



## **INTRODUCTION/OVERVIEW**

**(QUICKSTART/OPERATING MANUAL ON REVERSE)**

- **CyberCommander™**
- **CyberSync™ Plus AC Powered Receiver CSR+**
- **CyberSync™ Plus Battery Powered Receiver CSRB+**
- **CyberSync™ Transceiver CSXCV**
- **CyberSync™ Transmitter CST**
- **CyberSync™ AC Powered Receiver CSR**
- **CyberSync™ Battery Powered Receiver CSRB**

FCC ID: OUECSXCVR I  
IC: 6866A-CSXVR I

These devices comply with Part 15 of the FCC rules and Industry Canada requirements. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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## **SAY HELLO TO CYBERSYNC™**

CyberSync™ represents the pinnacle of radio remote control systems for photographic lighting. More than a series of devices, CyberSync™ is a fully integrated system, with all components compatible with one another and operating on the global standard 2.4GHz frequency band. This allows for any use from simple remote firing of flash units and cameras to beyond-state-of-the-art control, metering and display of complex 16 light studio systems. In addition to the 16 light channels, you may select one of 16 operating frequencies to avoid conflicts with other CyberSync™ users in the area. Thanks to CyberSync™'s high security 256-bit digital encoding, false triggering and errors from interference is virtually impossible. Typical operating range is up to 400' line-of-sight and 150' through walls and other major obstructions. A repeater mode is included that allows doubling this range in difficult situations.

## **CYBER COMMANDER™**

The heart of the ultimate system is Cyber Commander™. While primarily designed as a control center for lights manufactured by Paul C. Buff, Inc., Cyber Commander™ brings a world of new features to studio flash units from other manufacturers, including battery powered “Speed Lights”.

When used with any Paul C. Buff, Inc.™ studio flash units made since 1986, Cyber Commander™ brings revolutionary capabilities to the serious photographer.

Thanks to its integrated flashmeter, Cyber Commander™ allows—for the first time ever—setting, displaying and bracketing your lights in actual camera f-stops, individually or in groups.

# CONTROL FROM THE PALM OF YOUR HAND

From your camera or from the palm of your hand, you can see a sixteen-channel bargraph showing the following parameters:

- The actual camera f-stop produced by each light.
- The flashpower and modeling intensity of each light relative to each other light in the system, even when lights with different power capability are mixed in a system. The bargraph also shows the maximum and minimum power range for each light and where the power is currently set within that range.
- The ability to bracket power levels in near-infinite groups, reading in f-stops without the need to re-meter when changes are made.
- Save and retrieve any number of complex setups to the on-board Micro SD card.

By selecting individual channels from the intuitive menu, you can examine and control the following parameters from each individual light:

- Exact camera f-stop expressed numerically, with wide-range adjustable ISO and exposure time.
- Flashpower in VWS and in convenient relative “Euro numbers”.
- Modeling intensity expressed in watts, with the ability to equalize Watts vs VWS from lights with different wattage modeling lamps and flashpower ratings.
- The t.1 flash duration and color temperature of each light.
- The make and model of each light, and its position in the studio, i.e. “Left Main”, “Center Hairlight”, etc.

## REQUIREMENTS FOR THE EFFECTIVE USE OF CYBER COMMANDER™.

In order to gain the full features you will need to use one of these three modules for each light in the system:

- CSR+ AC powered receiver/repeater.
- CSRB+ Battery powered receiver/repeater.
- CSXCV Transceiver module for next-generation Paul C. Buff light units.

You can set up 8 groups of lights, with any group containing any combination of the sixteen available light channels. For any group, or for the aggregate of all lights, you can bracket directly in camera f-stops indicated numerically—i.e. f5.6 plus 2/10, in precise 1.10 f digital steps.

When Cyber Commander™ is used with non-Paul C. Buff, Inc.™ lights, you can still enjoy the camera f-stop metering and display capabilities as well as the grouping and naming capabilities. But they will not be included in bracketing nor can their parameters be defined.

This is just the tip of the iceberg of the capabilities of Cyber Commander™. Please see the separate Cyber Commander™ manual for the complete story.

In use, Cyber Commander™ communicates bi-directionally with these modules to read and write the required information. The camera sends a simple trigger signal that fires the above modules according to their predetermined parameters—groups, on/off status, power levels, etc.

