HOW-TO GUIDE: **BOSCH VIDEO** SYSTEMS REVIT FAMILIES



How-to guide: BOSCH VIDEO SYSTEMS REVIT FAMILIES

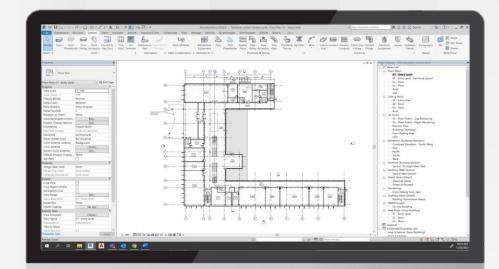


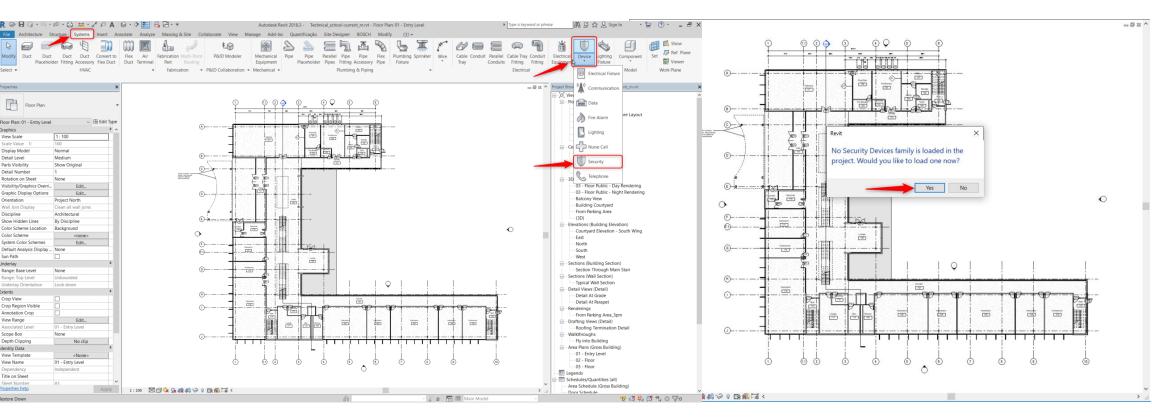


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- 1) Loading a Revit family for a Bosch camera
 - 1. In the ribbon bar, select **Systems > Device> Security**.
 - 2. To load a family, select Yes.



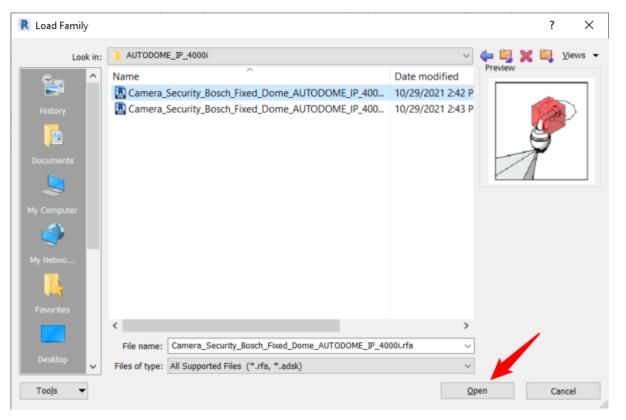
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1) Loading a Revit family for a Bosch camera

3. Browse to the family that you want to load and click **Open**.



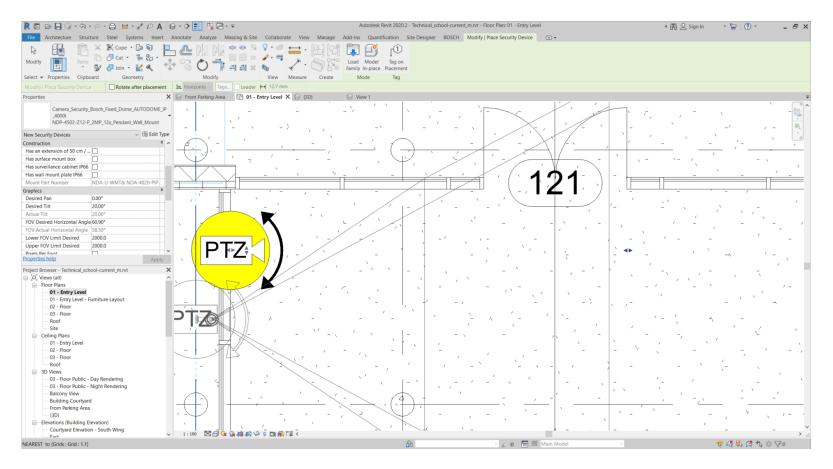
The family is loaded into Revit.

