

impact™

433 MHz 16-Channel
Transmitter &
Receiver Set



PT-AC16 and PT-AC16R

PowerTrigger

for AC Studio Flashes

INSTRUCTIONS

Table of Contents

Introduction.....	3
Key Features	4-5
Overview.....	6-7
Precautions	8
Powering the Transmitter	9
Powering the Receiver	10
Selecting the Channel	11
Connecting the Transmitter to Your Camera	12-13
Specifications	14
Troubleshooting.....	15
FCC Compliance.....	15
Warranty.....	16

Introduction

Thank you for choosing Impact.

Congratulations on the purchase of the Impact PowerTrigger PT-AC16 for AC Studio Flashes. The AC trigger set expands your photographic options with an easy to use wireless transmitter and receiver system for controlling your studio flashes. It enables you to trigger your flash(es) from up to 75 feet (22.8 meters) away, drastically reducing the risk of overbearing cable clutter.

The PowerTrigger offers 16 user-selectable channels, allowing you to change your transmitter and receiver settings to avoid interference from other wireless controls. The 433 MHz radio signal also empowers you to trigger your studio flash without a line-of-sight view, making it easier to set up wireless connections separated by a barrier. Additionally, one transmitter can trigger multiple receivers.

The transmitter and receiver of the PowerTrigger have a flash sync speed of up to 1/200 of a second on compatible cameras, allowing you to take advantage of sync speeds that match the rating of your camera. Additionally, the PowerTrigger receiver offers the ease and convenience of a global voltage (100-230V) connection. It utilizes the power from a host studio flash lighting unit to power itself, sparing you the hassle of replaceable batteries.

Key Features

- **AC Receiver / AC Power:** The AC-powered receiver does not require the use of batteries.
- **433 MHz radio signal:** The powerful radio signal allows you to trigger your studio flash without requiring line of sight.
- **Flash sync speed of up to 1/200s:** Take advantage of sync speeds that match the rating of your camera up to 1/200 of a second (compatible cameras only).
- **Wireless:** Cable-free triggering allows you to activate a studio flash from up to 75 feet (22.8 meters) away without a physical connection.
- **16 user-selectable channels:** Multiple channels allow you to change your transmitter/receiver settings to avoid interference from other wireless devices.
- **LED indicator:** Confirms communications of the sending and receiving signals, as well as active AC power confirmation.
- **Long-lasting transmitter battery:** Included user-replaceable 12-volt 23a alkaline battery lasts up to 2 years.
- **Multi-voltage:** 100-230V 50/60Hz

Contents Include

PT-AC16 - PowerTrigger Set

Transmitter

Receiver

2.5 mm sub-mini to PC cable

3.5 mm to 1/4" monoplug adapter

Instruction manual

Preinstalled 12v 23A transmitter battery

PT-AC16R - PowerTrigger Receiver

Receiver

3.5 mm to 1/4" monoplug adapter

Instruction manual



Overview

Transmitter

- 1 Trigger button
- 2 LED indicator light
- 3 Hot-shoe mount
- 4 Battery compartment screw
- 5 Channel selection switches
- 6 2.5 mm input

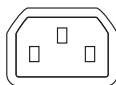


Receiver

- 1 Channel selection switches
- 2 AC input IEC C14 Male Connector
- 3 LED indicator light
- 4 AC output cable IEC C13 Female Connection
- 5 3.5 mm sync cable



NOTE: This device works with all studio flashes using an AC power connection incorporating an electrical plug with 3 vertical prongs, like the IEC -13 and -14 types (diagramed, right).



IEC 14 Male
Connector



IEC C13 Female
Connector

Precautions

- Please read and follow these instructions and keep this manual in a safe place.
- There are no user-serviceable parts inside the devices. Do not attempt to disassemble or perform any unauthorized modification.
- Do not operate the Impact PowerTrigger transmitter or receiver in the presence of flammable gas or vapors.
- Do not handle with wet hands or immerse in or expose to water or rain. Failure to observe this precaution could result in fire or electric shock.
- Keep out of reach of children. This device contains small parts which may pose a choking hazard.
- Observe caution when handling batteries. Batteries may leak or explode if improperly handled. Use only the batteries listed in this manual. Make certain to align the battery with the correct polarity.
- Handle the units with care.
- Do not use or leave the devices in conditions of extreme heat, severe cold, or high humidity.
- Turn off the power of the camera and studio flash before inserting or removing the remote.
- Dispose of used batteries, packaging, and old devices in accordance to appropriate local environmental regulations.
- Clean the unit with a soft, dry cloth.
- Use only parts provided by the manufacturer.
- Make sure the item is intact and that there are no missing parts.
- All photos are for illustrative purposes only.

Powering the Transmitter

The transmitter uses a long-lasting 12v 23A alkaline battery. The included battery is user-replaceable and can last up to two years.

