

## Wireless Remote Camera Control User manual V 1.3









## **Contents**

## Chapter 1: Introduction

This first chapter provides a general description of the Wireless Camera Control System.

## Chapter 2: Technical features

This second part offers a detailed description of the Wireless Camera Control characteristics.

## Chapter 3: System operation and Menus

This third part provides the user all the necessary information to control and operate the equipment properly.

## Chapter 4: Equipment Installation

This chapter describes the connectors and pinout.

## Chapter 5: Mechanical Dimensions

This chapter defines the mechanical structure and dimensions.



## Dear customer,

We would like to thank you for selecting this equipment and welcome you to the SVP's growing family of products.

We are sure that the addition of this equipment will cause you a complete satisfaction in your existing installation.

Please read these instructions carefully, and keep them in hand in case you have to refer to them.



## **About this manual**

This user's guide provides indications and explanations about how to set up the system easily for the most common use cases.

This document is intended to help first time users:

- To find their way around the GUI.
- To understand the different possibilities of the Wireless Camera Control System.
- To configure the Wireless Camera System for their specific configurations.

## **Symbols**

The symbols that appear in this manual are:



An information message which indicates explanations for the proper operation of the equipment.



It advises users that if they do not take, avoid or make specific actions, several damages could appear in the device.



## First Aid in Case of Electric Shock

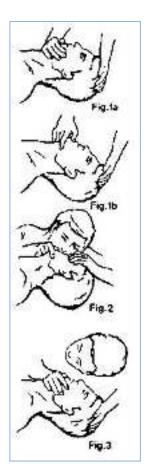
DO NOT TOUCH THE VICTIM WITH YOUR BARE HANDS until the circuit is broken. SWITCH OFF. If this is not possible, PROTECT YOURSELF with DRY insulating material and pull the victim clear of the conductor.

If breathing has stopped, indicated by unconsciousness, lack of respiratory movements and a 'blue' look to cheeks, lips, ears and nails, START RESUSCITATION AT ONCE.

#### **EMERGENCY RESUSCITATION - THE EXPIRED AIR METHOD**

(Approved by the Royal Life Saving Society)

- 1. If possible, lie the victim on his back with his head slightly higher than his feet. Clear the mouth and throat of any obvious obstruction.
- 2. Kneel on one side of the victim, level with his head. LIFT THE JAW AND TILT THE HEAD BACK AS FAR AS POSSIBLE (Figs. 1a and 1b)
- 3. One of the following may happen:
  - a) Breathing may begin and consciousness return.
  - b) Breathing may begin but consciousness NOT return. Turn the victim on his side and ensure that the airway is kept clear.
  - c) Breathing may return but be NOISY which means that the airway is not fully clear. Try to clear the airway.
- 4. IF THERE NO SIGN OF BREATHING:
  - a) Check that the head is still tilted back.
  - b) Take a deep breath.
  - c) Pinch the victim's nose and blow firmly into his mouth (Fig. 2). As you do, the chest will RISE.
  - d) Turn your head away and take another breath, watching for the chest to FALL (Fig. 3).
- 5. Start with four quick breaths and then continue with one breath every five seconds (i.e. 12 times a minute). This should be continued until the victim revives or a doctor certifies death.
- 6. As consciousness returns the victim will start to breathe on his own, and a 'pink' color replaces the 'blue' look: this is the time to stop resuscitation. Continue to hold his chin up and so keep the airway clear.





- 7. In the case of injuries to the mouth, it may be necessary to use mouth-to-nose resuscitation. Seal the victim's mouth with your cheek and blow firmly into his nose, proceeding as above.
- 8. In the case of severe facial injuries it may be necessary to do a manual method of artificial respiration (Silvester-Brosch or Holger Nielsen). Briefly, these methods apply compression to ribcage with the victim lying on his back (S-B) or face down (H.N.) with associated movement of his arms up and out. The cycle of movement should take about five seconds, i.e. the normal breathing phase.
- 9. Whatever the method, it is ESSENTIAL to commence resuscitation WITHOUT DELAY and to send for medical assistance immediately.

### TREATMENT FOR BURNS

If the victim is also suffering from burns, then, without hindrance to resuscitation, observe the following:

- a) DO NOT ATTEMP TO REMOVE CLOTHING ADHERING TO THE BURN.
- b) If possible alleviate the pain from the burnt part by immersing in cold water.
- c) If help as available or as soon as resuscitation is no longer required the wound should be covered with a DRY clean dressing.
- d) Oil or grease in any form should not be applied.
- e) If severely burnt, get the victim to hospital immediately.



