

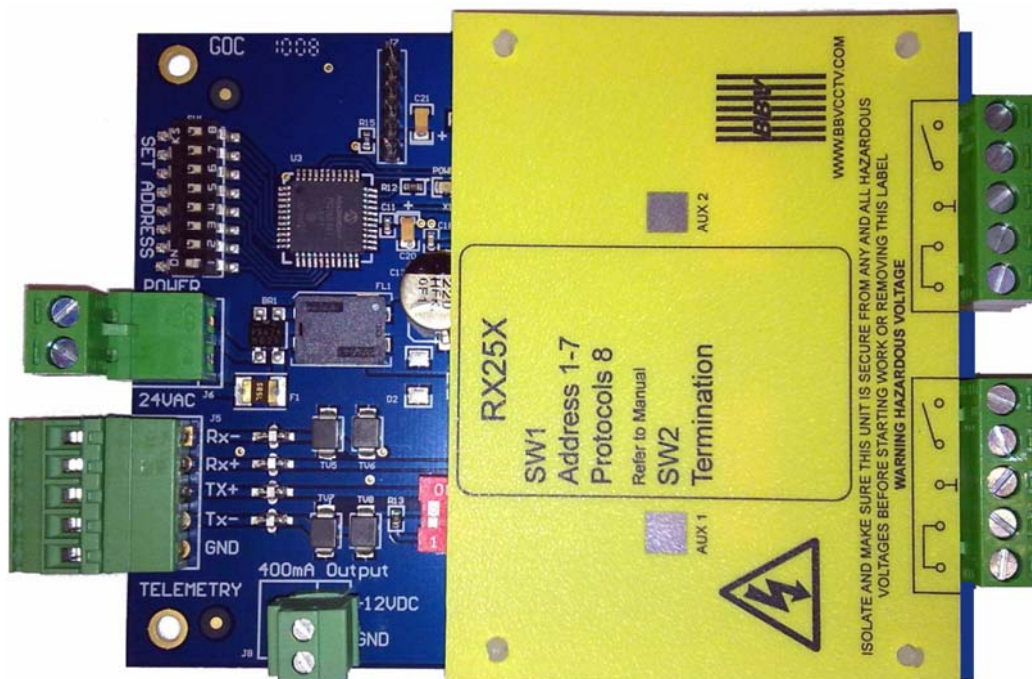


# RX25X

## Multiple Protocol Auxiliary Relay Receiver



# Installation Guide



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# IMPORTANT

## Before you install:

*Please read the following points before servicing or installing any telemetry receiver.*

**Pre-installation checks** - It is recommended that the unit be bench tested prior to installation on the site.

**Safety during installation or servicing** - Particular care should be taken to isolate the pan/tilt head in order to prevent operation while engineering work is being carried out. In addition any ladder or other means of working on the receiver **MUST NOT** rest on the pan/tilt head as it is possible for the head to move when not expected.

**Safety check** - Upon completion of any service or repairs to the unit, safety checks should be performed to ensure that the unit is in proper operating condition.

**Adhere to safety standards** - All normal safety precautions as laid down by British Standards and the Health and Safety at Work Act should be observed.

**WARNING** - TO PREVENT DANGER OF FIRE OR SHOCK, DO NOT EXPOSE THE INTERNAL COMPONENTS OF THIS EQUIPMENT TO RAIN OR MOISTURE.

**Damage requiring service** - Servicing by qualified personnel should be carried out under the following conditions:

- (a) When the power supply cord or plug is damaged;
- (b) If liquid has been spilled or objects have fallen into the unit;
- (c) If the internal electronics of the unit have been exposed to rain or water;
- (d) If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage;
- (e) If the unit has been dropped or the enclosure is damaged;
- (f) If the unit exhibits a distinct change in performance. This indicates a need for service.

**Replacement parts** - If replacement parts are required, ensure that only replacement parts recommended by the product manufacturer are used.

## **INTRODUCTION**

### **GENERAL**

The RX25X telemetry interface is designed to allow control of two auxiliaries. The PCB can be mounted into an IP67 rated polycarbonate external weatherproof enclosure or into the camera housing.