In order to be able to take flashmeter readings from the subject position, many users prefer to hand carry the Cyber Commander™ to set up for a shot. In this use, the small and inexpensive CST transmitter may be left on the camera hotshoe to send the fire signal for the photo/exposure/shot. The CST sends the same fast trigger signal as the Cyber Commander™, so as long as one of the three modules is used exposures can be made with either the CST or Cyber Commander™ mounted on the camera.

## **INTRODUCING THE CYBERSYNC™ PLUS SERIES**

The CyberSync™ CSR+ and CSRB+ receivers are designed to trigger and control all Paul C. Buff, Inc.™ photoflash systems. Like the CSR and CSRB receivers, the CSR+ and CSRB+ products respond to the FIRE command transmitted by the CST, as long as the CSR+ or CSRB+ unit is assigned to the same frequency as the CST.

In addition, the CSR+ and CSRB+ receivers have a *channel select* function and a remote control output which allows individual lights to be selected, as well as providing enhanced control functions when communicating with the Cyber Commander™.

Please note: CSR+ and CSRB+ will allow the flash units to fire when signaled by the CST or Cyber Commander™. Grouping and parameter control is established by the CyberCommander™ and honored even when fired by the CST. The CSR+ and CSRB+ will allow the adjustment of flash power and model lamp intensity only when used in conjunction with the Cyber Commander™. The CSR and CSRB receivers will not allow enhanced control functions such as flash power or model lamp intensity adjustment.

The CSR+ and CSRB+ receivers interface between Cyber Commander™ and every flash unit with a remote jack made by Paul C. Buff, Inc.™ since 1986.

Supported lights include AlienBees™, UltraZap, White Lightning™ Ultra, White Lightning™ X Series and Zeus™.

All CyberSync™ receivers offer a selectable REPEATER MODE to allow doubling the firing range. Additionally, all CyberSync™ receivers can be used to trigger most cameras and Speed Lights with appropriate connections.

## **SIMPLE TRIGGER-ONLY SYSTEM:**

If your objective is to simply remotely fire your studio flashes, Speed Lights or camera, you can configure your system using only the CST transmitter on your hotshoe and one of the following receivers on each light:

- CSR AC powered receiver/repeater.
- CSRB battery powered receiver/repeater.

Because these modules have no channel selection or ability to communicate bilaterally, the function will be limited to simply firing all receivers that are set to the same frequency as the CST transmitter. No grouping or parameter control is possible with this setup. If you are not concerned with your lights being fired by the flash from other photographers in the area, it's possible to use one CST transmitter and only one receiver module to fire one of the lights in your system, and allow the other units' optical flash-sensitive slave cells to fire the remaining lights.

# PRODUCT OVERVIEW



## CSR & CSRB RECEIVERS

- ★ Connects to any flash unit via sync jack
- ★ Accepts FIRE command from either Cyber Commander™ or CST on same frequency
- ★ Adaptor cables needed for some Speed Lights or "H" connectors. CSR & CSRB ship with: 3.5mm male to 3.5mm male, 3.5mm male to 1/4" male, and 3.5mm to PC cords. Please check out [FlashZebra.com](http://FlashZebra.com) for additional custom cords.
- ★ Grouping, channel selection, power selection and parameter display functions are not available on CSR or CSRB.





## CST TRANSMITTER

- ★ Normally, the CST is simply attached to your camera hotshoe and will fire all CyberSync™ receivers set to the same frequency. A hotshoe adaptor may be needed for Sony cameras and a few other cameras that do not have standard hotshoes.
- ★ For convenience, users will be able to combine the CST with Cyber Commander™. This allows users to hand-carry the Cyber Commander™ for setting up lights and taking meter readings, while actually taking pictures using the hotshoe mounted CST. This fires the system, using power levels, grouping, etc. as set up on Cyber Commander™.
- ★ If a hotshoe connection is not available or desired, CST may be connected to your camera or external flashmeter via the supplied 2.5mm sync jack.

# PRODUCT OVERVIEW



## CSXCV TRANSCEIVER MODULE

- ★ The CSXCV module plugs into the mating receptacle on all second-generation digital Paul C. Buff, Inc.™ lighting units fitted with this receptacle. Such units do not contain the RJ11 telephone style analog remote jacks and the CSXCV module forms an all-digital interface from CST transmitters and Cyber Commander™.
- ★ The CSXCV module is powered by the host light unit. Frequency and channel selection is also performed by the host lighting unit.
- ★ Thus the CSXCV module is truly plug and play, and eliminates the need for CSR+ or CSRB+ or other receivers on second-generation Paul C. Buff, Inc.™ digital lights, unleashing the full power and accuracy of a sophisticated all-digital remote control system.

