

Receiver Installation Guide



Models covered

Rx550 24Vdc Panasonic RS485 compatible telemetry receiver

Software Version 1 (29/1/2001)

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1. PRE-INSTALLATION CHECKS AND SAFETY PROCEDURES

UNPACKING

Check Packaging - Upon taking delivery of the unit, inspect the packaging for signs of damage. If damage has occurred, advise the carriers and/or the suppliers immediately.

Check Contents - Upon taking delivery of the unit, unpack the receiver carefully and check that all the items are present and correct. If any items are missing or damaged, contact your equipment dealer.

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

Retain Instructions - All safety, installation and operating instructions should be retained for future reference.

Heed Warnings - All warnings on the unit and in any relevant safety, installation or operating instructions should be adhered to.

Cleaning - Unplug the unit from the power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

Water and Moisture - Do not expose the internal electronics of this unit to water or dampness; for example, in an unprotected outdoor installation, or in any area classified as a wet location. The unit as supplied conforms to ingress protection rating IP 67. This rating will be affected by any holes made in the enclosure. Cable entry points should be protected by the use of suitably rated glands and/or flexible conduit. It is not necessary to make further holes in the enclosure for mounting purposes, as mounting holes are provided at the corners of the enclosure outboard of the seal between enclosure and lid.

Accessories - Do not attach this unit to an unstable stand, bracket or mount. The unit may fall, causing serious injury to a person and serious damage to the unit.

Power Sources - This unit should be operated only from the type of power source indicated on the manufacturer's label. If you are not sure of the type of power supply you intend to use, consult your equipment dealer or local power company. For units intended to operate from battery power or other sources, refer to operating instructions.

Power Connector - This unit is equipped with connector mounted at the edge of the PCB for mains power input. Do not attempt to alter this connector in any way.

Power Cord Protection - Power supply cords should be routed so that they are not likely to be trapped, pinched or otherwise damaged by items in close proximity to them, whether inside the unit or outside it. Particular attention should be paid to cords at plugs, connection units and the point of exit from the unit.

Overloading - Do not overload outlets and extension cords, as this can result in fire or electric shock.

Object and Liquid Entry - Never push objects of any kind into the unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill liquid of any kind on or inside the unit.

Servicing - Servicing of the unit should only be undertaken by qualified service personnel, as opening or removing covers may expose you to dangerous voltages or other hazards.

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 and will often require extensive work by a qualified technician to restore the unit to normal operation;
- (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.

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.

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 on the Rx550 receiver.

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.

DO NOT OPERATE THE UNIT WITH ANY INTERNAL COVERS REMOVED. DANGEROUS VOLTAGES ARE PRESENT ON THE POWER SUPPLY. THE UNIT MUST ONLY BE SERVICED BY QUALIFIED PERSONNEL.

The “lightning flash with arrowhead” symbol inside an equilateral triangle is used to warn the user of this equipment that there are sufficiently high voltages within the enclosure to constitute a risk of electric shock.

The “exclamation point” symbol inside an equilateral triangle is used to alert the user of this equipment to important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

2. INTRODUCTION

GENERAL

The Rx550 receiver is designed to control 24VDC-operated pan/tilt mechanisms using a Panasonic RS485 telemetry control system.

The receivers can be connected using either a daisy chained or star wired RS485 network depending upon the model of Panasonic controller used. 4 wired star wired telemetry is preferred.

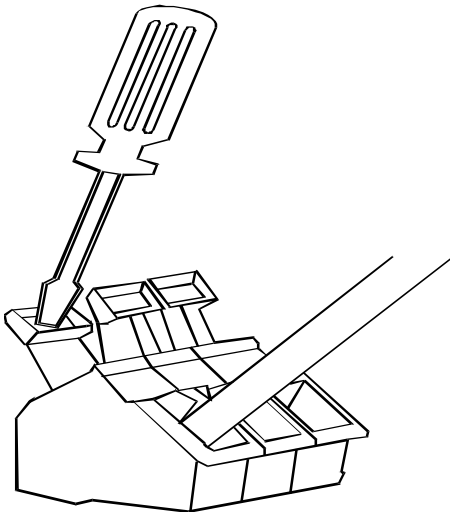
The Rx550 receiver is supplied in an IP 67 rated enclosure. It will be necessary to make suitable holes in the enclosure to permit cable entry and exit. Adequately rated cable glands and or flexible conduit should be used at all times to avoid compromising the protection afforded by the enclosure as supplied. Any holes made in the enclosure for any other purpose should be sealed with a non-hardening waterproof sealant, taking care to ensure that the internal electronics are not contaminated. Enclosure mounting holes are provided at the corners of the enclosure outboard of the seal between enclosure and lid.

