

## Blue Iris VMS Driver Suite version 1.0.8 (2211)

#### Quick Start Guide

This guide takes for granted you already know how to download, install and activate the Blue Iris Video Management Software (VMS) for Windows. You also need to have all your cameras configured and working in the software prior of going through the steps of this guide (Do not forget to open the port 81 in Windows Firewall!).

If you need help setting up a Blue Iris system, please refer to the software documentation or request support from the Blue Iris support team.

Blue Iris is available from their website: <u>https://blueirissoftware.com/</u>

#### Step-by-Step guide

### Part 1: Preparing a Blue Iris (v5) instance to work with the Domaudeo Blue Iris driver suite for Control4:





In the Blue Iris Settings Window, go to the Users tab, click and create a new user named "Control4" with "control4" as password. Leave any of the options as-is and click

 Blue Iris Settings

 Profiles
 Schedule
 Email servers
 FTP servers
 Mobile devices

 Digital IO and IoT
 Joystick
 Keyboard shortcuts
 Macros
 Audio
 Cameras

 About
 Clips and archiving
 Users
 Web server
 Startup
 Other

 Enabled
 Name
 Type
 Image: Console
 Admin

 Image: Console
 Admin
 Admin
 Image: Console
 Admin

 Add
 Edit...
 Remove
 Copy
 Copy

 OK
 Cancel
 Help
 Help

ID	
Name Control4 Password	d ••••••
Access Administrator LAN only Remote management PTZ/control Audio listen/talk Limit to camera groups Select View recorded clips Only clips from enabled cameras Time limit Per stream (min): 60 $\frac{r}{v}$ Per session (min): 60 $\frac{r}{v}$ Between sessions (min): 1 $\frac{r}{v}$ Per day (min): 120 $\frac{r}{v}$	Scheduled access
Stream profile#: 0 × v FPS max: 10 × v	Actions
Notifications Push notifications: 0 1 2 3 4 5 6 7 Alert and status counters	On login On logout
Exempt from remote access status alert	Homepage: OK Cancel Help

**3-** Still in the Blue Iris Settings Window, select he Web server tab and click on the Advanced... button. <u>UNCHECK</u> the "Use secure session keys and login page" option on the top of the Web Server – Advanced window. Click OK to close all windows and return to the main screen.

Profiles Schedule Email servers FTP servers Mobile devices	
Digital IO and IoT Joystick Keyboard shortcuts Macros Audio Cameras	
About Clips and archiving Users Web server Startup Other	
✓ Enable the HTTP web server on port: 81 ★	
Root:     C:\Program Files\Blue Iris 5\www      Virtual:     /	
☑ Use UI3 for non-IE browsers	
Local, internal (LAN) access	
http:// 192.168.26.103:81 Interfaces: 192.168.26.103 🗸	
Listen/bind to one selected LAN IP only	
Remote, external (WAN/Internet) access	
http://81 Refresh	
Refresh external IP at startup and again every 30 👘 min 🔽 Log change as error	
Stunnel is installed for HTTPS on port: 443 T HTTPS LAN also	
Remote access Wizard	
OK Cancel Help	
Web server - Advanced	
Authentication	UNCHECK
Require from: All connections 🔄 🗆 Use secure session keys and login page	ONCHECK
	this option
Limit IP addresses:	this option!
Limit IP addresses:	this option!
	this option!
Auto-ban IP after unsuccessful attempts: 5	this option!
	this option!
Auto-ban IP after unsuccessful attempts: 5	this option!
<ul> <li>Auto-ban IP after unsuccessful attempts: 5</li> <li>Release banned IP after minutes: 60</li> </ul>	this option!
<ul> <li>Auto-ban IP after unsuccessful attempts: 5</li> <li>Release banned IP after minutes: 60</li> <li>Use X-Forwarded-For headers</li> <li>Send Strict-Transport-Security header</li> <li>Limit logins: 99</li> <li>Log ALL connections, not just logins</li> </ul>	this option!
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## **4**- On the main screen, Right-Click of your camera and select Camera settings...



