X|Smart™ PSP Users Manual

Revision 1.0

US PATENT #8567963 B1

THE CLEAR IMAGE DIFFERENCE

SELF CLEANING CAMERA DOME

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LIMITED WARRANTY

X Stream Designs warrants that, during the Warranty Period, the Product will, with normal use and service, be free from faulty parts, manufacture or workmanship.

X Stream Designs extends the following warranty for all X Stream Designs Products unless otherwise stated, to the original owner/purchaser of the Product for a period of 12-months, from date of shipment.

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When making a warranty claim, the Customer must request an RMA from X Stream Designs. Upon issuance of the RMA, the Customer will forward the Product to X Stream Designs for evaluation. Freight and insurance will be paid for by the Customer. The Customer is responsible for repackaging Products returned in suitable packing material to prevent damage in transit. If X Stream Designs ascertains that the Product is defective due to faulty workmanship and/or defective material, X Stream Designs shall send the repaired Product or a replacement Product to the Customer. X Stream Designs may choose the method of delivery and will pay freight and insurance and credit the Customer for freight and insurance costs resulting from return shipment from the Customer to X Stream Designs authorized by the RMA. Products or product parts which have been replaced shall be the property of and retained by X Stream Designs. If X Stream Designs' determines that the Product is not defective due to faulty workmanship and/or defective material or that the warranty has been voided, the Product shall be returned to the Customer, if the Customer requests. In such case, freight and insurance shall be paid by the Customer.

MAKING A WARRANTY CLAIM:

1. Customer must inform X Stream Designs as soon as the warranty claim arises by calling 1-858-768-2992 or sending an email to support@xstreamdesigns.com.
2. Customer must provide original proof of purchase and a description of the fault and any other relevant material.
3. If the warranty claim is accepted, X Stream Designs will issue a RMA and give Customer authorization to ship faulty parts/and or the entire Product to X Stream Designs for repair or replacement.
4. X Stream Designs will, at its cost, repair or replace any faulty parts and/or the entire Product and return the Product back to Customer.

If you do not wish to be bound by any of the provisions in this warranty, please return the product(s) immediately to X Stream Designs.

For further Warranty information contact:

X Stream Designs, Inc.
Customer Service Department
2120 Jimmy Durante Blvd., Suite 110
Del Mar CA 92014
U.S.A.
1-858-768-2992

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Customer shall indemnify, defend and hold X Stream Designs harmless from all claims, including but not limited to all claims filed by third parties, for injuries, harms, losses or damages of any kind, (a) caused by or resulting from, (i) the Product after it has been delivered, (ii) the improper use, repair, maintenance or operation of the Product by Customer, (iii) the failure of Customer to adequately train personnel in the operation of the Product, or (iv) the Customer's failure to comply with applicable laws or regulations or (b) to products manufactured by the Customer or to products of which the Customer's products form a part.

The Customer consents to the jurisdiction of any court or arbitral tribunal in which any third party files a claim for injuries, harms, losses or damages allegedly caused by any Product sold to Customer.

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IN NO EVENT SHALL X STREAM DESIGNS BE LIABLE FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES OR LOSSES ARISING OUT OF ANY BREACH OF WARRANTY, FAULTY PRODUCT, DELAY IN THE DELIVERY OF THE PRODUCT, PRODUCT LIABILITY, FAILURE TO WARN, RECALL OR OTHERWISE, IRRESPECTIVE OF THE CAUSE, INCLUDING BUT NOT LIMITED TO, LOSS OF PRODUCTION, LOSS OF PROFIT AND LOSS OF GOODWILL.

Notice of Claims

Claims or complaints as to defects and/or delay in delivery of the Products or other claims shall be submitted in writing by Customer to X Stream Designs without undue delay.

Installation Guidelines

- The X Stream Designs enclosure system should be installed by qualified personnel.
- This unit must not be used for medical, life saving purposes, or for any purpose where its failure could cause serious injury or the loss of life.
- This unit must not be used in any way where its function or failure could cause significant loss or property damage.

Security Notes

The X|Smart™ system employs a Linux operating system and does have the ability to support features such as telnet, FTP and SSH. For this reason, there is a chance that someone can 'break in' to the X|Smart™ system and access other devices on your local network. As with any device installed on a network, appropriate security precautions should be observed.

If the X|Smart™ system is installed on the Internet, it is recommended that the control password be enabled. Passwords should be at least 8 characters in length and use a combination of upper and lower case letters and numbers. For additional security, a firewall may be used to limit access to selected IP addresses. Another option may be to set up a Virtual Private Network (VPN) between the network where X|Smart™ resides and the client machine.

Final Installation Notes

The X|Smart™ product and the integrated 5 port switch (4 available ports) supports 10Mbps ,100Mbps and 1000Mbps network connections. Only one of the ports provides switched 48VDC Power Over Ethernet (POE).

Section 1: Introduction

X|Smart_PSP (Power Spectrum Platform) is a multi-function web-enabled power supply chassis facilitating control and monitoring of the camera enclosure system. The X|Smart_PSP power supply chassis consists of two 12VDC, two 24VDC and one 48VDC POE user accessible accessory power ports. It can be controlled and/or monitored over any IP network including private networks and the Internet. Using a web browser, users can control the dome wiping and cleaning process, check washing fluid levels, remotely turn on and/or off the accessory power ports, monitor and control temperature setttings and monitor power and temperature in real time as well as over a period of time via the graphing functionality.

