

# Remote



## USER GUIDE



## Thank you for choosing Zylight.

We at **Zylight** are happy that you chose the **Remote**. There are many lighting systems out there to choose from, and we think you will agree that what you hold in your hands is part of the most versatile production lighting system on the planet.

At **Zylight** our mission is to bring truly intelligent lighting to your shoots. With its small size and weight, DMX compatibility, and wireless ZyLink™ technology, the **Remote** gives you unmatched flexibility and creativity in the palm of your hand.

The people who engineered and built your **Remote** are the same folks who will answer any questions you may have about it. We use our lights everyday, and would love to hear any comments or suggestions you may have about how we can improve our products.

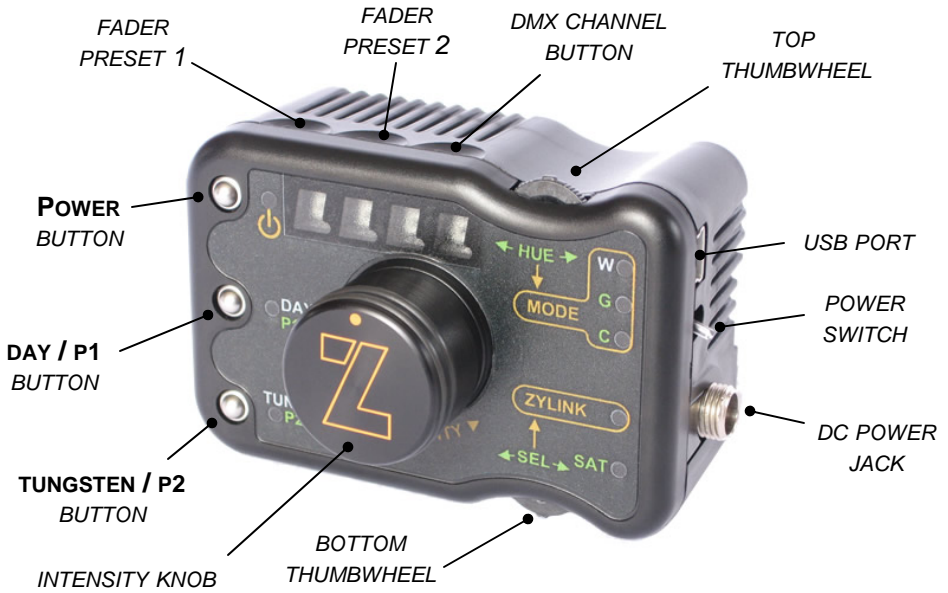
The **Remote** may be small, but it is certain to have a big impact on your next project!

Enjoy,

- The Zylight Team

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[www.zylight.com](http://www.zylight.com)

## Remote Overview



## Powering the Remote

The Remote is turned on or off by using the power toggle switch on the right side of the Remote. Move the switch up to turn on the Remote.

The Remote includes an internal rechargeable NiMH battery giving up to eight hours of standalone (non-DMX) operation. To extend battery life, the Remote should be turned off when not in use.

To charge the Remote's battery, you may plug in a Zylight Z90 or Z50 AC Adapter into the DC jack, or you may plug in a standard mini-USB cable into the USB port. The other end of the USB cable must be connected to a compatible USB port on a computer, and that computer must be turned on. The Remote will accept any power supply from 6-20VDC and requires 500mA to charge properly. The power toggle switch will light up red to indicate the Remote is charging. When charging is complete, the red light will turn off.

Please note that battery operation in DMX mode is discouraged and will significantly shorten the run time of the Remote. It is advised to power the Remote via AC adapter or USB while operating in DMX mode.

## Standalone Mode

To use the Remote in standalone mode, simply turn on the power toggle switch on the right side of the Remote. The Remote will display an interface identical to a Zylight Z90. Operate the Remote as you would another Z90 in ZyLink mode.

