

Hitachi Floor Simulator

For

Hitachi

Date: Thu Feb 23 2017 18:42:36 GMT+0530 (India Standard Time)

Revision: [1.0]

Generated by:

**Hitachi Design Simulator Platform & Services**

Revision	Changes Details	Date
<b>1.0</b>	Template	Thu Feb 23 2017 18:42:36 GMT+0530 (India Standard Time)

**References :**

1. [https://ec.europa.eu/home-affairs/sites/homeaffairs/files/e-library/documents/policies/security/pdf/secerca\\_final\\_report\\_volume\\_\\_1\\_main\\_report\\_en.pdf](https://ec.europa.eu/home-affairs/sites/homeaffairs/files/e-library/documents/policies/security/pdf/secerca_final_report_volume__1_main_report_en.pdf)

## Contents

1. Hitachi Floor Simulator Scope.	1
2. Hitachi Floor Simulator Scenes Layouts.	2
2.1. 3D Model Scene.	2
2.2. Scene [A].	2
2.3. Scene [B].	3
2.4. Scene [C].	3
2.5. Scene [D].	4
2.6. Scene [E].	4
2.7. Field of View (FOV) Coverage Area Estimation.	4
3. Hitachi Floor Simulator Selected Hardware.	5
4. Hitachi Floor Simulator Resources Requirements.	6
4.1. Security Cameras Bandwidth and Storage Calculation.	6
4.2. Other Hardware Requirements.	6
4.3. Power Requirements.	6
5. Hitachi Floor Simulator Compliance Assessment.	7

## Figures

Figure 1: 3D Model (Dollhouse perspective) of Project Site.	1
Figure 2: 3D Model Front View of Project Site.	2
Figure 3: Floor Plan of Project Site.	2
Figure 4: Entrance View of Project Site.	3
Figure 5: First Floor -Camera 1 View of Project Site.	3
Figure 6: First Floor -Camera 3 View of Project Site.	4
Figure 7: Est. Coverage Area of Project Site.	4
Figure 8: Hardware List of Project Site.	5
Figure 9: Bandwidth and Storage Resource Requirements of Project Site.	6
Figure 10: Est. General Framework: Security Regulation, Conformity Assessment.	7

# 1. Hitachi Floor Simulator Scope

Brief description on the project...



Figure 1: 3D Model (Dollhouse perspective) of Project Site

Project Site Location :

Hitachi America, Ltd.(San Francisco Head office)  
1000 Marina Boulevard,  
Brisbane CA 94005, U.S.A.

Web link to the project ‘site’ :

<http://www.hitachi.com>

Project contacts :