# PRODUCT OVERVIEW

## CSR+ & CSRB+ RECEIVERS

Connect sync jack to any flash unit with appropriate cable. Fires from CST transmitter or Cyber Commander™ on selected frequency. If used in conjunction with Cyber Commander™, channel selection allows grouping, selective firing and metering by channel or group on any light. No power control available to units connected via sync jack.

If used with Cyber Commander™, connect remote jack to any Paul C. Buff, Inc.™ flash unit with remote input. If Cyber Commander™ is not used, you will not be able to adjust power levels of lights connected via remote jack so you should connect via sync jack.

If remote jack is connected to Paul C. Buff, Inc.™ light and Cyber Commander™ is used, you will be able to control and display all parameters of sixteen different light channels, by channel, group or all. Cyber Commander™ can store and retrieve any number of setups, meter and display camera f-stop by channel, group or all, and display all power levels of all lights on a common bar graph. Also displays individual channel duration, color temperature, and detailed parameters of each light channel.

CSR+ & CSRB+ ship with: 3.5mm male to 3.5mm male, 3.5mm male to 1/4" male, 3.5mm to PC, and RJ11 telephone style cord for connection to remote control jack on Paul C. Buff, Inc.™ lights. Please check out [FlashZebra.com](http://FlashZebra.com) for additional custom cords.



# PRODUCT OVERVIEW

## CYBER COMMANDER™

Cyber Commander™ can be simply attached to your camera hotshoe and will fire all CyberSync™ receivers set to the same frequency. If used in conjunction with CSR+ or CSRb+, grouping and selective channel firing and metering are accessible on any light. If Paul C. Buff, Inc.™ lights are attached to CSR+ or CSRb+ you will be able to control and display all parameters of sixteen different light channels, by channel, group or all. The left hand joystick allows scrolling through channels 1-16, groups 1-8 and "All". You select the channel or group to bracket or meter, then push the "meter" button to take a reading. Cyber Commander™ can store and retrieve any number of setups, meter and display camera f-stop by channel, group or all, and display all power levels of all lights on a common bar graph. Also displays individual flash duration, color temperature, and detailed parameters of each light channel.

Cyber Commander™'s on-board computer uses complete parameter information stored for all Paul C. Buff Inc.™ light models to accomplish this.

The incident dome flash sensor is located on the back of the Cyber Commander™.

For convenience, many users combine the CST with Cyber Commander™. This allows hand carrying of the Cyber Commander™ for setting up lights and taking meter readings, and actually taking pictures using the hotshoe mounted CST. This fires the system, using power levels, grouping, etc. as set up on Cyber Commander™.

Operating instructions for Cyber Commander™ are covered in a separate operating manual.



## SPECIFICATIONS

Frequency range: Sixteen frequencies spaced 2MHz apart, from 2.427GHz to 2.457GHz.

Encoding: Secure 256-bit binary encoded packet, with validity verification.

Latency: 1/4000 typical delay from closing of camera contact to receiver sync output signal.

CST Sync Voltage: 3VDC at camera.

CSR/CSR+/CSRB/CSRB+ Sync Voltage: Withstands up to 300VDC from connected flash unit. Fires units with positive or negative sync polarity. "Center contact = positive" sync polarity, which is standard for most lights. Rarely, a light may use "Center contact = negative". Should you encounter this, we have an accessory polarity reversing cable available.

CSR/CSR+ Power Consumption: Approximately 2 watts. Operates from 50VAC to 260VAC, 50/60Hz. Pass-through AC rated for up to 250VAC, 15A.

CSRB/CSRB+ Battery life: Approximately 200 hours on-time with two AA alkaline or NiMH batteries. Auto shutoff after one hour of non-use.

CST Battery: Uses lithium coin cell CR2450 battery (3VDC, 540mAh). Two year typical life.

CST connections: Syncs from standard hotshoe. Auxiliary adaptor allows "PC" connection.

CSR/CSR+/CSRB/CSRB+ connections: Supplied cords: 3.5mm male to 3.5mm male, 3.5mm male to 1/4" male, and 3.5mm to PC cords. CyberSync™ Plus models ship with a RJ11 telephone style remote control cord, in addition to the cords sent with non-plus models.