Be sure ZyLink is enabled on the lights you wish to control, and the Remote is set to the same ZyLink channel as the lights: Z90s have ten ZyLink channels to choose from, while Z50s always communicate on channel 1. **[See the Zylight Z90 or Z50 Instruction Manuals for specific information on ZyLink operation.]**

**Please note:** *The Remote will not respond to ZyLink commands sent from other lights. Also, due to the wireless functionality of the Remote, ZyLink mode cannot be disabled on the Remote as it can on our lights.*

## Fader Operation

The Remote includes Faders to smoothly transition a Z90 from one setting to another. The Faders are controlled using the left two **Fader Preset** buttons on the top of the Remote. **Note:** *Z50 lights are not compatible with Faders.*

To use a Fader:

1. Adjust the Remote so your lights are producing the output you wish to fade **to**. Then press and hold the desired Fader preset button until the power light (top left) starts blinking. Release the Fader preset button.
2. Adjust the fade or transition time by pressing and holding the desired Fader preset button and moving the top thumbwheel (labeled Hue) until the desired fade time (1-10 seconds) appears on the display.
3. Adjust the Remote so your lights are producing the output you wish to fade **from**. Press and release the desired Fader preset button, and the lights will smoothly fade to the preset you defined earlier.

**Tip:** To quickly save and recall colors you wish to fade **from**, use the Preset functionality of the Remote. This operates the same as Presets on a Z90. Simply push and hold the P1 or P2 button to save a color. Then, after fading to your new setting, recalling your original setting is as easy as pushing and releasing the P1 or P2 button.

Faders are independently set in each of the Z90's three modes, as indicated by the Mode indicators: White Mode, Gel (or Variable Color Temperature) Mode, and Color Mode. Therefore, there are two Fader Presets for each of the three modes. **Please Note:** *You cannot fade from one **mode** to another.*

## Fader Example

**Example:** Fade a Z90 from 5800k to 4200k over 3 seconds

Steps:

1. Set up a Z90 in ZyLink mode on channel 1 by pressing and holding the Z90's bottom rocker switch until the "ZYLINK" light turns on. Then repeatedly press and release the Z90's bottom rocker switch on the Z90 until the display reads CH 1.
2. Set the Remote to channel 1 by repeatedly pressing and releasing the Remote's bottom rocker switch until the display reads CH 1. The Z90 should now respond to control from the Remote. If the Z90 is not lit at this time, turn on the light with the Power button on the Remote (top left).
3. Put the Z90 in Gel mode by holding the top rocker switch on the Remote until the "MODE" light indicates "G".
4. Choose 4200k by adjusting the top thumbwheel on the Remote.
5. Press and hold the Fader 1 button until the power light on the Remote blinks. This will save 4200k as the destination output of Fader 1.
6. Press and hold the Fader 1 button while adjusting the top thumbwheel on the Remote to choose the fade time of Fader 1. For this example, set the display to read "3 s", indicating a 3 second fade time.
7. Choose 5800k by adjusting the top thumbwheel on the Remote. This will be the output you are fading from.
8. To execute the fade, press and release the Fader Preset 1 button. The Z90 will fade smoothly from 5800k to 4200k over 3 seconds.

## External Antenna

For optimum range and reliability, the Zylight Remote requires the use of the included external antenna. The antenna can be attached and removed from the Remote by turning the knurled locking ring at the base of the antenna. The antenna can be swiveled and tilted during use to a convenient position. The Remote has an approximate transmit range of 66-feet [20-meters].

## Belt Clip

A removable belt clip is included for convenience in securing the Remote during use. To attach the belt clip, simply slide the slotted tabs of the belt clip into the receptacle on the back of the Remote. To remove the belt clip, depress the metal tab between the belt clip and the Remote body, and slide the belt clip out of the receptacle.

## Non-slip Feet

Four non-slip rubber feet are included to provide a sturdy base for desk-top use of the Remote. To use them, simply peel the feet from their backing and place them into the four round recesses on the bottom of the Remote.

## DMX Operation

The Zylight Remote includes the capability to control up to ten banks of Zylights wirelessly via DMX. Simply plug the Zylight Remote into a DMX controller and set up the DMX channels as indicated on the facing page.

