

PocketWizard®

MAKE IT POSSIBLE™

Quick Guide PLUS® IVe

FCC/IC: 344.04 - 354.00 MHz

CE: 433.62 - 434.22 MHz

Visit

wiki.pocketwizard.com

for complete operating
instructions.



Thank you for your purchase of this PocketWizard radio!
Please read this Quick Guide thoroughly before operating.



Congratulations and thank you for your purchase of a PocketWizard Plus IVe Transceiver!

The Plus IVe Auto-Sensing Transceiver allows you to have the benefit of on-camera TTL flash combined with remote manual flash. It delivers the best of both worlds in one easy to use, reliable wireless radio trigger system for cameras and flashes. Versatile, practical, and dependable for all types of remote photography.

Key Features

Incredible Range and Reliability

With the new E Series technology, the Plus IVe can trigger remote cameras and flashes in the toughest situations from thousands of meters (yards) away.

Auto Sensing Transceiver

The Plus IVe will automatically switch between transmitting and receiving as needed with our patented auto sensing technology. Simply make connections and start working with near zero configuration time.

32 E Channels and 80 LR (Long Range) Channels

Choose your own Channel so there's no interference from other shooters.

Quad Zone Triggering

Now available on all 112 Channels. Wirelessly activate or deactivate your remote flashes or cameras in 4 separately controllable Zones.

Remote Camera Triggering

Set up as many remote cameras as you want to catch a different angle from one single trigger. Two stage triggering gives you faster response time to catch the action.

Auto Relay

Trigger remote flashes in sync with your remote camera for even more creative and professional images.

PocketWizard Compatibility

The Plus IVe will work with all PocketWizard E Series radios and you can downgrade the firmware to work with all Legacy PocketWizards as well. (note: FCC and CE PocketWizard radios work on different frequencies-all of your radios must have the same frequency to be compatible.)

Camera & Flash Compatibility

The Plus IVe will work with virtually any camera or flash capable of triggering from a center pin trigger or with the appropriate sync cable and can sync a flash in manual mode, up to your camera's X-sync speed. It can provide pass through TTL for on-camera flash for most manufacturers. A remote Plus IVe will not support TTL communication.

Simple User Interface

Everything is right at your fingertips with the intuitive soft touch keypad. Press any button (except test) to illuminate the LCD if you're in low light.

Fast and Easy Setup

On the camera, slide it into the hot shoe and tighten the locking ring. Connect the flash to your remote radio by using the secure miniphone connection. Turn on the radios, match the Channels and Zones, and you're ready to go!

PLUS IVe Auto Sensing Transceiver

Hot Shoe with Sync Contacts (pg. 20)

Backlit LCD
(see below)

Status LED (pg. 19)

Zone Toggle Buttons
(pg. 7)

Mode Select Button
(pg. 15)

Test Button
(pg. 19)

Channel Select Buttons (pg. 7)

Mounting Foot with Locking Ring/Pin and
Sync Contacts (pg. 20)



Triggering Mode
(pgs. 15-17)

Battery Level (pg. 19)

Half Press/Full Press
indicator (pg. 19)

Selected Zones
(pg. 7)

Channel (pg. 7)



PLUS IVe Auto Sensing Transceiver

Keypad Lock (see below)

USB/DC Port (pg. 8)

Power Switch (pg. 8)

Internal Antenna

Flash/Camera Port
3.5mm (1/8") stereo
(pg. 13)

Battery
Compartment
(pg. 8)

Note proper battery
orientation/polarity
2x AA/LR6 1.5V

1/4"-20
Mount
(pg. 12)

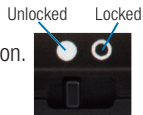
Battery Door and Latch

Mounting Foot with Locking Ring/
Pin and Sync Contacts (pg. 20)

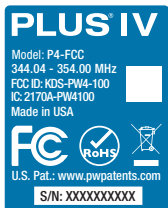
NOTE: You need at least two PocketWizard radios; one for your camera and one for each remote flash.
Batteries and cables not included. See pages 13 and 20.

