Thank you for buying a PocketWizard MiniTT1/FlexTT5 system for Canon DSLR E-TTL cameras and flashes. To help you get started please read this quick guide and familiarize yourself with the system.

Check **www.PocketWizard.com** for the latest firmware and full user manual, as well as the PocketWizard Utility which enables setting additional features for your ControlTL™ radio slave.

Quick Guide
MiniTT1™/FlexTT5™ for Canon

340 – 354 MHz, US FCC/IC

PocketWizard®
MAKE IT POSSIBLE™

Thank you for purchasing a PocketWizard product,

the most advanced photographic wireless control system available.

To get the most out of your new product spend some time on **www.PocketWizard.com** where you will find information on all aspects of your new PocketWizard. Specifically, our Support page contains some vital information and tools for your new PocketWizard.

www.pocketwizard.com/support/

CONFIGURATION:

Your new PocketWizard runs on very sophisticated software we call **ControlTL™**. This software can be configured to your specific needs using a **PocketWizard Utility** program that can be downloaded online.

REGISTRATION:

ControlTL™ software is designed to be "Future Proof" and will be upgraded from time-to-time. **Please register your product online to be notified when updates are available.**

MANUALS:

Included in the box is a **Quick Guide** to get you going fast. For the complete story, there is an in-depth manual that can be read or downloaded online.

MAKE IT POSSIBLE™

Have fun pushing the boundaries of your creativity!

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. 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.

This device complies with Part 15 of the FCC rules and also with RSS-210 of Industry Canada. 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.

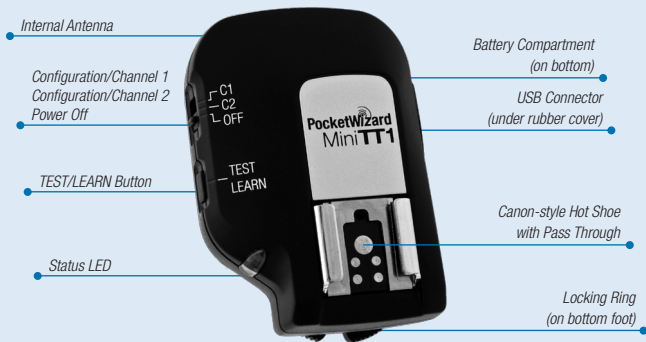MiniTT1 FCC ID Number: KDS-PW3-004
FlexTT5 FCC ID Number: KDS-PW3-005
MiniTT1 CANADA IC: 2170A-PW3004
FlexTT5 CANADA IC: 2170A-PW3005

PocketWizard®
MAKE IT POSSIBLE™

MiniTT1™

Internal Antenna

Configuration/Channel 1
Configuration/Channel 2
Power Off

C1
C2
OFF

TEST/LEARN Button

TEST
LEARN

Status LED

Battery Compartment
(on bottom)

USB Connector
(under rubber cover)

PocketWizard
MiniTT1

Canon-style Hot Shoe
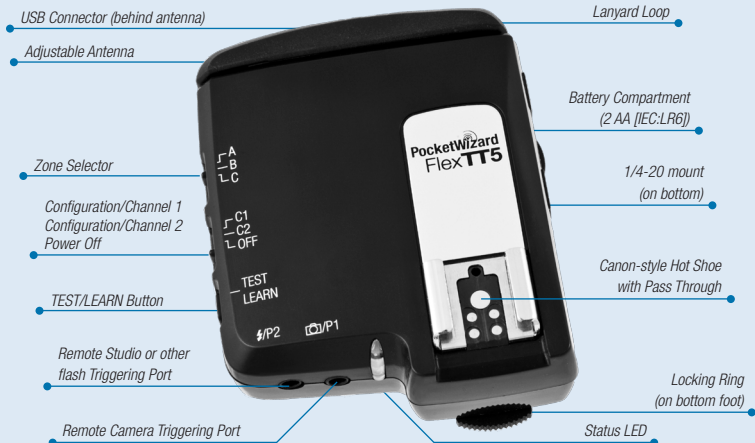with Pass Through

Locking Ring
(on bottom foot)

READ ME FIRST:

All equipment should be turned OFF when making connections. Unwanted triggering may occur.

First exposure after making initial connections/powering on may not be properly exposed. First shot is a camera calibrations shot. Always test twice.

