

► SW12USB

User Manual





Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.



Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Safety And Performance Notice

Do not substitute or use any other power supply other than the enclosed unit, or a Blustream approved replacement.

Do not disassemble the unit for any reason. Doing so will void the manufacturer's warranty.

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Introduction

The SW12USB is a USB 3.2 Gen2 10Gb switcher, supporting 4 x USB devices that can be switched to 2 x USB-C host connections. The SW12USB supports auto switching between host devices using signal sense, or manually controlled via the front-panel push buttons, Web-GUI, TCP/IP, or RS-232

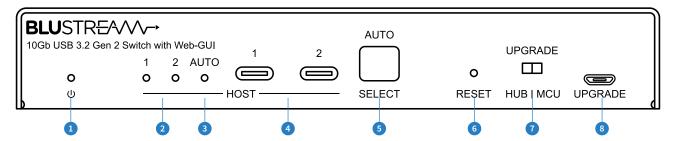
FEATURES:

- USB 3.2 Gen2 switch allowing up to 4 x USB peripheral devices to connect to 2 x USB hosts*
- Features 2 x USB-C and 2 x USB-A device inputs and 2 x USB-C hosts
- USB 3.2 Gen2 connectivity with data transfer rate up to 10Gbps
- Backwards compatible with USB 2.0 and 1.1
- Auto or manual switching
- Plug-and-play with no drivers, downloads, or software required
- Features 1 x GPI port for integration with 3rd party products
- Features 802.3at PoE+ for powering of product from PoE+ network
- Local 24v power supply input for when network switch does not support PoE+
- Web interface module for control and configuration of SW12USB
- Control via front panel buttons, RS-232, or TCP/IP

^{*}Please note: the SW12USB does not pass DP ALt Mode video

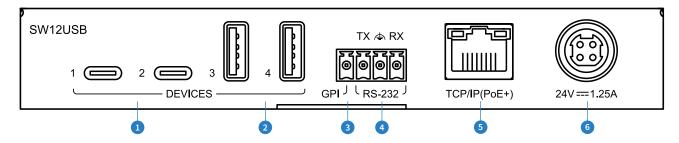


Front Panel



- 1 Power LED indicator Illuminates when the unit is powered
- 2 USB Host LED Indicator Illuminates when the corresponding USB Host is selected
- 3 Auto Switching LED Indicator Illuminates when auto switching mode is enabled
- 4 USB Host Input USB-C to connect to USB Host device
- 5 Select Button Press to toggle between USB Hosts. Press and hold for 3 seconds to enable / disable auto switching function
- 6 Reset Switch Press to factory reset the unit
- 1 Upgrade Selection Switch Select between Hub or MCU for firmware upgrade function
- 5 Upgrade Port Micro USB for firmware upgrade function

Rear Panel



- 1 USB-C Device Inputs Connect to USB-C devices
- USB-A Device Inputs Connect to USB-A devices

Please note: total USB Device (USB-C and USB-A) charging support = 5V 4A. Max output per port is 5V 1.7A.

- 3 GPI Port General purpose input for triggering input change see follow page for details
- 4 RS-232 Port 3-pin Phoenix connector for control of the switcher from a PC or control processor
- 5 External IR Port Connect Blustream 5V IR receiver, or control processor to control the switcher
- 6 Power Port Use supplied Blustream 24V/1.25A DC adaptor to power the unit

USB Performance

The SW12USB is a USB 3.2 Gen2 USB switch with data transfer rate up to 10Gbps and backwards compatibility support for USB 2.0 and 1.1 devices. Please note that actual USB performance will be dependent on the following factors:

- USB Host version and cable length / quality
- USB Device version and cable length / quality

It is possible for the SW12USB to limit the USB-A Device port speed from 10Gbps to 5Gbps to improve device compatibility via the Web GUI and API. The SW12USB does not pass DP Alt Mode video.



General Purpose Input (GPI) Port

The General Purpose Input (GPI) Port can be used to trigger the Host input to change on the SW12USB. It has 3 modes of function and can be configured via the Web GUI.