Keypad Lock

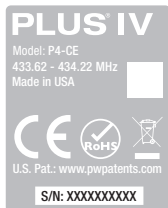
Set to filled-in circle (near USB port) for normal operation.
Set to open circle (near sync port) to lock settings and
disable all keypad buttons except TEST.



Frequency



FCC/IC:
344.04 - 354.00 MHz (<1 mW)



CE:
433.62 - 434.22 MHz (<1mW)



FCC/IC and CE radios are not compatible with each other.

PocketWizard.com/wheretobuy/frequency



PLUS IVe Transceiver Basics



PocketWizard Compatibility

PocketWizard uses two different families of firmware to control their radio: Legacy and E Release. The firmware installed in this Plus IVe is the E Release and your radio is a member of the PocketWizard E Series family. The E Release uses a new communication protocol that enables your Plus IVe to have greater range, enhanced reliability, and more features than a Plus IV using the Legacy firmware.

This Plus IVe will work with any other PocketWizard that has been upgraded to E Release firmware operating on the same frequency. PocketWizard offers two frequencies: FCC for North and South America and CE versions for most of the rest of the world. E Series firmware will not work with Legacy firmware but the Plus IVe can be downgraded to the Legacy firmware to work with Legacy PocketWizard radios (such as the Plus II, MultiMAX, FlexTT5, etc). It can be upgraded again as often as you like at no additional cost. Your existing radios may be upgradeable.

If you choose to downgrade your Plus IVe to Legacy firmware, some functions and settings may operate differently. Please refer to wiki.pocketwizard.com for a list of compatible radios, information on how to upgrade or downgrade your PocketWizards using the PocketWizard Utility, and how to use Legacy firmware with your Plus IVe.

Channels & Zones

Your Plus IVe needs to be on the same Channel and Zone as other PocketWizard radios to work together. Channels can be set via the Plus IVe's Channel up/down buttons  . The Plus IVe has 4 Zones (ABCD). See "Channels & Zones" section (pg. 18) for more info.

PLUS IVe Transceiver Basics

Batteries

Make sure batteries are properly installed (pg. 5). The Plus IVe will operate reliably using almost any pair of ~1.5 volt AA (IEC: LR6) batteries. Rechargeable batteries will work, though operation time may be reduced and battery level display may not be as accurate. Always turn off all equipment (PocketWizard radios, flashes, cameras, etc) before making connections or replacing batteries. Remove batteries during storage.

Powering on/off

Slide switch from 0 to I to power on the unit. To power off the radio, slide the switch back to 0. When turning on, the status LED will blink a red-green-red-green pattern once for E Release firmware (or a single bold green blink if unit has been downgraded to Legacy firmware) then blink every few seconds to indicate normal operation. See the Status LED section (pg. 19) for details about power levels. It will blink red when a trigger is transmitted or received.

USB

The Plus IVe's mini B USB port is located beside the power switch. It can be used with the PocketWizard Utility to install firmware updates or downgrade to Legacy firmware. It can also be used to power the unit with a compatible AC adapter or USB power source. See wiki.PocketWizard.com for more details.

Triggering a Remote Flash

- 1 Connect everything securely
- 2 Power everything ON
- 3 Set Channel, Zone, and Mode on radio

NOTE:

On-camera speedlight optional.
May be TTL-enabled or full manual.

Remote flashes must be set to manual mode when syncing from a Plus IVE on camera. Remote flashes will not perform TTL.



Triggering a Remote Flash

- 4 Connect everything securely
- 5 Power everything ON and set speedlight/flash to manual power
- 6 Set Channel, Zone, and Mode on radio
- 7 Take Pictures

NOTE:

Speedlights mounted on remote Plus IVE radios do not perform TTL. Set a manual power level.

Press TEST to verify operation.



Other Transmitter Mounting Suggestions

Non-TTL flash on bracket
or near camera



NOTE:

Compatible TTL flashes will also work with correct TTL off-camera shoe cord in this setup



TTL off-camera shoe cord,
radio on camera



TTL off-camera shoe cord,
radio off camera

*Cables and mounting hardware not included.
Visit your local dealer for PocketWizard accessories.*

Other Remote Mounting Suggestions



Light stand



Umbrella adapter



Spring clamp



Super clamp

NOTE:
PocketWizard Plus III
recommended for
remote studio flash

Cables and mounting hardware not included.