# **Main Index**

| Chapter 1: Intr | oduction                      | 8  |
|-----------------|-------------------------------|----|
| Chapter 2: Tec  | hnical Features               | 9  |
| Chapter 3: Op   | eration and Menus             | 12 |
| 3.1 CC-IDU      | J Menus                       | 12 |
| 3.1.1 Main      | screen                        | 12 |
|                 | Menu                          |    |
| 3.1.2.1         | RCP Unit                      |    |
| 3.1.2.2         | Radio                         |    |
| 3.1.2.3         | Unit                          |    |
| 3.1.2.4         | Alarms                        | 14 |
| 3.2 CC-ODI      | U Menus                       | 15 |
| 3.2.1 Main      | screen                        | 15 |
| 3.2.2 Main      | Menu                          | 15 |
| 3.2.2.1         | Radio                         | 15 |
| 3.2.2.2         | Unit                          | 16 |
| 3.2.2.3         | Alarms                        |    |
| 3.3 CC-CAN      | MERA Menus                    | 17 |
| 3.3.1 Main      | screen                        | 17 |
| 3.3.2 Main      | Menu                          | 17 |
| 3.3.2.1         | Camera                        | 17 |
| 3.3.2.2         | Radio                         | 17 |
| 3.3.2.3         | Unit                          | 18 |
| 3.3.2.4         | Alarms                        |    |
| Chapter 4: Equ  | ipment Installation           | 19 |
| 4.1 Introdu     | iction                        | 19 |
| 4.2 Installa    | tion diagram                  | 20 |
| 4.3 Connec      | tors                          | 21 |
| 4.3.1 CC-II     | DU                            | 21 |
| 4.3.1.1         | Power D.C. connection         | 21 |
| 4.3.1.2         | Data+ PoE Ethernet connection |    |
| 4.3.1.3         | Data connection               | 22 |
| 4.3.1.4         | Data RS485 connection         |    |
| 4.3.1.5         | RCP+ PoE Ethernet connection  |    |
| 4.3.1.6         | Remote connection             |    |
| 4.3.1.7         | Tally RED connection          |    |
| 4.3.1.8         | RCP 1/2/3/4 connection        |    |
| 4.3.2 CC-0      | DU                            | 25 |



| 4.3.2.1        | Power D.C. connection        | 25 |
|----------------|------------------------------|----|
| 4.3.2.2        | Data PoE Ethernet connection | 26 |
| 4.3.2.3        | Data SFP connection          | 26 |
| 4.3.2.4        | Data RS485 connection        | 26 |
| 4.3.2.5        | Remote Antenna Connector     | 26 |
| 4.3.3 CC-C     | CAMERA                       | 27 |
| 4.3.3.1        | Remote Serial connection     | 27 |
| 4.3.3.2        | Remote IP connection         | 27 |
| 4.3.3.3        | Tally connection             | 28 |
| 4.3.3.4        | Remote Antenna Connector     | 28 |
| Chapter 5: Med | chanical Dimensions          | 29 |



# **Chapter 1: Introduction**

SVP Aerospace's new bidirectional camera control consists of three pieces of equipment: CC-IDU, CC-ODU and CC-Camera.

The Camera Control Indoor Unit (CC-IDU) is designed to control up to 4 cameras, with the option for full Ethernet control, integrating into an existing OCP network.

The Control Outdoor Unit (CC-ODU) is a 1-watt UHF transmitter used with the CC-IDU and CC-Camera. It wirelessly connects the CC-Cameras. You will need as many CC-ODUs as cameras you want to remotely control. Each camera would have its own UHF channel.

The CC-Camera is a compact and lightweight camera control, perfect for camera operations in any situation. It connects with a single cable to the camera, and red and green tally.

Thanks to the bidirectionality of the camera control, all its functions are operative by the user.

All systems are compatible with all main camera manufacturers including Panasonic and Sony.