5-

In the Camera Settings window, check the "Anamorphic (force size) option and MAKE SURE the Size is set to a 16:9 resolution. If not, change the height to match the width and get a true 16:9 aspect ratio.

My Camera 1							
Webcast	Schedule	PT2	Z/Control	Wa	tchdog		
General Video	Audio	Trigger	Record	Alerts	Post		
Device type       Screen capture       USB, Firewire, or Analog       Input   Advanced							
Network IP	<u>ht</u>	ttp://192.168.2	26.111	Conf	igure		
C Broadcast from cl	lient app 🛛 🗖	Designated cl	one master				
Image format Size: 2688 x 1520 ☑ Anamorphic (force		Max. ra Delay (ms	ate: 1000000 [ ec): 0	7	•		
🗖 Flip left/right		Rota	ate: No	•			
Area of interest (A	AOI) Edit	De-interla	ace: None	-			
Enable overlays	Edit	3	360: No	-			
Hardware accelerated decode: Default							
		OK	Ca	ncel	Help		

You can use a Screen Ratio Calculator app or website to make sure your aspect ratio is 16:9 compliant, here's an example using <a href="https://calculateaspectratio.com/">https://calculateaspectratio.com/</a>

→ C' û	0 🔒	https://calculateaspectration	p.com
Common Presets			
HD Video 16:9			
Ratio width		Ratio height	
16	* *	9	ł
Pixels width		Pixels height	
2688	ŧ	1512	k

Enter the camera's native Pixel width value and use the calculate Pixel Height value to transpose in Blue Iris

So entering "2688" as width gives us 1512 as the height, not 1520, you need to change the resolution in the Camera Size field:

ly Camera 1	Webcast	Î	Schedule	) PT	Z/Control	Wat	tchdog
Webcast Schedule	General	Video	Audio	Trigger	Record	Alerts	Post
General Video Audio Trig	Device type		II				
Device type	O Screen ca	pture	Dire	ctDraw Blits	s 💌 Pri	mary	-
Screen capture     DirectDray	O USB, Firev	wire, or An	alog				~
C USB, Firewire, or Analog			Input			- Adva	nced
Input	Network	IP	http	<u>p://192.168.2</u>	26.111	Confi	gure
Network IP <u>http://192</u>	C Broadcas	t from clie	nt app 🛛 🗖 D	esignated cl	one master		
C Broadcast from client app 🔲 Designa	Image form				100000		
Image format	Size: 268		<u> </u>		ate: 1000000		<u> </u>
Size: 2688 x 1520	🗹 Anamorp	hic (force s	size)	Delay (ms	ec): 0	÷	
Anamorphic (force size) Dela	🗆 Flip left/r	ight		Rot	ate: No	•	
Flip left/right	C Area of ir	nterest (AO	I) Edit	De-interla	ace: None	•	
Area of interest (AOI) Edit De-	Enable ov	verlays	Edit	3	360: No	•	
Enable overlays	Hardware accelerated decode: Default						
Hardware acceleratec	🗆 Limit dec	oding unle	ss required	G	iPU: any	• 🗆 A	lso BVR
Limit decoding unless required							
				Ok		Cancel	Help
L	UN	Сансег	пер	11			

Most cameras may not need to change their resolution as they already output 16:9 resolution, such as 2MP camera that output a standard 1920x1080 resolution. This step is needed only for higher megapixel cameras that does not output 100% 16:9-compliant resolution such as the 4MP camera used for this example.