Triggering a Remote Camera



Plus IVe on camera **OR** in hand
(Transmitting)

Plus IVe connected to Remote Camera
(Receiving)

Triggering a Remote Camera with your Plus IVe Transceiver

1. Connect a Plus IVe to your remote camera via the appropriate remote camera cable. The receiving Plus IVe does not need to be in the hot shoe.
2. Select a Channel and Zone A, B, C, or D via the Channel up/down buttons   and Zone Toggle Buttons.
3. Full Press  the TEST button on the transmitting PocketWizard radio or the shutter button on the handheld camera to fire the remote camera. See page 19 for details about half press. 

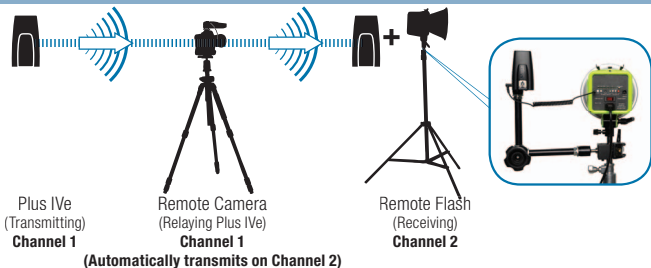


Remote camera cables not included.
Find the correct cable for your remote camera or flash:

pocketwizard.com/cablefinder

Auto-Relay

NOTE: Auto-Relay allows you to trigger remote flashes in sync with a remote camera and requires three PocketWizard radios. With Auto-Relay, not all radios are set to the same Channel: The relaying radio transmits on one Channel higher than it received on. Visit wiki.PocketWizard.com for additional information.



Using Auto-Relay

1. Set the transmitting PocketWizard radio in your hands to Tx Mode and the desired Channel and Zone.
2. Connect the Relaying Plus IVE's Flash/Camera Port to the remote camera triggering port of the camera via a remote camera cable and place the radio in the camera's hot shoe.
3. Set the Relaying Plus IVE attached to your remote camera to TxRx Mode and also to the same Channel and Zone as the transmitting PocketWizard radio in your hands.
4. Connect a remote flash to a receiving PocketWizard radio via the appropriate sync cable and set it to TxRx or Rx ONLY Mode and one Channel higher than the transmitting PocketWizard radio in your hands. Match the Zones to the other Plus IVE radios.
5. Press and release TEST on the transmitting PocketWizard to fire the remote camera. Remote flashes will be automatically synchronized with the remote camera.

Triggering Modes: Transmit & Receive

Modes of Operation

Your Plus IVE Transceiver supports six modes of triggering for different applications. You can switch between modes by pressing and quickly releasing the MODE button.



TxRx Mode allows the radio to be used as a transmitter attached to a camera or as a receiver connected to a remote flash or remote camera. As an Auto-Sensing Transceiver, the Plus IVE automatically switches between transmit and receive. This is the default mode.



Tx ONLY Mode disables all receiving (**Rx**) functionality and allows you to use your Plus IVE as a transmitter only. Use this mode when sharing remote flashes with other photographers. This mode will prevent other photographers from triggering the Plus IVE on your camera.



Rx ONLY Mode disables all transmit (**Tx**) functionality allowing you to use your Plus IVE radios as receivers for remote flashes or remote cameras. Use this mode when you do not want a remote Plus IVE to perform relay functions when mounted in the shoe of a remote camera, or to prevent a remote Plus IVE from triggering other radios when its TEST button is pressed.

Triggering Modes: HSR & LR



HSR (High Speed Receive) Mode shortens the contact time of the Flash/Camera Port, allowing for triggering of remote cameras or flashes at higher FPS (frames per second). This radio does not support HSS (High Speed Sync).



LR (Long Range) Mode dramatically increases the maximum range of a radio in a given shooting environment. LR Mode must be enabled on both transmitting and receiving radios. Use when triggering remote cameras at greater distances. It can also be used with remote flash, but there will be a reduction in maximum X-sync speed. Line of sight is recommended.



