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# Quick Guide

## Mini**TT1**<sup>™</sup>/Flex**TT5**<sup>™</sup> for **Canon**

340.00 – 354.00 MHz, US FCC/IC

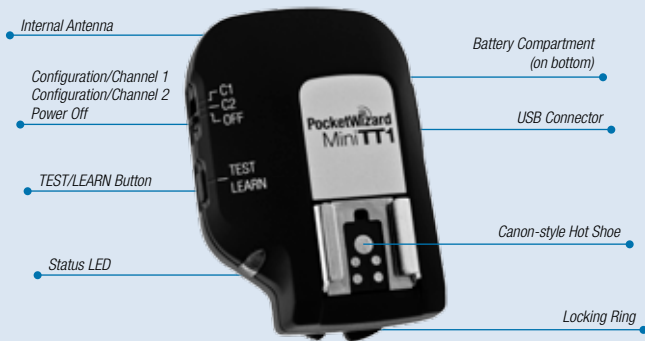
433.42 – 434.42 MHz, CE

**UPDATE FIRMWARE:** Be sure ALL your PocketWizard ControlTL<sup>®</sup> radios, including this one, are updated to the latest firmware for proper functionality. Latest firmware version can be found at:

[www.PocketWizard.com/support/downloads](http://www.PocketWizard.com/support/downloads)

**Please read this Quick Guide thoroughly before operating. Visit [www.PocketWizard.com/support](http://www.PocketWizard.com/support) to download the full Owner's Manual and PocketWizard Utility. Information in this Quick Guide is subject to change.**

# MiniTT1™



## READ ME FIRST:

### DOWNLOAD UTILITY:

Your new PocketWizard radio runs on very sophisticated software we call ControlTL™ which can be configured to your specific needs using the PocketWizard Utility. You can download this utility at [www.PocketWizard.com/support/downloads](http://www.PocketWizard.com/support/downloads).

### REGISTER ONLINE:

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.

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



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

Review product manuals for your camera and 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 radios are set to same PocketWizard channel. PocketWizard channel is used instead of Canon channel. See LEARN Mode section.**

## Basic Wireless E-TTL: MiniTT1 ➡➡ FlexTT5

### No flash on Camera

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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 radios 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

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1. Slide MiniTT1 Transmitter onto camera.
2. Slide Canon 580EX Speedlite onto MiniTT1 radio.
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 radios are on the same channel and trigger normally.

## Ratio Wireless E-TTL: MiniTT1 ➡➡ FlexTT5

### Flash on Camera

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1. Slide MiniTT1 Transmitter onto camera.
2. Slide Canon 580EX Speedlite onto MiniTT1 radio. Set Speedlite for MASTER = ON. Enable slave groups/zones per flash instructions. Canon Speedlite Transmitter ST-E2 may also be used.
3. Set remote FlexTT5 radio to desired Canon ratio slave group/zone (A, B, C) using FlexTT5 zone switch.
4. Slide remote Speedlite onto FlexTT5 Transceiver. Set Speedlite for regular E-TTL mode (not SLAVE or MASTER). Repeat for each remote Speedlite. All remote E-TTL flashes on same FlexTT5 slave group/zone will be treated as one zone of light.
5. Adjust ratios using MASTER Speedlite flash controls.
6. Make sure all your PocketWizard radios are on the same channel and trigger normally.

**IMPORTANT:** Canon flashes set to SLAVE = ON and connected to FlexTT5 radios will have slave mode automatically turned off, but will still function as slaves correctly. Set desired Canon slave group/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 via the PocketWizard ControlTL system.

# Manual Flash

## **“Wireless Manual” via E-TTL: MiniTT1 ↔ FlexTT5**

### **Remote “Wireless Manual” flash using 580EX II**

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Canon’s “Setting the Flash Output for Each Slave” or “Wireless Manual” system allows setting a remote flash to a desired manual level from the MASTER flash. You must use a 580EX II on the MiniTT1 or FlexTT5 as transmitter. The original 580EX or earlier flashes cannot perform this function via ControlTL radios. “Wireless Manual” uses controls similar to ratio mode. Review your flash instructions for entering “Wireless Manual” mode. Follow the steps in the ratio section for setting up your ControlTL radios to work with this mode.

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

### Remote flash with or without E-TTL flash on camera

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1. Slide MiniTT1 Transmitter onto camera.
2. If desired, slide Canon E-TTL Speedlite onto MiniTT1 radio.
3. Make sure all your PocketWizard radios are on the same channel and trigger normally.

**Note:** Manual remote flashes are not calculated as part of the E-TTL exposure.

Use PocketWizard Utility to engage HyperSync™ and explore faster than X-sync shutter speeds. Visit [www.PocketWizard.com](http://www.PocketWizard.com) for more information.