6- Add the driver in Composer and enter the IP address and Login info for your Blue Iris server. If you have followed this guide, the Driver Status property should show "success:"

Properties		Properties	List View
Properties			
Camera Properties Camera Test			
Address	_		
Hostname / IP Address: 192.168.26.220	Set		
HTTP Port 81	Set		
RTSP (H.264) Port 81			
Snapshot Refresh Rate: 60 Sec.	Set		
Publicly Accessible:			
Authentication			
Required: 🗹			
Username: Control4	Set		
Password:	Set		
Type: Basic ∨			
Aspect Ratio: 16x9 ~			
Load Defaults	Help		
Advanced Properties			
Properties Actions Documentation Lua			^
Driver Version 1.0.0			^
Driver Status success:			
License Key			
License Status Trial License Verfied [24	I.6 hours left]		
System Name Maison			

If everything goes right, you can now choose a camera from the populated list in the driver property, and it will enable a 720p Navigator-compliant stream to display on all your Control4 devices

dvanced Pro	perties	
Properties	Actions	Documentation Lua
Driver Ver	sion	1.0.0
Driver Stat	tus	success:
License K	ey	
License St	tatus	Trial License Verfied [24.6 hours left]
System Na	me	Maison
Camera Se	elector	~
Camera St	nort Name	Cam2 (Porte Avant) Cam3 (Sous-sol) Cam1 (Hall)
Camera Na	ame	Cam4 (Stationnement) Cam5 (Cuisine)
Camera St	ate	Enabled
Touch Loo	cation X	Bue tos Camera         Image View         More         Para and Tâ         Image View         Image View
		13/12/2019 8:43:12 PH /

### Part 2: Motion and Event trigger

## **1** - Add the Blue Iris Event driver to the project

System Design	Properties Properties List View	Items
System	Properties	Locations Discovered My Drivers Search
	Properties Documentation Lua	blue iris event
E-G New Project i-top Home	Driver Version 1.0.0	Local Online Certified Only Clear Search
ian House ian tean tean tean tean tean tean tean te	Blue Iris Server IP Not Connected	Category: All Categories V
⊕ 🐨 Room ⊕ 🐨 Room 2	HTTP Port 8181	Type: All Types V
⊕-Ƴ Cinéma ⊟-Ƴ Room 3	Debug Mode Off V	Manufacturer:
Blue Iris Events (Domaudeo)		All Manufacturers V
		Control Method: All Methods V Sort: Relevance V
		Blue Iris Events (Domaudeo) Domaudeo 2020-02-09 11:38 AM Loca
		Blue Iris Geofence (Domaudeo) Domaudeo 2020-02-08 11:14 AM (Local

There is nothing to configure in this driver, expect if you need to change the default HTTP port used by the internal server.

# **2-** Go to any of your Domaudeo Blue Iris Camera or Geofence driver and copy the Web Events URL from the Properties

System Design	Properties	Properties	List View
System	Properties		
· • • • • •	Camera Properties Camera Test		^
E-G New Project	Address		
Home	Hostname / IP Address: 192.168.26.220 Set		
⊟-∰ Main	HTTP Port 81 Set		
terent Room terent Room 2	RTSP (H.264) Port 81		
🕀 🐨 Cinéma	Snapshot Refresh Rate: 60 Sec. Set		
⊟ ♥ Room 3 - ♥ Blue Iris Events (Domaudeo)	Publicly Accessible:		
-v Blue Iris Camera	Authentication		
	Remired M		¥
	Advanced Properties		
	Camera Short Name Cam1		^
	Camera Name Hall		
	Camera State Enabled		
	Touch Location X		
<	Touch Loophing M		
🛃 System Design	Web Events URL 192.168.26.147:8181/Cam1		
Connections	M Undo		
阙 Media	Cut		
	T Copy		
👯 Agents	D Paste		

