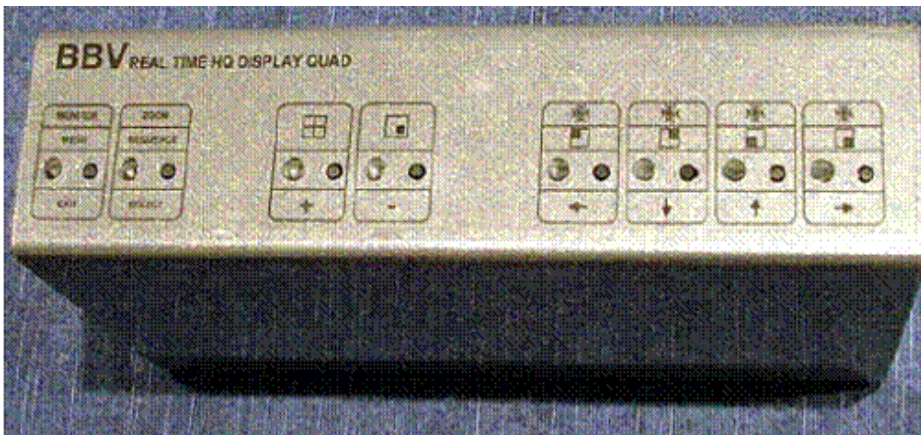




BBV

REAL TIME HQ DISPLAY QUAD MANUAL



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PRE-INSTALLATION CHECKS AND SAFETY PROCEDURES

Unpacking - Inspect the packaging for signs of damage. If damage has occurred, advise the carrier and/or the suppliers immediately. Unpack the Quad carefully and check that all the items are present and correct (see checklist on box). If any item is missing contact the supplier.

Retain Packaging - The shipping carton is the safest container in which to transport the unit. Retain undamaged packaging for possible future use.

IMPORTANT SAFETY PRECAUTIONS

Read & Retain Instructions - All relevant safety, installation and operating instructions should be read & retained before attempting to install, connect or operate the unit.

Water and Moisture - Do not expose the internal electronics of this unit to water or dampness.

Power Sources - This unit should be operated only from the supplied power supply.

Servicing - Servicing of the unit should only be undertaken by qualified service personnel.

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.
- (e) If the unit has been dropped or the enclosure is damaged;

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

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.

Coax Grounding - If an outside cable system is connected to the unit, be sure the cable system is grounded.

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

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.

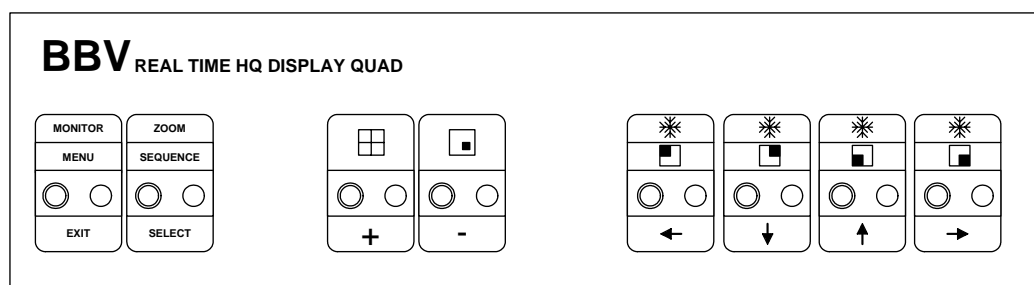
WARNING

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

Technical Specification

- Power supply:** 9 to 12 Volt DC 500mA
- Dimensions:** 205 x 110 x 55 mm. Plastic case
- Weight:** 0.600Kg Including PSU
- Facilities:** Menu adjustable Gain / Hue / Contrast for each video input.
On screen Alarm / Motion display.
Time and Date display.
Selectable video display options Quad / Full / PIP.
- Video inputs:** 4 x (1v p-p 75ohm terminated via BNC socket).
Auto detection of PAL or NTSC video sources.
- Video outputs:** 4 x Direct input auto terminating loop outputs.
1 x Selectable analogue output (1v p-p 75ohm terminated via BNC socket).
1 x Digital quad output (1v p-p 75ohm terminated via BNC socket) PAL or NTSC.
- Zoom:** 2 to 4 times digital zoom.
- Alarm inputs:** 4 x Programmable normally open / normally closed low voltage remote alarm inputs.
- Alarm outputs:** 1 x normally open or normally closed low voltage contacts. 2A @ 30VAC
- Motion detection:** Fully programmable Motion area and control options.
- Remote Input:** RS422 serial interface used for remote control of the quad.
- Display Rate:** 30 Frames per second in NTSC / 25 Frames per second in PAL.
- Resolution:** **Quad mode** NTSC 360 x 120 pixels x 2 fields 1 CIF.
PAL 360 x 144 pixels x 2 fields 1 CIF.
Full mode NTSC 720 x 240 pixels x 2 fields 4 CIF.
PAL 720 x 288 pixels x 2 fields 4 CIF.
- Video Standards:** NTSC - 525 lines 60 fields / sec.
PAL - 625 lines 50 fields / sec.