Pulse Mode:

In Pulse Mode, when the GPI port receives a signal pulse (every high (1-12V) to low (Ground) voltage change), it triggers the SW12USB device to change Host inputs.

Level Mode:

In Level Mode, the SW12USB will trigger based on the voltage applied to the GPI port. The low level trigger and high level trigger can be specified between 0-12V.

The SW12USB will switch to Host 1 when GPI voltage is greater than the High Level trigger level.

The SW12USB will switch to Host 2 when GPI voltage is less than the Low Level trigger level.

Contact Closure Mode:

In Contact Closure Mode when GPI port is open circuit, the SW12USB will select Host 1.

When GPI port is shorted to ground, the SW12USB will select Host 2.

The SW12USB features an in-built web-GUI for control and configuration of the unit. By default the device is set to DHCP, however if a DHCP server (eg: network router) is not installed the device IP address will revert to below details:

Default IP Address is: 192.168.0.200 Default Username is: blustream Default Password is: 1234

* Please note: Due to new UK cyber security requirements, the default password has been updated for the below firmware versions (and above) to default password: @Bls1234

SW12USB: firmware version: V1.3.0 onwards

New password regulations requires new passwords being set for products to be a minimum of 8 characters and contain a minimum of: 1x uppercase letter, 1x lowercase letter, 1x symbol and 1x number.

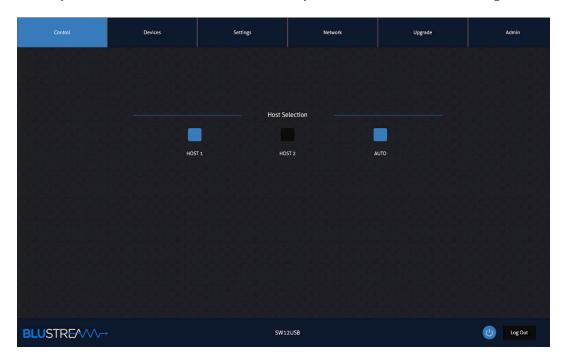
The device can also be accessed via its mDNS name which is defaulted to: http://SW12USB.local/



Web-GUI - Control

The Control tab of the web-GUI allows for a user to switch between Host 1 or Host 2. The Host labels cannot be assigned within the GUI as most control will either be carried out automatically, or via API command.

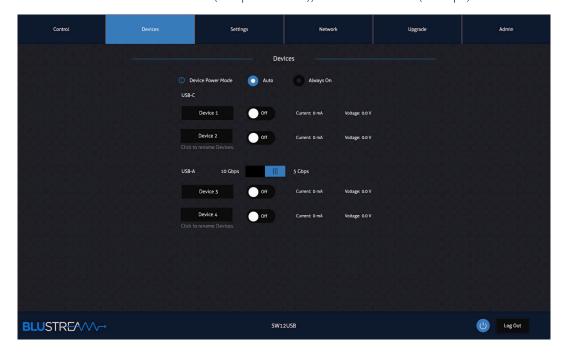
The Auto functionality allows for the SW12USB to automatically switch over to a new Host being connected to the unit.



Web-GUI - Devices

The Devices tab allows for control over power delivered to the devices connected, and if these need to be powered permanently, or only when there is a live Host connection available. Current and voltage being drawn is also reported within this tab for reference.

The ports can be disabled by using the radial button next to each connection. The USB-A connections can have the amount of data limited between USB 3.2 Gen 1 (5Gbps - default)) or USB 3.2 Gen 2 (10Gbps).



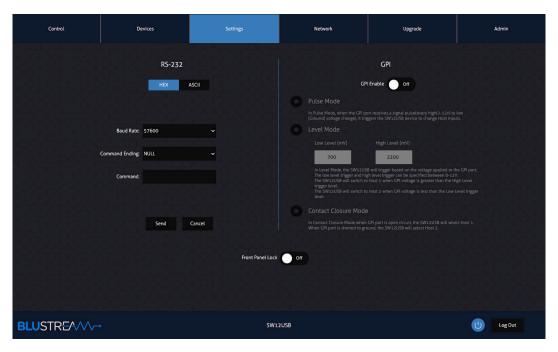


Web-GUI - Settings

The Settings tab allows for the configuration of the RS-232 terminal (HEX or ASCII communication, Baud Rate, Command Ending and a trigger command to be sent if the GPI is triggered).