# **Chapter 2: Technical Features**

| CC-IDU            |                                       |
|-------------------|---------------------------------------|
| Frequency         | 403-473 MHz                           |
| Bandwidth         | 25 KHz                                |
| RF Power          | 100mW /500mW/1 Watt                   |
| RX Sensitivity    | -111 dBm                              |
| Data to RCP       | 4 connectors Serial<br>Ethernet + PoE |
| Data to ODU       | RS485                                 |
|                   | Optical SFP Fiber                     |
|                   | Ethernet + PoE                        |
| Available cameras | Sony<br>Panasonic                     |
| Power Input       | 9 to 36 V DC via XLR-4 connector      |
| Power Output      | PoE via RCP Ethernet connector        |
|                   | PoE via ODU Ethernet connector        |
| Connectors        | DC Power Supply : XLR-4 male          |
|                   | ODU RS-485: XLR-3 female              |
|                   | ODU Ethernet + PoE: RJ-45             |
|                   | ODU Optical Fiber: SFP                |
|                   | RCP Ethernet + PoE: RJ-45             |
|                   | Tally: DB-9 male                      |
|                   | RCP Serial: 4 x Hirose 8 pin (Sony)   |
| Dimensions        | W 210mm x D 144mm x H 43mm            |
| Weight            | 850gr                                 |



| CC-ODU         |                                  |  |
|----------------|----------------------------------|--|
| Power          | 9 to 36 V DC via XLR-4 connector |  |
|                | PoE via Ethernet connector       |  |
| Connectors     | D.C. power supply: XLR-4 male    |  |
|                | Ethernet with PoE: RJ-45         |  |
|                | Fiber Optic: SFP module          |  |
|                | RS-485 Data: XLR-3 male          |  |
|                | Antennas: 2 x TNC female         |  |
| RF Out         | 100mW/500mW/1 Watt               |  |
| Frequency      | 403-473MHz                       |  |
| Bandwidth      | 25 KHz                           |  |
| Data Input     | RS485 via XLR-3 male             |  |
|                | Via optical fiber with SFP       |  |
|                | Via Ethernet IP with PoE         |  |
| RX Sensitivity | -111dBm                          |  |
| Dimensions     | W 137mm x D 112mm x H 50mm       |  |
| Weight         | 590gr                            |  |



| CC-CAMERA         |   |  |  |
|-------------------|---|--|--|
| Power             | 9 to 36v supplied through Hirosi connector  |  |  |
| Connectors        | Camera Remote: Hirosi 8 pins<br>Ethernet: RJ-45<br>Tally Outputs + Microphone + Headphones: Lemo 0B 7 pins<br>Antenna: 2 x TNC Female |  |  |
| Frequency         | 403-473MHz  |  |  |
| Bandwidth         | 25 KHz  |  |  |
| Camera<br>Data    | RS485 or RS232<br>Ethernet  |  |  |
| RX<br>Sensitivity | -111dBm   |  |  |
| Dimensions        | W 96mm x D 26mm x H 61mm  |  |  |
| Weight            | 160gr   |  |  |



# **Chapter 3: Operation and Menus**

## 3.1 CC-IDU Menus

## 3.1.1 Main screen

```
1 [.]: Tally:----
2 [X]:---- R:438.000M
3 [X]:---- I:412.800M
4 [X]:---- I:[ ]
```

Figure 1:CC-IDU Main screen

## 3.1.2 Main Menu

### 3.1.2.1 RCP Unit

| Line no | Function   |  |  |  |
|---------|--|--|--|--|
|         | RCP Type (eligible parameter):   |  |  |  |
|         | In this option the RCP type can be configured. To select the desired RCP, press Left and Right arrows. |  |  |  |
|         | The available options are:   |  |  |  |
| 1       | • Sony   |  |  |  |
|         | <ul> <li>Panasonic</li> </ul>  |  |  |  |
|         | • Com232   |  |  |  |
|         | • Com422   |  |  |  |

Table 3.1: RCP Unit menu options



## 3.1.2.2 Radio

| Line no | Function   |  |  |  |
|---------|--|--|--|--|
|         | Frequency (eligible parameter):  |  |  |  |
| 1       | In this option the transmission frequency of the camera control can<br>be configured. To select the desired frequency, press OK, and edit<br>the desired value.      |  |  |  |
|         | RF Power (eligible parameter):   |  |  |  |
|         | In this option the transmission output power of the camera control can be configured. To select the desired power, press Left-Right keys, and set the desired value. |  |  |  |
| 2       | The available options are:   |  |  |  |
|         | • 100 mW   |  |  |  |
|         | • 500mW  |  |  |  |
|         | • 1000mW   |  |  |  |

