

1. Username & Password Set Up

When using the system for the first time, or if a factory reset has been made, the following settings are used: **Product IP number:** 192.168.0.10 **Subnet mask:** 255.255.255.0 **Default router:** 192.168.0.1

The user must open their web browser and type the illuminator's IP address 192.168.0.10 into the address bar, then press enter to load the user's interface page as shown below:

IP illuminator	- [#] Clarius®
Password	
Set new username and password	
Username:	
Password:	
Save	
Password policy	
The password must have at least 8 characters.	
The password must have at least 3 character types of the following groups:	
Small letters	
Capital letters	
Numbers Special characters	

The user will then be prompted to create a username and password based on the password policy.

2. Login

The next time the user wants to login into the illuminator they must open their web browser and type the illuminator's IP address into the address bar, then press to load the user's interface page as shown below. The user must then enter their username and password that they previously created:

IP illuminator	- [#] Clarius®
Login Help	
Username:	
Password:	
Login	

Should the user require help with logging into the illuminator they can select the help tab as shown below and follow the guidance as listed:

illuminator	· * Clariu
n Help	
Forgot your password	
Reset the unit and set a new password.	
Reset the unit	
To reset the unit - press and hold the reset button for at least 3 seconds.	
The IP address will be restored to 192.168.0.10 on port 80 and 443. The username and password will also be cleared.	
The reset button is located behind cover screw on the back of the unit.	
Support	

3. Events

Once logged in the user will be taken to the Events tab as shown below. Events are enabled as default; however, the user can disable events.

IP illuminator	* Clarius®
Events LED settings Unit configuration Import and export settings Firmware update Logout	
Events enabled: Events disabled:	Add event
Photocell (Low light detection) Control light Test Remove Edit Add action Edit Edit Edit	Edit Remove

The Photocell (Low light detection) event as shown above is pre-programmed into the illuminator, however, this too can be removed by the user if desired by clicking remove on the right-hand side of the screen.

The purpose of Photocell (Low light detection) function is simple, when darkness occurs the illuminator will automatically turn itself on based on its photocell sensor reading and when brightness occurs again the illuminator will turn itself off.

The Photocell (Low light detection) event can be edited by clicking edit on the right-hand side of the screen and the following pop-up screen will appear:

Edit event		
Name:	Photocell X	
Input:	Low light detection	•
Delay (s):	2	
Timeout (s):	5	
Lux level (lux):	15	
Cancel Save event		

The delay is set to 2 seconds, timeout is set to 5 seconds and lux level to 15 Lux as default. The user can alter these values to suit and then click save event.

The Photocell (Low light detection) action can be edited by clicking edit on the left-hand side of the screen and the following pop-up screen will appear:

Edit action			
Action type:	Control light	•	
Start action:	Standard on	•	
Stop action:	Standard off	•	
Cancel Save action			

4. LED Settings

To set the illuminator's LED power settings the user must select the LED settings tab inside their web browser:

P illuminato	r						* [‡] Clariu
nts LED settings U	Init configuration	Import and export s	settings	Firmware u	pdate	Logout	
LED setting	IS					Sensor status LED status: 0% Ambient light: >100 lux Tampering: Detection armed Temperature: 20 °C	
Standard power			•		80	Digital Input: Open circuit	
Energy saving power	r	•			50	Manual control Standard	
Boost power				4	100		
Boost timeout	5					Energy save	
Strobe timeout	5					ON OFF Q	
Strobe type		Туре 1	•			Boost	
Factory default						Start Stop	
						Strobe	
						Start Stop	
						Digital Output	
						Open Close	

The user can simply reset the illuminator's LED settings by clicking the factory default button as shown above.