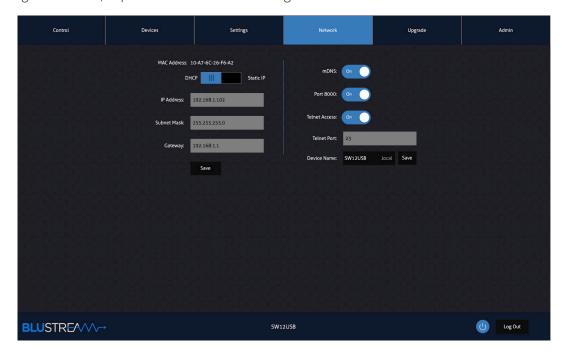
The GPI connection can also be configured from this tab, allowing for a trigger to be received by the SW12USB in Pulse Mode, Level Mode (with options for low and high voltages to be received), or Contact Closure Mode.

The button on the fornt of the unit can also be enabled / disabled form this screen to stop users from pressing this to switch between Hosts.



Web-GUI - Network

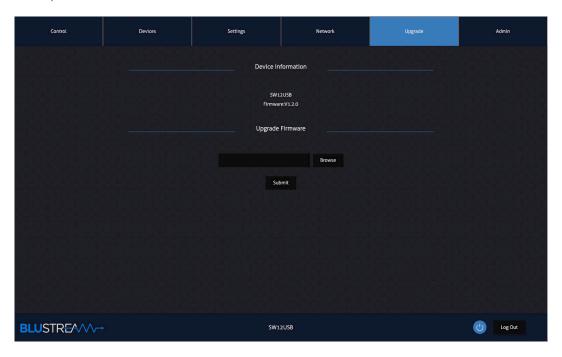
Network settings for the TCP/IP port of the unit can be configured from this tab of the web-GUI.





Web-GUI - Upgrade

The firmware of the MCU of the SW12USB is carried out from this tab of the user interface. Please see separate guide that is downloaded alongside the firmware files from the Blustream website for instructions of how to update the firmware of this unit,



Web-GUI - Admin

The Admin tab allows for the administrators username and password to be updated as required. Users can also be set up from this tab.





Telnet & RS-232 Control Ports

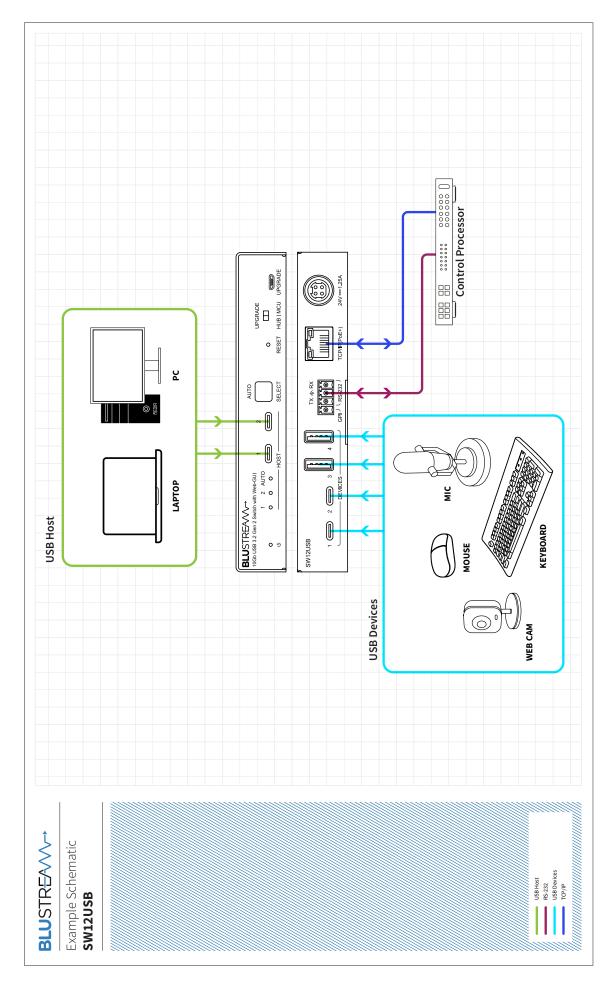
The SW12USB can be controlled via a 3-pin phoenix to serial RS-232 cable, or via Telnet.