Table 3.2: Radio menu options

## 3.1.2.3 Unit

| Line no | Function  |
|---------|---|
| 1       | Unit voltage (Reading parameter):                                   |
| 1       | In this option the voltage of the unit is shown.                    |
| 2       | Device Temperature (Reading parameter):                             |
| 2       | In this option the temperature of the unit is shown.                |
|         | Maximum Temperature (Editable parameter):                           |
| 3       | In this option the maximum operation temperature can be configured. |
|         | FW Revision (Reading parameter):                                    |
| 4       | In this option the Firmware revision is shown.                      |
| 5       | Serial Number (Reading parameter):                                  |
| 3       | In this option the Serial number is shown.                          |
| 6       | OLED Bright (Editable parameter):                                   |
|         | In this option the brightness of the OLED screen can be configured. |

Table 3.4: Unit menu options



## 3.1.2.4 Alarms

In this field, the alarms of the unit are shown, if any.



## 3.2 CC-ODU Menus

## 3.2.1 Main screen

```
1 [.]: Tally:----
2 [X]:---- R:438.000M
3 [X]:---- I:412.800M
4 [X]:---- I:[ ]
```

Figure 2:CC-ODU Main screen

## 3.2.2 Main Menu

### 3.2.2.1 Radio

| Line no | Function   |  |  |  |
|---------|--|--|--|--|
|         | Frequency (eligible parameter):  |  |  |  |
| 1       | In this option the transmission frequency of the camera control can<br>be configured. To select the desired frequency, press OK, and edit<br>the desired value.      |  |  |  |
|         | RF Power (eligible parameter):   |  |  |  |
|         | In this option the transmission output power of the camera control can be configured. To select the desired power, press Left-Right keys, and set the desired value. |  |  |  |
| 2       | The available options are:   |  |  |  |
|         | • 100 mW   |  |  |  |
|         | • 500mW  |  |  |  |
|         | • 1000mW   |  |  |  |

Table 3.5: Radio menu options



## 3.2.2.2 Unit

| Line nº | Function  |  |  |
|---------|---|--|--|
| 1       | Unit voltage (Reading parameter):                                   |  |  |
| 1       | In this option the voltage of the unit is shown.                    |  |  |
| 2       | Device Temperature (Reading parameter):                             |  |  |
| 2       | In this option the temperature of the unit is shown.                |  |  |
|         | Maximum Temperature (Editable parameter):                           |  |  |
| 3       | In this option the maximum operation temperature can be configured. |  |  |
| 4       | FW Revision (Reading parameter):                                    |  |  |
| 4       | In this option the Firmware revision is shown.                      |  |  |
| 5       | Serial Number (Reading parameter):                                  |  |  |
| 5       | In this option the Serial number is shown.                          |  |  |
| 6       | OLED Bright (Editable parameter):                                   |  |  |
| U       | In this option the brightness of the OLED screen can be configured. |  |  |

Table 3.7: Unit menu options

### 3.2.2.3 Alarms

In this field, the alarms of the unit are shown, if any.



## 3.3 CC-CAMERA Menus

## 3.3.1 Main screen

|    |   |   |    | ly:None<br>.000MHz |
|----|---|---|----|--------------------|
| S: | [ | ] | S: | [ ]                |
|    |   |   |    |                    |

Figure 3:CC-CAMERA Main screen

## 3.3.2 Main Menu

## 3.3.2.1 Camera

| Line no | Function   |  |  |
|---------|--|--|--|
|         | HARD (eligible parameter):   |  |  |
|         | In this option the camera type can be configured. To select the desired camera, press Left and Right arrows. |  |  |
|         | The available options are:   |  |  |
| 1       | • Sony   |  |  |
|         | Panasonic  |  |  |
|         | Grass Valley   |  |  |
|         | • Com232   |  |  |
|         | • Com422   |  |  |
| 2       | Number (eligible parameter):   |  |  |
| 2       | In this option the number of this camera can be configured.  |  |  |

Table 3.8: Camera menu options

## 3.3.2.2 Radio

| Line no | Function  |
|---------|---|
|         | Frequency (eligible parameter):   |
| 1       | In this option the transmission frequency of the camera control can<br>be configured. To select the desired frequency, press OK, and edit<br>the desired value. |



|   | RF Power (eligible parameter):   |  |
|---|--|--|
|   | In this option the transmission output power of the camera contr<br>can be configured. To select the desired power, press Left-Rig<br>keys, and set the desired value. |  |
| 2 | The available options are:   |  |
|   | • 100 mW   |  |
|   | • 500mW  |  |
|   | • 1000mW   |  |