### **TECHNICAL SPECIFICATION**

**Power Requirements:** 24VAC

**Current Consumption:** 600mA maximum

**Features:**

- Multiple telemetry protocols available
- Supports 128 addresses (Protocol depending)
- Two Volts free N/O contacts
- Single PCB construction.
- Serial data input 2 wire RS485
- Serial data input 4 wire RS422
- 12Vdc 400mA Camera supply

**Engineering Facilities:**

- Simple test mode (RS422 telemetry loop back required)
- Power/Data received LED
- Two LEDs indicating relay status

**Dimensions:**

Length	113mm
Width	87mm
Height	22mm

**Weight** 180 grams

**Temperature range:** -10° Celsius to +40° Celsius

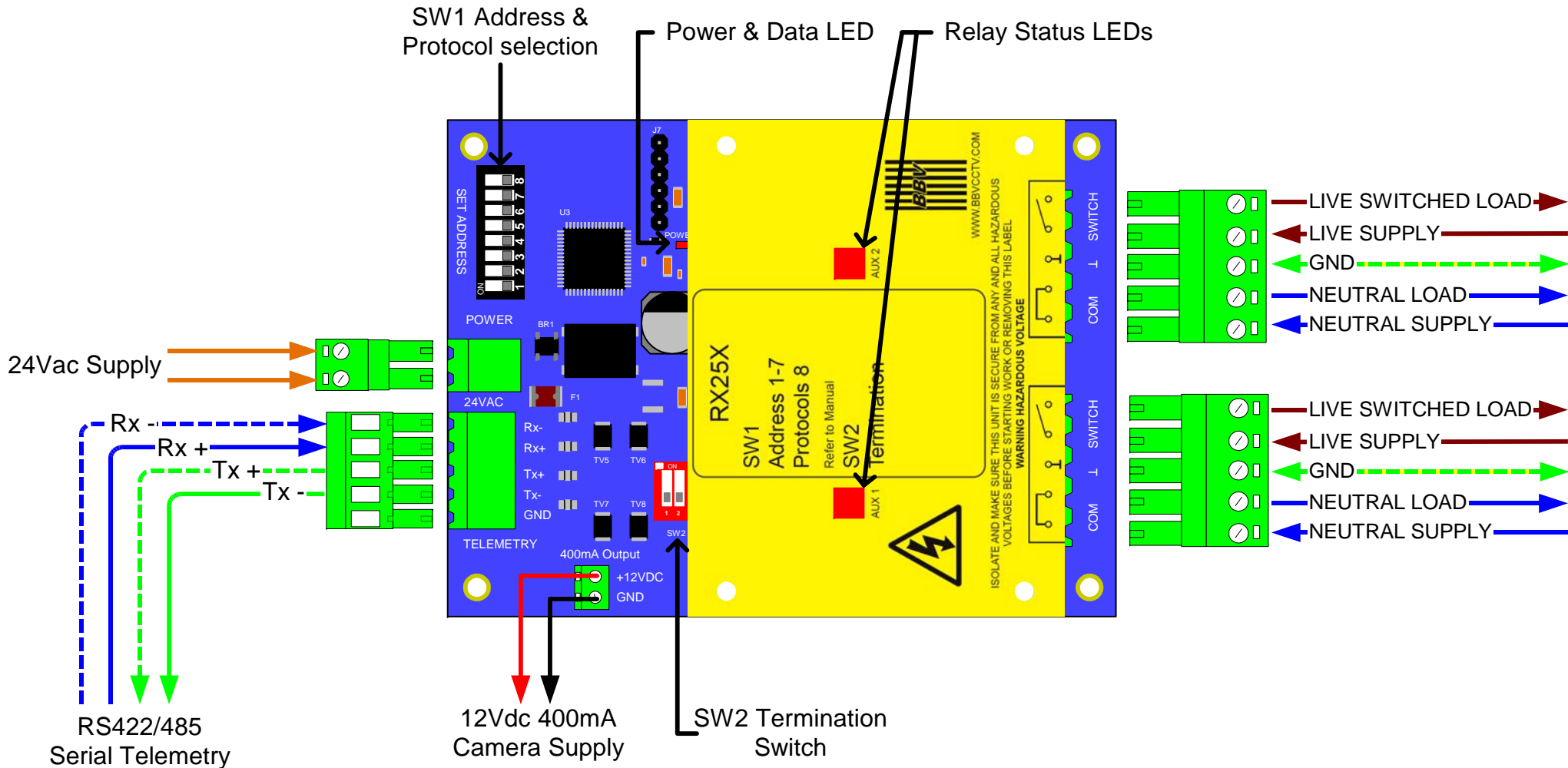
## UNPACKING

Inspect the packaging for signs of damage. If damage has occurred, advise the carriers and/or the suppliers immediately. Unpack the receiver carefully and check that all the items are present and correct.

Part number	Description	RX25X PCB	2 x 5 Way Green IMO (5.08 mm pitch)	1 x 5 Way Green IMO (3.81 mm pitch)	1 x 2 Way Green IMO (5.08 mm pitch)	1 x 1 Way Green IMO (3.81 mm pitch)	Mounting Kit	Manual	Warranty card
RX25X	Multiple Protocol Auxiliary Relay Receiver	X	X	X	X	X	X	X	X

## Receiver Wiring Diagram

The receiver comprises of 1 printed circuit board to be mounted into an IP67 rated polycarbonate external weatherproof enclosure or into the camera housing. The board contains the power supply and output connectors for the auxiliary outputs.