Technical Specification

| | |
|---|--|
| Power Requirements | 86 - 265Vac (24Vac option) |
| Max Load | 5A @ 240V (1250 W) |
| Receiver Current Draw | 400VA max |
| Fuses | Auxiliary fuse F2 5A T (20mm cartridge) |
| Outputs | Linear 0-24Vdc output for pan & tilt motor drive Switch 24Vdc output to drive motor brakes. Lens drive adjustable between 3-12Vdc 150mA max Switched AC output to drive Wash/Wipe/Lights(1000W max) |
| Facilities | LED readout for continual system status. Programming menu with On Screen Display. |
| REMOTELY ADJUSTABLE | Video launch amplifier provided with cable length adjustment 12Vdc/750mA camera power provided. Colour coded outlets – live, neutral, earth and low voltage. <i>24Vac output option available.</i> |
| Telemetry Signal | 2 or 4 wire RS485 - Panasonic compatible. |
| Auto Iris Output | Returns to original setting 15 seconds after key release. Level programmable from controller. |
| Video Input | 1v p-p 75Ω terminated input via BNC socket. |
| Video Output | 1v to 4v p-p 75Ω impedance via BNC socket. |
| Lens Drive REMOTELY ADJUSTABLE | Adjustable via menu between 3 and 12 volts. Inching speed selectable via menu between 0 – 100% of full lens speed. 1 second inching built in. Provides drive for Zoom & Focus. Each lens drive carries a bi-colour LED to indicate direction and drive voltage. |
| Presets | Inputs are provided for pan, tilt, zoom & focus preset feedback pots. These are 10 bit resolution. Upto 32 full-scene presets can be stored within the Rx550, i.e. pan, tilt, zoom, focus for each preset. |
| Other Outputs | RS485 Serial port available to drive advance features on selected cameras. (Panasonic CPR camera range etc) |
| Additional Information | Autopan or Random Pan Sequential preset patrol. The preset dwell is programmable individually. Datum - return to preset 1 after programmable duration of inactivity. Iris output - either direct drive for 3 motor lens or Autoiris override voltage for Seiko/Cosmicar lenses etc. 8 alarm inputs, volts free normally closed contacts. A single opening volts free contact sums the alarms either immediately or as the preset is approached. If a video transmission system is activated with the alarm output, then setting the alarm to delayed prevents unwanted frames being transmitted. |
| Options | 24Vac output option available. Either 230Vac/24Vac or 110Vac/24Vac. |
| Boxed Dimensions | Width: 380mm, Length: 190mm, Height: 130mm |

CABLE CONNECTION METHOD

Fig. 1: Wago connectors



The WAGO series 256 PCB terminal block is a simple-to-use method of attaching cables to PCBs quickly and easily. Prepare cables as follows:

1. Use only cable between 0.08 and 2.5 mm²
2. Strip the cable to a length of 5 to 6 mm (0.23 in)

The correct method of attachment is as follows:

1. Press down the relevant terminal block lever with a suitable screwdriver;
2. Insert wire;
3. Remove screwdriver.

The procedure for detaching wires is the reverse of the 3 attachment steps, ensuring that **power is disconnected** before starting.

