects in Area:** The event is triggered when the selected object type enters into the region of interest.

**Object Loitering:** The event is triggered when the selected object type moves into the region of interest and then stays in an extended amount of time.

## Hazem Hassen

**From:** Mohamed Chawar <mohawase@supnet.com.eg>  
**Sent:** Sunday, December 25, 2022 12:14 PM  
**To:** Hazem Hassen <mahmedsca@gmail.com>  
**Cc:** Tarek Ghaneb, walid.abdalla@supnet.com.eg  
**Subject:** RF Ferry Boats CCTV system ( tender no. 109-528/3656)

Dear A/,  
Hope this mail finds you well.  
Itgarding to our site survey, kindly find below our clarifications

- 1 خطير تحقيق منحه كمنحه فانه لنتميز بوضعي بغير مدارك الثلاثة الى 24 بوصة
- 2 استبدال التوجيه الاستثنائي بين سواتير حائط على السطح
- 3 تركيب Out door rack على سطح الكابينة

وتفضلوا بقبول وافر الاحترام والتعبير،

DR,  
Elshaymaa Engineering & Technology Co., Ltd  
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Dr. Hazem Hassen

**From:** Hazem Hassen <hazem\_hassan@suezcanal.gov.eg>  
**Sent:** Monday, December 19, 2022 10:30 AM  
**To:** mahmedsca@gmail.com  
**Cc:** Tarek Ghaneb <tarek.ghaneb@suezcanal.gov.eg>; walid.abdalla@supnet.com.eg  
**Subject:** Ferry Boats CCTV system ( tender no. 109-528/3656)

Hi,

As per our meeting on 12/19/2022, the following clarifications were provided by the client regarding the CCTV system for the ferry boats:  
1- The camera should be mounted on the roof of the cabin, not on the wall.  
2- The camera should be mounted on the roof of the cabin, not on the wall.  
3- The camera should be mounted on the roof of the cabin, not on the wall.

Best Regards,



SUEZ CANAL

Dr. Hazem Hassen  
IT Procurement Engineer

Dr. Hazem Hassen  
IT Procurement Engineer

## ملاحظات وإستفسارات بخصوص المناقصة المحدودة رقم 3656/528-109 لتوريد وتركيب كاميرات مراقبة للمعديت التابعة لإدارة الكراكات بالإسماعيلية

السادة / إدارة التموين – هيئة قناة السويس.

تحية طيبة،،،

بعد دراسة الموصفات الفنية المطلوبة وحسن المعينت اتلزمه بمناقصه موضوع الخطيب.  
نـو- الاستفسار واثاء الملاحظات الثانيه حتى نتمكن من تقديم انسيب الجول الصلبيه لتنفيذ  
المشروع على اكمل وجه.

### أولاً : ملاحظات من المعايير

- 1- هل يوجد مكتبة لتد الكبرلات داخل فليجبل مطبق على مدار الكاللات الخاص بالمعديه وهو  
لاسر- االم ان استخدام مواسير الاستاليسكيل هو ازماسي طيفه المواصعه في كل التميرات وهل  
يوجد كـ محدد له ام مقصود **AMT** .. برجاء التوضيح؟
- 2- هل سيتمكن من التخريد والتحاد لنشيت المواسير والتسميات المطلوبة لانجاز العمل؟
- 3- من المنوط بعملية التحاد ان تد التوافق عليها (او ناس الجيبه) ام اشركه المستفد ومن سيتحمل  
التكلفه؟
- 4- في حده اضافة ناست لتكامير- هل يمكن استخدام مواسير مختلفه ومزجه اكثر وعديتكم -  
م يلزم عادات من الاستاليسكيل؟

2.

All equipment must be able to operate in these harsh environments and its components must withstand the fast boat vibration.

يُشترط صياح جميع معدات NVR أن تكون قادرة على العمل في هذه البيئات القاسية وأن مكوناتها يجب أن تتحمل الاهتزاز السريع للزوارق.

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#### Project items and specifications (NVR)

NVR	<ul style="list-style-type: none"> <li>Up to 8 channels @ 8MP each</li> <li>108 Mbps Recording bandwidth</li> <li>Supports H.265/H.264</li> <li>Max 2 HDDs (Max 12TB)</li> <li>HDMI video out (support UHD (4K) resolution)</li> <li>5 PoE/PoE+ ports</li> <li>Support ONVIF for live stream and recording</li> <li>Sufficient storage for all camera recordings for maximum period of <b>15 days with additional 70% of free disk space</b> (storing full resolution at 25 fps)</li> <li>ONVIF compatibility.</li> <li>Mouse and keyboard</li> <li>All software needed and licenses for the operation must be included in the offer upon bidder design.</li> <li>Any accessories or equipment needed to accomplish the job responsibility of the bidder.</li> </ul>
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- كل ما في الزوارق أو الزوارق هو وصف NVR أو الزوارق مع خط متطلبات كل
- عدد الكاميرات 4 والخطوط حيز 8 بورت
- أقصى عرض التخزين: 2 HDDs Max 12TB
- كل زوارق 12 بورت للكاميرات أو أكثر ، وكل هذا يتم في الخطوط مع خط مساحة التخزين 15 يوم بمتابعة
- متطلبات
- كل المتطلبات للزوارق أو الزوارق هي كل الزوارق فقط بمتابعة
- كل متطلبات التخزين على H.264 or H.265 video compression

Page 10:

- The security solution should be approved by vendor.

يرجى التوضيح ما هو شكل الحل المقترح ؟

Page 10:

All outdoor cables should bear harsh environments, bending, salt water, high temperature and high humidity.

و جدول الكميات موضح الاتي

Purging Cable: 5/16" (shielded), LSZH,23AWG Solid Copper, Smoke Zero, 33' ROLL  
Halogen-free flame, Conductor Material: Bare copper, 33' reel start for outdoor - 305N

يرجى التوضيح الكابل المقطوب :

LSZH (this specs for indoor application)? Or UV resistant (this for outdoor applications)?

لذا نأمل التفضل بالنظر والتنبيه باللازم نحو موافقتنا بموعد إيفاء لجنة الاستفسارات الفنية قبل موعد لجنة فض المظاريف الفنية والمالية بوقت كاف حتى نتمكن من تقديم العروض المالية والفنية ثمناقصه محل الفحص أو موافقتنا بشرط على استفساراتنا كتابيا على الإيميل الخاص بالشركة .

ونفضلوا بقبول فائق الاحترام ...

تحريرا غي : 2022-12-1

## FERRY BOAT SURVEILLANCE PROJECT CLARIFICATIONS

## ■ CCTV Remarks:

1. Please advise if galvanized conduits will be accepted instead of stainless-steel tubes or not.  
Noting: galvanized conduits were installed in other ferry boats.
2. It was recommended during a site survey to propose a monitor of 24 inches or 32 inches instead of 43 inches, please confirm.
3. Please advise if acceptable to propose a normal NVR as an optional item.
4. Please advise if RIAD is required or not.

## ■ Network Remarks (Passive Components)

1. Please advise if the required UTP copper cable is CAT6 or CAT6A?
2. please confirm that the proposed copper cables will be UTP cables.
3. please confirm that the proposed patch panel will be for four ports.
4. It was mentioned in BOQ, that the quantity of Roll cable is 17 rolls, each roll is 305 meters therefore the total length of required cable is 5185 meters.  
Based on the above, please confirm that it will be accepted to propose 11 rolls, each roll is 500 meters in the case of CAT6A.
5. Please confirm that 9U rack will be accepted if 40% capacity free is achievable.