Manual Control Standard Function:

The manual control standard function enables the user to be able to turn on/off the illuminator at the given set power value on the slider bar. For example 80% light output as shown below:

r		 Standar	d	
Standard power	↔ 80	ON	OFF	Q
L				

Manual Control Energy Save Function:

The manual control energy save function enables the user to be able to turn on/off the illuminator at the given set energy saving power value on the slider bar. For example 50% light output as shown below:

			Energy s	ave	
Energy saving power	•	50	ON	OFF	Q
			ON	OIT	•

Manual Control Boost Function:

The manual control boost function enables the user to be able to start/stop the illuminator at the given set boost power value on the slider bar. For example 100% light output as shown below for 5 seconds:

					Boost		
Boost power			•	100	Start	Stop	Q
Boost timeout	5						

Manual Control Strobe Function:

The manual control strobe function enables the user to be able to start/stop the flashing of the LEDs at the given set boost power value on the slider bar. For example 100% light output as shown below for 5 seconds:

				Strobe		
Boost power		•	100	Start	Stop	Q
		7		Start	Stop	
Strobe timeout	5					

Manual Control Digital Output Function:

The manual control digital output function enables the user to close the output relay pins together as shown in the pin diagram below. A green circle will appear on the screen to indicate this state. To open the relay again, the user simply clicks open on the screen and the red circuit will appear. Initially the illuminator's output is set to open as default.



TELEMETRY + OUTPUT +
TELEMETRY OUTPUT -

5. Unit Configuration

To set the illuminator's unit configuration settings the user must select the Unit configuration tab inside their web browser:

IP illuminat	or				<i>f</i> Clarius®
Events LED settings	Unit configuration	Import and export settings	Firmware update	Logout	
TCP/IP					
DHCP	⊖ E	nabled 💿 Disabled			
IP address	192	2.168.0.10			
Subnet mask	255	5.255.255.0			
Default router	192	2.168.0.1			
DNS	○ E	nabled			
DNS address	200	.xxx.xxx.xxx			
HTTP server port	80				
HTTPS server por	t 443	3			
Hostname					
Modbus TCP	○ E	nabled			
HTTP	• E	nabled Oisabled			
	Ift	re and restart he IP address or port numb anually enter the the new ad		inged it might be necessary to rowser after saving.	

The Dynamic Host Configuration Protocol (**DHCP**) is set to disabled as default. The user may enable the **DHCP** to assign a dynamic IP address to the illuminator on the network.

The user can manually set the IP, Subnet Mask & Router addresses as desired.

The Domain Name System (**DNS**) protocol is set to disabled as default. The user may enable the **DNS** to convert an alphabetic name into a numerical IP address.

The Hypertext Transfer Protocol (HTTP) server port is set to 80 as default.

The Hypertext Transfer Protocol Secure **(HTTPS)** server port is set to 443 as default. **HTTPS** allows information between the browser and the illuminator to be sent encrypted.

The Modbus Transmission Control Protocol **(TCP)** is set to disabled as default. The user may enable the **Modbus TCP** to transmit information over serial lines.

The Hypertext Transfer Protocol (HTTP) is set to enabled as default.

The user should click save and restart for any changes to be implemented.

The user can upload a Transport Layer Security (TLS) certificate and private key in the HTTPS certificates section:

HTTPS certifica	tes
TLS Certificate Private key	Select file Upload Select file Upload
	Restart HTTPS not running. Upload a new certificate and private key.

The user can change their password in the login section but not username. To change a username the illuminator must be manually reset using the reset button on the spine of the illuminator.

Login		
Username	test	
Password		
Confirm password		
	Save	

6. Import and Export Settings

To import and export a given LED illuminator settings the user must select the import and export settings tab inside their web browser:

IP illuminator				""Clarius"
Events LED settings Unit configuration	Import and export settings	Firmware update	Logout	
Export settings				
Download settings				
Browse]			

The user can export settings from a given illuminator by clicking on the download settings button as shown above and saving the settings as a CFG file. The user can then import this file into another illuminator by selecting browse next to the import settings section as shown above and then simply click Upload settings.

7. Firmware Update

To check the illuminator's current firmware version the user must select the Firmware update tab inside their web browser:

IP	illuminat	tor			
Events	LED settings	Unit configuration	Import and export settings	Firmware update	Logout
	-irmware				
	Current firmware	version: 1.15			
	elect firmware file	Upload firmware	1		
	Warning: All use	r settings might be o	leared, make sure to export	the settings before	re uploading a new firmware file.

If a new firmware version has been issued by GJD the user will need to click on Select firmware file to select the new firmware file and then click on Upload firmware as shown above.