To change the battery, unscrew the battery compartment screw on the back of the transmitter using a Phillips-head screwdriver. Remove the old battery and replace it with a fresh unit. Make sure to orient with the correct polarity when installing the new battery. Close the compartment and tighten the screw on the back of the transmitter. The device is now ready for use.



Powering and Connecting the Receiver

The PowerTrigger receiver offers the ease and convenience of a global voltage (100-230V) connection. It utilizes the power from a host studio flash lighting unit to power itself, sparing you the hassle of replaceable batteries. Please use the following instructions to connect your receiver to your studio flash.

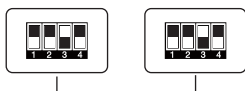
1. With your studio flash's AC cable unplugged from the wall and studio flash unit, insert the female end of your Studio Flash AC cable into the receiver's male AC socket.
2. Plug the PowerTrigger receiver's female output cable end into the studio flash's AC socket.
3. Plug the receiver's 3.5 mm cable into the studio flash's sync port.
4. Plug the male end of the studio flash's AC cable into a power outlet.
5. Turn on the studio flash on the receiver a green power LED will illuminate.

NOTE: If your studio flash does not have a 3.5 mm sync input, use the included 3.5 mm to 1/4" adapter to connect to your studio flash device. A 3.5 mm to household sync adapter is available separately (Impact #9031510).

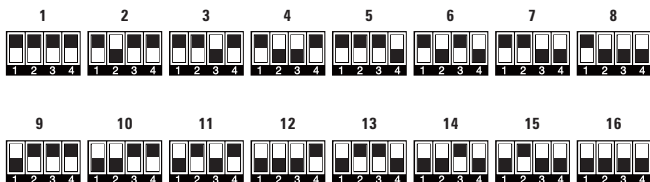


Selecting the Channel

The PowerTrigger transmitter and receiver channels can be set using the on-body channel selector switches. There are 16 individual channels available. Reference the following chart to choose your channel. Synchronize the Transmitter and Receiver by setting both to the same channel.



Adjust to the same channel



Connecting the Transmitter to Your Camera

The Impact PowerTrigger transmitter can be connected to your camera in two ways: hot shoe and wired connection.

On- Camera Hot Shoe Triggering

1. To connect the transmitter to your camera's hot shoe, slide the transmitter's hot-shoe foot into the camera's hot-shoe mount.
2. Secure the transmitter by tightening the foot-locking ring.
3. Synchronize the channels on the transmitter and receiving device(s).
4. Push the on-camera shutter release button or the transmitter's Test button to fire the flash in sync with the shutter release. A signal transmission confirmation in the form of a red LED will appear on the transmitter, and the red LED on the receiver will simultaneously blink.



Wired Camera Triggering

1. To connect your transmitter to your camera through a wired connection, plug the included sync cable into the camera and transmitter by inserting the 2.5 mm end into the PowerTrigger transmitter's input port and the cable's other end into your camera's PC port.
2. Synchronize the channels on the transmitter and receiving device(s).
3. Push the on-camera shutter release button or the transmitter's Test button to fire the flash in sync with the shutter release. A signal transmission confirmation in the form of a red LED will appear on the transmitter, and the red LED on the receiver will simultaneously blink.

Some camera models do not have PC ports. To use an off-camera wired connection, a hot-shoe PC adapter is required.



Specifications

Frequency:	433 MHz
Number of channels:	16
Transmitter connection:	2.5 mm sub-mini input sync port
Receiver Connections:	AC jack - male and female connections / 3.5mm sync cable
Operating range:	Maximum 75' (22.8 m)
Sync speed:	1/200s
Transmitter dimensions:	1.2" × 1.6" × 2.8" (3.1 × 3.9 × 7.2 cm)
Receiver dimensions:	1.3" × 2.2" × 2.8" (3.4 × 5.7 × 7.1 cm)
Transmitter weight:	1.3 oz. (37 g)
Receiver weight:	3.9 oz. (111 g)
Transmitter power:	12v 23A battery
Receiver power:	AC power source via studio flash
Multi Voltage:	100-230V 50/60Hz

Troubleshooting

- Check that the channels on all communicating devices are identical.
- If your first choice of channel doesn't work, try a different channel until you find one that works.
- Ensure that all cables are installed correctly.
- Make sure that the power source for each device is properly installed and carrying a sufficient charge. Weak batteries can reduce the distance over which a transmission works.
- Make sure that the red communication confirmation lights appear on the transmitter and receiver when pressing the transmitter's test button or camera's shutter button.
- Verify that flash and camera equipment are operating properly.
- Make sure the devices are within maximum operating range.

FCC Compliance

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.

FCC ID: ZYR-AT-16

One-Year Limited Warranty

This IMPACT product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

To obtain warranty coverage, contact the Impact Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Impact along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit www.impactstudiolighting.com or call Customer Service at 212-594-2353.

Product warranty is provided by the Gradus Group.
www.gradusgroup.com



Impact is a registered trademark of the Gradus Group. © 2014 Gradus Group LLC.
All Rights Reserved. All other trademarks are the property of their respective owners.