



Quick Guide

Mini**TT1**[®]/Flex**TT5**[®] for **Nikon**

340.00 – 354.00 MHz, US FCC/IC

433.42 – 434.42 MHz, CE

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

**Please read this Quick Guide thoroughly before operating.
Visit www.PocketWizard.com/support to download
extended documentation and the PocketWizard Utility.
All information in this Quick Guide is subject to change.**

MiniTT1[®]



READ ME FIRST:

This PocketWizard radio runs on powerful software called ControlTL[®] (Control The Light™). It can be configured for your specific needs using the PocketWizard Utility which can be downloaded at:

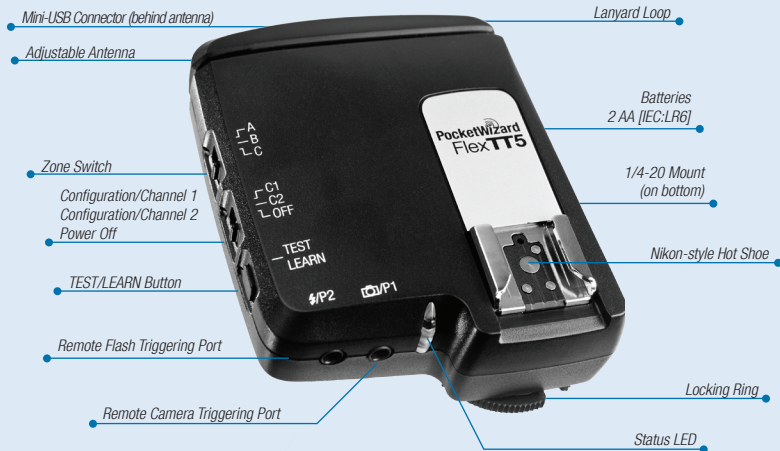
www.PocketWizard.com/support/downloads.

Be sure ALL your PocketWizard ControlTL radios, including this one, are updated to the latest firmware for proper functionality.

Power on any connected equipment from the top down: Flash, then radio, then camera.

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

FlexTT5[®]



PocketWizard recommends powering your Speedlights with high-capacity rechargeable batteries. If operation is not optimal, check Speedlight batteries first.

Review product manuals for your camera and flash system. For most basic functions when using Nikon's system or PocketWizard radios, 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 the same PocketWizard channel. PocketWizard channels are used instead of Nikon channels. See Learn Mode section.

Basic Wireless i-TTL: MiniTT1 ↔ FlexTT5

No flash on Camera

1. Slide MiniTT1 Transmitter onto camera.
2. Slide Speedlight onto remote FlexTT5 Transceiver. Set the Speedlight for standard i-TTL mode (not REMOTE or MASTER). Repeat for each remote Speedlight. All remote i-TTL Speedlights will be treated as one zone of light.
3. Make sure all your PocketWizard radios are on the same channel and take pictures normally.

This mode is like using the SU-800 in TTL Commander mode, or the SB-800 or SB-900 as MASTER in Advanced Wireless Lighting TTL Mode with master flash cancelled and remote group A selected as TTL with 0.0 FEC.

Basic Wireless i-TTL: MiniTT1 ↔ FlexTT5

Flash on Camera

1. Slide MiniTT1 Transmitter onto camera.
2. Slide Nikon Speedlight onto MiniTT1 radio. Set the Speedlight for standard i-TTL mode.
3. Slide Speedlight onto remote FlexTT5 Transceiver. Set the Speedlight for standard i-TTL mode (not REMOTE or MASTER). Repeat for each remote Speedlight. All remote i-TTL Speedlights will be treated as one zone of light.
4. Make sure all PocketWizard radios are on the same channel and take pictures normally.

Advanced Wireless i-TTL: MiniTT1 ➡➡ FlexTT5

Flash on Camera

1. Slide MiniTT1 Transmitter onto camera.
2. Slide Nikon SB-800 or SB-900 Speedlight onto MiniTT1 radio. Set Speedlight for MASTER = ON. Enable remote groups/zones per flash instructions. Nikon SU-800 Wireless Speedlight Commander may also be used.
3. Set remote FlexTT5 radio to desired Nikon remote group/zone (A, B, C) using FlexTT5 zone switch.
4. Slide Speedlight onto remote FlexTT5 Transceiver. Set Speedlight for standard i-TTL mode (not REMOTE or MASTER). Repeat for each remote Speedlight. All remote i-TTL Speedlights on same FlexTT5 group/zone will be treated as one zone of light.
5. Adjust flash output level compensation using MASTER Speedlight flash controls.
6. Make sure all your PocketWizard radios are on the same channel and take pictures normally.

IMPORTANT: Nikon Speedlights set to REMOTE = ON and connected to remote FlexTT5 radios will not function properly as remotes. Turn off REMOTE or MASTER for your remote Speedlights. Set desired Nikon remote group/zone via remote FlexTT5 zone switch. PocketWizard channel is used instead of Nikon channel.