3. INSTALLATION

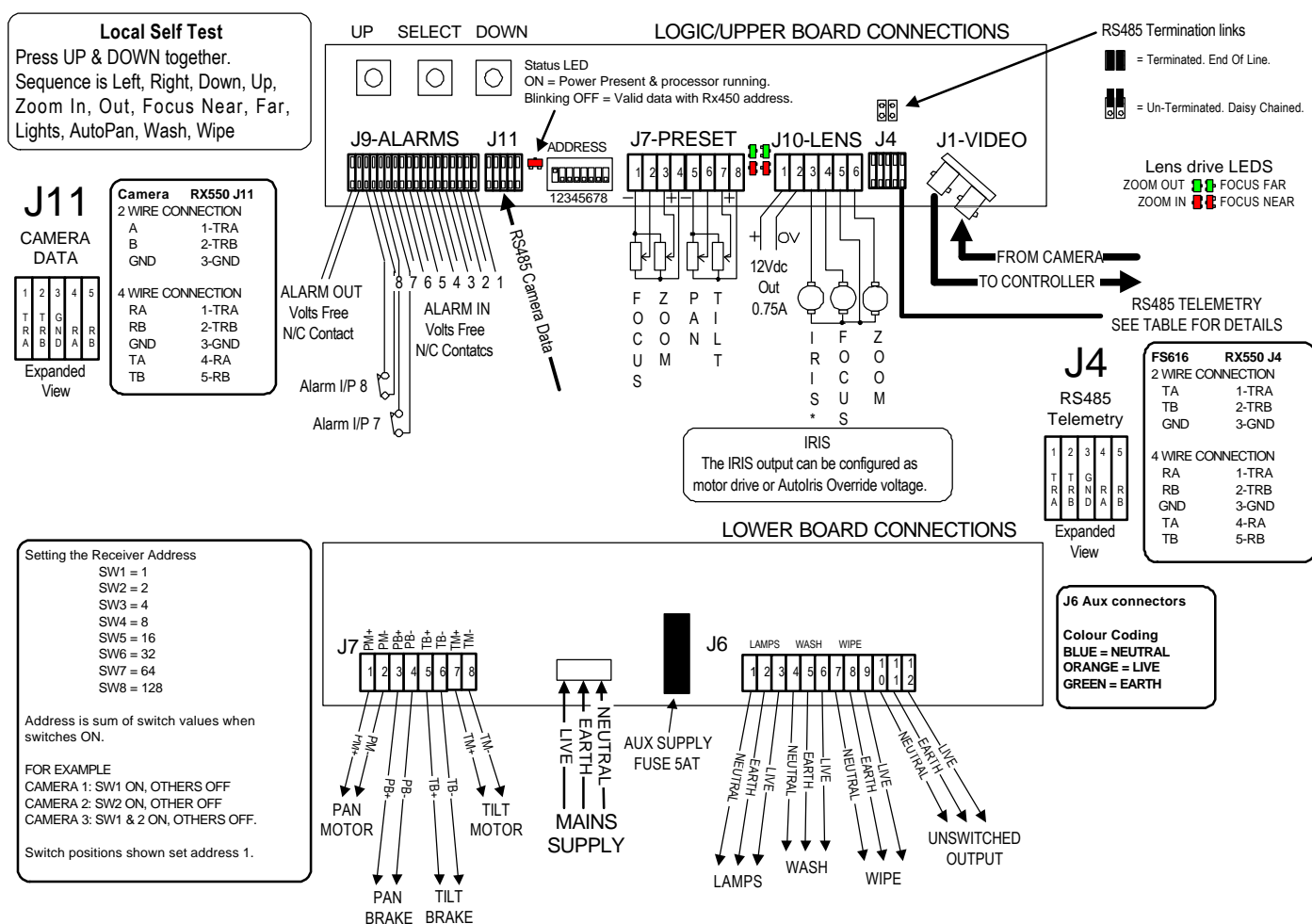


Table showing the polarity of pan/tilt head and lens outputs. Use in conjunction with head/lens manual to determine correct wiring. Ensure that the pan/tilt motor and brake wiring is correct and NOT crossed before powering up the receiver as damage could be caused.

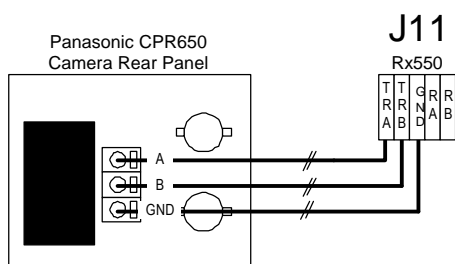
| Pin J7 | Pan LEFT (RED) | Pan RIGHT (GREEN) |
|--------|----------------|-------------------|
| PM+ | + | 0 |
| PM- | 0 | + |
| PB+ | + | 0 |
| PB- | 0 | + |

| Pin J7 | Tilt UP (RED) | Tilt DOWN (GREEN) |
|--------|---------------|-------------------|
| TM+ | + | 0 |
| TM- | 0 | + |
| TB+ | + | 0 |
| TB- | 0 | + |

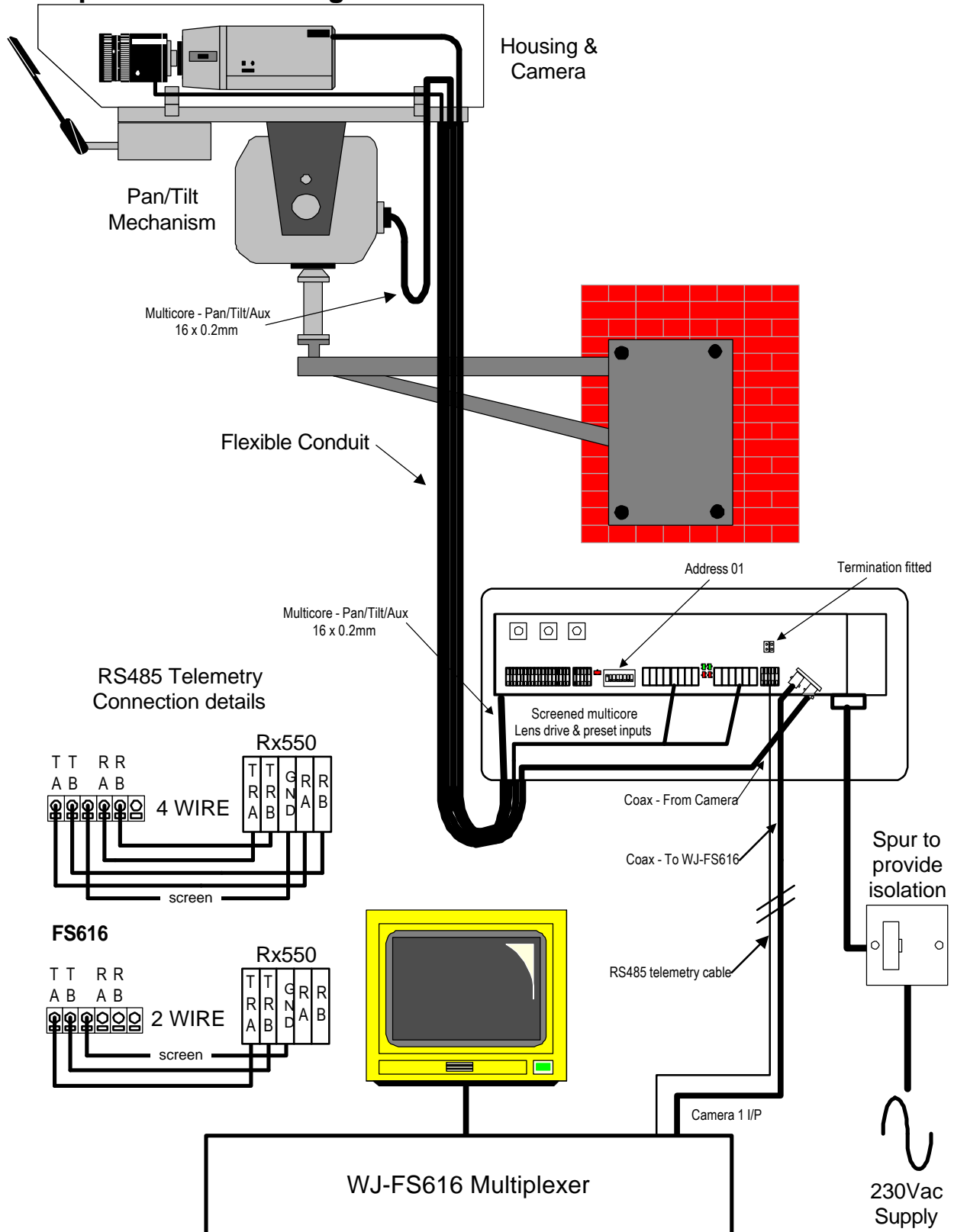
| Pin J10 | Zoom IN (RED) | Zoom OUT (GREEN) |
|---------|---------------|------------------|
| ZM | - | + |

| Pin J10 | Focus FAR (GREEN) | Focus NEAR (RED) |
|---------|-------------------|------------------|
| FC | - | + |