## **QUICKSTART/OPERATING MANUAL**

**(INTRODUCTION/OVERVIEW ON REVERSE)**

- **CyberSync™ Transmitter CST**
- **CyberSync™ AC Powered Receiver CSR**
- **CyberSync™ Plus AC Powered Receiver CSR+**
- **CyberSync™ Battery Powered Receiver CSRB**
- **CyberSync™ Plus Battery Powered Receiver CSRB+**

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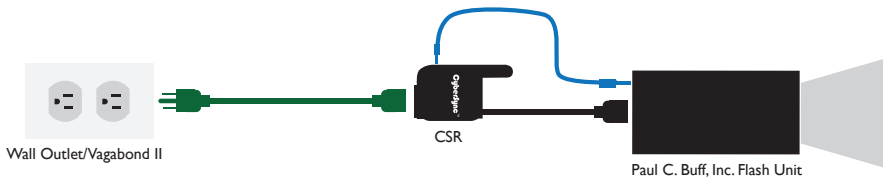
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# QUICKSTART GUIDE: CSR

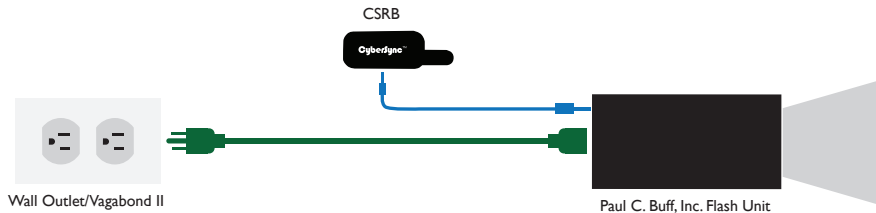
## (or CSR+ without CYBER COMMANDER™)






### LEGEND

-  RJ-11 telephone-style cord
-  AC power cable
-  3.5mm male to 1/4" male (White Lightning™) or 3.5mm male to 3.5mm male (AlienBees™)

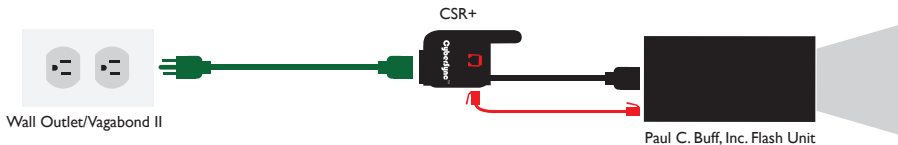
# QUICKSTART GUIDE: CSRB (or CSRB+ without CYBER COMMANDER™)



## LEGEND

-  RJ-11 telephone-style cord
-  AC power cable
-  3.5mm male to 1/4" male (White Lightning™) or 3.5mm male to 3.5mm male (AlienBees™)




# QUICKSTART GUIDE: CSR+ (with CYBER COMMANDER™)



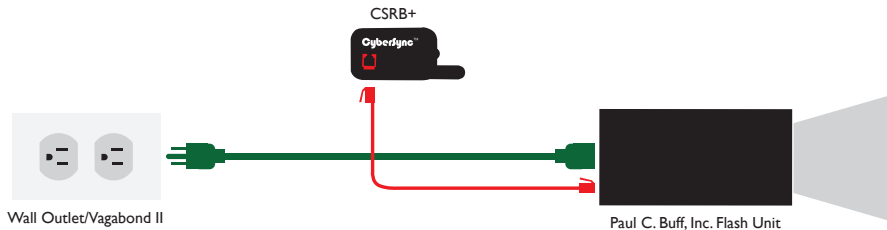
To turn off the slave sensor, simply insert a dummy plug into the sync jack on the flash unit. This will deactivate the slave sensor, eliminating possible misfires.

If you do not have a dummy plug, you can use a sync cord as long as it is not plugged into anything else on the other end.

## LEGEND

-  RJ-11 telephone-style cord
-  AC power cable
-  3.5mm male to 1/4" male (White Lightning™) or 3.5mm male to 3.5mm male (AlienBees™)




# QUICKSTART GUIDE: CSRB+ (with CYBER COMMANDER™)



To turn off the slave sensor, simply insert a dummy plug into the sync jack on the flash unit. This will deactivate the slave sensor, eliminating possible misfires.

If you do not have a dummy plug, you can use a sync cord as long as it is not plugged into anything else on the other end.