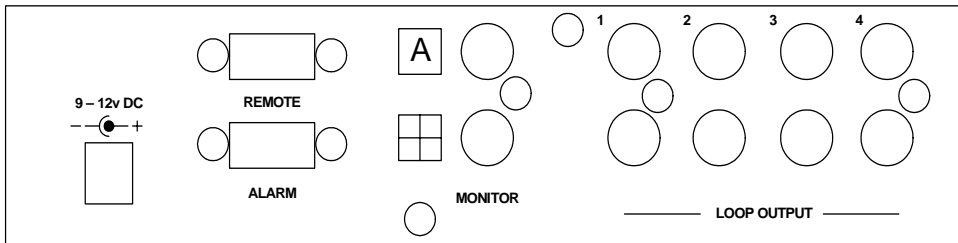
1. FRONT: Buttons



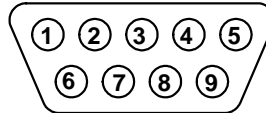
	QUAD	FULL	PIP	ZOOM	MENU
1: Press	Toggle Monitor	Toggle Monitor	Toggle Monitor		EXIT
Hold	MENU	MENU	MENU		EXIT
2: Press	ZOOM ON	ZOOM ON		ZOOM OFF	SELECT
Hold	Sequence	Sequence	Sequence	ZOOM OFF	SELECT
3: Press	QUAD	QUAD	QUAD	ZOOM OUT	Value Up
Hold				ZOOM OUT	Value Up
4: Press	PIP ON	PIP ON	PIP OFF	ZOOM IN	Value Down
Hold				ZOOM IN	Value Down
5: Press	Freeze ch1	Full ch1	PIP ch1	←	←
Hold	Full ch1	Full ch1	Full ch1	←	←
6: Press	Freeze ch2	Full ch2	PIP ch2	↓	↓
Hold	Full ch2	Full ch2	Full ch2	↓	↓
7: Press	Freeze ch3	Full ch3	PIP ch3	↑	↑
Hold	Full ch3	Full ch3	Full ch3	↑	↑
8: Press	Freeze ch4	Full ch4	PIP ch4	→	→
Hold	Full ch4	Full ch4	Full ch4	→	→

- Channel select in full mode: Push the current channel button, the current channel will be frozen and push the other button, the current channel will change to the selected channel.
- Factory reset: Power on holding buttons 7 & 8, all settings and values will be reset.
- PAL/NTSC: Monitor output format is dependant on the video signal on camera1 input.

2. BACK: Connections

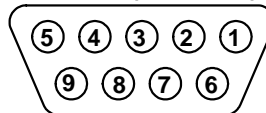


- 1) VIDEO INPUT ch1 ~ ch4 : Video Source Input
- 2) LOOP OUT : Input Video Loop Output
- 3) ANALOGUE : Switched Analogue Output
- 4) DIGITAL : Digital Quad Output
- 5) REMOTE RS422 : RS422 Communication



- PIN: 1: RS422 RXB INPUT
 2: RS422 RXA INPUT
 3: RS422 TXA OUTPUT
 4: RS422 TXB OUTPUT
 5: Ground
 6: RESERVED
 7: RESERVED
 8: NC
 9: NC