Table 3.9: Radio menu options

### 3.3.2.3 Unit

| Line no | Function  |
|---------|---|
| 1       | Unit voltage (Reading parameter):                                   |
| 1       | In this option the voltage of the unit is shown.                    |
| 2       | Device Temperature (Reading parameter):                             |
| 2       | In this option the temperature of the unit is shown.                |
|         | Maximum Temperature (Editable parameter):                           |
| 3       | In this option the maximum operation temperature can be configured. |
|         | FW Revision (Reading parameter):                                    |
| 4       | In this option the Firmware revision is shown.                      |
| 5       | Serial Number (Reading parameter):                                  |
| 5       | In this option the Serial number is shown.                          |
| 6       | OLED Bright (Editable parameter):                                   |
| 0       | In this option the brightness of the OLED screen can be configured. |

Table 3.11: Unit menu options

## 3.3.2.4 Alarms

In this field, the alarms of the unit are shown, if any.



# **Chapter 4: Equipment Installation**

## 4.1 Introduction

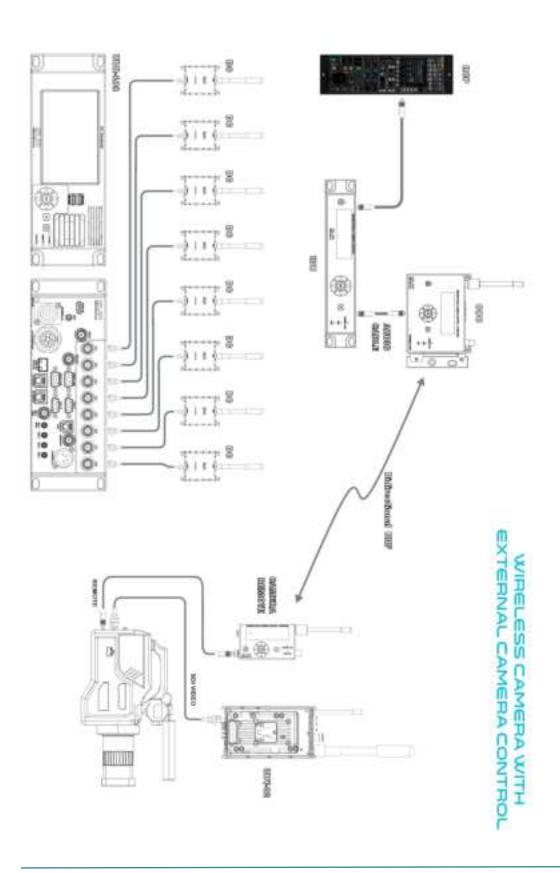
This chapter provides important information for the installation of the wireless camera system.



Figure 4:Wireless Camera System configuration



# 4.2 Installation diagram





## **4.3 Connectors**

## 4.3.1 CC-IDU



Figure 5: CC-IDU rear panel

## 4.3.1.1 Power D.C. connection

Power D.C. connection technical features

| Item            | Features          |
|-----------------|-------------------|
| Connector Label | Power D.C. 9-36 V |
| Connector Type  | XLR-4 male        |

Table 4.1: Power D.C. connection technical features

## **Power D.C. connector Pin Out**

| Pin | Label         |
|-----|---------------|
| 1   | Ground        |
| 2   | Not Connected |
| 3   | Not Connected |
| 4   | +V. DC 9-36V. |

Table 4.2: Power D.C. connector Pin-Out



#### 4.3.1.2 Data+ PoE Ethernet connection

### **Data+ PoE Ethernet connection technical features**

| Item            | Features          |
|-----------------|-------------------|
| Connector Label | Data PoE Ethernet |
| Connector Type  | RJ 45             |

Table 4.3: Data+ PoE Ethernet connection technical features

#### 4.3.1.3 Data connection

#### **Data connection technical features**

| Item            | Features   |
|-----------------|------------|
| Connector Label | Data SFP   |
| Connector Type  | SFP module |

Table 4.4: Data connection technical features

#### 4.3.1.4 Data RS485 connection

## **Data RS485 connection technical features**

| Item            | Features     |
|-----------------|--------------|
| Connector Label | Data RS485   |
| Connector Type  | XLR-3 female |