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1) Loading a Revit family for a Bosch camera

4. Left click to place the family in the desired location.



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2) Selecting the mounting type

1. In the **Properties** viewlet select the family.

A windows opens, showing the different mounting possibilities.

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File Architecture Structure Systems Insert Annotate Analyze Massing & Site Colla	borate View Manage Add-Ins Quantificação Site Designer BOSCH Modify Se	ecurity Devices •	
📰 🖓 🖗 Join + 🕍 🔍 🐚 🔚 🚏 🍈 🔾 🖷	A A Family New Host		
Select - Clipboard Geometry View Properties Modify	Measure Create Mode Host		
Modify Security Devices Moves With Nearby Elements Activate Dimensions			
Properties X	이 모이 이 옷에 다 나는 것도 같은 것을 하는 것이 같이 있는 것이 같이 많이 가 봐.	· · · · · · · · · · · · · · · · · · ·	Project Browser - Technical_school-current_m.rvt
Camera_Security_Bosch_Fixed_Dome_AUTOD OME_IP_4000i NDP-4502-212- P_2MP_172x_Pendant_Wall_Mount	이는 것이 가지 않는 것이 있는 것이 있었다. 같은 것은 이번 가지 않는 것이 있는 것이 있다. 같은 것은 이번 가지 않는 것이 있는 것이 있는 것이 있다.		
Search	A second s	이 말 들었는 것 같은 것 같아요. 이 말 같아요.	02 - Floor
Camera_Security_Bosch_Fixed_Dome_AUTODOME_IP_4000i			
NDP-4502-Z12-P_2MP_12x_Pendant_Corner_Mount	지수는 이번에 있는 것은 것은 것을 가격했다. 이번에 가지?	en e al plan de la complete de la c	Ceiling Plans
NDP-4502-Z12-P_2MP_12x_Pendant_Pipe_Mount	コンチョン ほうかん オード ひとうどう		
NDP-4502-Z12-P_2MP_12x_Pendant_Pole_Mount			02 - Floor
NDP-4502-Z12-P_2MP_12x_Pendant_Wall_Mount			
		(121)	⊟–3D Views
NDP-4502-Z12-P_2MP_12x_Surface-ceiling_Mount	- []] 국외는 요구입니 가지님, 지원 가지 않는 것		
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Camera_Security_Bosch_Fixed_Dome_AUTODOME_IP_4000i : NDP-4502-Z12-P_2MP_12x_Pendant_Wall_Mou			Balcony View
Mount Part Number NDA-U-WMT& NDA-402			Building Courtyard From Parking Area
Desired Pan 0.00°	그 지 말 같은 사람이 많이 집 집 집 있는 것 같이 많이	이 집 문화 같은 것 같은 것 같은 것 같은 것 같이 많이 많다.	(3D)
Desired Tilt 20.00°		an a	 Elevations (Building Elevation) Courtyard Elevation - South Wing
Actual Tilt 20.00°	n an 🖬 ya shekara na 🖓 🖓 ya a ƙasar ƙwara sa ƙ	이 문제 이 가지 않는 것이 가지 않는 것이 같이 같이 같이 했다.	East
FOV Desired Horizontal 60.90°	tan kulturen eta barreta datuera datuer		North
FOV Actual Horizontal A 58.50°			South West
Upper FOV Limit Desired 2000.0			
Pixels Per Foot	한 내는 것이 없는 그 나라는 것 같은 것이 없을 것이?		Section Through Main Stair
Show DORI Field of View			Sections (Wall Section)
Show Manual Field of Vie 🗹	그 가지 않는 것 같아. 지난 것 같아요? 것 같아. 가지?	가 같다. 그 같은 것 같은 것 같아요. 이 것 같아요.	Typical Wall Section
Target Resolution in Obj 250.000000	<u></u> III (C. C. C. <mark></mark> III) (C. C. C		Detail Views (Detail) Detail At Grade
Target Resolution on Obj 6856.8	ہ ایک اور اور کا بھی جاتا ہے۔ کا کہ اور اور کا کا کا کا کا کا ک	enter (la pressa de la case pr <u>ela</u>	Detail At Parapet
Electrical - Loads		는 가는 같은 같은 것을 가지 않는 것 같아. 것 같이 나는 것 같은 것을 수 없다.	- Renderings
Panel Circuit Number	(101B) (101C)		From Parking Area_3pm
Identity Data		ちょうしゃり かけ ちょうショナション した	Drafting Views (Detail) Roofing Termination Detail
Accessories Description Pendant wall mount.			- Walkthroughs
CTN NDP-4502-Z12-P	그는 이는 것 같아요. 그 같아요. 가슴	제 이 가격 전망을 가지 않는 것 같아요.	Fly into Building
Camera Data			Area Plans (Gross Building)
Data Field	물건은 사내가 물건 옷을 위한 구름을 가져 가지 않는 것같이?	요즘 집 집에 집에서 가지 않는다.	01 - Entry Level 02 - Floor
Number Data		그는 [동안 가지, 고도 한 것 같은]	
Image Comments	(101A) (101D)	그래요 승규는 것 같아. 김 국가	
Mark 1		이 너희 물건이 한 것 같은 것 같아요.	General Schedules/Quantities (all)
Properties help Apply 1:100 🖾 🗇 😘 😪 🐼 🔊 🔉 🕻		· · · · · · · · · · · · · · · · · · ·	Area Schedule (Gross Building)
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.		V 😰 10 🔚 💹 Main Model 🗸 🗸	1 → Door Schedule 1 ▲ ♣ Թ ♣ ○ \[5:1
			1 D T T T T T T T T T T T T T T T T T T