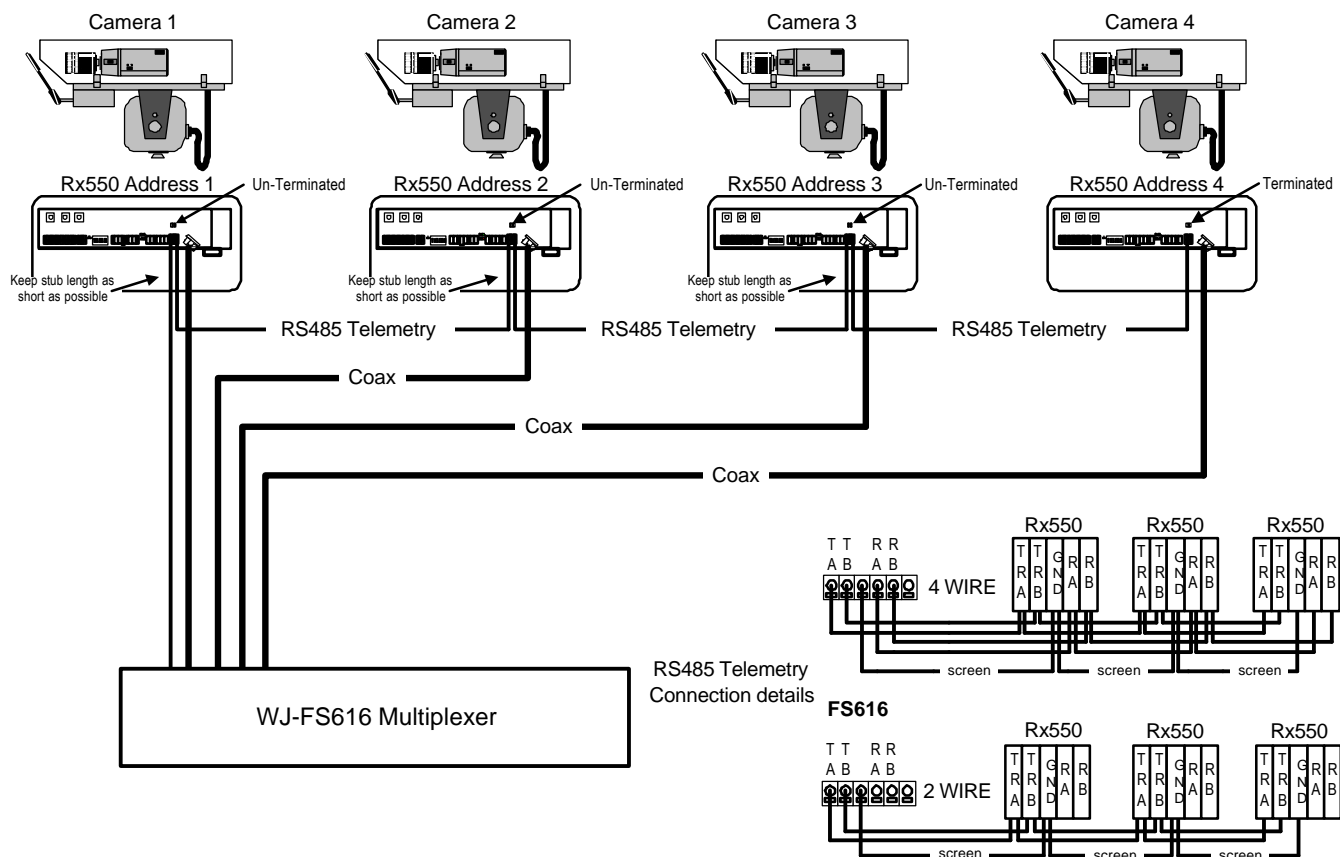
| Pin J10 | Iris OPEN | Iris CLOSE |
|---------|-----------|------------|
| IR | - | + |



