Spare Remote Controller for PTB-1
Instruction Manual

Thank you for your purchase of the Larson Electronics PTB-1-WR.

WARNING:

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
CRITICAL SAFETY INSTRUCTIONS:

- INSTALLATION SHOULD ONLY BE CONDUCTED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH NEC AND ANY RELEVANT LOCAL BUILDING CODES.
- RISK OF FIRE OR ELECTRIC SHOCK. FIXTURE INSTALLATION REQUIRES KNOWLEDGE OF FIXTURE'S ELECTRICAL SYSTEMS. IF NOT QUALIFIED, CONTACT A QUALIFIED ELECTRICIAN.
- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- MAKE SURE THE SUPPLY VOLTAGE IS THE SAME AS THE FIXTURE'S RATED VOLTAGE.
- TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR SHARP OBJECTS. SUITABLE FOR DAMP LOCATIONS.

IMPORTANT

READ CAREFULLY BEFORE INSTALLING THIS FIXTURE. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. THE PTB-1-WR MUST BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. PROPER GROUNDING IS REQUIRED FOR SAFETY.

WE STRONGLY ENCOURAGE ONLY A LICENSED ELECTRICIAN INSTALL, OPERATE AND MAINTAIN THIS PRODUCT. IF YOU ARE NOT QUALIFIED OR UNFAMILIAR WITH ANY ASPECT OF THIS INSTRUCTION SHEET, CONSULT AN ELECTRICIAN. THERE ARE NO SERVICEABLE PARTS INSIDE.

WARNING: MAKE SURE POWER IS TURNED **OFF** BEFORE STARTING THE INSTALLATION OR PERFORMING ANY MAINTENANCE.

RISK OF FIRE/ELECTRIC SHOCK – DISCONNECT POWER AT BREAKER BEFORE INSTALLING OR SERVICING. **RISK OF PERSONAL INJURY –** FIXTURE MAY BECOME UNSTABLE OR DAMAGED IF NOT INSTALLED PROPERLY. **RISK OF BURN –** ALLOW FIXTURE TO COOL BEFORE SERVICING.

Wireless remote for the PTB-1; remote control Pan Tilt Base.

WIRELESS REMOTE TRANSMITTER PROGRAMING PROCESS

- Disconnect the cigarette jack (Y-Pin Connector)
- Make sure there are NOT any transmitter operations within 3 meters while programming
- Plug in the cigarette jack (Y-Pin Connector) and connect power supply
- Within five seconds, turn power on and press the transmitter's upper button ▲ and down button ▼ at the same time. The lamp will flash once, which means it accepts the first transmitter.
- If you like to program the second transmitter (one lamp accepts three transmitters at most), within five seconds, after the first transmitter completed its program process press the second transmitter's upper button ▲ and down button ▼ at the same time. The lamp will flash twice to accept the second transmitter.
- If no action is taken for five seconds, the lamp will leave programming mode.

ATTENTION: If you would like to use the original transmitter, you should program it during the same programming process with the new ones, or the original transmitter will be unavailable.



Remote Control



- **ON/OFF** – Power's the unit on or off.
- **▲UP ▼DOWN ◀ LEFT ▶ RIGHT** - Moves the pan/tilt base in the corresponding direction.

LOCK Remote Functionality

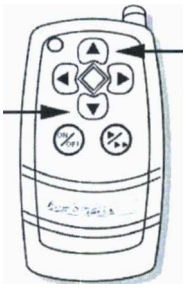
Press the **◀ LEFT + ▶ RIGHT** buttons on the hardwired remote simultaneously or press the ▶/⏩ button on the wireless remote.

A **BLUE** backlight on the hardwired remote indicates the remote functionality is **LOCKED**. A **RED** backlight indicates the remote functionality is **UNLOCKED** and both the wired and hardwired remotes will function.



HANDHELD WIRELESS REMOTE PROGRAMMING PROCESS:

1. Switch off DC power.
2. Make sure there is NO other transmitter operating at the same time.
3. Switch on DC power, within 5 seconds press the remote's up and down button once at the same time.
4. Searchlight will flash to acknowledge the remote, connection has been made.
5. To program the second remote (up to 4 remotes may be used with the searchlight, programming a fifth will replace the first), within five seconds, pres the second remote's up and down button after the first remote is acknowledged or repeat step 1.



Command Protocols

No	Command		Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7
1	PAN LEFT	Command	FFh	Receiver ID	00h	04h	DATA1	DATA2	CHECKSUM
		Description	DATA1:PAN SPEED(00~3Fh),DATA2:TILT SPEED(00~3Fh)						
2	PAN RIGHT	Command	FFh	Receiver ID	00h	02h	DATA1	DATA2	CHECKSUM
		Description	DATA1:PAN SPEED(00~3Fh),DATA2:TILT SPEED(00~3Fh)						
3	TILT UP	Command	FFh	Receiver ID	00h	08h	DATA1	DATA2	CHECKSUM
		Description	DATA1:PAN SPEED(00~3Fh),DATA2:TILT SPEED(00~3Fh)						
4	TILT DOWN	Command	FFh	Receiver ID	00h	10h	DATA1	DATA2	CHECKSUM
		Description	DATA1:PAN SPEED(00~3Fh),DATA2:TILT SPEED(00~3Fh)						
5	ZOOM TELE	Command	FFh	Receiver ID	00h	20h	00h	00h	CHECKSUM
		Description							
6	ZOOM WIDE	Command	FFh	Receiver ID	00h	40h	00h	00h	CHECKSUM
		Description							
7	FOCUS NEAR	Command	FFh	Receiver ID	01h	00h	00h	00h	CHECKSUM
		Description							
8	FOCUS FAR	Command	FFh	Receiver ID	00h	80h	00h	00h	CHECKSUM
		Description							
9	P/T/Z/F STOP	Command	FFh	Receiver ID	00h	00h	00h	00h	CHECKSUM
		Description							
10	SET PRESET	Command	FFh	Receiver ID	00h	03h	00h	PRESET ID	CHECKSUM
		Description	PRESET ID=00~7Fh						
11	CLEAR PRESET	Command	FFh	Receiver ID	00h	05h	00h	PRESET ID	CHECKSUM
		Description	PRESET ID=00~7Fh						
12	GOTO PRESET	Command	FFh	Receiver ID	00h	07h	00h	PRESET ID	CHECKSUM
		Description	PRESET ID=00~7Fh						
13	REMOTE RESET	Command	FFh	Receiver ID	00h	0Fh	00h	00h	CHECKSUM
		Description							
14	AUX ON	Command	FFh	Receiver ID	00h	09h	00h	01~02h	CHECKSUM
		Description							
15	AUX OFF	Command	FFh	Receiver ID	00h	0Bh	00h	01~02h	CHECKSUM
		Description							

MAINTENANCE

There are no serviceable parts inside the fixture. However, it is good practice to routinely clean and check the fixture for proper function.

- Disconnect power running to the lamp and be sure the fixture is cool to the touch.
- Use a non-abrasive glass cleaning solution to clean the lens.

Note: *It is not necessary to open the fixture and clean or touch the LED's.*

USE AND CARE

Unauthorized modification may impair the function and/or safety of this device and could affect the life of the equipment. Always check for damaged or worn out parts before using the device. Store it in a secure place out of the reach of children when not in use. Inspect for good working condition prior to storage and before re-use.

REPLACEMENT PARTS

The PTB-1-WR is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.