Hit Mode button to select LR mode. You can now choose from LR Channels 1-80. E Channels 1-32 and LR Channels 1-80 use different frequencies and will not trigger each other. Both the transmitting and receiving radios must be set to the same type of Channel.

NOTE: If you are using a Plus IVE set to LR mode in a remote camera's hot shoe, the remote Plus IVE will automatically engage Auto Relay mode and send out a transmitting signal on the next highest Channel, whether you are using a remote flash or not. If you do not want that behavior, remove the Plus IVE from the hot shoe, disable the camera's hot shoe, or cover the center pin contacts to prevent engaging Auto Relay.

If you choose to downgrade your Plus IVE to Legacy firmware, Long Range settings operate differently. Please see wiki.PocketWizard.com for details.



Triggering Modes: RP



RP (Repeater) Mode allows you add one or more Plus IVE radio(s) between a pair of transmitting and receiving units to increase maximum triggering distance. For example, if you can reach 200 meters, you can add a Repeater to reach 400 meters. This mode can be used when triggering remote cameras. It can also be used with flash but there is a reduction in maximum X-sync speed. This is not the same operation as Auto-Relay Mode.



RP mode with E Release firmware requires a multiple Channel setup. Set the transmitting and first Repeater radio to the same Channel. Then increase the Channel number for each successive repeater unit. Make sure each Repeating radio can only receive the signal from one other radio, otherwise an endless loop could occur. Put the transmitting radio into Tx ONLY Mode for best results.

For example: If you are using one Repeater in the middle, set the transmitting and Repeater radio to Channel 1. Set the receiving radio to Channel 2. (Ch1>Ch1>Ch2). If you are using a total of five radios for very long distance, set the transmitter and first Repeater to Channel 1, the second Repeater to Channel 2, the third Repeater to Channel 3, and the receiving radio to Channel 4. (Ch1>Ch1>Ch2>Ch3>Ch4).



If you choose to downgrade your Plus IVE to Legacy firmware, Repeater settings operate differently. Please see wiki.PocketWizard.com for details.

Channels and Zones

NOTE: This PocketWizard Plus IVE uses the new E Release firmware. This protocol will not work with Legacy firmware. This Plus IVE can be downgraded via the Utility to work with Legacy firmware. Please see wiki.PocketWizard.com for more information.

Channels E Channels 32 | LR Channels 80

The Plus IVE Transceiver supports 32 different E Channels and 80 different LR Channels. Each Channel represents a digital code transmitted on specific PocketWizard radio frequencies. This enables many photographers to work in the same area or for one photographer to exclusively control different sets of receivers. A Plus IVE will trigger any number of receiving PocketWizard radios set to the same Channel. Radios set to different Channels will not trigger each other.

Press the Channel up/down buttons \triangle ∇ to change Channels.

Using Zones

Zones can be used to toggle remote cameras or flashes on or off from a transmitting PocketWizard radio. Zones can also be used when sharing flashes with another photographer so only some of the remote flashes are shared, even when using the same Channel.

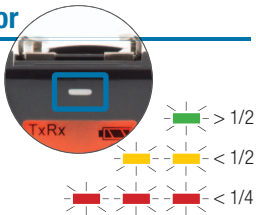
Zones A, B, C, and D are selectable via the Plus IVE's Zone Toggle Buttons and are available on all E and LR Channels. The enabled Zones are displayed in a box on the right side of the LCD. You can enable any combination of all four Zones. A receiving Plus IVE will only trigger if the transmitting PocketWizard radio has at least one matching Zone enabled.

NOTE: If you choose to downgrade to Legacy firmware, Channels and Zones will operate differently. Please see wiki.PocketWizard.com for details.



Other Functions


Status LED/Battery Level Indicator

Status LED blinks regularly to show battery level and illuminates red briefly when the radio sends or receives a signal. The front LCD panel will also show a battery level indicator.



