



## BBV RX55x Response protocol V1 Mar 08



Building Block Video Ltd.,  
17 Apex Park,  
Diplocks Industrial Estate,  
Hailsham, East Sussex, BN27 3JU UK.  
Tel: +44(0)1323 842727  
Fax: +44(0)1323 842728  
Support: +44(0)1323 444600  
[www.bbvcctv.com](http://www.bbvcctv.com)

# BBV RX55x Response

Communication settings are 9600,N,8,1 via RS422 transmission.

0xB0,  
ADDRESS,  
PAN\_HIGH, (bits 9,8,7)  
PAN\_LOW, (bits 6 – 0)  
TILT\_HIGH, (bits 9,8,7)  
TILT\_LOW, (bits 6 – 0)  
ZOOM\_HIGH, (bits 9,8,7)  
ZOOM\_LOW, (bits 6 – 0)  
FOCUS\_HIGH, (bits 9,8,7)  
FOCUS\_LOW, (bits 6 – 0)  
COMMAND\_BYTE,  
0xBF,  
CHECKSUM,

## COMMAND BYTE

B7	B6	B5	B4	B3	B2	B1	B0
0	0	0	0	?	?	?	?

All Bits are 1 if active and 0 if inactive

B0:       AUTOPAN  
B1:       LIGHTS  
B2:       WASH  
B3:       WIPE  
B4:       X2  
B5:       PATROL



## Other BBV products.

Product	Description
<b>TX300</b>	Single camera desktop telemetry transmitter with BBV up-the-coax & 20mA telemetry, Pan/Tilt/Lens & Lights
<b>TX400</b>	As TX300 inc Wash, Wipe, Autopan, 8 presets, preset patrol.
<b>TX400DC</b>	As TX400 including joystick for proportional Pan/Tilt control.
<b>TX1000 MK2</b>	8 or 16 camera, 2 monitor telemetry transmitter. Up to 2 keyboards. BBV up-the-coax and RS422 standard with options for alarm inputs and 20mA telemetry.
<b>TX1500</b>	Mid size matrix 16 – 96 camera, 8 monitor. Up to 4 control positions (keyboard & remote control) options for alarms, remote control, BBV up-the-coax and RS485 telemetry.
<b>FBM range</b>	Large size matrix. Configurable up to 4096 cameras and 64 monitor outputs. Up to 8 control positions (keyboard & remote control) options for alarms, remote control RS485 telemetry with various options. Please call to discuss requirements.
<b>RX100</b>	Dome Interface with options to drive a large library of dome cameras. BBV up-the-coax and 20mA telemetry.
<b>RX200</b>	AC receiver for Pan only heads or static cameras, Wash/Wipe/Lights. BBV up-the-coax and 20mA telemetry.
<b>RX300</b>	AC receiver for Pan/Tilt/Zoom/Focus/Iris Override and 1 Auxiliary output. BBV up-the-coax and 20mA telemetry.
<b>RX400P</b>	AC full function receiver. PTZFI 4 Auxiliary outputs, 16 presets. BBV up-the-coax and 20mA telemetry.
<b>RX400DC</b>	24Vdc high/variable speed receiver. 16 presets, 8 local alarm inputs, 3 Auxiliary outputs. BBV up-the-coax and 20mA telemetry.
<b>RX45X (AC)</b> <b>RX55X (DC)</b>  Multi RS485 protocol and BBV up-the-coax telemetry receivers	Multiple RS485/422 and BBV up-the-coax controllable AC and DC receivers. These receivers are controlled from an expanding range of serial protocols as listed below. 110/230Vac supply. PTZFI, 64 presets, preset patrol, 8 local alarm inputs, 12V 500mA supply output. OSD for remote diagnostics. 3 Aux. outputs RX55X or 4 Aux. outputs RX45X. Optional Privacy board. BBV RS485, COAX & 20mA, BAXALL COAX, DENNARD RS485, MOLYNX PELCO P/D RS485, VCL/HONEYWELL RS485, PHILIPS/BOSCH RS485 (OPTIONAL BI-PHASE INPUT), SENSORMATIC/AD RS422 VICON RS422 CIRRUS AUDIO MONITORING
<b>STARCARD</b> STARCARD/CONVERTER	8 * RS485 output, 2 wire simplex RS422, 4 wire full-duplex RS422, 2 wire half-duplex RS485. Optional STARCARD/CONVERTER offering protocol conversion to drive an increasing range of 3 <sup>rd</sup> party protocols.
<b>ACCESSORIES</b>	CTI/16 16 camera, RS422 to up-the-coax converter TxLD (bidirectional RS422-RS232 converter) 98005 (bidirectional 20mA-RS232 converter) AD RS422 (American Dynamics) protocol converters