Company	Name & Title	Contact Info
XXXX	YYYY	ZZZZ
XXXX	YYYY	ZZZZ
XXXX	YYYY	ZZZZ

## 2. Hitachi Floor Simulator Scenes Layouts

### 2.1. 3D Model Scene



Figure 2: 3D Model Front View of Project Site

### 2.2. Scene [A]



Figure 3: Floor Plan of Project Site

2.3. Scene [B]



Figure 4: Entrance View of Project Site

2.4. Scene [C]

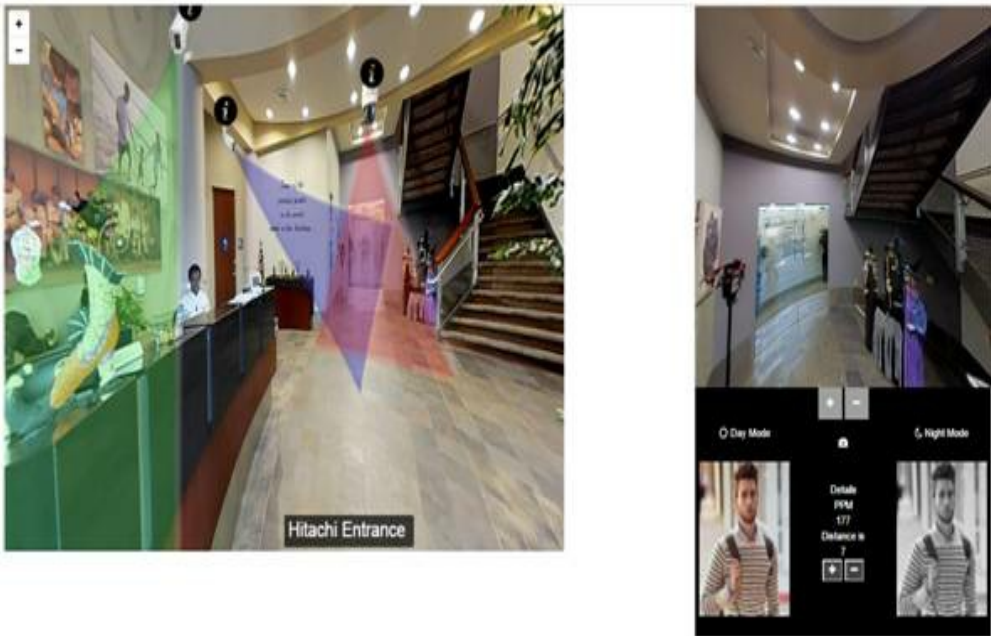


Figure 5: First Floor -Camera 1 View of Project Site

2.5.Scene [D]

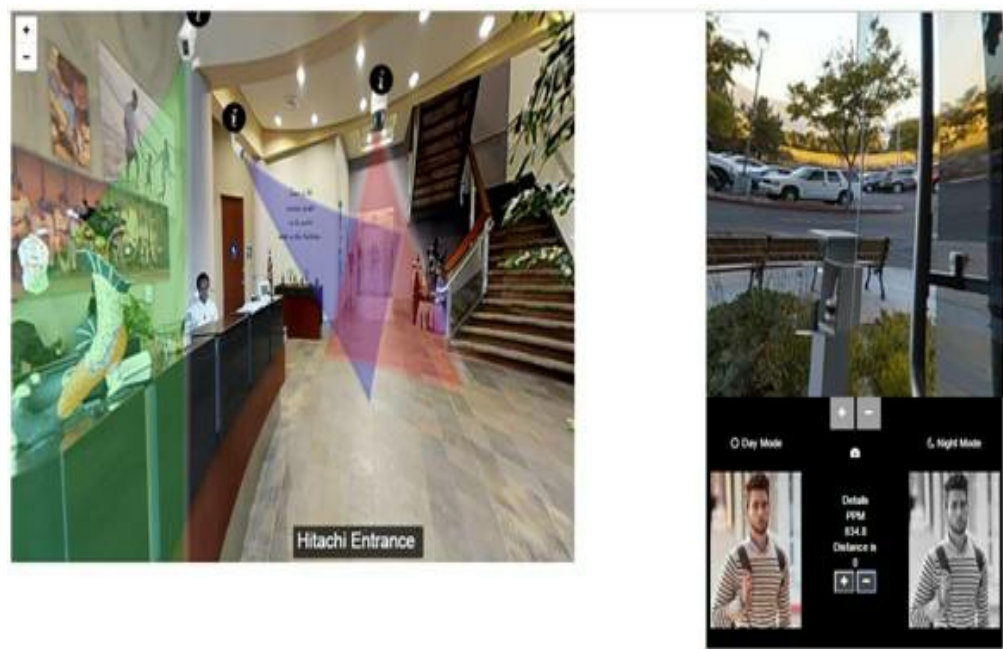


Figure 6: First Floor -Camera 3 View of Project Site

2.6.Scene [E]