The Zylight Remote uses a total of 110 DMX slots. Each ZyLink channel uses 11 DMX slots, and all 10 ZyLink channels can be controlled by the Remote simultaneously. Within the 110 DMX slots the first 11 slots correspond to ZyLink channel 1, the second 11 to ZyLink channel 2, etc.

To change the DMX start address of the Remote, press and hold the DMX Channel button while adjusting the start address with the top thumbwheel. The start address can be set from 1 to 411. The DMX start address cannot be changed while the Remote is in standalone mode (DMX not connected).

The Zylight Remote is a **terminated** device, and must be placed at the **end** of a DMX chain. It is internally terminated with a 120-ohm resistor and does not include a DMX output port for daisy-chaining. The Remote conforms to the DMX512-A and DMX512 (1990) protocol standards.

The Zylight Remote automatically switches into DMX Slave mode when a DMX plug is connected to the Remote. In this mode, the Remote will not function as a handheld controller; it only accepts commands via DMX.

# DMX Channel Map

**Slot 1: ZyLink Channel Enable** - This control disables broadcast on the respective ZyLink channel when under 50%, and enables broadcast when above 50%.

**Slot 2: Shutter** - This control turns the light off when under 50%, and turns the light on when above 50%. It is equivalent to the power button on the Z90.

**Slot 3: Mode** - This control changes the mode of the Z90. From 0-33% the light is in White mode. From 33-66% the light is in Gel mode. From 66-100% the light is in Color mode.

**Slot 4: White Mode Color Temperature** - This control changes the color temperature while in White Mode. From 0-50% the light outputs Daylight (5600K), and from 50-100% the light outputs Tungsten (3200K).

**Slot 5: Gel Mode Color Temperature** - This control changes the color temperature while in Gel Mode, from 2500K (0%) to 9000K (100%).

**Slot 6: Color Correction** - This control changes the color correction while in Gel Mode, from -10 (0%) to +10 (100%). **If no color correction is desired, leave this channel at 50%.**

**Slot 7: Color Hue** - This control changes the hue while in Color Mode. It follows an R-G-B-R color wheel.

**Slot 8: Fine Color Hue** - This control fine-tunes the hue while in Color Mode, allowing finer color selection. This control can also be used with computerized faders to allow smoother color fades.

**Slot 9: Saturation** - This control changes the saturation while in Color Mode, from 0% (white) to 100% (fully saturated color).

**Slot 10: Intensity** - This control adjusts the intensity from 0% (minimum brightness) to 100% (maximum brightness). **Please note** that to preserve color fidelity, lights cannot turn off completely at minimum intensity. Use the *Shutter* (Slot 2) to turn off the light completely.

**Slot 11: Fine Intensity** - This control fine-tunes the intensity, allowing finer intensity selection. This control is best used with computerized faders to allow smoother intensity fades.

# REMOTE SPECIFICATIONS

## **MECHANICAL**

SIZE: 3.2" x 2.5" x 2.0" [84mm x 64mm x 51mm]  
WEIGHT: 4oz. [113g]  
MOUNTING: Belt Clip (removable)

## **ELECTRICAL**

INPUT: 6-20V DC  
DC PLUG: Positive Locking Type  
OD: 5.5mm, ID: 2.1mm  
AC ADAPTER: 100-240V, 50-60Hz  
BATTERY LIFE: 8 Hours: Standalone Mode  
3 Hours: DMX Mode  
WIRELESS FREQ: 2.45GHz  
RANGE: 66 Feet [20 meters]  
CHANNELS: 10



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ZYLIGHT PRODUCTS ARE PROTECTED BY THE FOLLOWING U.S. AND FOREIGN PATENTS WITH OTHER U.S. AND FOREIGN PATENTS PENDING:



US 6,608,453	US 6,340,868
US 6,777,891	US 6,806,659
US 6,016,038	CA 2,302,227
US 6,150,774	EP 1 016 062 B1
US 6,211,626	AU 757000 B2
US 6,788,011	HK 1025416
	DE 698 07 092 C0

This device complies with part 15 of the FCC Rules. 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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Per FCC 15.105(a), Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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