FlexTT5™

USB Connector (behind antenna)

Lanyard Loop

Adjustable Antenna

Battery Compartment
(2 AA [IEC:LR6])

Zone Selector

- A
- B
- C

1/4-20 mount
(on bottom)

Configuration/Channel 1
Configuration/Channel 2
Power Off

- C1
- C2
- OFF

Canon-style Hot Shoe
with Pass Through

TEST
LEARN

TEST/LEARN Button

⚡/P2   📷/P1

Remote Studio or other
flash Triggering Port

Locking Ring
(on bottom foot)

Remote Camera Triggering Port

Status LED

Review product manuals for your camera/flash system. For most basic functions when using Canon's system or PocketWizard's, operation is identical.

You may use a FlexTT5 as a transmitter instead of a MiniTT1 in all scenarios.

Make sure all PocketWizard units are set to same PocketWizard Channel. PocketWizard Channel is used instead of Canon channel. See LEARN Mode section.

E-TTL

Basic Wireless E-TTL: MiniTT1 ►► FlexTT5

No flash on Camera

1. Slide MiniTT1 Transmitter onto camera.
2. Slide remote Speedlite onto FlexTT5 Transceiver. Repeat for each remote Speedlite. All remote E-TTL flashes will be treated as one zone of light.
3. Make sure all your PocketWizard units are on the same Channel and trigger normally.

This mode is like using Canon ST-E2 (non-ratio mode) or 580EX (I or II, master mode, main flash off, non-ratio) in camera shoe.

Basic Wireless E-TTL: MiniTT1 ►► FlexTT5

Flash on Camera

1. Slide MiniTT1 Transmitter onto camera.
2. Slide Canon 580EX Speedlite onto MiniTT1 unit. Set for MASTER = ON.
3. Slide remote Speedlite onto FlexTT5 Transceiver. Repeat for each remote Speedlite. All remote E-TTL flashes will be treated as one zone of light.
4. Make sure all your PocketWizard units are on the same Channel and trigger normally.

Ratio Wireless E-TTL: MiniTT1 ▸▸ FlexTT5

Flash on Camera

1. Slide MiniTT1 Transmitter onto camera.

2. Slide Canon 580EX Speedlite onto MiniTT1 unit. Set for MASTER = ON. Enable Zones per flash instructions. Canon Speedlite Transmitter ST-E2 may also be used.

3. Set remote FlexTT5 unit to desired Canon Ratio Zone (A, B, C) using FlexTT5 Zone Switch.

4. Slide remote Speedlite onto FlexTT5 Transceiver. Set for regular E-TTL mode (not SLAVE or MASTER). Repeat for each remote Speedlite. All remote E-TTL flashes on same FlexTT5 Zone will be treated as one zone of light.

5. Adjust ratios using MASTER Speedlite flash controls.

6. Make sure all your PocketWizard units are on the same Channel and trigger normally.

Setting Canon E-TTL to normal flash (WIRELESS = OFF) when in shoe of MiniTT1 will disable all remote flash. This operation mirrors Canon functionality.

IMPORTANT: Canon flash units set to SLAVE = ON and connected to FlexTT5 units will have slave mode automatically turned off, but will still function as slaves correctly. Set desired Canon Ratio Zone via remote FlexTT5 Zone Switch. PocketWizard Channel is used instead of Canon channel.

ISO, aperture, flash exposure compensation (FEC), and other settings will track exposure normally when E-TTL via the PocketWizard ControlTL system.

LEARN Mode

Channels can be taught via PocketWizard Utility or from any PocketWizard Transmitter using LEARN mode:

IMPORTANT: Hold units at least 2 feet apart when teaching/learning.

1. Turn MiniTT1 or FlexTT5 unit ON and select Channel to be taught.

2. Press and hold TEST for several seconds until LED blinks amber, then release TEST.

3. Quickly press and hold TEST on teaching Transmitting unit (MiniTT1, FlexTT5, Plus II or MultiMAX). When LED blinks green, channel is learned. Connected flash may trigger during LEARN.

1 green blink = Low Legacy Channel learned (1 through 16)

2 green blinks = High Legacy Channel learned (MultiMAX 17 through 32)

3 green blinks = ControlTL Channel learned (ControlTL 1 through 20)

For remote TTL systems, teach MiniTT1 unit to be used as primary transmitter first, then use it to teach all FlexTT5 units.