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2) Selecting the mounting type

2. Select a mounting option.

The selected mounting option is displayed in the project.

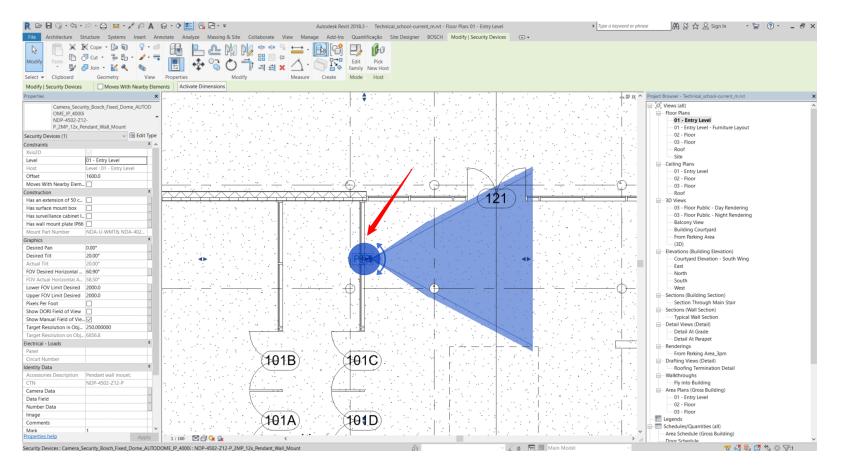
R 🖻 🖥 🕼 • th • r f	3 ⇔ • x* i0 /	A 🔂 • 🔿 🗾 🗄	Autod	esk Revit 2018.3 - manual pro	ject.rvt - 3D View: {3D}	Type a keyword or phrase	🗛 🖄 🏠 🚨 Sign In	· 🛱 🕜 · 💶 🗗 🗙
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	Moves With Nearby		Dimensions					
Properties		×					- 🛛 🛛 ^	Project Browser - manual project.rvt X
Camera_Security_Bosch IP_4000i NDP-4502-Z12-P_2MP		ount					FROM HEHT	
Security Devices (1)		* A						03 - Floor
Constraints		* ^					S - P	Roof
Xvis2D								Site
	Entry Level							Ceiling Plans
	I:01 - Entry Level							01 - Entry Level
Offset 1600.	.0							02 - Floor
Moves With Nearby Eleme								03 - Floor
Construction		*		\sim				Roof
Has an extension of 50 cm								B 3D Views
Has surface mount box								03 - Floor Public - Day R
Has surveillance cabinet IP66								03 - Floor Public - Night
Has wall mount plate IP66								Balcony View
Mount Part Number NDA-	-U-WMT & NDA-4020							Building Courtyard
Graphics		*				_		From Parking Area
Desired Pan 0.00°	•							NDP-4502-Z12-P_2MP_1
Desired Tilt 0.00°	,							(3D) Elevations (Building Elevatic
Actual Tilt 0.00°)							Courtyard Elevation - So
FOV Desired Horizontal An 60.90)°							East
FOV Actual Horizontal Angle 58.50)°							North
Lower FOV Limit Desired 2000.								South
Upper FOV Limit Desired 2000.								West
Pixels Per Foot								Sections (Building Section)
Show DORI Field of View								Section Through Main S
Show Manual Field of View								Sections (Wall Section)
Target Resolution in Object 250.0	00000							Typical Wall Section
Target Resolution on Object 6856.							-	Detail Views (Detail)
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Click to select, TAB for alternates, CT	TRL adds, SHIFT unsele	cts.	â	~	🖉 :0 🛛 🔚 💹 Main Model	\sim		🖗 🚑 🛼 🌈 🏷 💿 🖓:1