The RS-232 communication settings and commands are as follows:

Baud Rate: 57600 bps Data Bit: 8-bit Parity: None Stop Bit: 1-bit Flow Control: None

PATELIP Print Help Information STATUS Print System Status And Port Status PRONOFF Set System To Default Setting PONOFF Set System To Default Setting Type Test To Confirm, No 1 to 18x and Within 30 Seconds HOST by FR All Set Connect From Hostby Type 11 Host Type 11	RS-232 / TELNET COMMAND	DESCRIPTION
PON/OFF Set System Power On Or Off RESET Reset System To Default Setting Type Nest To Confirm, No To Discard Within 30 Seconds HOST yy FRAII Set Compect From Hostsy yy = 01 - Host1 yy = 02 + Host2 SWITCH aa SWITCH aa Set Switching To aa aa = AUTA, Auto Switching OFF - Manual Mode USBDP aa Set USB Bevice Power Mode aa = Mark, Auto Switching OFF - Manual Mode USBDP aa Set USB Bevice Power Mode aa = His Follow Host aa - ON 1: Always On USBDPOUT yy ON/OFF Set USB Bevice Power Output yy = 01. All Devices yy = 01.44: Devices yy = 01.54: Device Mode yy = 01. Level Mode xx Range 01-2000 Unit mV GPI LOW xx Set The Low Level Voltage In The Level Mode xx Range 01-2000 Unit mV GPI HIGH xx Set The High Level Voltage In The Level Mode xx Range 01-2000 Unit mV FPI LOCK ON/OFF Set Forn Panel Lock ON Or OFF NAME zz Set Device Name UG HUB yy Set Sevice Name VIG HUB yy Set Sevice Name Select Hub Luggade Note All Convened Devices Will Lost. Switch The Host Or Reconnect The USB Cable It Will Be Returned To Nomal y = 01. Hub1 yy = 01. Speed 106 SPEED yy Set Sayaba (?/HELP	Print Help Information
RESET Reset System To Default Setting Type Yes To Confilm, "No" To Discard Within 30 Seconds HOST SyFR All Set Connect From Hostsby yy - 01: Host 2 SWITCH aa Set Switching To aa aa – AUTCA AUTO Switching ON - Auto Mode aa – MARA Auto Switching OFF - Manual Mode USROP aa Set LUSS Device Power Mode aa – MARA Auto Switching OFF - Manual Mode USROP OUT YO N/OFF Set LUSS Device Power Output yy = 00: All Devices yy - 01: How Host aa – ON: Always On USROPOUT YY ON/OFF Set LUSS Device Power Output yy = 00: All Devices yy - 01: How Host aa – ON: Always On USROPOUT YY ON/OFF Set LUSS Device Power Output yy = 00: All Devices yy - 01: How Host ow yy - 02: Contact Closure Mode GPILOW XX Set The Ow Level Voltage In The Level Mode xx Range O-10000 Unit no' GPILIOW XX Set The High Level Voltage In The Level Mode xx Range O-10000 Unit no' FP LOCK ON/OFF Set Front Panel Lock ON OT OFF NAME 77 Zet New Device Name Zet Is New Device Name Zelect Hub Upgrade Note All Commodied Devices Will Lost. Switch The Host Or Reconnect The USB Cable II Will Be Returned to Normal yy - 01: Hobb 2 Set Type A.P Dott Speed So Xy - 01: Speed 100 X - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1	STATUS	Print System Status And Port Status