Table 4.5: Data RS485 connection technical features

## **Data RS485 connector Pin Out**

| 2444 110 100 101111111111111111111111111 |          |
|--|----------|
| Pin                                      | Label    |
| 1  | Ground   |
| 2  | Positive |
| 3  | Negative |

Table 4.6: Data RS485 connector Pin-Out

## 4.3.1.5 RCP+ PoE Ethernet connection

### **RCP+ PoE Ethernet connection technical features**

| Item            | Features          |
|-----------------|-------------------|
| Connector Label | RCP+ PoE Ethernet |
| Connector Type  | RJ 45             |

Table 4.7: RCP+ PoE Ethernet connection technical features



### 4.3.1.6 Remote connection

## **Remote Ethernet connection technical features**

| Item            | Features        |
|-----------------|-----------------|
| Connector Label | Remote Ethernet |
| Connector Type  | RJ 45           |

Table 4.8: Remote Ethernet connection technical features

## 4.3.1.7 Tally RED connection

**Tally RED connection technical features** 

| Item            | Features  |
|-----------------|-----------|
| Connector Label | Tally RED |
| Connector Type  | DB-9 male |

Table 4.9: Tally RED connection technical features

**Tally RED connector Pin Out** 

| Tally RED Connector Pill Out |               |
|------------------------------|---------------|
| Pin                          | Label         |
| 1                            | TALLY GREEN 1 |
| 2                            | TALLY GREEN 2 |
| 3                            | TALLY GREEN 3 |
| 4                            | TALLY GREEN 4 |
| 5                            | TALLY RED 1   |
| 6                            | TALLY RED 2   |
| 7                            | TALLY RED 3   |
| 8                            | TALLY RED 4   |
| 9                            | GND TALLY     |

Table 4.10: Tally RED connector Pin-Out



## 4.3.1.8 RCP 1/2/3/4 connection

## RCP 1/2/3/4 connection technical features

| Item            | Features            |
|-----------------|---------------------|
| Connector Label | RCP 1 (2, 3 or 4)   |
| Connector Type  | Hirose 8 pin (Sony) |

Table 4.11: RCP 1/2/3/4 connection technical features

## RCP 1/2/3/4 connector Pin Out

| Pin | Label           |
|-----|-----------------|
| 1   | TX (+)          |
| 2   | TX (-)          |
| 3   | RX (+)          |
| 4   | RX (-)          |
| 5   | GROUND          |
| 6   | +12V. DC OUTPUT |
| 7   | GROUND          |
| 8   | Not Connected   |
| ·   |                 |

Table 4.12: RCP 1/2/3/4 connector Pin-Out



## 4.3.2 CC-ODU



Figure 6: CC-ODU rear panel

## 4.3.2.1 Power D.C. connection

## Power D.C. connection technical features

| Item            | Features          |
|-----------------|-------------------|
| Connector Label | Power D.C. 9-36 V |
| Connector Type  | XLR-4 male        |

Table 4.13: Power D.C. connection technical features

## **Power D.C. connector Pin Out**

| Pin | Label         |
|-----|---------------|
| 1   | GROUND        |
| 2   | Not Connected |
| 3   | Not Connected |
| 4   | +V. DC 9-36V. |

Table 4.14: Power D.C. connector Pin-Out



#### 4.3.2.2 Data PoE Ethernet connection

## **Data PoE Ethernet connection technical features**

| Item            | Features          |
|-----------------|-------------------|
| Connector Label | Data PoE Ethernet |
| Connector Type  | RJ 45             |

Table 4.15: Data PoE Ethernet connection technical features

#### 4.3.2.3 Data SFP connection

## **Data SFP connection technical features**

| Item            | Features   |
|-----------------|------------|
| Connector Label | Data SFP   |
| Connector Type  | SFP module |

Table 4.16: Data SFP connection technical features

#### 4.3.2.4 Data RS485 connection

## **Data RS485 connection technical features**

| Item            | Features   |  |
|-----------------|------------|--|
| Connector Label | Data RS485 |  |
| Connector Type  | XLR-3 male |  |

Table 4.17: Data RS485 connection technical features

### **Data RS485 connector Pin Out**

| Pin | Label    |
|-----|----------|
| 1   | GROUND   |
| 2   | POSITIVE |
| 3   | NEGATIVE |