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3) Viewing and editing the family data

1. Select the family.



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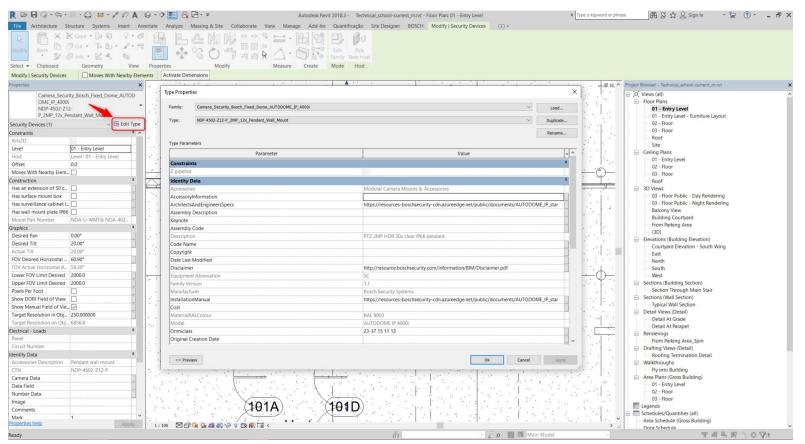
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3) Viewing and editing the family data

2. In the **Properties** viewlet select **Edit Type**.

The Type Properties windows opens and displays Identity Data information.

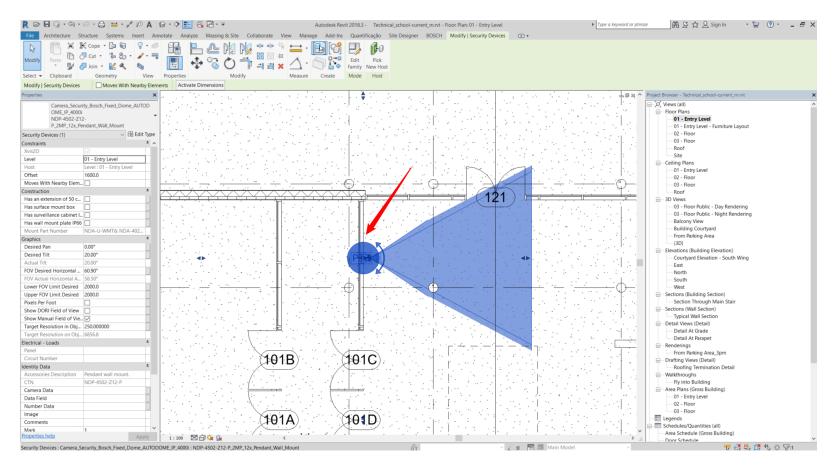


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4) Editing the camera height