Type Yes' To Confirm, No' To Discard Within 30 Seconds Set Connect From Hostsyy ys' 0.1: Host1 ys = 0.1: Host1 ys = 0.1: Host1 ys = 0.2: Host2 SWITCH aa Set Switching To aa aa = AUTO: Auto Switching ON - Auto Mode aa = AUTO: Auto Switching OFF - Manual Mode USBDP aa Set USB Device Power Mode aa = FH. Fellow Host aa = ON: Always On USBDPOUT yy ON/OFF Set USB Device Power Output ys' = 0.0: All Perices ys = 0.04: Host2 Set USB Device Power Output ys' = 0.0: All Perices ys = 0.04: Host2 Set GPI Mode ys = 0.0: Pulse Mode ys = 0.0: Contact Closure Mode Set The Low Level Voltage in The Level Mode xx Range 0-12000 Unit mix FP LOCK ON/OFF Set The High Level Voltage in The Level Mode xx Range O-12000 Unit mix FP LOCK ON/OFF Set Fort Panel Lock ON Or OFF NAME zz Set Device Name 75 is New Device Name 75 is New Device Name 75 is New Device Name Select Liub Upgrade Note: All Connected Devices Will Lost. Switch The Host Or Reconnect The USB Cable III Will Be Returned To Normal ys = 0.1: Hub2 ys = 0.1: Hub2 ys = 0.1: Hub2 ys = 0.1: Hub2 ys = 0.1: Speed 100 xet All Connected Devices Will Lost. Switch The Host Or Reconnect The USB Cable III Will Be Returned To Normal ys = 0.1: Hub2 ys = 0.1: Speed 100 xet All Connected Devices Will Lost. Switch The Host Or Reconnect The USB Cable III Will Be Returned To Normal ys = 0.1: Hub2 ys	PON/OFF	Set System Power On Or Off
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aa – AUTO: Auto Switching ON - Auto Mode a = MANA - Auto Switching ON - Auto Mode USBDP aa Set USB Device Power Mode aa – FH: Follow Host aa – ON: Always On USBDPOUT yy ON/OFF Set USB Device Power Output yy – O): All Devices yy – O): Device I Device Power Output yy – O): All Devices yy – O): Created I Devices yy – O): Set Power Name zo I Set Devices Will Lost. Switch The Host Or Reconnect The USB Cable It Will Be Returned To Normal yy – O): Hubb yy – O): Speed 56 yy – O): Speed 10G RS232BAUD z Set RS232 Baud Rate To xx z – 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200 RS232ON yz:a Send y Type Of Command a Stored In 1 ocal RS232 Whose Baud Rate Is 7 y – a ASCIII, H EX z – 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200 a – RS232 Command NET DHCP ON/OFF Set Telnet Port 0 Or Off NET TH 8000 ON/OFF Set Telnet Port 0 Or Off NET TH 8000 ON/OFF Set Telnet Port On Or Off NET TH 90000000000000000000000000000000000	HOST yy FR All	yy = 01 : Host1
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yy = 0.1 All Devices yy = 0.1-04 : Device1-4 GPI yy Set GPI Mode yy = 0.1 : Level Mode yy = 0.2 : Level Mode xor Range 0-12000 Unit mV GPI HIGH xx Set The High Level Voltage in The Level Mode xor Range 0-12000 Unit mV FP LOCK ON/OFF Set Front Panel Lock ON Or OFF Set Front Panel Lock ON Or OFF NAME zz Set Device Name zot is New Device Name Select Hub Upgrade Note: All Connected Devices Will Lost. Switch The Host Or Reconnect The USB Cable it Will Be Returned To Normal yy = 0.1 : Hub1 yy = 0.2 : Hub2 Set Type-A Port Speed yy = 0.1 : Speed 5G yy = 0.1 : Speed 10G RS232BAUD z Set RS232 Baud Rate To xx z = 1.2400, 2.4800, 3.9600, 4.19200, 5.38400, 6.57600 (Default), 7.115200 RS232ON yz:a Send y Type Of Command a Stored in Local RS232 Whose Baud Rate Is z y = a xSCII, h HEX z = 1.2400, 2.4800, 3.9600, 4.19200, 5.38400, 6.57600 (Default), 7.115200 a = RS2322 Command NET DHCP ON/OFF Set Auto IP(DHCP) On Or Off NET TN 8000 ON/OFF Set Telnet Port 8000 On Or Off NET TN 8000 ON/OFF Set Telnet Port 8000 On Or Off NET IP x00xx00xx0xx0xxx Set Gateway Address NET SM x0xxx0xx0xxxxx Set Subnet Mask Address NET SM x0xxx0xx0xxxxx Set Subnet Mask Address NET BM Set Network Reboot And Apply New Configi!!	USBDP aa	aa = FH : Follow Host