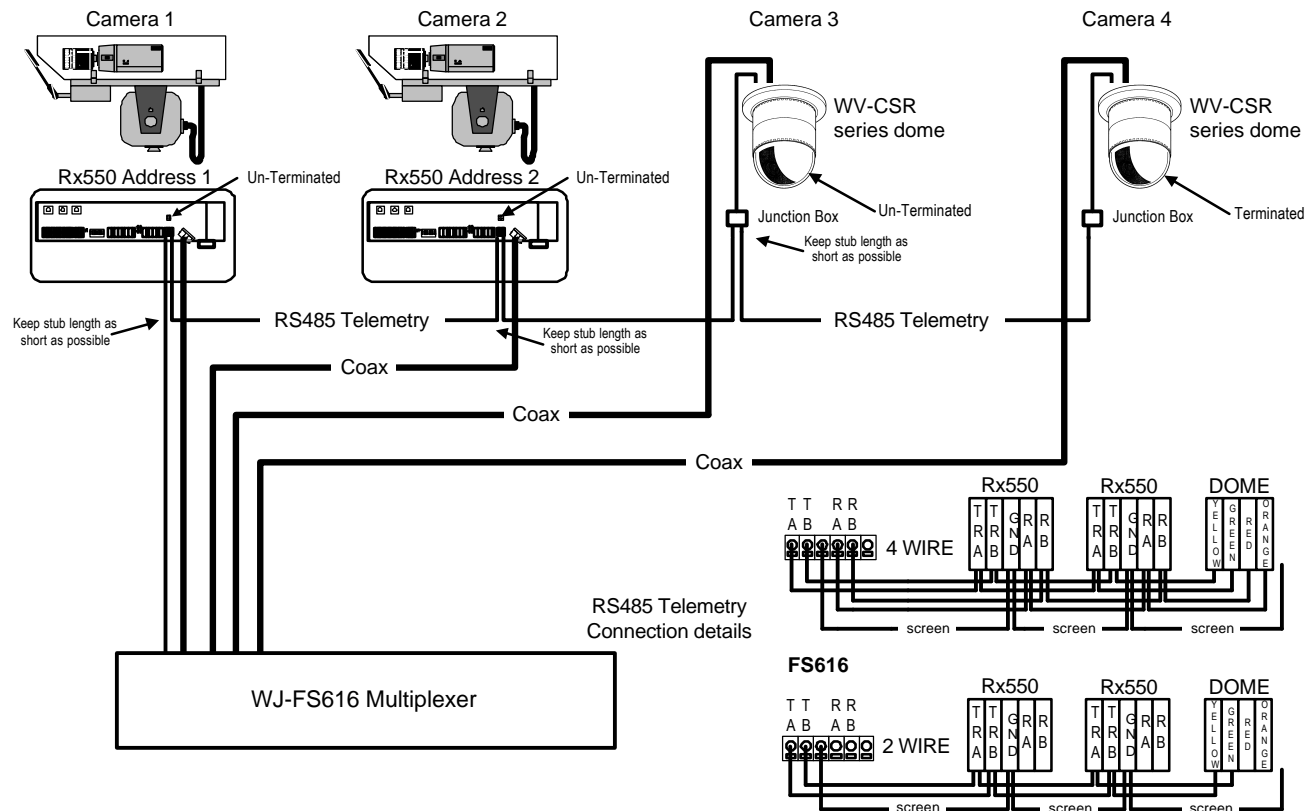
Example connection diagrams.