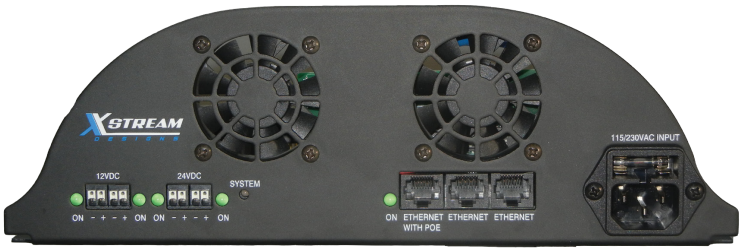

Figure 1.1 - X|Smart_PSP Power Supply Chassis

Figure 1.2 - X|Smart_PSP PCBA

Figure 1.3 - X|Smart_PSP Web Interface

1.1 X|Smart_PSP Features

115/230VAC to 24VDC 150 Watt Internal Power Supply
The X|Smart_PSP power supply chassis has an integrated 115/230VAC power supply capable of providing 150 Watts of power at 24VDC to the PCBA and enclosure system.

12VDC Power Ports [2]
Capable of providing up to 53 Watts of power to accessory devices, the two 12VDC ports can be remotely controlled (on/off) via the web interface.

24VDC Power Ports [2]
Capable of providing up to 70 Watts of power to accessory devices, the two 24VDC ports can be remotely controlled (on/off) via the web interface.

48VDC Power Over Ethernet Port (POE) [1]
Capable of providing up to 38 Watts of power to POE devices, the non IEEE-802.3 compliant POE port can be remotely controlled (on/off) via the web interface.

Internal & External Digital Temperature Sensors
Embedded on the X|Smart PCBA, the internal digital temperature sensor allows you to monitor the internal temperature of the enclosure in real-time. It is also integrated into the climate control system triggering heat on/off when the system is set to AUTO. The External Temperature Sensor is an optional accessory from X Stream Designs allowing you to monitor the outside temperature in real-time.

Integrated 5 Port 10/100Mbps Network Switch
The X|Smart_PSP system employs a 5 Port 10/100Mbps network switch giving the user 3 available ports after populating the up-link port with your network connection. The 5th port connects to the integrated Linux embedded controller.

Power Supply Fans [2]
Integrated into the power supply chassis are two 2 power supply fans. The fans can be remotely controlled (on/off) via the web interface.

Input Voltage Monitoring
Monitor the PCBA input voltage in real-time via the web interface and detect potential power issues before it becomes a problem.

Input Current Monitoring
Monitor the PCBA input current in real-time via the web interface and detect potential power issues before it becomes a problem.

Load Monitoring (Watts)
The watt is a derived unit of power which can be used to express the rate of energy or transfer of energy with respect to time. Ohm's Law (W = Voltage x Current) allows us to derive the enclosure power load and monitor it in realtime. A great feature for off-grid and remote applications or the energy concious user.

Climate Control System
Control the interior enlosure temperature setting via the web interface by choosing heat AUTO and setting the temperature or Heat OFF. Integrated on the PCBA is a thermostatic snap switch used to control the air conditioning system in X|Cold model enclosure systems.

Real Time Clock
Manually set the time & date or synchronize via an NTP server.

Fluid Level Meter
Monitor the washing fluid level in real-time via the web interface. Level values are FULL, 2/3, 1/3 and RESERVE.

Event Scheduler
Schedule the X|Rain & X|Clear enclosure systems to Clean and/or Wipe at pre-difined intervals via the web interface.

Graphing
Monitor Power Usage & Temperature over a period of time in graph format.

1.2 Applications

The X|Smart_PSP power supply system and web based user interface was designed to meet numerous industry applications. It gives the user much more functionality than just an interface to trigger wiping and cleaning of the enclosure dome. With the integrated relays and power sensors, users can remotely control multiple accesory power ports and monitor power usage in real-time. A great tool for remote camera systems and especially off-grid powered systems.

The X|Smart_PSP system is integrated into our X|Clear and X|Rain enlosure systems and is also available as an option in our X|Mod, X|Cold and X|Heat enclosure systems. The next generation X|Smart_PSP will include an integrated UPS with battery backup power and integrated solar charge controller systems.

Example Applications Include Coastal Monitoring Cameras, Rainy Environments, Off-Grid Powered Camera Locations, Remote Camera Applications and any installation that requires housing additional camera accesorry components.