Table 4.18: Data RS485 connector Pin-Out

### 4.3.2.5 Remote Antenna Connector

## **Remote Antenna Connector technical features**

| Item            | Features   |
|-----------------|------------|
| Connector Label | Remote     |
| Connector Type  | SMA Female |

Table 4.21:Remote antenna connection technical features



## 4.3.3 CC-CAMERA



Figure 7: CC-CAMERA rear panel

## 4.3.3.1 Remote Serial connection

## **Remote Serial connection technical features**

| Item            | Features      |
|-----------------|---------------|
| Connector Label | Remote Serial |
| Connector Type  | Hirosi 8 pin  |

Table 4.23: Remote Serial connection technical features

## **Remote Serial connector Pin Out**

| Pin         | Label          |
|-------------|----------------|
| 1           | TX(+)          |
| 2           | TX (-)         |
| 3           | RX (+)         |
| 4           | RX (-)         |
| 5           | GROUND         |
| 6           | +12V. DC INPUT |
| 7           | GROUND         |
| 8           | Not Connected  |
| T 11 4 24 B |                |

Table 4.24: Remote Serial connector Pin-Out

### 4.3.3.2 Remote IP connection

## **Remote IP connection technical features**

| Item            | Features  |
|-----------------|-----------|
| Connector Label | Remote IP |
| Connector Type  | RJ 45     |

Table 4.25: Remote connection technical features



### 4.3.3.3 Tally connection

Tally connection technical features

| Item            | Features   |
|-----------------|------------|
| Connector Label | Tally      |
| Connector Type  | Lemo 7 pin |

Table 4.26: Tally connection technical features

**Tally connector Pin Out** 

| Pin | Label                |
|-----|----------------------|
| 1   | GROUND               |
| 5   | +3,3V. For Tally Led |
| 6   | TALLY GREEN          |
| 7   | TALLY RED            |

Table 4.27: Tally connector Pin-Out

Following is an example of the external Tally circuit that has to be connecter to Lemo 7 pins connector to get Tally RED and GREEN led signal.

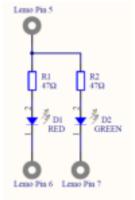


Figure 8: Tally circuit

#### 4.3.3.4 Remote Antenna Connector

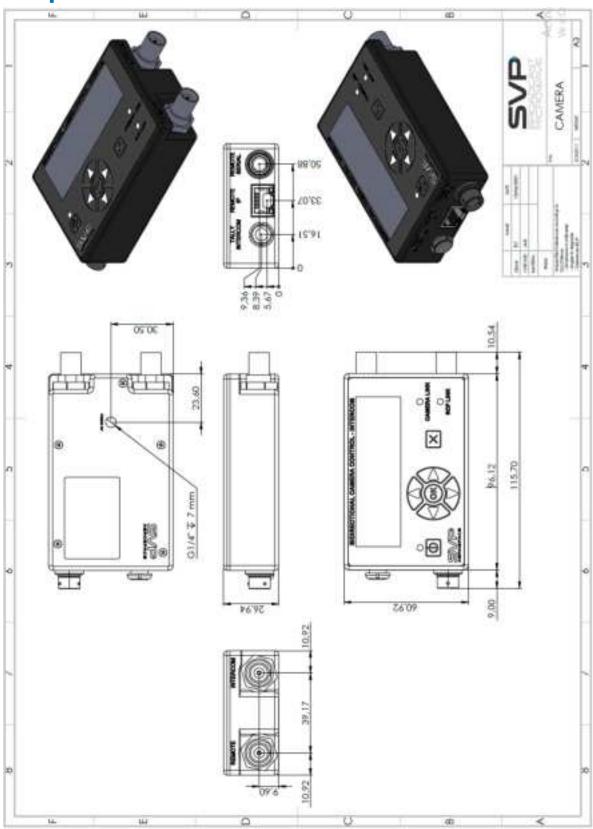
#### **Remote Antenna Connector technical features**

| Item            | Features   |
|-----------------|------------|
| Connector Label | Remote     |
| Connector Type  | SMA Female |