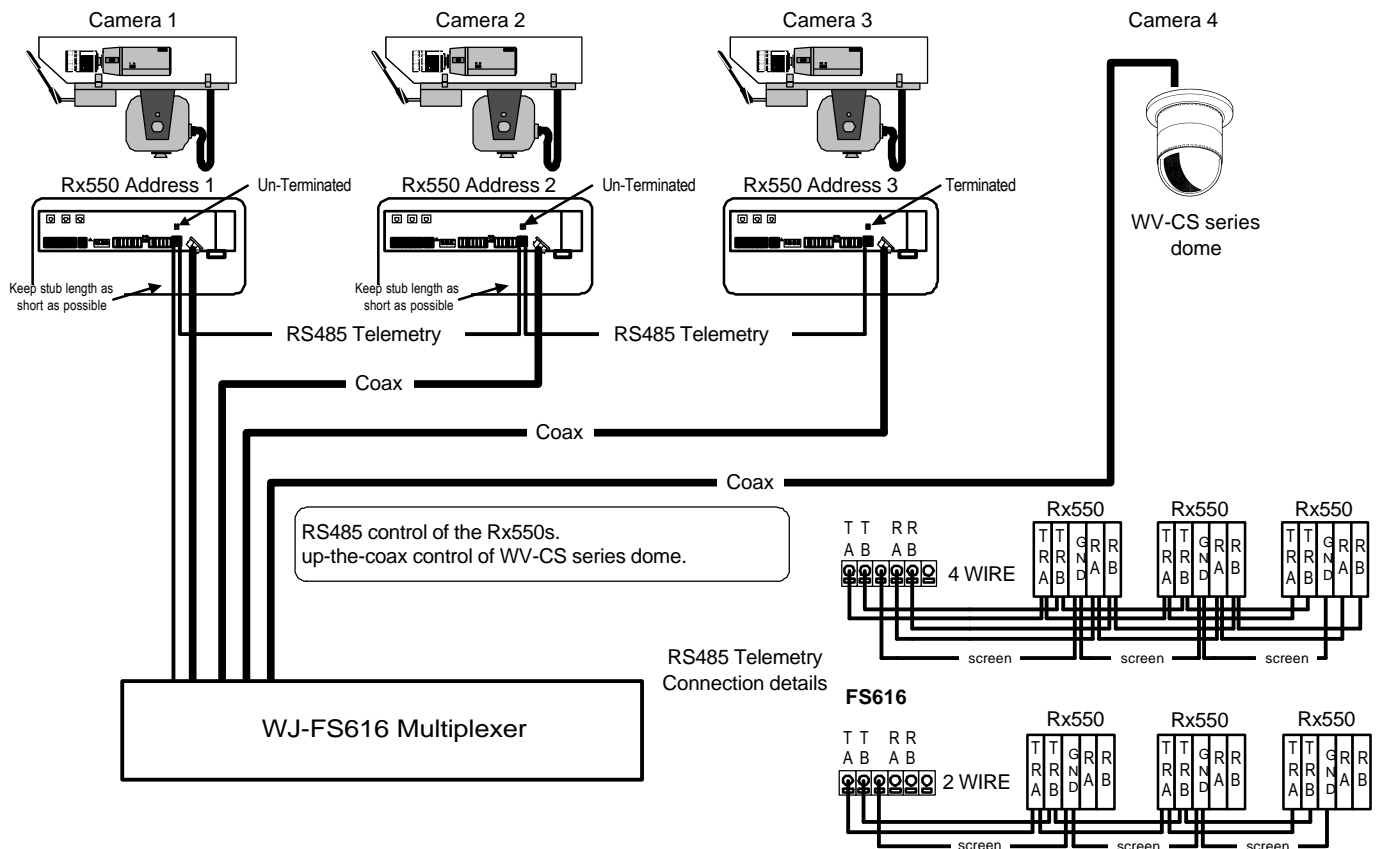
Single Rx550 with WJ-FS616



Multiple Rx550 with WJ-FS616



Multiple Rx550 and RS485 controlled domes with WJ-FS616



Multiple Rx550 and up-the-coax controlled dome with WJ-FS616

Notes:

When using a daisy chained RS485 system, the stubs must be kept as short as possible and no longer than 25cm. Intermittent and/or sluggish control can be the result of excessive stub lengths.

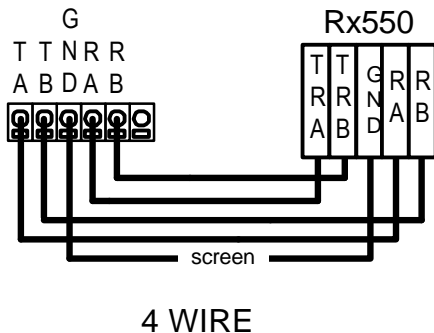
The receiver comprises of two pcbs mounted above an enclosed psu. The low voltage logic board is the top board whilst the 24Vdc head output and AC connections are on the middle board.

The low voltage connection can now be made to the logic board.

Each receiver on a network must have a unique address. The following table shows the switch settings for receiver address 1 - 32. The receiver can be addressed from 1 – 255.

| ADDRESS | SW1 (1) | SW2 (2) | SW3 (4) | SW4 (8) | SW5 (16) | SW6 (32) | SW7 (64) | SW8 (128) |
|----------|------------|------------|------------|------------|-------------|-------------|-------------|--------------|
| DONT USE | off | off | off | off | off | off | off | off |
| 1 | ON | off | off | off | off | off | off | off |
| 2 | off | ON | off | off | off | off | off | off |
| 3 | ON | ON | off | off | off | off | off | off |
| 4 | off | off | ON | off | off | off | off | off |
| 5 | ON | off | ON | off | off | off | off | off |
| 6 | off | ON | ON | off | off | off | off | off |
| 7 | ON | ON | ON | off | off | off | off | off |
| 8 | off | off | off | ON | off | off | off | off |
| 9 | ON | off | off | ON | off | off | off | off |
| 10 | off | ON | off | ON | off | off | off | off |
| 11 | ON | ON | off | ON | off | off | off | off |
| 12 | off | off | ON | ON | off | off | off | off |
| 13 | ON | off | ON | ON | off | off | off | off |
| 14 | off | ON | ON | ON | off | off | off | off |
| 15 | ON | ON | ON | ON | off | off | off | off |
| 16 | off | off | off | off | ON | off | off | off |
| 17 | ON | off | off | off | ON | off | off | off |
| 18 | off | ON | off | off | ON | off | off | off |
| 19 | ON | ON | off | off | ON | off | off | off |
| 20 | off | off | ON | off | ON | off | off | off |
| 21 | ON | off | ON | off | ON | off | off | off |
| 22 | off | ON | ON | off | ON | off | off | off |
| 23 | ON | ON | ON | off | ON | off | off | off |
| 24 | off | off | off | ON | ON | off | off | off |
| 25 | ON | off | off | ON | ON | off | off | off |
| 26 | off | ON | off | ON | ON | off | off | off |
| 27 | ON | ON | off | ON | ON | off | off | off |
| 28 | off | off | ON | ON | ON | off | off | off |
| 29 | ON | off | ON | ON | ON | off | off | off |
| 30 | off | ON | ON | ON | ON | off | off | off |
| 31 | ON | ON | ON | ON | ON | off | off | off |
| 32 | off | off | off | off | off | ON | off | off |

RS485 Telemetry Connection details



The RS485 telemetry data can operate over either 2 or 4 wire cable. The following diagram shows cable connections for 4 wire mode.

Ensure that the Rx550 is set to the same baud rate as the controller. The receiver default setting is 9600 baud. The Rx550 baud rate is set on the **BAUD RATE** line of the **MAIN/RECEIVER/COMMUNICATIONS/MENU**.

BBV recommend that 4 wire telemetry is used running at 9600 baud

4. SETUP

DIAGNOSTIC AIDS

A single diagnostic LED labelled POWER provides indication of presence of power and also data from the multiplexer.

When the Rx550 is powered, the LED illuminates.

The LED will blink when the Rx550 has received correct telemetry data with the same address as the DIP switch address. If the telemetry data is invalid or the data is addressed to another device, the LED will remain illuminated.