1.3 Accessory Power Connections & Indicators

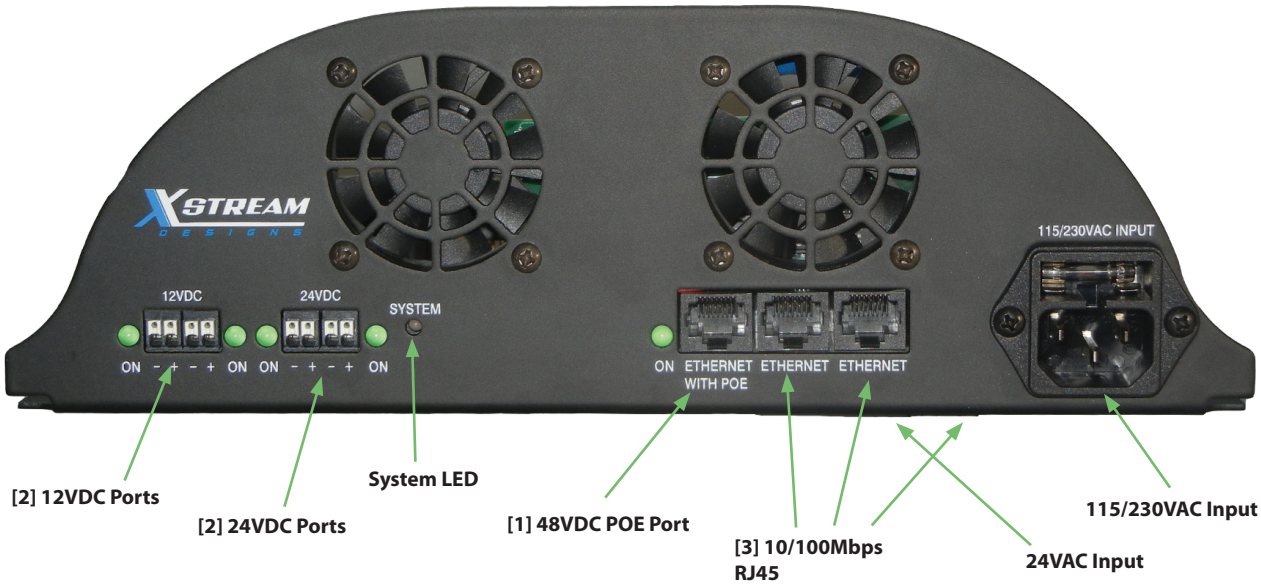

Figure 1.4 - X|Smart_PSP Connections & Indicators

[2] 12VDC Accessory Power Ports
The X|Smart system has two 12VDC accessory power ports. Each port is individually controlled (on/off) via the X|Smart web interface. Next to each accessory port is a green indicator LED which illuminates when power is available on the port.

[2] 24VDC Accessory Power Ports
The X|Smart system has two 24VDC accessory power ports. Each port is individually controlled (on/off) via the X|Smart web interface. Next to each accesory port is a green indicator LED which illuminates when power is available on the port.

[1] 48VDC Accessory Power Over Ethernet Network Port
The X|Smart system has one 48VDC accessory POE network port which is controlled (on/off) via the X|Smart web interface. Next to the POE port is a green indicator LED which illuminates when 48VDC power is available on the port.

[3] 10/100Mbps RJ45 Network Switch Ports
The X|Smart system has 3 non POE powered 10/100Mbps Network switch ports. Two are accesible on the face of the X|Smart chassis while the third is underneath as indicated in Figure 1.4 above.

115/230VAC & 24VAC Power Inputs
The X|Smart power supply chassis takes either 115/230VAC or 24VAC input power. The 115/230VAC power input is located on the face of the X|Smart power supply chassis as shown in Figure 1.4 above. The 24VAC power input is located underneath the power supply chassis.

System LED
The System LED is a blue LED light which blinks every 5 seconds indicating the system is live and operating normally. Allow approximately 10-15 seconds at power up for the System LED to start blinking.

1.4 Accessing the X|Smart Web Interface

The X|Smart system has a built-in web server that provides the user with a simple web interface for controlling and monitoring the PTZ camera enclosure system. No special software is required to get started. Configuring the network parameters is explained in more detail in subsequent sections of this user manual. By default, the X|Smart system has an IP address of 192.168.1.25. The default username and password to access the control interface and system settings tabs after accessing the web interface are u: admin / p: xsd

Note: *Depending on the setup of your network, configuring your network router and / or managed switches may be required in order to access the system from outside of your local network.*

1.5 Good Wiring Practices

CAUTION: MAKE SURE THAT POWER IS COMPLETELY OFF BEFORE WIRING.

MIS-WIRING OR MIS-CONFIGURATION COULD CAUSE PERMANENT DAMAGE TO THE X|SMART_PSP PCBA, THE EQUIPMENT TO WHICH IT IS CONNECTED OR BOTH.

Correct Wiring Procedures:

1. Make sure that power is disconnected completely from the X|Smart_PSP Chassis.
2. Strip each power wire approximately 4 to 5 mm.
3. Carefully insert the bare end of the wire into the appropriate (-/+) power port minding the voltage (12VDC or 24VDC).
4. Make sure that no bare wire shows.
5. Give the wire a slight tug to make sure that it is in the power port securely.
6. Re-Apply power to the X|Smart_PSP chassis.

Making clean and proper connections to the accessory power ports on the X|Smart_PSP power supply chassis is important. See Figures 1.6.1 and 1.6.2 below.