**Disconnect power BEFORE connecting and disconnecting wires.**

## Supported Protocols

The RX25X is designed to work with one of the protocol library below:

Protocol	Data speeds supported
BBV RS422	9600 N 8 1
Pelco P	2400, 4800 & 9600 N 8 1
Pelco D	2400, 4800 & 9600 N 8 1
Sensormatic RS422	4800 N 8 2
Molynx D-Type (RS485)	9600 E 8 1

## Supported Functions

The Auxiliary Functions available are limited by the protocol & the implementation of the protocol within the control equipment, Please refer to the manufacturer. Below is a table showing the systems that the RX25X has been tested on:

<b>Keyboard</b> Protocol Type	Key Press	Function
<b>BBV TX400DC/RS485</b> BBV RS422 / Pelco P @ 9600	Lights	Switch Aux 1
	Wiper	Switch Aux 2
<b>Pelco KBD 300A</b> Pelco P @ 4800	01 Aux ON / OFF	Switch Aux 1
	02 Aux ON / OFF	Switch Aux 2
<b>Pelco KBD 300</b> Pelco D @ 9600	01 Aux ON / OFF	Switch Aux 1
	02 Aux ON / OFF	Switch Aux 2
<b>American Dynamics 2083</b> Sensormatic RS422 @ 4800	01 Aux ON / OFF	Switch Aux 1
	02 Aux ON / OFF	Switch Aux 2
<b>Siemens / Molynx Visilyn 3i</b> Molynx D-TYPE RS485	Wash	Switch Aux 1
	Wiper	Switch Aux 2

# Protocol Setting Procedure

To set the input protocol of the RX25X Receiver.