# LEARN Mode

## Channels can be taught via PocketWizard Utility (recommended) or from any PocketWizard transmitter:

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

1. Turn MiniTT1 or FlexTT5 radio ON and select channel to be taught: C.1 or C.2.
2. Press and hold TEST for several seconds until LED blinks **amber**, then release TEST.
3. Quickly press and hold TEST on teaching transmitting radio (MiniTT1, FlexTT5, Plus II or MultiMAX). When LED blinks **green**, channel is learned. Connected flash may trigger during LEARN.

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1 **green blink** = Low Standard channel learned (1 through 16, including Plus 1 through 4)

2 **green blinks** = High Standard channel learned (MultiMAX 17 through 32)

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3 **green blinks** = ControlTL channel learned

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

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

To teach all radios Standard channels, use Standard transmitter as teaching radio for all learning radios, including MiniTT1 radio to be used as primary transmitter.

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



## Auto-Relay Mode

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A FlexTT5 radio 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 radio Standard channel 2, then relay transmit occurs on Standard channel 3. Press TEST on hand-held trigger radio to begin relay sequence.

## Status LED

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

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### Normal short blink color indicates Battery Level:

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**Green** Good battery

**Amber** Warning – battery low

**Red** Very low battery – change immediately

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

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Short **red** blink in sync with trigger indicates normal reception.

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

# Other Functions

## RESET

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**RESET A:** To reset learned channels to channels last set in Utility, hold TEST on power up. LED blinks **green** twice to indicate reset. Release TEST. Advanced features set via Utility are retained.

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**RESET B:** To reset all advanced features *and* channels to FACTORY DEFAULTS, hold TEST on power up for longer than 10 seconds. When LED blinks **green** 4 times, release.

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### B: Default Advanced Features

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C.1 = ControlTL channel 1, Standard channel 1

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C.2 = ControlTL channel 2, Standard channel 2

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HyperSync Offset = -170 microseconds

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High Speed Sync (FP Flash Sync) Disable Mode = not enabled

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High Speed Sync (FP Flash Sync) Begins At = 1/400

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Remote TTL Flash Sleep Mode = disabled

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Basic Trigger Mode = disabled

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Camera Model = Auto

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Force TTL Master Mode = enabled

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#### **FlexTT5 Only:**

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Use ControlTL for Rx Channel = enabled

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Flash Idle Time Out Mode = disabled

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Transmitter Only Mode = disabled

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Bottom Shoe Disable Mode = not enabled

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## Specifications

Trigger Delay = 0 seconds – “fast as a wire” when using compatible Canon cameras,  
~900 microseconds in Basic Trigger Mode

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

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

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

E-TTL & 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)

## Frequency

**IMPORTANT:** US FCC/Canada frequency radios are NOT compatible with CE frequency radios or Japan frequency radios and vice versa. For more information on frequency, please go to: [www.PocketWizard.com/wheretobuy/frequency](http://www.PocketWizard.com/wheretobuy/frequency).

## Warranty

This PocketWizard product is covered under a two-year limited manufacturer's warranty. For warranty details, and to register your product, please go to [www.PocketWizard.com/support](http://www.PocketWizard.com/support) or contact your local PocketWizard Distributor. Distributor contact information can also be found at [www.PocketWizard.com](http://www.PocketWizard.com). To receive a copy of the two-year limited manufacturer's warranty on this PocketWizard product, e-mail us at [warranty@lpadesign.com](mailto:warranty@lpadesign.com) or write to us at LPA Design, Inc., 21 Gregory Drive, South Burlington, VT 05403, United States of America, Attn: Warranty.

This MiniTT1/FlexTT5 is **compatible** with the following **Canon** products:

### DSLR Cameras:

1D Mark IV, 1Ds Mark III, 1D Mark III, 1D Mark II N, 1Ds Mark II, 1D Mark II, 7D, 5D Mark II\*, 5D, 50D, 40D, 30D, 20D, Rebel T1i/500D, Rebel XS/1000D, Rebel XSi/450D, Rebel XTi/400D, Rebel XT/350D

### Flash Units:

580EX II\*, 580EX\*, 430EX II, 430EX\*, 270EX, 550EX\*, 420EX\*, 220EX\*

Other flashes may work in "Basic Trigger Mode" without E-TTL.

\* Visit [www.PocketWizard.com](http://www.PocketWizard.com) for more information about these particular cameras and flashes

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For more information on this product, including detailed features, specifications and the owner's manuals, go to [www.PocketWizard.com](http://www.PocketWizard.com).

US Patent: 5,359,375; 7,437,063; 7,702,228 & US and other patents pending