1. Select the family.

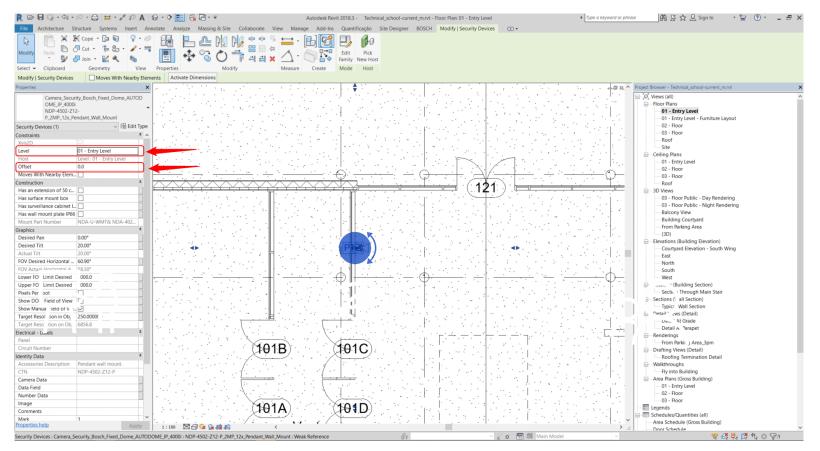


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4) Editing the camera height

- 2. In the **Constraints** viewlet select **Level** to choose the level of the camera.
- 3. In the **Constraints** viewlet insert **Offset** value and enter the desired height of the camera.

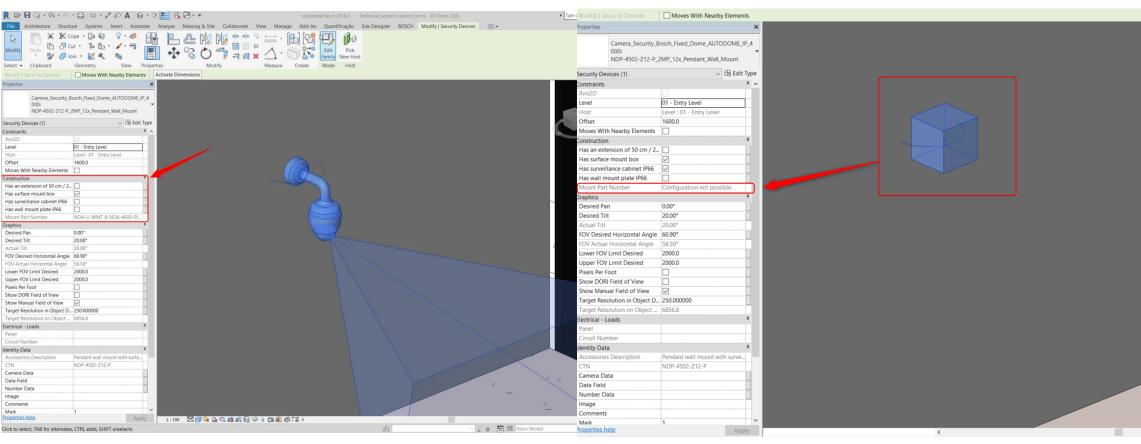


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5) Bosch camera accessories selection

1. In the **Properties** viewlet under **Construction** category click on the check box to select an accessory. In case of incompatibility, ERROR message will appear under **Mount Part Number**.

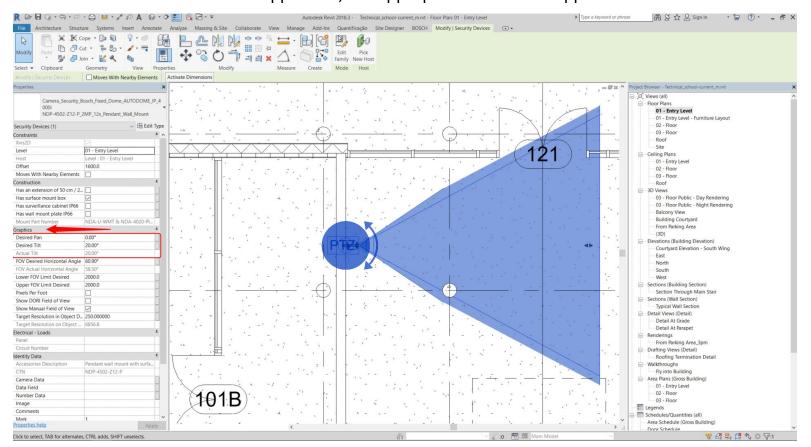


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6) Field of view properties

In the Properties viewlet Graphics category insert the desired values for Tilt and Pan.
 In case the inserted value for Tilt is not applicable, the appropriate values will appear under Actual Tilt.