Figure 1.6.1 - Exposed Wire & Poor Connection

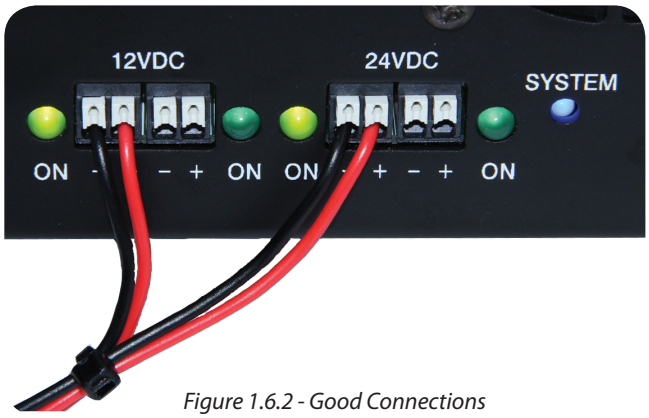

Figure 1.6.2 - Good Connections

2. Network Connection

By default, your X|Smart_PSP system will arrive with the following network settings and credentials:

IP:	192.168.1.25	Username:	admin
Subnet Mask:	255.255.255.0	Password:	xsd
Gateway IP:	192.168.1.1		
DNS1:	8.8.8.8		
DNS2:	192.168.1.1		
HTTP Port:	80		

To access the web interface of the X|Smart_PSP system and configure the settings for your network, power up the enclosure system and step through the following instructions. It is suggested to do the initial connection and configuration of the X|Smart_PSP system prior to mounting the enclosure system at the installation site.

1. Connect an Ethernet Cable between a computer (or laptop) direct to any of the ethernet ports on the face or underneath the power supply chassis. This can be done direct or through a network switch (Figure 2.1.2). It is suggested that no other devices are connected to the network if connecting through a switch to avoid potential IP Address conflicts.
2. Configure your computer to have an IP address within the same 192.168.1.X subnet (EX: 192.168.1.20) and Subnet Mask: 255.255.255.0
3. It is not necessary to input a Gateway IP address or DNS information. If you enter this information, use 192.168.1.1 for the Gateway IP Address, DNS1: 8.8.8.8 and DNS2: 8.8.4.4
4. Apply and/or save those settings on your computer.
5. Open up your favorite web browser. Firefox and Chrome work well.
6. Enter the following into the URL Window; http://192.168.1.25:80 then hit enter.
7. The XSmart web interface will load in the web browser and look similar to Figure 2.1.1 below. You are now connected with the X|Smart web interface.

Figure 2.1.2 - X|Smart Connection - Computer Direct & Through a Networks Switch

Figure 2.1.1 - X|Smart Initial Web Interface Window

3. Control Window Overview

When first connecting to the web interface of the X|Smart system, the control window will appear. You can also navigate to the control window by clicking on the control tab. It is within the control window that you monitor power and temperatures, control the CID washing and wiping functions and power on and off accessory power ports. The system by default does not require a username or password when first accessing the web interface of the X|Smart system.

Figure 3 - X|Smart Control Window

3.1 Control Window

The Control Window is comprised of the Status Pane, Navigation Tabs, CID Control Pane, Component Control Pane and the Temperature & Power Graphs. Each section of the control window and what is displayed can be customized as desired by the user within the CONTROL INTERFACE tab.

Status Pane
This section of the control window displays the System Name, Time/Date, Enclosure Model, Exterior Temperature (If exterior temperature probe is installed), Interior Temperature, Input Voltage, Input Current and Load. By default, the system displays temperature in both Fahrenheit and Celius. This can be changed to ºF, ºC or both as well as what is displayed in the status pane within the CONTROL INTERFACE and SYSTEM SETTINGS navigation tabs.

Navigation Tabs
The navigation tabs allow the user to navigate from the Control Window to system setup menus. When first navigating to either the CONTROL INTERFACE tab or the SYSTEM SETTINGS tab, the system will ask for a username and password. The default username is **`admin`** and the default password **`xsd`** (password is case sensitive).

CID Control Pane
It is within this section of the Control Window that the user controls the dome washing function and the dome wiping function. In the X|Clear model enclosure, the CID Control Pane will display the Fluid Bottle Level meter, Wash and Wipe functions. In the X|Rain model enclosure, the CID Control Pane will only display the Wipe function. If the X|Smart_PSP system is installed in the X|Heat, X|Cold or X|Mod enclosures as an option, the CID Control Pane will not be displayed.

Figure 3.1 - Fluid Bottle Level Meter

The Fluid Bottle Level meter displays the level of the washing fluid at four levels - FULL, 2/3, 1/3 and RESERVE. When the fluid bottle is filled completely, FULL will be displayed for approximately 15 wash cycles. 2/3 will then be displayed until approxmiately 30 wash cycles are completed. 1/3 will then be displayed until approximately 50 wash cycles are completed. When no bar is displayed in the meter, the fluid bottle has reached the RESERVE level. This happens at approximately 70 was cycles with approximately 20 was cycles remaing.

Note: *There is no indicator as to when the fluid bottle is completely empty. Damage to the system components can occur if the system runs out of fluid and continued attempts are made to clean the dome.*

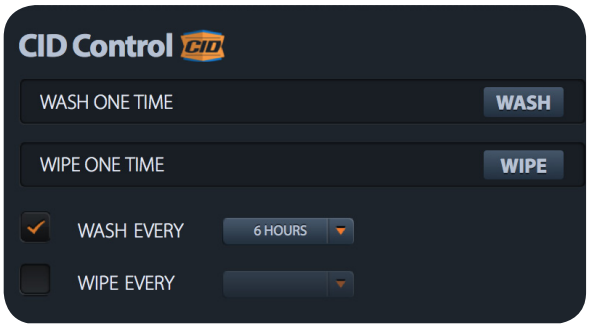

Figure 3.2 - CID Control

The wash and wipe functions can be activated in one of two ways.