## LEGEND

-  RJ-11 telephone-style cord
-  AC power cable
-  3.5mm male to 1/4" male (White Lightning™) or 3.5mm male to 3.5mm male (AlienBees™)

# **OPERATING INSTRUCTIONS**

## POWERING THE CST TRANSMITTER

The CST uses a CR2450 standard lithium coin cell, available at most drug stores. It is easily changed via the battery drawer located at the back of the unit. The CST has no power switch. It is in sleep mode except for the very brief time when it is transmitting. The typical battery life is on the order of two years regardless of whether or not it is used.





## CONNECTING CST

In typical use, the CST transmitter is simply slid onto the standard hotshoe of your camera. If your camera lacks a hotshoe the CST may be connected to a standard PC sync connector via accessory cable.

The voltage presented to the camera by the CST is approximately 3 volts DC and is thus safe for use with any camera.

Pressing the test button fires the CST for testing. Low battery is indicated by double blinking of the red LED



## POWERING THE CSR & CSR+ RECEIVERS

The AC powered CSR receiver is fitted with a standard IEC computer style AC input socket and an attached one-foot cable with IEC standard output plug.

The CSR may be used safely with AC voltages from 50VAC to 260VAC, 50 or 60Hz.

To power the CSR receiver, unplug the power cord from your light unit and plug this cord into the CSR AC input. Then plug the CSR AC output cord into your flash unit. The AC power then passes through the CSR receiver and to your flash unit without added cords.

If your flash equipment uses other than a standard IEC style power connector the CSR may be separately powered using a standard accessory IEC computer style power cord.

The CSR receiver has no on/off switch as its power draw is extremely low. When properly connected, the front panel LED should be green, indicating it is operating.



## CONNECTING CSR & CSRB

The CSR and CSRB receivers employ a standard 3.5mm mono “headphone style” phone jack for connecting the output to your flash unit’s sync input. CSR & CSRB ship with: 3.5mm male to 3.5mm male, 3.5mm male to 1/4” male, and 3.5mm to PC cords. Please check out [FlashZebra.com](http://FlashZebra.com) for additional custom cords.

It is also possible to connect receivers to battery operated portable flash units having sync voltages up to 300V DC using an accessory cable providing mini-phone plug to camera PC connection.

## POWERING THE CSRIB & CSRIB+ RECEIVERS

The CSRIB receiver is powered by two “AA” batteries.

The CSRIB ships with alkaline batteries. If you prefer rechargeable batteries you may use NiMH batteries and charger available at most drug stores. Batteries are replaced by opening the battery compartment on the back. Please observe the polarity marked inside the battery compartment.

The CSRIB is turned on by pressing the test switch. This places it in *on* mode for one hour, after which it shuts off automatically to preserve battery life. While in use, the CSRIB receiver begins a new one-hour *on* period each time it receives a flash command. Thus it will stay on continuously during a session, then shut off when not in use. See “Repeater Mode.”

The battery life is approximately 200 hours of on-time.



## CONNECTING THE CSR+/CSRB+

If the CSR+ or CSRB+ receiver is to be connected as a trigger-only device used in conjunction with the CST CyberSync™ transmitter, the light to be triggered must be connected to the receiver using the appropriate sync cord between the receiver's 3.5 mm sync output jack and the light's external sync input jack. **Do not connect the CSR+ or CSRB+ modular remote control output to a light's remote control input using the supplied 4-conductor RJ11 remote control cable unless you are using the Cyber Commander™ as the master remote controller.**

The Cyber Commander™ provides configuration data required by the CSR+ and CSRB+ to fire a light via the modular remote control output. Connecting the CSR+ or CSRB+ modular remote output to a Paul C. Buff, Inc.™ light using the supplied remote

control cord without using the CyberCommander™ will not damage your equipment, but it will result in the light's flash power and modeling lamp intensity defaulting to **full power**, and **all back panel power adjustments will be ignored by the light.**

In order to use the CyberSync™ CST transmitter in the absence of a Cyber Commander™ to trigger the CSR+ and CSRB+, the CSR+ or CSRB+ sync output must be connected to the light's external sync input using the appropriate sync cord, and the CSR+ or CSRB+ frequency select switch must be set to the same frequency as the CST.

No grouping or selective channel firing will be available unless the Cyber Commander™ is present.

## SETTING THE FREQUENCY

CyberSync™ CST transmitter, CSR/CSR+ receiver and CSRB/CSRB+ battery powered receivers employ a sixteen channel frequency selection switch on the front panel.