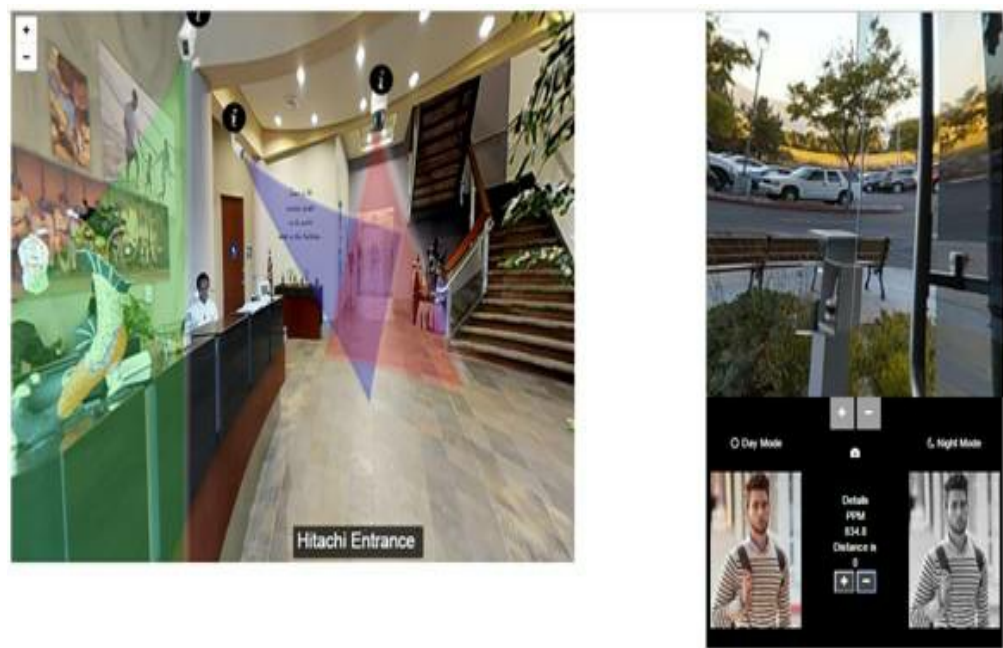


Figure 7: First Floor -Camera 2 View of Project Site

2.7. Field of View (FOV) Coverage Area Estimation

Scene ID	Cam ID	Max. FOV Angle	Lens Focal	Est. distance from target	Est. Coverage (%)
1	1	180 x 180	2.8mm	20 ft	100%
	2	140 x 120	7.5mm	30 ft	85%
	3	120 x 90	10.8mm	15 ft	70%
2	4				
	5				
	6				
Total					90%

Figure 7: Est. Coverage Area of Project Site



### 3. Hitachi Floor Simulator Selected Hardware

Category	Brand / Model	Qty	Est. Unit Cost	Additional Info
<b>Category 1 – [Security Cameras]</b>				
IP Camera	Hitachi DI-CB320G	3	\$650	1080p, ONVIF, PoE, 3yr Warranty
IP Camera	ACTi E221	3	\$450	1.3MP, ONVIF, PoE, 3yr Warranty
<b>Total Category 1</b>		<b>6</b>	<b>\$3300</b>	
<b>Category 2 – [Access Control]</b>				
Access Terminal	Hitachi FVA-100SLS-01	5	\$1800	
Enrollment Unit	Hitachi FVN600E	1	\$900	
<b>Total Category 2</b>		<b>6</b>	<b>\$9900</b>	
<b>Category 3 – [Specialized Sensors]</b>				
3D Motion Sensors	Hitachi	10	\$600	
<b>Total Category 3</b>		<b>10</b>	<b>\$6000</b>	
<b>Category X – [Other H/W...]</b>				
<b>Est. Total Hardware Cost</b>			<b>\$TOTAL...</b>	<b>\$22,950</b>

Figure 8: Hardware List of Project Site

# 4. Hitachi Floor Simulator Resources Requirements

## 4.1. Security Cameras Bandwidth and Storage Calculation

Scene ID	Cam ID	Resolution	Codec	FPS	Days	Activity	Rec. Profile	B/W (Mbps)	Storage(GB)
1	1	1920x1080 (2MP)	H.264	30	30	Med. Indoor	Cont. 24H	11050	3575
	2	1920x1080 (2MP)	H.264	15	30	Med. Indoor	Cont. 24H	5500	1795
	3	1280x1024(1.3MP)	H.264	15	30	Low Indoor	Motion 12H	3075	500
2	4								
	5								
	6								
							TOTAL	19625(Mbps)	5870(GB)

Figure 9: Bandwidth and Storage Resource Requirements of Project Site

## 4.2. Other Hardware Requirements

TBD..