1. Set the relevant input protocol dipswitch ON (Refer to table below)



1, 2 & 3 on for Pelco D @ 2400

2. Set dipswitch 1/8 ON



This programs the receiver to the selected protocol

3. Set dipswitch 1/8 OFF



The receiver is now set for Pelco D @ 2400

4. Return all dipswitches to OFF

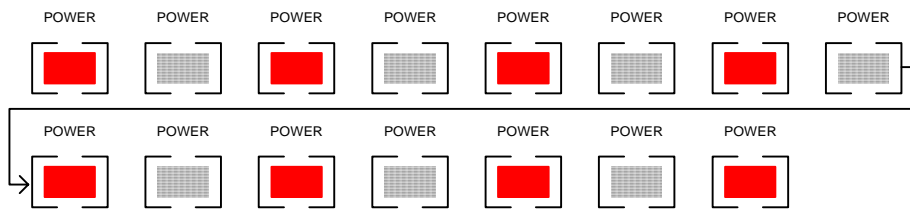


5. Set dipswitch 1 for the required camera address



The receiver is now set for: - Pelco D @ 2400  
- Address 3

6. The Power / Data LED will flash, with respect to the protocol number



## Protocol Address Table

Protocol	Number	SW1	SW2	SW3	SW4	SW5	SW6	SW7
Factory Test Mode	0	OFF	OFF	OFF	OFF	OFF	OFF	OFF
BBV RS422 @ 9600	1	ON	OFF	OFF	OFF	OFF	OFF	OFF
Pelco P @ 9600	2	OFF	ON	OFF	OFF	OFF	OFF	OFF
Pelco P @ 4800	3	ON	ON	OFF	OFF	OFF	OFF	OFF
Pelco P @ 2400	4	OFF	OFF	ON	OFF	OFF	OFF	OFF
Pelco D @ 9600	5	ON	OFF	ON	OFF	OFF	OFF	OFF
Pelco D @ 4800	6	OFF	ON	ON	OFF	OFF	OFF	OFF
Pelco D @ 2400	7	ON	ON	ON	OFF	OFF	OFF	OFF
Sensormatic @ 4800	8	OFF	OFF	OFF	ON	OFF	OFF	OFF
Molynx D-Type (RS485)	9	ON	OFF	OFF	ON	OFF	OFF	OFF