Additional diagnostic aids are available in the Rx550 **MAIN/RECEIVER/DIAGNOSTICS** menu. (see later)

CABLE LENGTH COMPENSATION

The Rx550 incorporates a remotely adjustable high quality launch amplifier to compensate for video cable losses over extended cable distances.

The gain of the launch amplifier can be adjusted in the Rx550 **LAUNCH AMP GAIN** line of the **MAIN/RECEIVER/OPTIONS** menu. The gain can be varied

from 0 - 255, the higher the number, the higher the gain. The default value is 4. As the amplifier gain is increased, high frequency lift is also increased.

SELF-TEST AND DIAGNOSTIC SEQUENCE

The diagnostic system and status check, which will activate each receiver function for two seconds in turn, is activated by selecting **SELF TEST** from the Rx550 **MAIN/RECEIVER/TEST** menu. The self test can also be activated by pressing both the **UP** and **DOWN** buttons on the Rx550 top pcb simultaneously, allowing local self test of a stand alone receiver. (Please refer to earlier diagram for button positions).

The Rx550 OSD displays the self test progress with two status lines as shown below.

FUNCTION ← this line will show the current function being driven.

Pxxxx Txxxx Zxxxx Fxxxx ← the xxxx indicate preset pot values for pan, tilt, zoom and focus. Each value should change smoothly as the corresponding function is driven.

| Functions: | Active output |
|--|----------------------|
| PAN LEFT | J7/PM+/- PB+/- |
| PAN RIGHT | J7/PM+/- PB+/- |
| TILT DOWN | J7/TM+/- TB+/- |
| TILT UP | J7/TM+/- TB+/- |
| ZOOM IN | J10/ZM |
| ZOOM OUT | J10/ZM |
| FOCUS NEAR | J10/FC |
| FOCUS FAR | J10/FC |
| AUX LAMPS | J6/LAMPS |
| AUX WASHER | J6/WASH |
| AUX WIPER | J6/WIPE |
| Diagnostic check complete, Rx550 will reset and continue normal operation. | |

During the self test, the presence and sense of each preset input is recorded. The status of each preset is displayed on the **AXIS FLAGS** line of the **MAIN/RECEIVER/DIAGNOSTICS** menu. **P**, **T**, **Z** and **F** will be displayed if the Pan, Tilt, Zoom or Focus preset have been found.

PROGRAMMING THE Rx550

An easy to use menu structure allows programming of the receiver's advanced features. The menu can be accessed either local to the receiver using the three push buttons on the Rx550 logic pcb or remotely using a Panasonic telemetry controller.

The three buttons on the Rx550 logic board allow navigation through the menu structure. Pressing the **SELECT** button displays the **MAIN MENU**. Pressing the **UP** and **DOWN** buttons move the flashing highlight up or down. Pressing **SELECT** again allows the selected sub menu to be displayed or a value to be changed. To exit the menu structure, select **EXIT** from the **MAIN MENU**. The Rx550 will now reset and resume normal operation.

The receiver menu can also be accessed remotely using the Panasonic controller by using the procedure used to access a camera or dome setup menu. The exact operation will vary depending upon the model of Panasonic controller used however for the FS616 multiplexer press and hold the SETUP/ESC key then tap the camera number corresponding to the receiver. The UP and DOWN keys move the flashing highlight up and down whilst the LEFT or RIGHT key is used as the select key. When the receiver menu is accessed remotely, the RECEIVER menu does not display the EXIT line. To exit from the receiver menu again use the key strokes that correspond to camera/dome menu exit. With the FS616 press and hold the FUNCTION key and tap the SETUP/ESC key.

The receiver menu structure is shown on the following page.

RX550 MENU STRUCTURE

Notes:

Navigation: UP and DOWN to move selected line. LEFT or RIGHT is used to either select the submenu or cycle options. NEXT will display the next screen of multi-screen menus and BACK will display the previous screen.

RETURN will display the previous menu.

EXIT quits the receiver programming allowing normal operation.