ISO, aperture, flash exposure compensation (FEC), and other settings will work with exposure normally via the PocketWizard ControlTL system.

Manual Flash

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

Remote flash with or without i-TTL flash on camera

1. Slide MiniTT1 Transmitter onto camera.
2. If desired, slide Nikon i-TTL Speedlight onto MiniTT1 radio.
3. Make sure all your PocketWizard radios are on the same channel and take pictures normally.

Note: Manual remote flashes are not calculated as part of the i-TTL exposure. Adjust your exposure or FEC to compensate accordingly.

Use PocketWizard Utility to engage HyperSync™ and explore faster than X-sync shutter speeds. Visit www.PocketWizard.com for more information.

Learn about the AC3 ZoneController, PowerTracking, and controlling your Speedlights and select studio flashes by reading the extended documentation for the following PocketWizard radios and accessories:

- AC3 ZoneController for Nikon (coming soon)
- PowerST4 for Elinchrom
- AC9 AlienBees Adapter for Nikon (coming soon)

Learn Mode

Channels can be set via PocketWizard Utility (recommended) or taught from any PocketWizard transmitter using Learn Mode. Learn Mode is not required for normal operation of the radios.

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.
 - 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)
 - 3 **green** blinks = ControlTL channel learned

For remote i-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 i-TTL to function, ControlTL channel must be learned. If you see only 1 or 2 **green** blinks, and you desire i-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, turn OFF remote radios that have already been taught or have already had the channel set.

Other Functions

Auto-Relay Mode

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

For Auto-relay with remote i-TTL Speedlights triggered by the remote camera, an -ACC cable is required. For Auto-Relay with manual flashes, engage Basic Trigger Mode in the PocketWizard Utility - any PocketWizard motor drive cable can be used.

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, reseal all connections, and power back on.

Reset

RESET

RESET A / CHANNEL RESET:

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.

RESET B / FACTORY DEFAULTS:

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.

- All settings may be configured using the PocketWizard Utility available from www.PocketWizard.com See the online extended documentation or the help text in the Utility for detailed descriptions of these settings.

Factory defaults

Channel

C.1 = ControlTL channel 1, Standard channel 1

C.2 = ControlTL channel 2, Standard channel 2

Use ControlTL for Rx Channel = enabled (**For FlexTT5 Only**)

Modeling

Non-Speedlight Modeling Light Mode = Camera Wake

Modeling Light Active Autotrack = enabled

Modeling Light Active = 100% (inactive due to Autotrack setting)

Modeling Light Sleep = 10%

Modeling Light Delayed Sleep = enabled

Modeling Light Delay After Camera Sleeps = 30 secs.

Exposure

Speedlight Flash Control = Normal i-TTL

Non-TTL Flash Control = Auto ISO and Aperture Tracking

Non-TTL Exposure Compensation Value (f-stops) = -3.0

Sync Timing

HyperSync Offset = -170 microseconds

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

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

Flash

Remote Beeper = No Change On Wakeup

Optical Trigger = No Change On Wakeup

Remote TTL Flash Sleep Mode = disabled

Flash Idle Time Out Mode = disabled **(For FlexTT5 Only)**

Misc

Basic Trigger Mode = disabled

Force TTL Master Mode = enabled

Transmitter Only Mode = disabled **(For FlexTT5 Only)**

Bottom Shoe Disable Mode = not enabled **(For FlexTT5 Only)**

Specifications

Specifications

Trigger Delay: = 0 seconds – “faster than a wire” when using compatible Nikon cameras, approximately 900 microseconds in Basic Trigger Mode

Batteries:

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

MiniTT1 - CR2450 or CR2354:

- Approximately 30 hours of camera awake time, varies with camera and Speedlight models.
- Low temperature operation and used batteries will have reduced battery life. Always use fresh batteries when working in the cold.
- Basic Trigger Mode consumes the battery more quickly and is not recommended when using the MiniTT1 for Nikon on a Nikon camera.

Maximum FPS: Up to 12 (varies with camera; i-TTL usage reduces FPS)

Operating Temperature: Above -15° C (5° F) and below 50° C (120° F) for FlexTT5

Above -12° C (10° F) and below 50° C (120° F) for MiniTT1

- Low temperature affects coin cell performance. Always use fresh batteries in cold temperatures.

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

Compatibility

This MiniTT1/FlexTT5 is compatible with most Nikon i-TTL compatible cameras and Speedlights. Visit PocketWizard.com for compatibility information specific to your cameras and Speedlights. Some features may not be available or may be implemented via firmware updates to your MiniTT1 and FlexTT5. i-TTL for DSLRs only (not for D-TTL or film TTL).

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 or contact your local PocketWizard Distributor. Distributor contact information can also be found at 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 or write to us at LPA Design, Inc., 21 Gregory Drive, South Burlington, VT 05403, United States of America, Attn: Warranty.

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For more information on this product, including detailed features, specifications and extended documentation, go to www.PocketWizard.com.

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