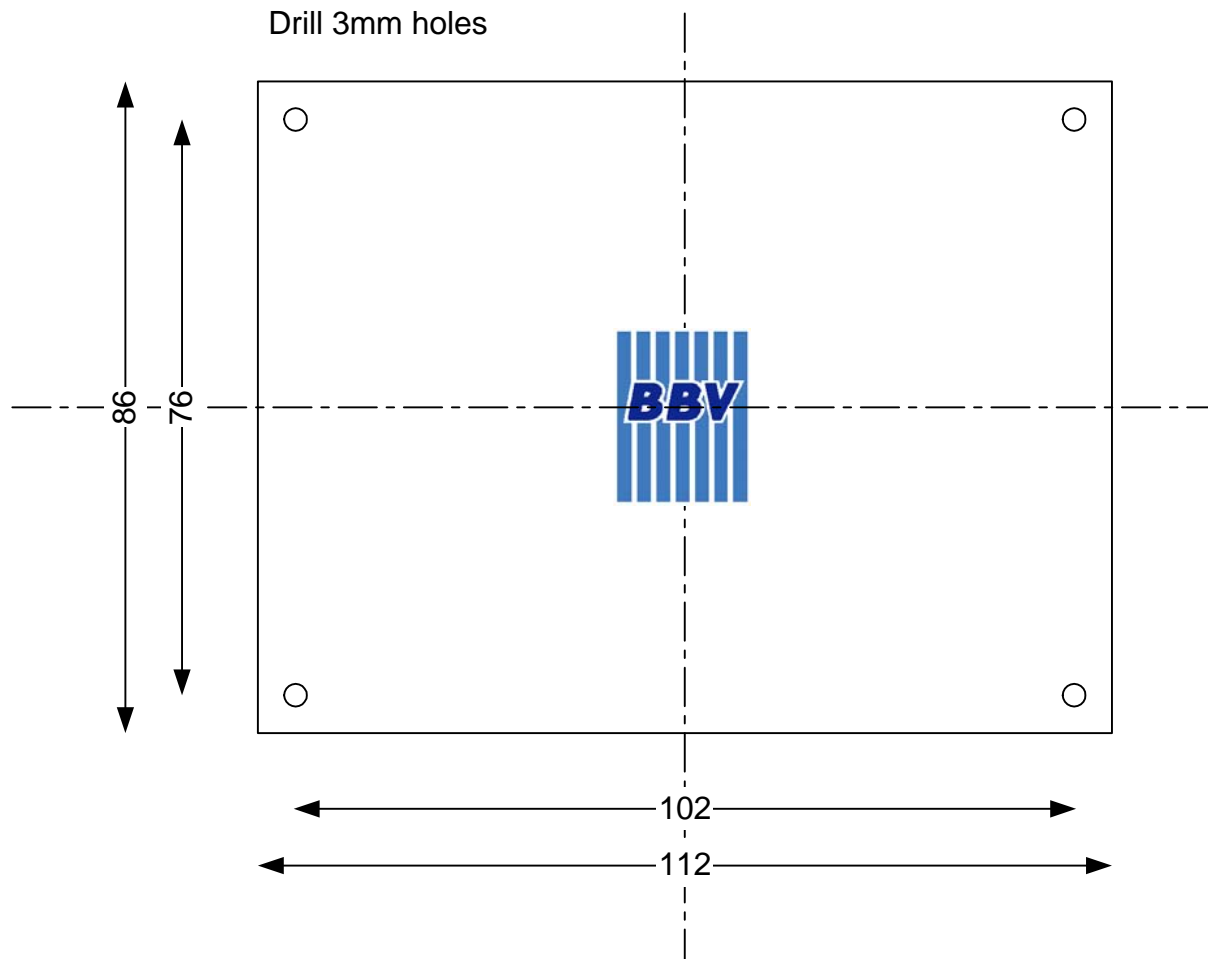
# Receiver Address Table

The number of camera addresses is limited by the protocol

Camera address selection SW1 the address is the sum of switch values when switches ON + 1								
	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	
Camera Address	1	2	4	8	16	32	64	Camera Address
1.	OFF	OFF	OFF	OFF	OFF	OFF	OFF	1.
2.	ON	OFF	OFF	OFF	OFF	OFF	OFF	2.
3.	OFF	ON	OFF	OFF	OFF	OFF	OFF	3.
4.	ON	ON	OFF	OFF	OFF	OFF	OFF	4.
5.	OFF	OFF	ON	OFF	OFF	OFF	OFF	5.
6.	ON	OFF	ON	OFF	OFF	OFF	OFF	6.
7.	OFF	ON	ON	OFF	OFF	OFF	OFF	7.
8.	ON	ON	ON	OFF	OFF	OFF	OFF	8.
9.	OFF	OFF	OFF	ON	OFF	OFF	OFF	9.
10.	ON	OFF	OFF	ON	OFF	OFF	OFF	10.
11.	OFF	ON	OFF	ON	OFF	OFF	OFF	11.
12.	ON	ON	OFF	ON	OFF	OFF	OFF	12.
13.	OFF	OFF	ON	ON	OFF	OFF	OFF	13.
14.	ON	OFF	ON	ON	OFF	OFF	OFF	14.
15.	OFF	ON	ON	ON	OFF	OFF	OFF	15.
16.	ON	ON	ON	ON	OFF	OFF	OFF	16.
17.	OFF	OFF	OFF	OFF	ON	OFF	OFF	17.
18.	ON	OFF	OFF	OFF	ON	OFF	OFF	18.
19.	OFF	ON	OFF	OFF	ON	OFF	OFF	19.
20.	ON	ON	OFF	OFF	ON	OFF	OFF	20.
21.	OFF	OFF	ON	OFF	ON	OFF	OFF	21.
22.	ON	OFF	ON	OFF	ON	OFF	OFF	22.
23.	OFF	ON	ON	OFF	ON	OFF	OFF	23.
24.	ON	ON	ON	OFF	ON	OFF	OFF	24.
25.	OFF	OFF	OFF	ON	ON	OFF	OFF	25.