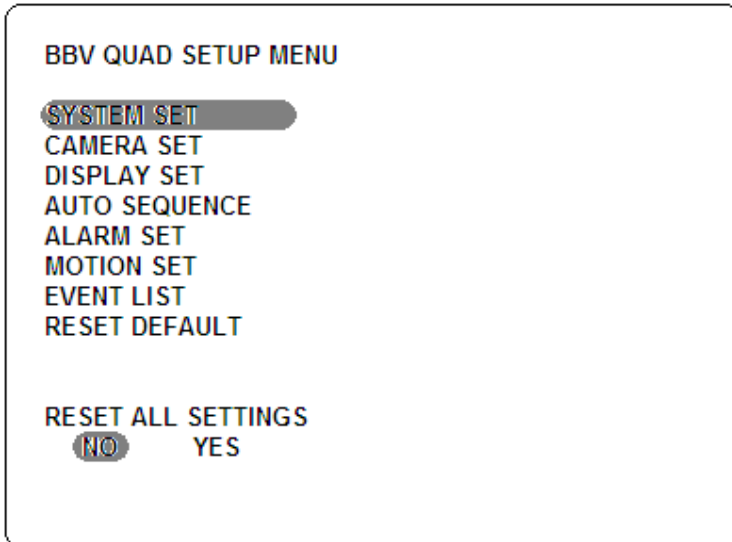
- 5) ALARM : Alarm Input / Output



- PIN: 1: NC
 2: Alarm Input 4
 3: Alarm Input 3
 4: Alarm Input 2
 5: Alarm Input 1
 6: Relay Normally Open
 7: Relay Common
 8: Relay Normally Closed
 9: GND

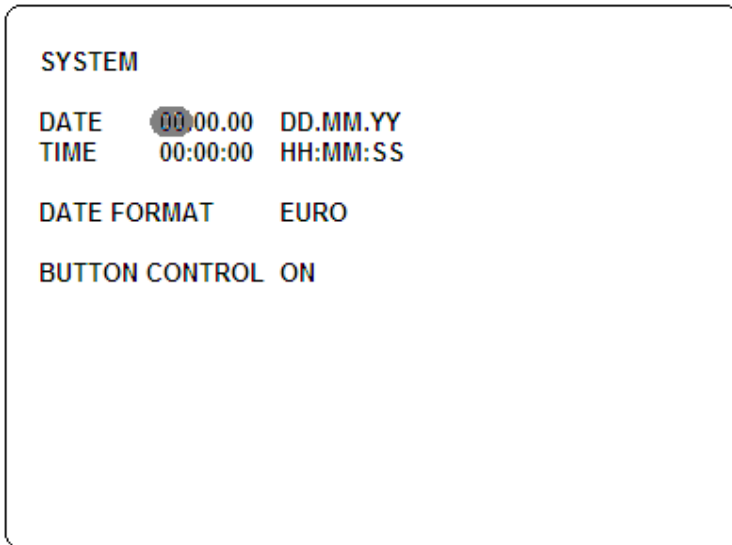
3. MENU:

1): Main



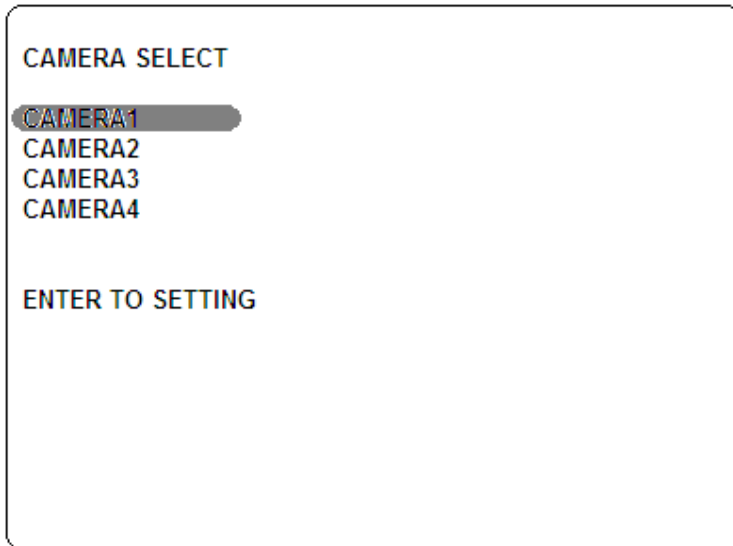
- All menu screens use the following control's
- Use UP / DOWN buttons to highlight a menu option.
- Use SELECT button to enter the selected menu.
- Use +/- buttons to change values when highlighted.
- Pressing the EXIT button will return to the previous menu screen.
- Pushing the SELECT button on RESET DEFAULT will ask for conformation to initialise the system back to factory default.

