



# Cini Remote V2 Operation Manual

## Transmitter and Receiver Modules



**READ ALL INSTRUCTIONS BEFORE OPERATING.**

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# 1. Introduction

This document describes the features and hardware functions of the **Cini Remote Transmitter V2** and **Cini Remote Receiver V2**. This product is compatible with the

- **Cinematography Electronics Cine Tape™ Measure**
- **ARRI™ UDM,**
- **Ward Sniper MK-3,**
- **And more** (please contact us for updates and recommendations as we are constantly improving this product)

The 2 modules are described below;

## a) Cini Remote Transmitter V2

This unit receives distance data from the opto-isolated serial port and sends it over a 9600 baud, 868/900 MHz radio link to the receiver module. Using the channel display and the up/down pushbuttons you can select one of 7 radio channels for the link. There is a microprocessor on the transmitter module to configure and monitor the 868/900 MHz radio transceiver.

## b) Cini Remote Receiver V2

This unit receives data from the 868/900 MHz radio link of the **Cini Remote Transmitter V2** and displays it on the four 7-segment readouts. The format for the data (feet or meters) that will be displayed is set by the Cine Tape™, ARRI™ UDM, or Ward Sniper MK-3. There is a microprocessor on the receiver module to configure and monitor the 868/900 MHz radio transceiver as well as receiving, calculating and displaying the distance data. The Cini Remote Rx V2 can be used to adjust the Sensitivity and Film-Plane Offset of the Cine Tape™ or ARRI™ UDM.



## 2. Installation

### 2.1. Necessary Hardware

- Cini Remote Transmitter V2 868/900MHz (PLC955-0004/PLC955-0002)
  - Includes 900MHz ¼ Wave Antenna (PLC477-0001)
- Cini Remote Receiver V2 868/900MHz (PLC955-0042/PLC955-0041)
  - Includes 900MHz ¼ Wave Antenna (PLC477-0001)
  - Includes Cini Battery Holder (PLC955-0017)
- Cini Data Cable V2 (PLC940-0047)

### 2.2. Cini Remote Transmitter V2

Plug one end of the **Cini Data V2 Cable** into the 6pin Lemo connector of a Cine Tape Measure System and the other end of the **Cini Data V2 Cable** into the **Cini Remote Transmitter V2**.

\*\*\***Note:** To fully utilize Sensitivity and Film-Plane Offset controls, the Cini Data V2 Cable must be used (identified with blue heatshrink) (PLC940-0047)



Attach the **900MHz ¼ Wave Antenna** to the **Cini Remote Transmitter V2**.



Power up the Cine Tape Measure System, a number should now show up on the display of the **Cini Remote Transmitter V2**. Set the desired channel using the instructions in **3.1.1 Functionality** section.

## 2.3. Cini Remote Receiver V2

Attach the antenna to the **Cini Remote Receiver V2** 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**. An **optional Sony™ M-Style Battery Holder** is also available.



The display should now light up. To change and indicate the current channel see the instructions in the **3.2.1 Functionality** section. The distance measurement data will now show on the display.

## 3. Hardware Functionality

### 3.1. Cini Remote Transmitter V2

#### 3.1.1. Functionality

- The 7-segment readout indicates the radio **Channel** 0 – 6 (7 channels).
- The Cini Remote Transmitter V2 now automatically detects whether a Cine Tape™, ARRI™ UDM, or Ward Sniper MK-3 is connected. This is indicated by one of 3 letters flashing on start-up:

**C – Cine Tape™ (default)**

**P – Preston / Ward Sniper MK-3**

**U - ARRI™ UDM**

- To change **channels**:
  1. With the Transmitter powered-on, press and hold the **Up** button to increment the channel number. Conversely press and hold the **Down** button to decrement the channel number.
  2. Release the button once the channel has been selected and the channel will automatically save to memory.
  
- To reset to **factory defaults**:
  1. With the Receiver powered-off, hold down both **Up and Down buttons** while powering up the unit.
  2. Release when a flashing “**d**” is displayed, indicating factory default settings have been restored.

### 3.1.2. Cini Remote Transmitter V2 Specifications

	<b>Min.</b>	<b>Avg.</b>	<b>Max.</b>
<b>Case Size</b>	97 x 45.85 x 23.2 mm (0.9" x 1.8" x 3.8")		
<b>Weight</b>	122 grams (4 1/4 oz.)		
<b>Temperature Range °C(°F )</b>	-40(-40)		+85(185)
<b>Input Voltage (V)</b>	6		30
<b>Output Voltage (V)</b>		5	
<b>Current at 9V (mA)</b>		60	
<b>Current at 24V (mA)</b>		22	

## 3.2. Cini Remote Receiver V2

### 3.2.1. Functionality

- The four 7-segment readouts indicate the camera to subject distance.
- The **ft** LED indicates that the readout is in feet and therefore the Cine Tape™ Measure System or Arri™ UDM is set to feet while the **m** LED indicates that the readout is in meters and therefore the Cine Tape™ Measure System or Arri™ UDM is set to meters.
- The **Sense** LED indicates valid data received by the Cine Tape™ or Arri™ UDM.
- When there is approximately 20 minutes of battery life left the lit **ft** or **m** LED will flash continuously.
  