8. Event - Example 1 – Input from Detector

If an external detector is connected to the telemetry input of the illuminator the user can then setup an event to be triggered from that input signal. To do this the user must click Add event on the screen and complete the fields as appropriately.

The example below calls the event Input from Detector, the input signal is defined as a Digital input, the condition is Closed circuit which means when the telemetry pins are shorted together the event will be triggered. The delay is set to 0 seconds and the time out is 15 seconds, basically this means the illuminator will be turned on immediately when the digital input signal is received and will remain on for 15 seconds.

Add event		
Name:	Input from Detector	
Input:	Digital input	•
Condition:	Closed circuit	•
Delay (s):	0	
Timeout (s):	15	
Cancel Save event		

Once the event is saved it will appear as shown below:

IP illuminator		**Clarius*
Events LED settings Unit configuration	Import and export settings Firmware update	e Logout
Events enabled: Events disabled:		Add event
Input from Detector (Digital input) Add action		Edit Remove
Photocell (Low light detection) Control light Test Remove Ec Add action	dit	Edit Remove

The user must then click Add action underneath the input from Detector section. The add action pop-up screen will appear and the user should select Control light for the action type. The start and stop actions should be as shown below:

Add action			
Action type:	Control light	•	
Start action:	Standard on	•	
Stop action:	Standard off	•	
Cancel Add action			

Once Add action is clicked the following screen will appeared to confirm the setup:

IP illuminator	**Clarius®
Events LED settings Unit configuration Import and export settings Firmware update Logout	
Events enabled: Events disabled:	Add event
Input from Detector (Digital input) Control light Test Remove Edit Add action	Edit Remove
Photocell (Low light detection) Control light Test Remove Edit Add action	Edit Remove

Event - Example 2 – Output from D-TECT IP Detector

In order to connect a D-TECT IP detector to a Clarius Plus IP via an ethernet connection the user needs to log into the D-TECT IP via your browser. Once logged in the user can add the following event:

Add event		
Name:	Clarius	
Input:	PIR detection	
Delay (s):	0	
Timeout (s):	5	
Event activation:	Always 🔻	
Light limit (lux):	5	
Cancel Add event		

Once the user has added the event it should appear as shown below:

D-TECT IP					
Events Sensor settings	Unit configuration	Import and export settings	Firmware update	Logout	
Events enabled: Events	ents disabled: O				Add event
Clarius (PIR detectio	n)				Edit Remove

The user should then select Add action, then select Clarius IP Illuminator from the drop down menu:

D-TECT IP					(• <u>ص</u> ب
Events Sensor settings					
Events enabled: Events					Add event
	Add action				
Clarius (PIR detect	Action type:	Out	put 1	•	Edit Remove
Add action	Action type:	Output 1			
	Cancel Add action		6	✓	
		Output 2			
		Connect to URL			
		Bosch IP Illumin	ator		
		Clarius IP Illumin	nator		
		GJD Visualiser 8	Event		
		GJD Visualiser H	Heartbeat		
		GJD IPA			
		Axis camera			

The user should then enter the IP address for the Clarius Plus IP unit, along with its username and password, then press Add action:

D-TECT IP						(ه صدے	
Events Sensor settings	Unit configuration	Import and export settings	Firmware update	Logout			
Events enabled:	ents disabled: O					Add event	
the second s	Add action						
Clarius (PIR detect	Action type:	Clarius IF	llluminator	•	Edit Remove		
	Illuminator IP:	enter the Clarius	IP address				
	Username:	enter the userna	me of the illuminate	or			
	Password:	enter the passwo	ord of the illuminate	pr			
	Start action:	Stan	dard on	•			
	Stop action:	Stan	dard off	•			
	Cancel Add ac	tion					
		_					

9. Typical Installations



The depiction below illustrates a typical setup for the Clarius Plus IP unit:

The depiction below illustrates a typical setup for the Clarius Plus IP unit, D-TECT IP detector and an IP camera:



10. Trouble Shooting

If you are struggling to connect to your illuminator through your browser, try typing in the first two parts of your own IP address XXX.XXX followed by .0.10:

Product IP number: XXX.XXX.0.10