26.	ON	OFF	OFF	ON	ON	OFF	OFF	26.
27.	OFF	ON	OFF	ON	ON	OFF	OFF	27.
28.	ON	ON	OFF	ON	ON	OFF	OFF	28.
29.	OFF	OFF	ON	ON	ON	OFF	OFF	29.
30.	ON	OFF	ON	ON	ON	OFF	OFF	30.
31.	OFF	ON	ON	ON	ON	OFF	OFF	31.
32.	ON	ON	ON	ON	ON	OFF	OFF	32.
33.	OFF	OFF	OFF	OFF	OFF	ON	OFF	33.
34.	ON	OFF	OFF	OFF	OFF	ON	OFF	34.
35.	OFF	ON	OFF	OFF	OFF	ON	OFF	35.
36.	ON	ON	OFF	OFF	OFF	ON	OFF	36.
37.	OFF	OFF	ON	OFF	OFF	ON	OFF	37.
38.	ON	OFF	ON	OFF	OFF	ON	OFF	38.
39.	OFF	ON	ON	OFF	OFF	ON	OFF	39.
40.	ON	ON	ON	OFF	OFF	ON	OFF	40.
41.	OFF	OFF	OFF	ON	OFF	ON	OFF	41.
42.	ON	OFF	OFF	ON	OFF	ON	OFF	42.
43.	OFF	ON	OFF	ON	OFF	ON	OFF	43.
44.	ON	ON	OFF	ON	OFF	ON	OFF	44.
45.	OFF	OFF	ON	ON	OFF	ON	OFF	45.
46.	ON	OFF	ON	ON	OFF	ON	OFF	46.
47.	OFF	ON	ON	ON	OFF	ON	OFF	47.
48.	ON	ON	ON	ON	OFF	ON	OFF	48.
49.	OFF	OFF	OFF	OFF	ON	ON	OFF	49.
50.	ON	OFF	OFF	OFF	ON	ON	OFF	50.
51.	OFF	ON	OFF	OFF	ON	ON	OFF	51.
52.	ON	ON	OFF	OFF	ON	ON	OFF	52.
53.	OFF	OFF	ON	OFF	ON	ON	OFF	53.
54.	ON	OFF	ON	OFF	ON	ON	OFF	54.
55.	OFF	ON	ON	OFF	ON	ON	OFF	55.
56.	ON	ON	ON	OFF	ON	ON	OFF	56.
57.	OFF	OFF	OFF	ON	ON	ON	OFF	57.
58.	ON	OFF	OFF	ON	ON	ON	OFF	58.
59.	OFF	ON	OFF	ON	ON	ON	OFF	59.
60.	ON	ON	OFF	ON	ON	ON	OFF	60.