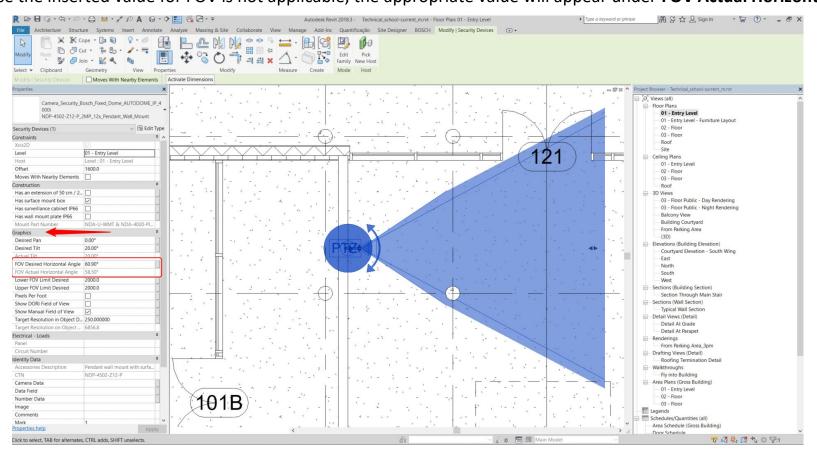


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6) Field of View Properties

In the Properties viewlet, Graphics category, insert the desired value in FOV Desired Horizontal Angle.
 In case the inserted value for FOV is not applicable, the appropriate value will appear under FOV Actual Horizontal Angle.



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Field of view (graphics panel tabs)

_indoor_8000i_	ty_Bosch_Fixed_Domo 2MP_3-9mm MP_3-9mm_Pendant		₽ ▼	
Security Devices (1)		🗸 🛱 Edit Ty	уре	
Construction		*	· ^	
Has Pendant pipe mount 1	1			
Has an extension of 50 cm	/ 🗌			
Has plenum-rated In-ceiling	g 🗌			
Has surface mount box				
Has surveillance cabinet IP6	56 🗌			
Mount Part Number	NDA-WMT & ND	A-8000-PIPW		
Graphics		\$		
Desired Pan	0.00°			
Desired Tilt	20.00°			1
Actual Tilt	20.00°			
FOV Desired Horizontal An	gle 117.00°			2
FOV Actual Horizontal Ang	le 117.00°			2
Lower FOV Limit Desired	2000.0			3
Upper FOV Limit Desired	2000.0			4
Pixels Per Foot				5
Show DORI Field of View				6
Show Manual Field of View	\checkmark			
Target Resolution in Object	250.00000			· 8
Target Resolution on Object	t 2353.2			- 9
Upright Mode				10
Electrical - Loads		\$		11
Panel				12
Circuit Number			~	
Properties help		Apply	/	

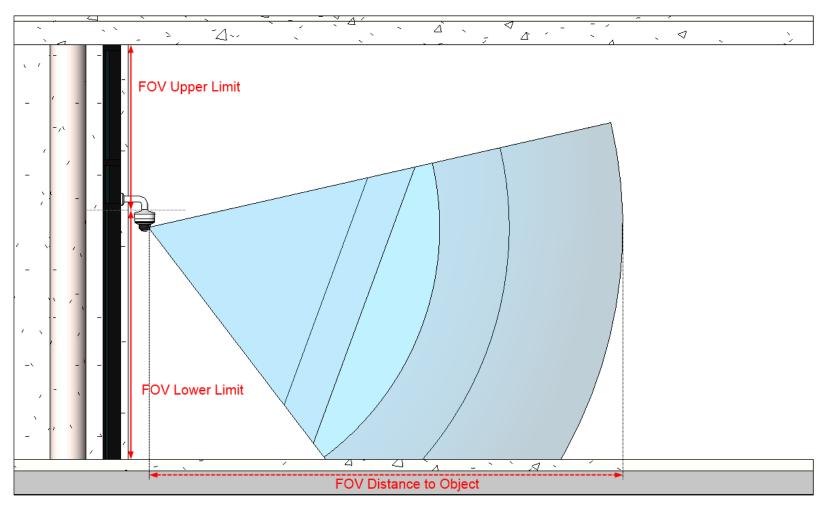
- Desired pan: controls the FOV rotation on the floorplan/XY plan, using Z-axis as its center 1. point
- **Desired tilt**: controls the FOV tilting angle XY plan 2.
- FOV Desired horizontal angle: controls the aperture angle for the FOV of the camera, and 3. is restricted by the lens limitations
- FOV Actual Horizontal angle: shows the current FOV angle based on Desired FOV 4. horizontal angle and lens restrictions
- 5. **Lower FOV Limit Desired:** the distance where the FOV Visualization is cut off below the camera
- **Upper FOV Limit Desired:** the distance where the FOV Visualization is cut off above the 6. camera
- Pixels per foot: converts the units from metric to imperial 7.
- Show Dori Field of view: controls the visibility for the DORI FOV, DORI FOV indicate the 8. distance that camera is covering to Detect, Observe, Recognize, and Identify. By pulling the arrows of the DORI FOV, the user will be able to visualize the maximum coverage of the camera
- 9. Show Manual Field of view: controls the visibility for the manual FOV
- 10. Target Resolution in Object Desired: controls the resolution, in pixels per meter, establishing a bound for the image resolution
- **11.** Target resolution on object distance: displays in meters the distance limit for the identification of elements using the specific target resolution desired
- **Upright Mode:** rotates the FOV from horizontal to vertical position, 90° rotation using the 12. Y-axis as its center point