- To adjust **brightness**:
  1. With the Receiver powered-on, press the **red push-button**.
  2. On the display, “**br**” followed by a number between 00 and 99 will be shown. Rotate the **adjustment knob** until at the desired brightness level.
  3. Press the red push-button (or down on the adjustment knob) to exit the brightness adjustment mode and save this setting to memory.
  
- To change **channels**:
  1. With the Receiver powered-off, hold down the **red push-button** button while powering up the unit.
  2. On the display, “**ch**” followed by the current channel number (0-6 flashing) will be shown. Rotate the **adjustment knob** until the desired channel is displayed.
  3. Press the red push-button (or down on the adjustment knob) to save this setting to memory. (You MUST have both the Cini Remote Transmitter V2 and Cini Remote Receiver V2 on the same channel for communication)
  
- To adjust the **Film-Plane Offset** of the Cine Tape™ or ARRI™ UDM:
  1. Press and hold the **adjustment knob** until the **Film-Plane Offset** LED is lit.
  2. Rotate the adjustment knob to adjust the Film-Plane Offset.



3. Press down on the adjustment knob to save this setting to memory.
- To adjust **Sensitivity** of the Cine Tape™ or ARRI™ UDM:
1. Press and release the **adjustment knob**. The **Sensitivity** LED will illuminate and Cine Tape or UDM sensitivity can now be adjusted.
  2. Rotate the adjustment knob to the desired sensitivity value.
  3. Press and release the adjustment knob to save this setting to memory.
- To reset to **factory defaults**:
1. With the Receiver powered-off, hold down the **red push-button** while powering up the unit.
  2. On the display, “**ch**” followed by the current channel number (0-6 flashing) will be shown. Rotate the **adjustment knob** clockwise, past “ch 6” until “**dEf**” is displayed.
  3. Press the red push-button (or down on the adjustment knob) to restore factory defaults.

### 3.2.2. Cini Remote Receiver V2 Specifications

	Min.	Avg.	Max.
<b>Case Size</b>	101 x 87.6 x 32.3 mm (4" x 3.45" x 1.27")		
<b>Weight</b>	260 grams (9 1/8 oz.),		
<b>Temperature Range °C(°F )</b>	-40(-40)		+85(185)
<b>Input Voltage, 9V Battery (V)</b>	6		30
<b>Maximum Brightness Current at 6V (mA)</b>	7.5	8	10
<b>Maximum Brightness Current at 9V (mA)</b>	11.5	12	12.5
<b>Minimum Brightness Current at 6V (mA)</b>	4	4.5	5
<b>Minimum Brightness Current at 9V (mA)</b>	3.5	3.75	4.5

### 3.3. Lemo 6 Position Connector

Position	
3	Input Data
4	Ground
5	Output Data
6	+6 to 30 V <sub>DC</sub>

## 4. Common Issues and Solutions

### 4.1. Range/Interference (dropouts) with Other 800/900MHz Devices

- Create as much physical space between the receive and transmit antennae and any other antenna as is practical.
- Change the channel on the **Cini Remote Receiver V2** and **Cini Remote Transmitter V2**, test and then try to change the channel on your other 868/900MHz devices if possible.

### 4.2. Dead Batteries (----) on Display

- The lit **ft** or **m** LED will flash continuously on the **Cini Remote Receiver V2** when the battery is running low indicating approximately 20 minutes of life remaining.
- When the battery runs too low, no data will be received and will eventually just show 4 dashes (----) on the screen. The **ft** and **m** LEDs will both be dimly lit.

### 4.3. Switching Channels

- Please see **3. Hardware Functionality** for more information.

### 4.4. Spare Parts Ordering

- Order spare parts such as cables, antennae, cases or battery holders online at [www.plcelectronicsolutions.com](http://www.plcelectronicsolutions.com)

### 4.5. Powering Without a 9V battery

- Remove the battery pack from the **Cini Remote Receiver V2** and plug the **Cini Data Cable V2** directly into the Receiver. Functionality will be limited to measurement display only.

## 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, PLC Electronic Solutions Ltd. 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 the original purchase date to PLC Electronic Solutions Ltd., along with a brief description of the defect claimed. PLC Electronic Solutions Ltd. will pay for ground shipping of any unit deemed to be covered under warranty. Under no circumstances will PLC Electronic Solutions Ltd. be liable for greater than the original purchase cost of the PLC Electronic Solutions Ltd. product.

## 6. Technical Support

Address any technical question to:



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