MiniTT1 and FlexTT5 units send out both ControlTL and Legacy triggers every time they are triggered. For remote TTL to function, ControlTL channel must be learned. If you see only 1 or 2 green blinks, and you desire TTL, teach again with MiniTT1 or FlexTT5 unit. Look for 3 green blinks to verify ControlTL is learned.

To teach all units Legacy channels, use Legacy Transmitter as teaching unit for all learning units, including MiniTT1 unit to be used as primary transmitter.

To avoid inadvertent flashing from remote units that have already been taught or have already had channel set, turn them OFF.

Manual Flash

MiniTT1 ➤➤ Plus II, MultiMAX, Integrated, or FlexTT5 connected to manual flash

Remote flash with or without TTL flash on camera

1. Slide MiniTT1 Transmitter onto camera.

2. If desired, slide Canon E-TTL Speedlite (MASTER = ON) onto MiniTT1 unit.

3. Make sure all your PocketWizard units are on the same Channel and trigger normally.

Note: Manual remote flashes are not calculated as part of the E-TTL exposure. Be sure to set on-camera FEC if remote flash is illuminating same subject as your E-TTL flash.

ZeroSync™ occurs automatically. Trigger "as fast as a wire" with all PocketWizard radios.

*Use PocketWizard Utility to engage HyperSync™ and explore faster than X-sync shutter speeds. See user manual at **www.pocketwizard.com** for more information.*

Other Functions

Auto-Relay Mode

A FlexTT5 unit in camera's shoe and connected with motor drive cord to P1 can receive a radio trigger, trigger the camera's motor drive which in turn triggers a remote flash. The channel used for relay transmit is 1 higher than taught channel, unless set via PocketWizard Utility.

Example: if you taught FlexTT5 unit Channel 3 then relay transmit occurs on Channel 4. Press TEST on hand-held trigger unit to begin relay sequence.

Status LED

Normal "waiting for trigger" operation = short blink every 2 seconds.

Normal short blink color indicates Battery Level:	
Green	Good battery
Amber	Warning – battery low
Red	Very low battery – change immediately

Steady red LED in sync with TEST indicates normal transmission.
(Hold for 10 seconds to teach – see LEARN mode)

Short red blink in sync with trigger indicates normal reception.

Rapid red blinking when not triggering or half-pressing camera indicates error condition. Power off the unit, reseat all connections, and power back on.

RESET to Default Settings

RESET A: To reset Learned Channels, hold TEST on power up. LED blinks **green** twice to indicate reset. Release TEST. Advanced Features set via USB are retained.

A: Default Channels

C1 = ControlTL Channel 1, Legacy Channel 1	
C2 = ControlTL Channel 2, Legacy Channel 2	

RESET A & B: To reset all Advanced Features *and* Learned Channels to FACTORY DEFAULTS, hold TEST on power up for longer than 10 seconds. When LED blinks **green** 4 times, release.

B: Default Advanced Features

Auto ISO and Aperture Tracking Enabled
Exposure Compensation Center Value = 3.5
HyperSync Offset = -250 microseconds
Remote TTL Flash Sleep Mode = Disabled
Camera Model = Auto

All settings may be configured using the PocketWizard Utility available from **www.pocketwizard.com**

www.pocketwizard.com

Specifications

Trigger Delay = 0 seconds – "fast as a wire"

Batteries: MiniTT1 = CR2450 or CR2354 (100s of hours)

FlexTT5 = 2 x AA (IEC:LR6) (60 hours)

Powerable via USB AC adapter (powering from computer USB port *not* recommended)

Maximum FPS: Up to 12 (varies with camera, E-TTL usage reduces FPS)

E-TTL: E-TTL I & E-TTL II (DSLR only, not for film TTL)

Operating Temperature: Above -15 C (5 F) and below 50 C (120 F)

Storage Temperature (without battery): Above -30 C (-22 F) and below 85 C (185 F)

This US FCC/Canada IC frequency PocketWizard radio slave is compatible with all US frequency PocketWizard products. It is *not* frequency compatible with CE or JAPAN PocketWizard products. Verify frequency compatibility before purchasing.

For more information on this product, including detailed features, specifications and the complete user manual, go to **www.pocketwizard.com**.

This product is covered under a warranty. For more information on the warranty and to register your product, please go to **www.pocketwizard.com/support**.

PocketWizard®
MAKE IT POSSIBLE™