61.	OFF	OFF	ON	ON	ON	ON	OFF	61.
62.	ON	OFF	ON	ON	ON	ON	OFF	62.
63.	OFF	ON	ON	ON	ON	ON	OFF	63.
64.	ON	ON	ON	ON	ON	ON	OFF	64.
65.	OFF	OFF	OFF	OFF	OFF	OFF	ON	65.
66.	ON	OFF	OFF	OFF	OFF	OFF	ON	66.
67.	OFF	ON	OFF	OFF	OFF	OFF	ON	67.
68.	ON	ON	OFF	OFF	OFF	OFF	ON	68.
69.	OFF	OFF	ON	OFF	OFF	OFF	ON	69.
70.	ON	OFF	ON	OFF	OFF	OFF	ON	70.
71.	OFF	ON	ON	OFF	OFF	OFF	ON	71.
72.	ON	ON	ON	OFF	OFF	OFF	ON	72.
73.	OFF	OFF	OFF	ON	OFF	OFF	ON	73.
74.	ON	OFF	OFF	ON	OFF	OFF	ON	74.
75.	OFF	ON	OFF	ON	OFF	OFF	ON	75.
76.	ON	ON	OFF	ON	OFF	OFF	ON	76.
77.	OFF	OFF	ON	ON	OFF	OFF	ON	77.
78.	ON	OFF	ON	ON	OFF	OFF	ON	78.
79.	OFF	ON	ON	ON	OFF	OFF	ON	79.
80.	ON	ON	ON	ON	OFF	OFF	ON	80.
81.	OFF	OFF	OFF	OFF	ON	OFF	ON	81.
82.	ON	OFF	OFF	OFF	ON	OFF	ON	82.
83.	OFF	ON	OFF	OFF	ON	OFF	ON	83.
84.	ON	ON	OFF	OFF	ON	OFF	ON	84.
85.	OFF	OFF	ON	OFF	ON	OFF	ON	85.
86.	ON	OFF	ON	OFF	ON	OFF	ON	86.
87.	OFF	ON	ON	OFF	ON	OFF	ON	87.
88.	ON	ON	ON	OFF	ON	OFF	ON	88.
89.	OFF	OFF	OFF	ON	ON	OFF	ON	89.
90.	ON	OFF	OFF	ON	ON	OFF	ON	90.
91.	OFF	ON	OFF	ON	ON	OFF	ON	91.
92.	ON	ON	OFF	ON	ON	OFF	ON	92.
93.	OFF	OFF	ON	ON	ON	OFF	ON	93.
94.	ON	OFF	ON	ON	ON	OFF	ON	94.
95.	OFF	ON	ON	ON	ON	OFF	ON	95.
96.	ON	ON	ON	ON	ON	OFF	ON	96.
97.	OFF	OFF	OFF	OFF	OFF	ON	ON	97.
98.	ON	OFF	OFF	OFF	OFF	ON	ON	98.
99.	OFF	ON	OFF	OFF	OFF	ON	ON	99.
100.	ON	ON	OFF	OFF	OFF	ON	ON	100.
101.	OFF	OFF	ON	OFF	OFF	ON	ON	101.
102.	ON	OFF	ON	OFF	OFF	ON	ON	102.
103.	OFF	ON	ON	OFF	OFF	ON	ON	103.
104.	ON	ON	ON	OFF	OFF	ON	ON	104.
105.	OFF	OFF	OFF	ON	OFF	ON	ON	105.
106.	ON	OFF	OFF	ON	OFF	ON	ON	106.
107.	OFF	ON	OFF	ON	OFF	ON	ON	107.
108.	ON	ON	OFF	ON	OFF	ON	ON	108.
109.	OFF	OFF	ON	ON	OFF	ON	ON	109.
110.	ON	OFF	ON	ON	OFF	ON	ON	110.
111.	OFF	ON	ON	ON	OFF	ON	ON	111.
112.	ON	ON	ON	ON	OFF	ON	ON	112.
113.	OFF	OFF	OFF	OFF	ON	ON	ON	113.
114.	ON	OFF	OFF	OFF	ON	ON	ON	114.
115.	OFF	ON	OFF	OFF	ON	ON	ON	115.
116.	ON	ON	OFF	OFF	ON	ON	ON	116.
117.	OFF	OFF	ON	OFF	ON	ON	ON	117.
118.	ON	OFF	ON	OFF	ON	ON	ON	118.
119.	OFF	ON	ON	OFF	ON	ON	ON	119.
120.	ON	ON	ON	OFF	ON	ON	ON	120.
121.	OFF	OFF	OFF	ON	ON	ON	ON	121.
122.	ON	OFF	OFF	ON	ON	ON	ON	122.
123.	OFF	ON	OFF	ON	ON	ON	ON	123.
124.	ON	ON	OFF	ON	ON	ON	ON	124.
125.	OFF	OFF	ON	ON	ON	ON	ON	125.
126.	ON	OFF	ON	ON	ON	ON	ON	126.
127.	OFF	ON	ON	ON	ON	ON	ON	127.
128.	ON	ON	ON	ON	ON	ON	ON	128.