1.) One Time Wash or Wipe - When desired, simply depress the WASH or WIPE button to the right of WASH ONE TIME or WIPE ONE TIME (Figure 3.2).

2.) Scheduled Intervals - User selectable intervals are enabled by a mouse click to the boxes left of WASH EVERY and WIPE EVERY (Figure 3.2 and 3.3). A check mark will appear in the box indicating that the interval wash or wipe function is enabled. Once enabled, the interval for each function is selected via a drop down menu found just to the right of WASH EVERY and WIPE EVERY (Figure 3.3).

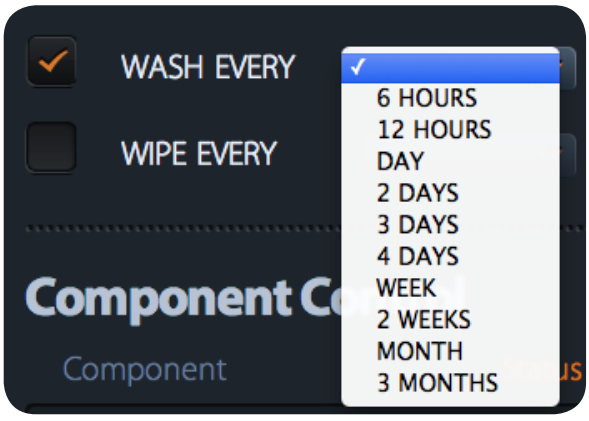

Figure 3.3 - Interval Selection

Note: A check mark in the box left of WASH EVERY or WIPE EVERY indicating that the interval wash or wipe is enabled MUST appear BEFORE you can select an inverval with the drop down menu.

Component Control Pane

This section of the Control Window allows the user to monitor and control the accessory power ports, the heating system and the internal circulation fans. By default, the system displays the 12VDC and 24VDC accessory ports as 12VDC_1, 12VDC_2, 24VDC_1 and 24VDC_2 where "_1" is the port on the left and "_2" is the port on the right for both the 12VDC and the 24VDC ports. The Power Over Ethernet port is displayed as POE by default. The naming of these accessory power ports can be changed as desired within the CONTROL INTERFACE tab.
Examples: 12VDC_1 to NVR or POE to Sony PTZ Camera (Figure 3.4).

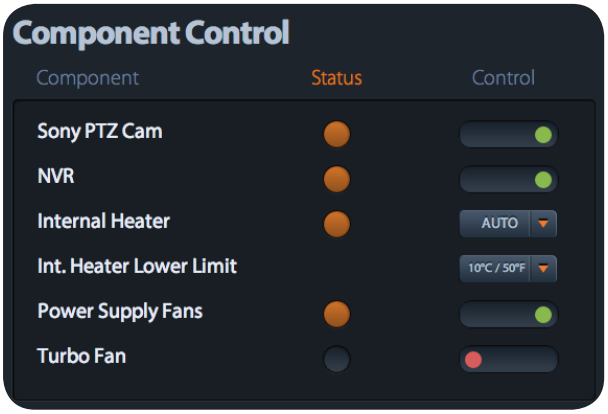

Figure 3.4 - Component Control

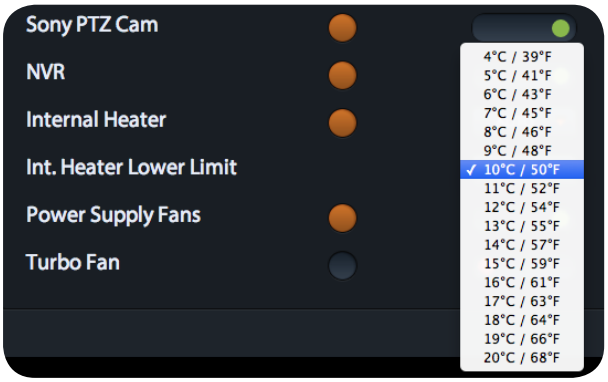

Figure 3.4 - Internal Heat Selection DRop Down Menu

Enabling and disabling power to the accessory power ports is achieved by clicking the mouse in the appropriate control box to the right. The indicator is either green when enabled or red when disabled. There is also an orange status indicator which appears when the port of system is enabled. The default state for each component on powering up the system can be setup within the CONTROL INTERFACE tab.

The enclosure heating system is set to AUTO and 10°C/50°F by default. The options are OFF or AUTO. If OFF, the Internal Heater Lower Limit value is not selectable. If Internal Heater is set to AUTO, the user is able to select the Internal Heater Lower Limit value via a drop down menu (Figure 3.5). No matter what temperature is selected, the internal heating system turns off at 21°C / 70°F. The heat will again turn on automatically if the internal temperature drops to the Internal Heater Lower Limit.