2): System set



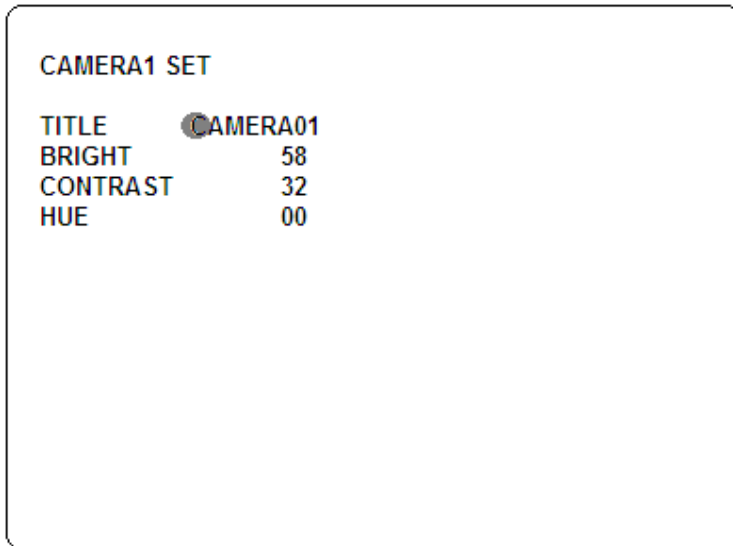
- DATE: Sets the current date.
- TIME: Sets the current time.
- DATE FORMAT: Sets the format of date.
 - EURO
 - US
 - ASIA
- BUTTON CONTROL: Toggles button control between ON and OFF

3): Camera set



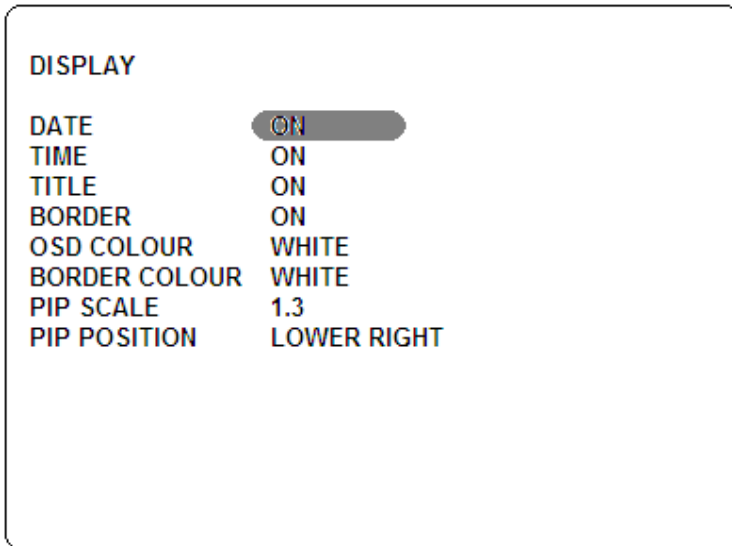
- CAMERA 1 ~ 4 : To select the desired channel use UP / DOWN buttons.
- Push the SELECT button to enter the sub menu.

3-1): Camera set sub menu



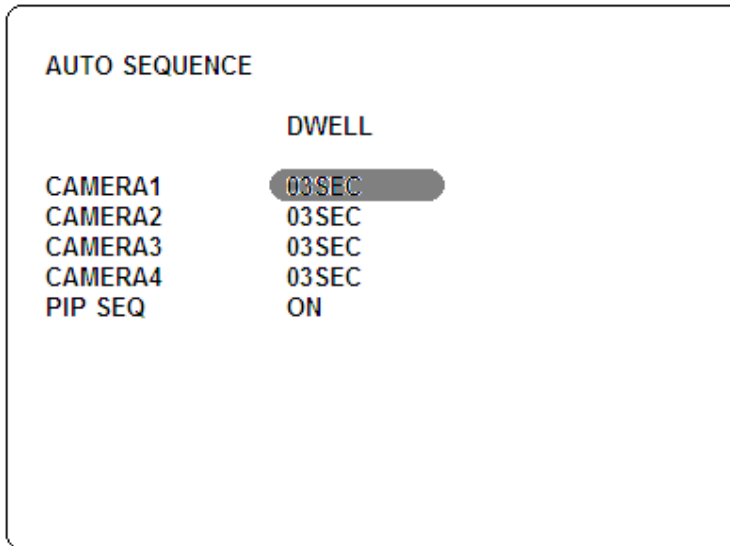
- TITLE : Edits title of each camera.
 - BRIGHT : Control brightness of each camera.
 - CONTRAST : Control contrast of each camera.
 - HUE : Control hue of colour of each camera.
-
- To change the title of a camera press either + or – buttons (buttons 3 and 4) to scroll through characters.
 - The camera title length is fixed to 8 characters.

4): Display set menu



- TIME : Time ON / OFF.
- DATE : Date ON / OFF.
- TITLE : Title ON / OFF.
- BORDER : Border ON / OFF.
- OSD COLOUR : Sets the OSD colour
- BORDER COLOUR : Sets the border colour.
- PIP SCALE : Sets the size of the PIP window.
- PIP POSITION : Sets the position of the PIP window.