## 4.3. Power Requirements

TBD..

# 5. Hitachi Floor Simulator Compliance Assessment

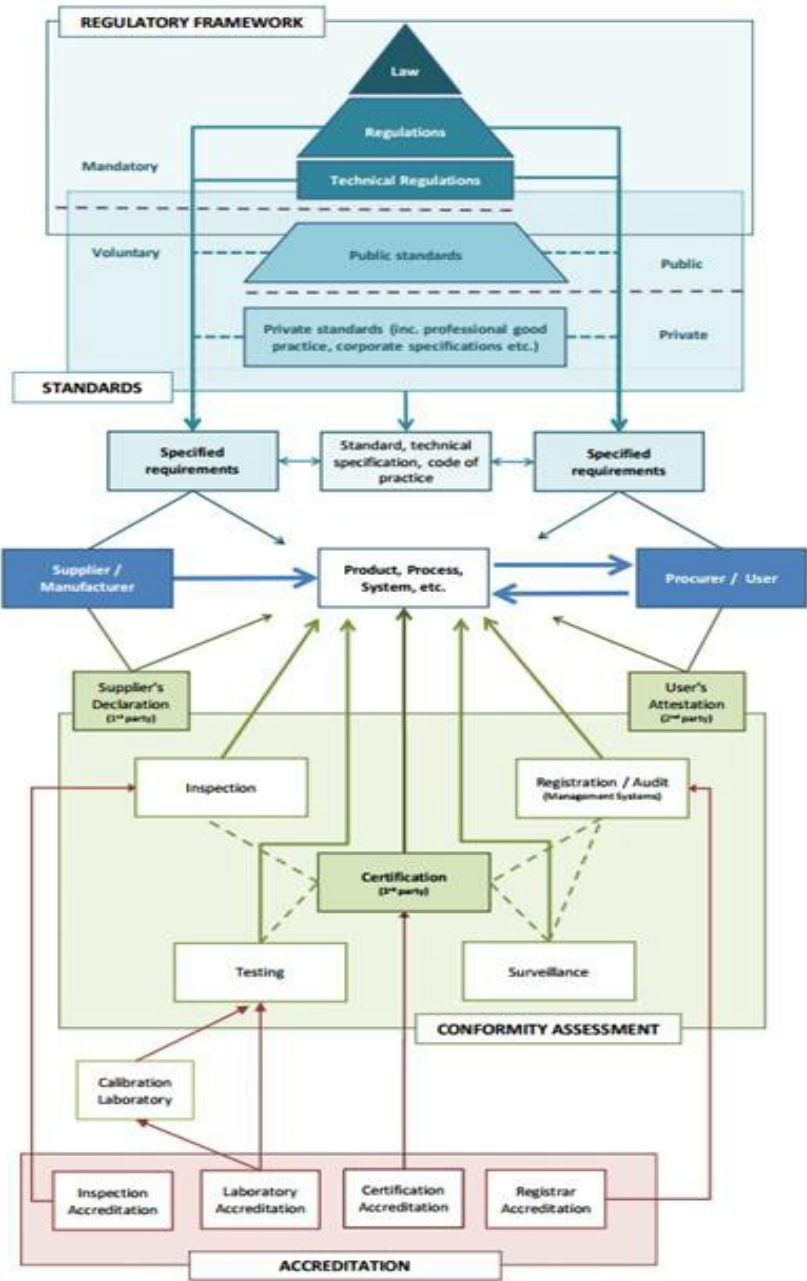


Figure 10: Est. General Framework: Security Regulation, Conformity Assessment