# Metal Work Drilling Sheet









As of the 1<sup>st</sup> September 2008 BBV have offered our customers the opportunity to extend the standard 12 month warranty to 3 years.


You must register for the extended warranty within 12 months of the date of manufacture.

### How to register for the 3 year warranty

Registering for the new, longer 3 year warranty term is quick and easy.

Either:

Complete the warranty application card that comes in the box with your BBV product, and return it FREEPOST to BBV:

 **BBV 3 Year Warranty**

If this card is returned with the serial number of the product and the Installation company details BBV will extend the warranty period from 12 Months to 36 Months.



Number of Units,  Start Serial No.  Final Serial No.

Contact Name \_\_\_\_\_  
Company Name \_\_\_\_\_

Phone Number \_\_\_\_\_  
Site Name \_\_\_\_\_

Address 1 \_\_\_\_\_  
Address 2 \_\_\_\_\_  
Address 3 \_\_\_\_\_  
Post Code \_\_\_\_\_  
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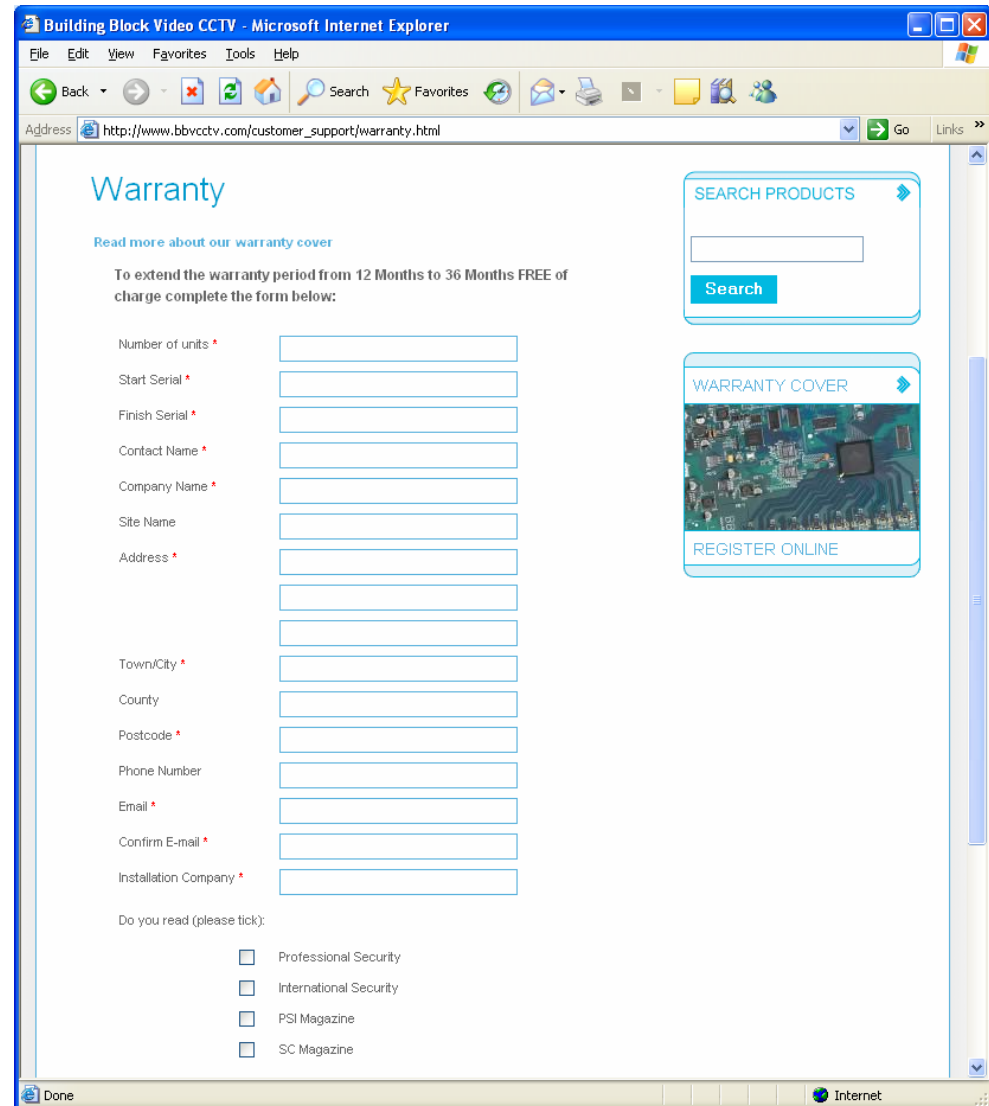
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Address: [http://www.bbvctv.com/customer\\_support/warranty.html](http://www.bbvctv.com/customer_support/warranty.html)

## Warranty

Read more about our warranty cover

To extend the warranty period from 12 Months to 36 Months FREE of charge complete the form below:

Number of units \*

Start Serial \*

Finish Serial \*

Contact Name \*

Company Name \*

Site Name

Address \*

Town/City \*

County

Postcode \*

Phone Number

Email \*

Confirm E-mail \*

Installation Company \*

Do you read (please tick):

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International Security

PSI Magazine

SC Magazine

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WARRANTY COVER

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