5): Auto Sequence menu



- SEQ NO1 ~ 4 : Sets the Dwelling time for each camera
- PIP SEQ : Sets picture in picture sequence ON / OFF
- To start a sequence from either QUAD or PIP mode hold down the sequence button (button 2) for a short period.
- Sequencing is fixed to the Analogue output and the small PIP window if selected in the menu.
- If motion detection occurs then sequencing will stop.

6): Alarm set menu

ALARM SET		
	ALARM	STATE
CAM1	<input checked="" type="radio"/> OFF	OPEN
CAM2	<input type="radio"/> OFF	OPEN
CAM3	<input type="radio"/> OFF	OPEN
CAM4	<input type="radio"/> OFF	OPEN
RELAY DURATION		03SEC
ALARM ACTION		TEXT ONLY

- CAM1 ~ 4 ALARM STATE :Set the detecting alarm state.
○ STATE :Shows the current alarm status.
- RELAY DURATION :Set the duration of relay action when an alarm occurs.
- ALARM ACTION :Set the action for when an alarm occurs, either display text or switch to full screen.

7): Motion set menu

MOTION SET					
	SEN	MD.NUM	REF	DET	
CAM1	64	03	06	OFF	AREA
CAM2	64	03	06	OFF	AREA
CAM3	64	03	06	OFF	AREA
CAM4	64	03	06	OFF	AREA
DETECT TIMER		OFF			
START TIME		00:00	HH:MM		
END TIME		00:00	HH:MM		
MOTION ACTION			TEXT ONLY		

- CAM1 ~ 4:
 - SEN : Control of sensitivity of motion.
 - MD.NUM : Sets the number of motion cells to allow motion.
 - REF : Sets the period of capturing reference image.
 - DET : Motion detection ON / OFF
- DETECT TIMER : Timer ON / OFF for motion detection.
- START TIME : Set the start time of motion detection.
- END TIME : Set the end time of motion detection.
- MOTION ACTION : Set the action for when motion occurs, either display text or switch to full screen.

EVENT LIST PAGE01				
NO	CH	DATE	TIME	EVENT
01	03	03.01.06	12:45:30	VLD
02	01	03.01.06	12:42:30	VMD
03	02	03.01.06	12:40:30	ALM
04	01	03.01.06	12:30:30	VLD
05	02	03.01.06	12:25:30	VLD
06	03	03.01.06	12:22:30	VLD
07	01	03.01.06	12:20:30	VMD
08	02	03.01.06	12:18:30	ALM

LEFT BUTTON TO PAGE DOWN
RIGHT BUTTON TOPAGE UP
ENTER BUTTON TO LIST ERASE

- EVENT : VLD Video loss event.
- : ALM External Alarm Input Event.
- : VMD Motion Detection Event.

--- Blank for your notes ---

Product	Description
TX300	Single camera desktop telemetry transmitter with BBV up-the-coax & 20mA telemetry, Pan/Tilt/Lens & Lights
TX400	As TX300 inc Wash, Wipe, Autopan, 8 presets, preset patrol.
TX400DC	As TX400 including joystick for proportional Pan/Tilt control.
TX1000 MK2	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.
TX1500	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.
FBM range	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.
RX100	Dome Interface with options to drive a large library of dome cameras. BBV up-the-coax and 20mA telemetry.
RX200	AC receiver for Pan only heads or static cameras, Wash/Wipe/Lights. BBV up-the-coax and 20mA telemetry.
RX300	AC receiver for Pan/Tilt/Zoom/Focus/Iris Override and 1 Auxiliary output. BBV up-the-coax and 20mA telemetry.
RX400P	AC full function receiver. PTZFI 4 Auxiliary outputs, 16 presets. BBV up-the-coax and 20mA telemetry.
RX400DC	24Vdc high/variable speed receiver. 16 presets, 8 local alarm inputs, 3 Auxiliary outputs. BBV up-the-coax and 20mA telemetry.
RX45X (AC) RX55X (DC) 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 and COAX, PELCO P/D RS485, Vicon RS422, VCL/HONEYWELL RS485, PHILIPS/BOSCH RS485 (OPTIONAL BI-PHASE INPUT), DENNARD RS485 SENSORMATIC/AD RS422
RX450/550	PANASONIC RS485 Protocol only version of RX45X/55X.
STARCARD 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 rd party protocols.
ACCESSORIES	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 SLM Sync Level Meter (for system setup)