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7) Field of view (graphics panel tabs)

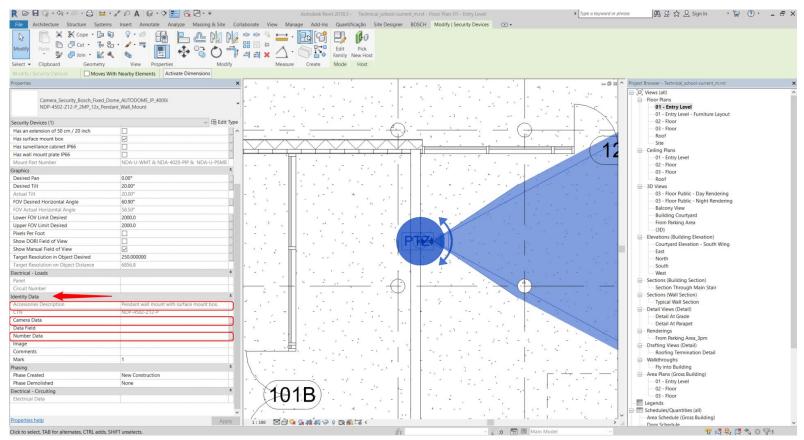


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8) Viewing camera data

- 1. In the **Properties** viewlet > Identity Data category, the Accessory Description shows the selected accessories for the camera.
- 2. Under Camera Data and Number Data insert a custom name for the 3D View that will be generated with Bosch add-in.

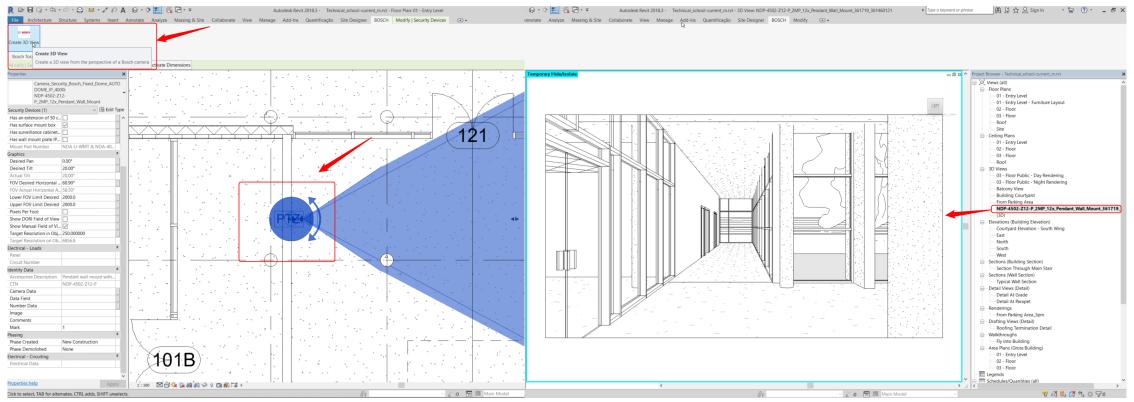


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9) 3D view creation

- 1. Install Revit (Bosch_3D_View_Creator) add-in. The **Bosch** tap will appear in the **Ribbon.**
- 2. To generate a 3D view displaying the field of view for Bosch camera, click on Bosch create 3D view, then click on the camera. The 3D view will pop up on the screen.



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