## **3–** In Blue Iris, bring the Camera settings by right clicking a camera view



**4** Select the "Alerts" tab and click on "On alerts" in the Actions section

Stationnemen	t					
Webcas	t	Schedule	P.	Z/Control	W	atchd <mark>og</mark>
General	Video	Audio	Trigger	Record	Alerts	Fost
Profile: Active Sync with camera Cam1						
Fire when:	This came	ra is triggered		<b>~</b> [	Also re-tr	iggers
Motion zones: A B C D E F G H Any Audio DIO Group ONVIF External						
Timers						
Allow di	sarm time	by delaying aler	ts	) 🔶 sec.		
🗌 Wait unt	il triggered	d at least		1 🗘 X wit	hin <mark>1</mark>	sec.
🗆 Minimur	n time bet	ween alerts		10 🔷 sec.		
Minimur	m/max time	e since trigger	(	) 🗘 and r	nax <mark>0</mark>	sec.
@ C	amera:	(default)	$\vee$	O Group:	Index	~
Actions						
On alert On reset						
			C	КС	ancel	Help

## **5-** In the Action set window, click on the "+" icon and select "Web request or MQTT"

Ac	tion	set		
	Ena	ble		
	уре	Profiles	Description	
			(	OK Cancel Help
	•	Sound		Cancer help
	Q	Push notification		
		Run a program or script		OK Cancel Help
	0	Web request or MQTT		
	M	Send email Send SMS	V: -26.5G	CPU 35% RAM 607
	•	Send SMS Make a phone call		
	0	Nake a prione call		

### **6** Paste the URL you have copied from the driver properties

Configure Web Request or MQTT						
Profiles: 🔟 1 2 3 4 5 (	5 7					
http:// v 192.168.26.147:8181/Cam1	Undo					
Post/payload:	Cut					
	Сору					
	Paste					
ОК	Delete					
	Select All					
	Right to left Reading order					
	Show Unicode control characters					
	Insert Unicode control character					
	Open IME					
	Reconversion					

Now you can use either the Programming action "Camera Triggered":



If you plan to use Event Triggering for Motion detection, you can connect a Motion Sensor driver to the camera's contact binding:

Connections		Control & Audio Video Connections						
Control/AV	Network	Motion Sensor						
	~ ^ ~ 0 9	Name	Туре	Connection	Input/Output	Connected To		
PC New Project		Control Inputs						
Home		Contact Sensor	Control	CONTACT_SENSOR	Input	Blue Iris Camera->Trigger Contac	t Sensor	
House								
🗄 🔁 Main								
🕀 🐨 Room								
🗄 🐨 Room 2								
🗄 🐨 Cinéma		CONTACT SENSOR Output Devices						
🗄 💓 Room	3							
Blue Iris Events (Domaudeo)		Device		Name		Location	Connections	
- 🖓 Blue Iris Camera		Home Controller HC250		CONTACT		Room 2		
Motion Sensor		Motion Sensor		Motion		Room		
- Advanced Lighting		Rlue Iris Camera		Trigger Contact Sensor		Room 3	Motion Sensor->Contact Sensor	

Also, you may need to fine-tune the Motion Sensor settings in Camera Settings to get better motion response:

Sous-sol 2								
Webcast Schedule	PTZ/Control	Watchdog						
General Video Audio	Trigger Record Alert	s Post						
Profile: 1 Active 🗸 🗸	Sync with camera Cam1	~						
Sources								
Motion sensor Configure								
Global DIO input bits								
Camera's digital input or mot	Motion sensor							
When triggered	Basic		Ì					
Restore/focus app window	More < Sensi	tivity> Less	sense					
Enable Flash/WM webcasting	Min. object size	302						
□ Move to preset 1	Min. contrast	44						
Capture an alert list image	Min. duration 1.0 🔷 sec.	(MAKE time)	etito-oz-1 Common for					
A	Highlight: Show object	t rectangles 🛛 🗸	Only when triggered           Black-out masked areas					
Break time		L						
End trigger unless re-trigg	Advanced							
	✓ Object detection	Black & white						
	Use zones and hot spot	dit	<ul> <li>Cancel shadows</li> </ul>					
	OPPOSITE sense to detect NON	-movement	☐ High definition					
	Algorithm (all profiles): Simple 🗸							
	Active Zone map: (none)		OK Cancel Help					

The settings shown are NOT a reference, play with the settings yourself and check what trigger best the motion sensing for your needs.