TEST Button (Two Stage Trigger)

A Plus IVe cannot send a half press signal but it can receive one from a transmitting Plus IIIe. Half pressing  the TEST button on a handheld transmitting Plus IIIe can wake up and pre-trigger a remote camera when using a Plus IIIe or Plus IVe as the receiving radio with the correct remote camera cable (available separately). Half pressing  the test button will make the camera respond more quickly and consistently but also reduces battery life. It will not affect remote flashes.

Fully pressing  the TEST button on a Plus IVe or Plus IIIe fires any remote cameras or flashes connected to receiving PocketWizard radios set to the same Channel and Zones.

Reset


To reset your Plus IVe Transceiver to the default setting, hold the TEST button as you power the radio on. The default mode after a reset is **TxRx** on **Channel 1 with all Zones** enabled.

More Information

Please search for Plus IVe at wiki.PocketWizard.com for the most up to date and detailed information about your Plus IVe.

Technical Information

Hot Shoe/Metal Foot: ISO compatible, on-camera TTL pass-through for pin/electrically compatible equipment including most Canon, Nikon, Panasonic, and Olympus speedlights and cameras (and some compatible third party equipment). Sony Multi-Interface cameras and speedlights compatible for simple manual flash sync only (no on-camera TTL with Sony equipment).

 **WARNING:** Panasonic battery-less speedlights will damage your Plus IV.

Frequency: FCC 340.00 – 354.00 MHz; CE: 433.62 – 434.22 MHz

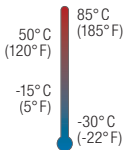
Transmit Output Power: Less than 1 milliwatt (1/1000 of a watt)

Batteries/Power: 2 x AA (IEC:LR6) Alkaline recommended for ~50 hour life.
External USB Power at ~5 volts and < 100mA

Triggering Delay: 1/1200 of a second

Operating Temperature:

Above -15° C (5° F) and
below 50° C (120° F)
Always use fresh batteries
in cold temperatures.



Storage Temperature (without battery):

Above -30° C (-22° F) and
below 85° C (185° F)
without batteries.

Flash/Camera Port Sync Voltage Tolerance: 300 Volts

Backlit LCD: The Plus IVe's backlit LCD activates automatically when any button other than TEST is pressed. It turns off after 5 seconds.

LEDs: Red LEDs are used for dim light application
and do not indicate a hazardous status.

Maximum Sync Voltage: 300 V

Dimensions: 10.7 cm (4.2") x 5.3 cm (2.1")
x 3.0 cm (1.2")

Radio delay: 1/1200s

Weight: <110 g (3.9 oz)

X-Sync: Up to 1/250, 14.5 FPS

Sustaining High Performance

NOTE: Your PocketWizard radios use the environment as a medium for transmitting and receiving radio signals. The performance of your radios depends on their placement in the environment, nearby radio interference, and the radios' orientation and position relative to each other.



Keep radios away from metal, concrete, or high water-content objects.



Wireless Basics

The Plus IVE is designed to work in many challenging environments. For the best performance with any radio, maintain a line of sight between radios and keep antennas parallel. Make sure radios are not near any large metal, concrete, or high water-content objects. People and trees are mostly water! Make sure radios are not blocked by these objects or by hills.

The Plus IVE Transceiver's antenna is omnidirectional and its orientation should not significantly impact performance in most shooting scenarios, but optimizing for radio reception will always improve the maximum range.

Maintain at least a 12" distance between antennas. Avoid direct antenna contact with anything metallic. "Dead spots" have a number of causes, but the solution is usually the same: move the radio a few inches or feet away from the problem area. Always obey the laws of physics.



USA - The FCC wants you to know:

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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. Mounting and cable connections detailed in this document represent the intended usage, 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Consult the dealer or an experienced radio or television technician for help.

USA / Canada

This device complies with Part 15 of the FCC rules and with Industry Canada Licence-exempt RSS Standards. 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Transceiver FCC ID Number: KDS-PW4-100

Transceiver CANADA IC: 2170A-PW4100

Simplified EU Declaration of Conformity

Hereby, LPA Design Inc. South Burlington VT USA declares that the radio equipment type PocketWizard Plus I've CE wireless photographic remote control is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

www.pocketwizard.com/support/reference/CE/



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Patent information: www.pwpatents.com