The multiple frequencies allow freedom from interference from other nearby photographers using CyberSync™ or other equipment operating on the 2.4GHz band.

The transmitter and receiver(s) must be set to the same frequency. If interference is problematic, set all the units to a different common frequency.



## SETTING THE CAMERA

The CyberSync™ system is not designed to perform TTL control of flash units, nor are most studio flash units capable of TTL operation. Therefore it is necessary to set the camera for manual mode.

This involves manually setting the aperture, exposure time and ISO, and using a flash meter or histograms to determine optimal exposures.

ISO is preferably set for the lowest number your camera allows (usually ISO 100 or 200). This will yield the highest possible quality.

For most DSLR cameras with CCD sensors the exposure time should be set at the maximum sync speed of the camera. If a slight black bar appears in the pictures, exposure time should be set one click slower than the camera's max sync speed.

Some cameras such as Nikon D40 or D70 and Canon G9 use a CCD (Nikon) or a CMOS (Canon) sensor and electronic shutter. On these cameras, exposure times up to 1/2500 second are possible.

While the latency (time from camera trigger to received flash command) of CyberSync™ is typically only 1/4000 second, setting the camera faster than its max flash sync speed with any manual flash unit will result in dark, unexposed areas.

A common misconception for new users of studio flash is that exposure is determined by both the aperture and the exposure time.

While the exposure time does affect exposure from ambient light, it does not affect the exposure from flash, nor does a faster exposure time aid in stopping action (unless a very high amount of ambient light is present).

Studio flash units typically produce their light in 1/300 to 1/5000 second and the intensity of the flash is thousands of times brighter than the light produced by modeling lamps or normal room lighting.

Thus, unless there are high amounts of sunlight present, camera exposure times of 1/60 second or faster have little to no effect on the exposure, action stopping or composition.



## REPEATER MODE

If the distance from transmitter to receiver is greater than the reliable range of CyberSync™, either a CSR/CSR+ or CSRB/CSRB+ may be used to repeat the trigger signal, thus doubling the effective range.

Repeater mode is established by holding down the TEST button for three seconds. When you see the LED rapidly blink green three times periodically, you are in repeater mode. To exit repeater mode, again hold the TEST button in for three seconds until the LED blinks one time to indicate you have exited repeater mode.

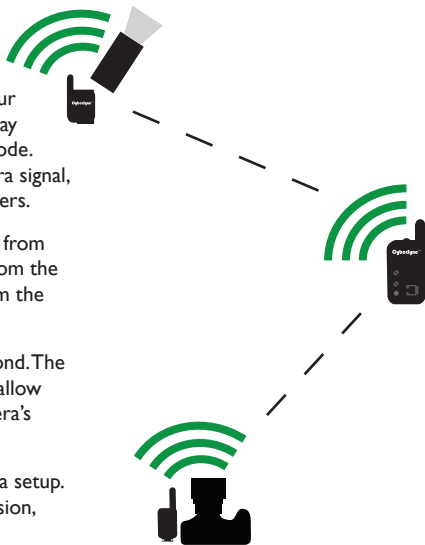
## EXAMPLE OF REPEATER MODE USAGE

Assume you are lighting a scene several hundred feet from your camera location. Position a CSR/CSR+ or CSRB/CSRB+ midway between the camera and the scene and place it in repeater mode. When you fire the camera the repeater will receive the camera signal, then regenerate it for transmission to the more distant receivers.

If a flash unit is connected to the repeater it will fire normally from the camera signal. The more distant flash units may also fire from the camera signal if they are close enough. If not, they will fire from the regenerated signal of the repeater.

Using a repeater delays the signal by an additional 1/4000 second. The resulting latency of 1/2000 second total is still fast enough to allow the camera exposure time to be set one click below the camera's maximum sync speed in most uses.

It is not generally advisable to use more than one repeater in a setup. If two repeaters are used and both receive the same transmission, both will regenerate at the same instant and interfere with one another.



# WARRANTY

Paul C. Buff, Inc.™ guarantees all CyberSync™ products for a period of two years from date of purchase. We will, at our option, repair or replace any CyberSync™ product that becomes defective during this period. Batteries are excluded from this warranty, as is any damage resulting from improper use.

No claim is made for the suitability of this product for any intended use and no liability is implied or assumed beyond the repair or replacement of this product.

Defective units should be returned to us at the address below with a note explaining the defect or problem. We will return repaired or replaced units to you at our cost.

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