Temperature & Power Graphs

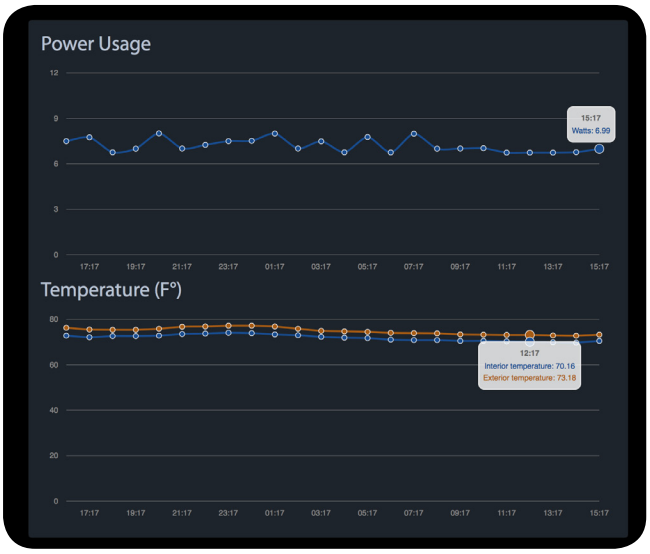

Figure 3.6 - Power & Temperature Graphs

(Figure 3.6) The X|Smart web interface displays the power usage, the internal tempeture of the enclosure and the exterior temperature if the optional external termperature probe is installed over a period of 24 hours. The Power Usage graph displays the current wattage each hour. The Temperature Graph displays the temperature in Fahrenheit each hour. Within the CONTROL INTERFACE tab, the user is able to enable or disable displaying the power and temperature graphs in the Control Window.

System Setup Windows

Accessing the system setup windows is achieved by clicking on the CONTROL INTERFACE and SYSTEM SETTINGS tabs. When clicking on either of these tabs for the first time, you will be asked for a username and password (Figure 4.1). The username is always **admin** and the default password is **xsd** . Both are case sensitive.

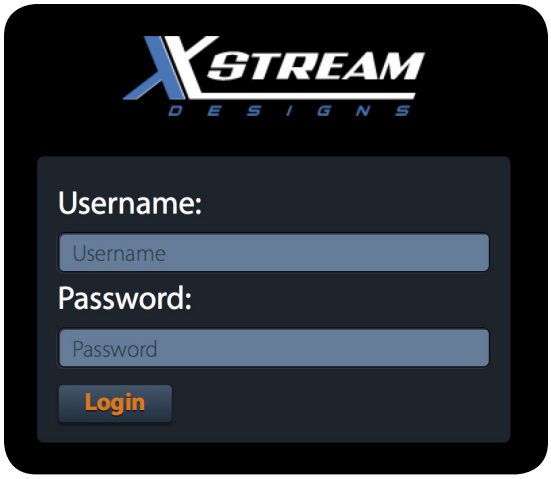

Figure 4.1 - Login Window

4.1 CONTROL INTERFACE Tab

Under the CONTROL INTERFACE tab, you will find the Main Header Text, Display Item and Display Status configuration options. Each section and the configuration options are explained below in detail.

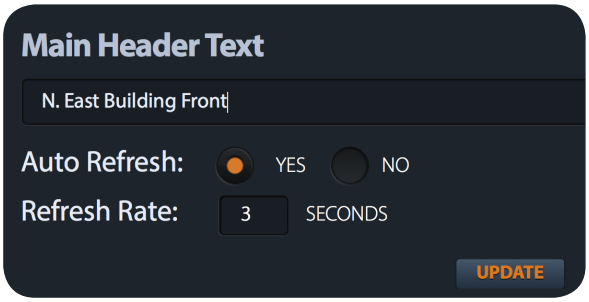

Figure 4.2 - Main Header Text

The Main Header Text allows you to enter text or a name which will appear above the time and date in the Status Pane. Simply enter text into the text input box and click on the update button. This section also allows you to select Auto Refresh - you or no and the Refresh Rate. It is suggest to set Auto Refresh to yes with a refresh rate of 10 seconds or less. The refresh rate determines how often the X|Smart user interface polls the S|Smart_PSP system for updated status information.

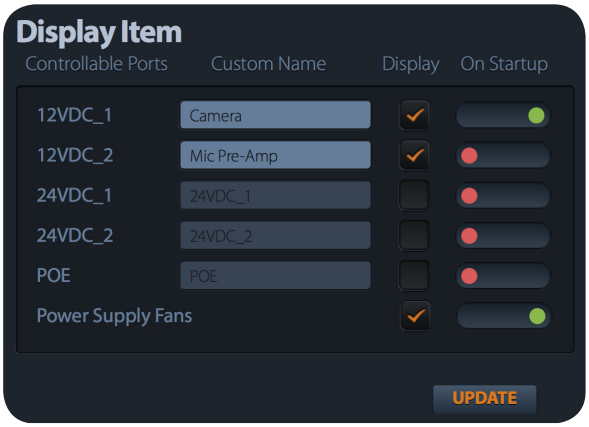

Figure 4.3 - Display Item

The Display Item configuration section allows you to customize the name of each accessory power port and select whether it should be displayed in the Component Control section of the CONTROL window. It also allows the user to enable or disable the power port on system startup. To display a power accesorty port in the Component Control section of the CONTROL window, mouse click in the box to the right of the Custom Name text input box (A check mark will appear), Customize the name of the port (Ex: Sony PTZ Cam), then mouse click on the update button. In order to enable a power port on startup, mouse click in the box under On Startup. The red ball will move to the right and turn green indicating that the power port will be "ON" when the system starts up.