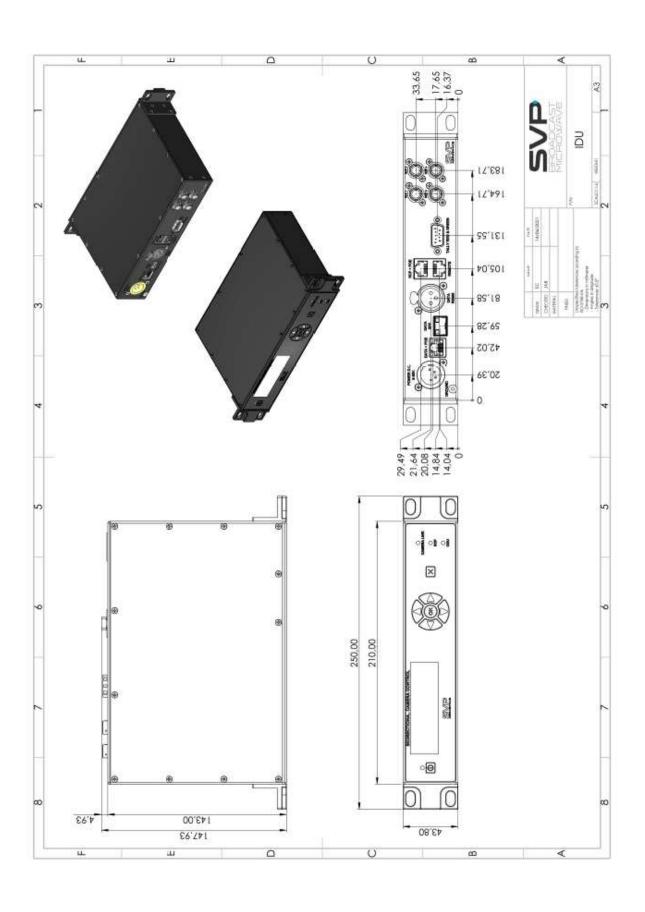
Table 4.28: Remote antenna connection technical features



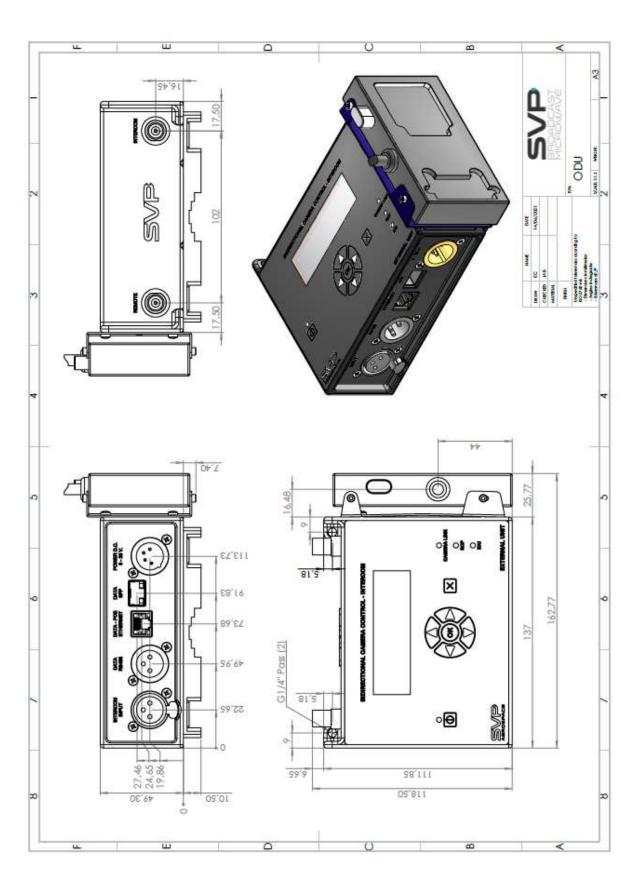
# **Chapter 5: Mechanical Dimensions**













# Glossary

| ASI  | Asynchronous Serial Interface |
|------|-------------------------------|
| BNC  | Bayonet Neill-Concelman       |
| BR   | BitRate                       |
| DC   | Direct current                |
| GPS  | Global Positioning System     |
| HD   | High Definition               |
| IP   | Internet Protocol             |
| LED  | Light-Emitting Diode          |
| LD   | Low Delay                     |
| MPEG | Moving Picture Experts Group  |
| PAL  | PAL                           |
| PID  | Packet Identification         |
| PPT  | Push to Talk                  |
| SD   | Standard Delay                |
| SDI  | Serial Digital Interface      |



| TS  | Transport Stream       |
|-----|------------------------|
| UDP | User Datagram Protocol |

# **Notes**



## **Final note**

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