

Cini Remote 868MHz Operation Manual

Transmitter and Receiver Modules

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TABLE OF CONTENTS

1. INTRODUCTION	3
2. INSTALLATION	4
2.1. NECESSARY HARDWARE	4
2.2. CINI REMOTE TRANSMITTER	4
2.3. CINI REMOTE RECEIVER	5
3. HARDWARE FUNCTIONALITY	6
3.1. CINI REMOTE TRANSMITTER	6
3.1.1. FUNCTIONALITY	6
3.1.2. SPECIFICATIONS	6
3.2. CINI REMOTE RECEIVER	6
3.2.1. FUNCTIONALITY	6
3.2.2. SPECIFICATIONS	7
3.3. LEMO 6 POSITION CONNECTOR	8
4. COMMON ISSUES AND SOLUTIONS	8
4.1. RANGE/INTERFERENCE (DROPOUTS) WITH OTHER 868MHZ DEVICES	8
4.2. DEAD BATTERIES (----) ON DISPLAY	8
4.3. SPARE PARTS ORDERING	8
4.4. POWERING WITHOUT A 9V BATTERY	8
5. LIMITED WARRANTY	9
6. TECHNICAL SUPPORT	9

1. Introduction

This document describes the **Cini Remote Transmitter** and **Cini Remote Receiver** features and hardware functions of the Cini Remote Link. This product is to be used with the Cine Tape Measure System a registered product of Cinematography Electronics Inc. The 2 modules are described below;

a) Cini Remote Transmitter

This unit receives distance data from the opto-isolated serial port and sends it over a 9600 baud, 868 Mhz radio link to the receiver module. There is a microprocessor on the transmitter module to configure and monitor the 868 Mhz radio transceiver.

b) Cini Remote Receiver

This unit receives data from the 868 Mhz radio link of the **Cini Remote Transmitter** and displays it on the 4 seven-segment readouts. The format for the data (feet or meters) that will be displayed is set by the Cine Tape Measure System. There is a microprocessor on the receiver module to configure and monitor the 868 Mhz radio transceiver as well as receiving, calculating and displaying the distance data.



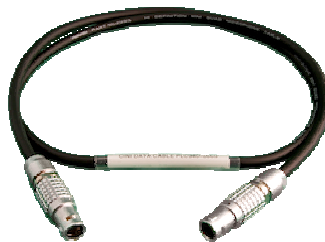
2. Installation

2.1. Necessary Hardware

- Cini Remote Transmitter 868MHz (PLC955-0004)
 - Comes with 900MHz ¼ Wave Antenna (PLC477-0001)
 - Comes with Cini Battery Holder (PLC955-0017)
- Cini Remote Receiver 868MHz (PLC955-0005)
 - Comes with 900MHz ¼ Wave Antenna (PLC477-0001)
- Cini Data Cable (PLC940-0001)

2.2. Cini Remote Transmitter

Plug one end of the **Cini Data Cable** into the 6pin Lemo connector of a Cine Tape Measure System and the other end of the **Cini Data Cable** into the **Cini Remote Transmitter**.



Attach the **900MHz ¼ Wave Antenna** to the **Cini Remote Transmitter**.



Power up the Cine Tape Measure System, a number should now show up on the display of the **Cini Remote Transmitter**.

2.3. Cini Remote Receiver

Attach the **900MHz ¼ Wave Antenna** to the **Cini Remote Receiver** and insert a 9 volt battery making sure the positive (+) side of the battery is connected to the positive (+) of the reverse polarity protected **Cini Battery Holder**.



The display should now light up. The data from Cine Tape Measure System will now show on the display.

3. Hardware Functionality

3.1. Cini Remote Transmitter

3.1.1. Functionality

- When powered up the **Cini Remote Transmitter** will transmit data to the **Cini Remote Receiver** over the 868 MHz radio link.

3.1.2. Specifications

	Min.	Avg.	Max.
Case Size	97 x 45.85 x 23.2 mm (0.9" x 1.8" x 3.8")		
Weight	132 grams (4 5/8 oz.)		
Temperature Range degC(F)	-40(-40)		+85(185)
Input Voltage (V)	5.9		38
Output Voltage (V)		5	
Current at 9V (mA)		45.6	
Current at 24V (mA)		19.36	

3.2. Cini Remote Receiver

3.2.1. Functionality

- The four 7 segment readouts indicate the camera to scene distance.
- The **ft** LED indicates that the readout is in feet and therefore the Cine Tape Measure System is set to feet while the **m** LED indicates that the readout is in meters and therefore the Cine Tape Measure System is set to meters.
- If you press down the **sw** button the **Cini Remote Receiver** will toggle between low and high brightness modes. This setting will be saved in memory.
- If you hold down the **sw** button while powering up the unit you will be able to cycle through the 7 Channels 0 – 6. Release the button at the

appropriate channel. This setting will be saved in memory. (You **MUST** have both the **Cini Remote Transmitter** and **Cini Remote Receiver** on the same channel for communication)

- If you hold down the **sw** button while powering up the unit and allow the unit to cycle through all of the channels 3 times; **def** indicating default will flash on the readout. Releasing the button here will set the **Cini Remote Receiver** to factory defaults.
- When there is approximately 20 minutes of battery life left the lit **ft** or **m** LED will flash continuously.

3.2.2. Specifications

	Min.	Avg.	Max.
Case Size	101 x 87.6 x 32.3 mm (4" x 3.45" x 1.27")		
Weight	252 grams (8 7/8 oz.),		
Temperature Range degC(F)	-40(-40)		+85(185)
Input Voltage, 9V Battery (V)	6.5		30
High Brightness Current at 7V (mA)	53.7	62	71
High Brightness Current at 9V (mA)	42	48	93
Low Brightness Current at 7V (mA)	43	51	108
Low Brightness Current at 9V (mA)	34	40	140

3.3. Lemo 6 Position Connector

Position	
3	Input Data
4	Ground
6	+7 to 30VDC

4. Common Issues and Solutions

4.1. Range/Interference (dropouts) with other 868MHz Devices

- Put as much physical distance between the receive and transmit antenna's and any other antenna as is practical.
- Try to change the channel on your other 868MHz devices if possible.

4.2. Dead Batteries (----) on display

- When the 9 volt battery gets low the Cini Remote Receiver will not receive properly and will eventually just show 4 dashes (----) on the screen.

4.3. Spare Parts Ordering

- Order spare parts online at www.plcelectronicsolutions.com.

4.4. Powering without a 9V battery

- Remove the battery pack from the **Cini Remote Receiver** and plug the **Cini Data Cable** directly into the **Cini Remote Receiver**.

5. Limited Warranty

PLC Electronic Solutions Ltd. Warrants this equipment for 1 year from the date of original purchase against defects in materials or workmanship provided it was purchased from an authorized dealer. This warranty does not cover equipment, which has been abused or damaged by careless handling or shipping, nor does it cover products subjected to customer alteration, modification, negligence or misuse. This warranty does not apply to used or demonstrator equipment.

Should any defect develop within the warranted time period, BarTech Engineering will at its sole option, repair or replace the defective instrument without charge. To obtain warranty service, the defective instrument must be returned within 1 year from original purchase date to PLC Electronic Solutions Ltd., along with a brief description of the issue claimed.

6. Technical Support

Address any technical question to:



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