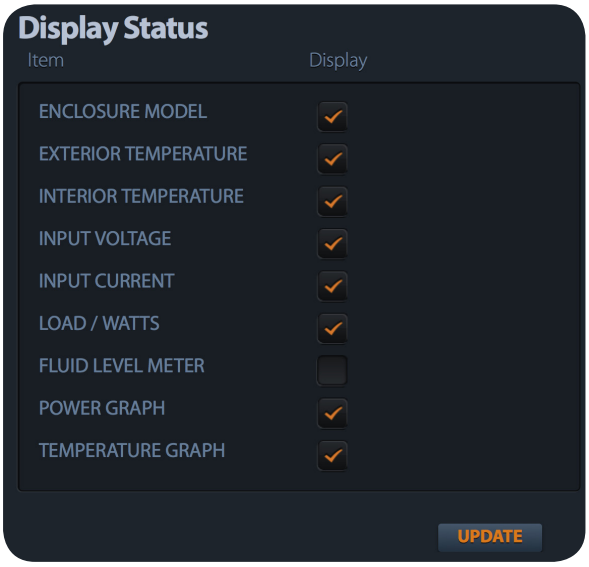

Figure 4.4 - Display Status

The Display Status configuration section allows the user to enable or disable Status Pane status readings as well as enable or disable displaying the Power Usage and Temperature Graphs.

To disable displaying a status parameter, simply mouse click on the check mark under Display. To Enable displaying a status parameter, simply mouse click in the empty box. A check mark will appear. After enabling or disabling a status display parameter, mouse click on the update button.

4.2 SYSTEM SETTINGS Tab

Under the SYSTEM SETTINGS tab, you will find the Network Settings, System Settings, User Password, Authentication, Time/Date Settings and Enclosure Reporting configuration options. Each section and the configuration options are explained below in detail.

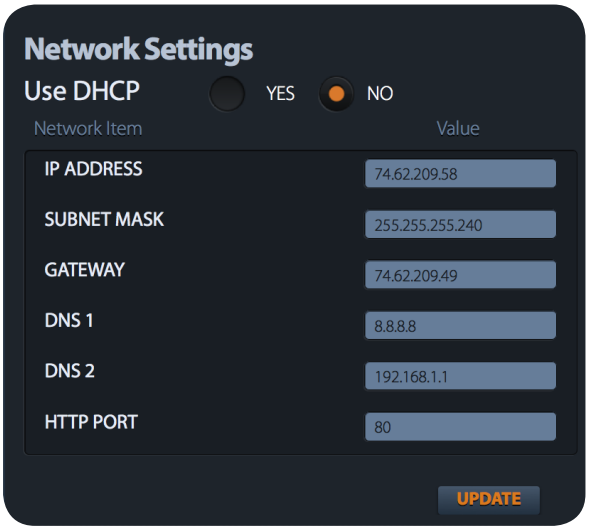

Figure 4.5 - Network Settings

The Network Settings section of the SYSTEM SETTINGS tab allows the user to change the network settings of the X|Smart_PSP system. It is suggested to contact the administrator of your network for these settings prior to changing these settings and connecting to your network. Selecting DHCP yes will configure the system to get its network settigns automatically via the DHCP server on your network. Selecting DHCP "No" allows the user to assign static IP Address network settings into the X|Smart system. Enter the IP Address, Subnet Mask, Gateway (Router), DNS1/DNS2 information and mouse click on the update button. When doing so, you will temporarily lose connectivity to the X|Smart system. If the new IP Address information entered is part of a different network subnet (Example: 10.0.0.25), you will have to change the network settings on your computer to allow access to that subnet in order to access the system again.

The HTTP port by default is port 80. This can be changed as desired. If the HTTP port is changed to 8000 for example, the new URL to access the X|Smart system will be http://<IP_Address>:8000 When changing the HTTP port, mouse click on the update button. You will then have to use the new URL format above in order to access the X|Smart system.

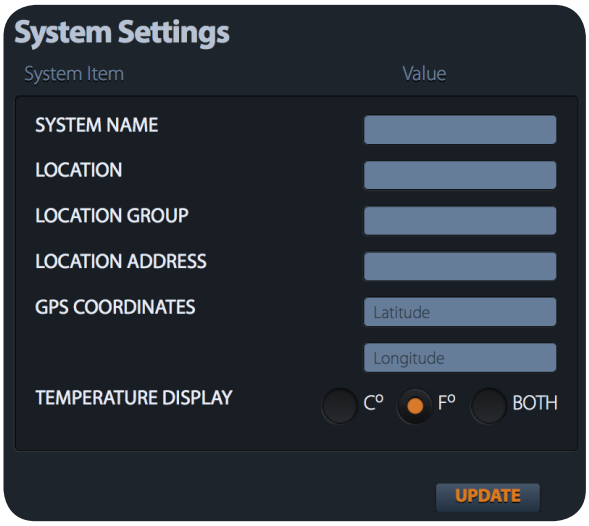

Figure 4.6 System Settings

The System Settings section of the SYSTEM SETTINGS tab is mostly reserved for future software releases and X Stream Designs XSD Central portal system for accessing and controlling multiple enclosure systems from a single web interface.

The Temperature Display unit settings - Fahrenheit and Celcius can be changed here. Choose to display temperature in °C , °F or Both by selecting the appropriate field and mouse clicking on the update button.