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XX Range 0-12000 Unit mV	GPI yy	yy = 00 : Pulse Mode yy = 01 : Level Mode
xx Range 0~12000 Unit mV FP LOCK ON/OFF Set Front Panel Lock ON Or OFF Set Device Name Select Hub Upgrade Note: All Connected Devices Will Lost. Switch The Host Or Reconnect The USB Cable It Will Be Returned To Normal yy = 01: Hub1 yy = 02: Hub2 Set Type-A Port Speed yy = 00: Speed 5G yy = 01: Speed 10G RS232BAUD z Set RS232 Baud Rate To xx z = 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200 RS232ON y:z:a Sendy Type Of Command a Stored In Local RS232 Whose Baud Rate Is z y = a ASCII, h HEX z = 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200 a = RS232 Command NET DHCP ON/OFF Set Auto IP(DHCP) On Or Off NET TN 8000 ON/OFF Set Telnet Port 8000 On Or Off NET TN ON/OFF Set Telnet Port On Or Off NET MDNS ON/OFF Set mDNS On Or Off NET IP XXX.XXXX.XXXXXXXXX Set Gateway Address NET GW XXX.XXXX.XXXXXXXX Set Subnet Mask Address NET RB Set Network Reboot And Apply New Config!!!	GPI LOW xx	
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NET SM xxx.xxx.xxx Set Subnet Mask Address NET RB Set Network Reboot And Apply New Config!!!	NET IP xxx.xxx.xxx	Set IP Address
NET RB Set Network Reboot And Apply New Config!!!	NET GW xxx.xxx.xxx	Set Gateway Address
	NET SM xxx.xxx.xxx	Set Subnet Mask Address
NET TN xxxx Set Telnet Port	NET RB	Set Network Reboot And Apply New Config!!!
	NET TN xxxx	Set Telnet Port







Specifications

- USB Device: 2 x USB Type A female, 2 x USB Type C female
- USB Host: 2 x USB Type C female
- GPI / RS-232 Serial Port: 1 x 4-pin Phoenix connector
- TCP/IP Control: 1 x RJ45, female
- Firmware Upgrade: 1 x Micro-USB
- **Dimensions (W x D x H):** 150mm x 110mm x 23mm
- Shipping Weight: 0.6kg
- Operating Temperature: 32°F to 104°F (0°C to 40°C)
- Storage Temperature: -4°F to 140°F (-20°C to 60°C)
- Power Supply: 24V/1.25A DC, 4-pin DIN connector

NOTE: Specifications are subject to change without notice. Weights and dimensions are approximate.

Package Contents

- 1 x SW12USB
- 1 x 24V/1.25A DC power supply
- 1 x 3-pin phoenix to DB9 serial cable
- 1 x Mounting kit
- 1 x Quick Reference Card

Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

Components inside this unit are not user serviceable. Do not remove the protective cover from the unit. Removing any panel from this product will invalidate the manufacturers warranty.



Certifications

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.



Inst	aller	Notes

Installer Notes



www.blustream.com.au www.blustream.co.uk