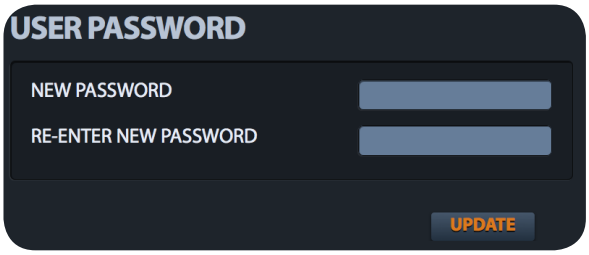

Figure 4.7 - User Password

The User Password section of the SYSTEM SETTINGS tab allows the user to change the default admin password **xsd** . Enter the new password into both the New Password and Re-Enter New Password text fields and mouse click on the update button. The system will immediately require the user to enter the new login in credentials. Enter admin and your new password, then click Login.

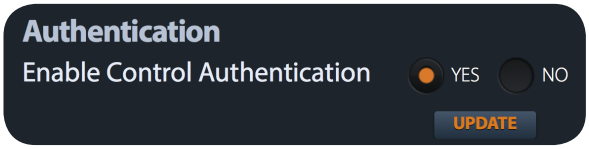

Figure 4.8 - Authentication

The Authentication section of the SYSTEM SETTINGS tab allows the user to require or not require a password in order to control any of the funtions found within the CONTROL tab. To require or not require a password for CONTROL tab functions, click in the appropriate field then mouse click the update button.

Note: Login credentials are always required to change any of the settings parameters found in the CONTROL INTERFACE and SYSTEM SETTINGS tabs.

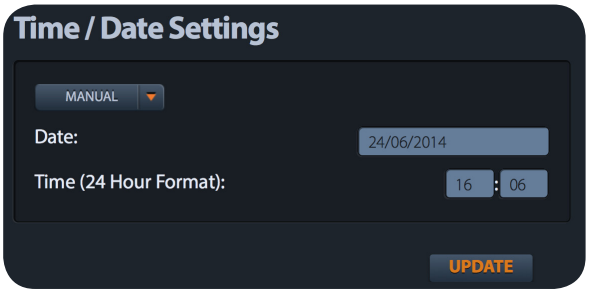

Figure 4.9 - Manual Setting

The Time/Date Settings section of the SYSTEM SETTINGS tab allows the user to set the time and date of the X|Smart system either manually or via an NTP server (Figures 4.9 & 4.10).

To set the Time and Date manually, via the drop down menu select MANUAL, adjust the date and Time, then mouse click on the update button. *Note: The time is in 24 Hour Format only.*

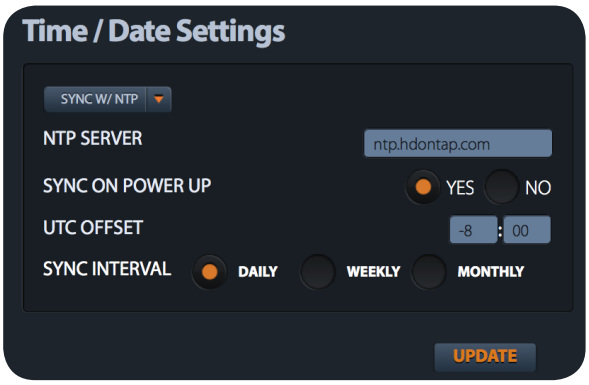

Figure 4.10 - Sync. w/ NTP Server

To set the Time and Date via an NTP (Network Time Protocol) server, via the drop down menu select SYNC W/ NTP, enter the NTP server into the text field, select SYNC ON POWER UP yes or no, enter the UTC Offset (Example: PST = -8:00), choose the SYNC INTERVAL, then mouse click on the update button.

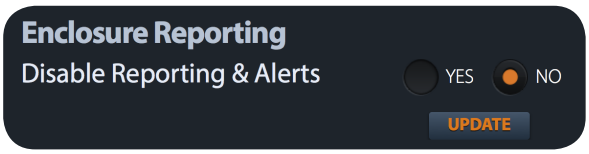

Figure 4.11 - Enclosure Reporting

The Enclosure Reporting section of the SYSTEM SETTINGS tab is reserved for future software releases and X Stream Designs XSD Central portal system for accessing and controlling multiple enclosure systems from a single web interface. At this time, setting Disable Reporting & Alerts to either Yes or No does nothing.

Optional Accessories

The following optional accessories are available for purchase from X Stream Designs. Please contact an X Stream Designs representative via phone, our website at http://xstreamdesigns.com or email sales@xstreamdesigns.com.

Accessory	Description	Part Number
External Temperature Sensor	1 Wire Stainless Steel External Temperature Senor Probe	XSD-EXTTEMP-P
Accesory Shelf - Short	Black Powder Coated Perforated Aluminum Accessory Shelf Mount	XSD-SHELF-S
Accessory Shelf - Full	Black Powder Coated Perforated Aluminum Accessory Shelf Mount	XSD-SHELF-F
Replacement Rotating Dome Lens	Replacement Rotating Dome Lens	XSD-RDL
Replacement Fixed Dome Lens	Replacement Fixed Dome Lens	XSD-FDL
XSD Camera Mounting Plate	XSD Camera Mounting Plate	XSD-CMP
XSD _L - Extended Camera Mounting Tray	Convert your X|Model short enclosure system to a long version with the XSD Extended Camera Mounting Tray	XSD-ECMT
XSD _S - Short Camera Mounting Tray	Convert your X|Model long enclosure system to a short version with the XSD Short Camera Mounting Tray	XSD-SCMT