RX550DC MAIN MENU

CAMERA

RECEIVER

EXIT

RECEIVER

RX550DC RECEIVER MENU

COMMUNICATIONS

PRESETS

ALARMS

OPTIONS

DIAGNOSTICS

DEFAULTS

TEST MENU

RETURN

COMMUNICATIONS

RX550DC COMMS MENU

BAUD RATE 9600

CONTROL DATA 4 WIRE

CAMERA DATA 2 WIRE

DELAY TIME OFF

MENU UNLOCK LOCKED

RETURN

PRESETS

RX550DC PRESET MENU

PATROL DWELL ON 5

DISPLAY PAT YES

PRESET NUMBER 1

DELETE ? ACTIVE

PATROL A INC IN

INDIVID DWELL NA

RETURN

ALARMS

RX550DC ALARM MENU 1

ALARM 1 ON

ALARM 2 ON

ALARM 3 ON

ALARM 4 ON

ALARM 5 ON

ALARM 6 ON

ALARM 7 ON

ALARM 8 ON

NEXT

OPTIONS

RX550DC OPTIONS MENU

LAUNCH AMP GAIN 4

MAIN LENS VOLTS 12V0

INCH LENS VOLTS 12V0

IRIS TYPE MOTOR

DC IRIS LEVEL NA

ZOOM FOCUS IRIS N N N

DATUM DELAY ON 0

WASH DELAY SECS 5

NEXT

DIAGNOSTICS

RX550DC DIAGNOSTICS

VERSION NO 1

AXIS FLAGS PTZF

MAX TEMP 23

DISPLAY POTS OFF

RESETS 3

WATCHDOGS 0

HOURS USE 2

PRESET CALLS 134

RETURN

DEFAULTS

RX550DC DEFAULTS MENU

RESET RECEIVER

CLEAR ALL PRESETS

RETURN

TEST MENU

RX550DC TEST MENU

SELF TEST

LENS OFFSET 12

MOTOR OPTIONS

NET TRAFFIC ON

RETURN

PATROL DWELL

PATROL DELAY

MINUTES 0 SECONDS 5

NEXT

RX550DC ALARM MENU 2

DISPLAY ALARM ON

DELAYED ALARM OFF

BACK RETURN

LAUNCH AMP GAIN

LAUNCH AMP SETTING

4

AXIS FLAGS

RX550DC AXIS LOCKED

PAN PRESENT

TILT PRESENT

ZOOM ABSENT

FOCUS ABSENT

PAN DIR NORMAL

TILT DIR REVERSED

ZOOM DIR NORMAL

FOCUS DIR NORMAL

RETURN DO NOT ALTER

RESET RECEIVER

RX550DC DEFAULTS

ARE YOU SURE

RESET RECEIVER

CANCEL

LENS OFFSET

LENS STOP 12

PRESET NUMBER

ACTIVE PRESET 1

MAIN LENS VOLTS

LENS HIGH SPEED

12V0

CLEAR ALL PRESETS

RX55 CLEAR ALL PRESETS

ARE YOU SURE

CLEAR PRESETS

CANCEL

MOTOR OPTIONS

RX550DC MOTOR OPTIONS

MAX PAN 255

MIN PAN 15

MAX TILT 255

MIN TILT 50

MAX PRE PAN 255

MAX PRE TILT 255

RETURN

DELETE

CHECK DELETE

ARE YOU SURE

DELETE PRESET

CANCEL

INCH LENS VOLTS

LENS INCH SPEED

6V0

INDIVID DWELL

PRESET DELAY IN PATROLA

MINUTES 0 SECONDS 0

NEXT

RX550DC ZOOM FOCUS IRIS

ZOOM NORMAL

FOCUS NORMAL

IRIS NORMAL

RETURN

DATUM DELAY

PATROL DELAY

MINUTES 0 SECONDS 0

NEXT

RX550DC OPTIONS MENU 2

RAND PAN DELAY 1

DISPLAY AUX OSD DISP

TEXT ON LINE 10

BACK RETURN

THE Rx550 MENU SYSTEM IN DETAIL

Please refer to the menu structure on the previous page to help navigation through the menu structure.

COMMUNICATIONS

RX550DC COMMS MENU

BAUD RATE 9600
CONTROL DATA 4 WIRE
CAMERA DATA 4 WIRE
DELAY TIME OFF

MENU UNLOCK LOCKED

RETURN

RS485 baud rate 1200/2400/4800/**9600**/19200
2 WIRE/**4 WIRE** RS485 network from Panasonic controller
2 WIRE/4 WIRE RS485 to camera port
TX/RX delay 10/20/40/100ms/**OFF** for use with RF links etc

Must be set to UNLOCKED to allow setting of above

Return to RECEIVER menu

PRESETS

RX550DC PRESET MENU

PATROL DWELL OM 5
DISPLAY PAT YES
PRESET NUMBER 1
 DELETE ? ACTIVE
 PATROL A INC IN
 INDIVID DWELL NA

RETURN

Dwell in minutes & seconds during preset patrol
Display preset number during patrol (**YES**/NO)
Toggle current preset (1 - 32)
Delete current preset, DEL if preset not present
Include preset in patrol (**IN**/OUT)
Override patrol dwell for this preset minutes & seconds

Return to RECEIVER menu

ALARMS

RX550DC ALARM MENU 1

ALARM 1 ON
ALARM 2 ON
ALARM 3 ON
ALARM 4 ON
ALARM 5 ON
ALARM 6 ON
ALARM 7 ON
ALARM 8 ON
NEXT

Each local alarm input can be disable or enabled individually.
Setting to OFF disables the alarm input
and setting to ON enables the alarm input

Display the ALARM MENU 2

NEXT

RX550DC ALARM MENU 2

DISPLAYED ALARM ON
DELAYED ALARM OFF

BACK RETURN

Receiver displays ALARM message when alarm active if ON OFF/ON. When set to ON, the alarm message is generated as the head approaches it's preset position to prevent a triggered video transmission system from sending 'blurred' frames. When set to OFF, the alarm output is active as soon as an alarm occurs.

BACK displays ALARM 1 and RETURN displays RECEIVER menu

OPTIONS

RX550DC OPTIONS MENU

LAUNCH AMP GAIN 4
MAIN LENS VOLTS 12V0
INCH LENS VOLTS 12V0
IRIS TYPE MOTOR
DC IRIS LEVEL NA
ZOOM FOCUS IRIS N N N
DATUM DELAY OM 0
WASH DELAY SECS 5
NEXT

Coax cable compensation 0-255, 255 = maximum gain
Lens drive voltage 3-12V, set to suite lens
Set the drive voltage for first second of travel.
Set lens iris type for autoiris override or 3 motor lens
Sets iris voltage range for Seiko or Cosmimar lens
Allow each lens function to be reversed
Time in minutes/seconds to return to preset 1, 0=never
Seconds that WASH output is active following WIPE
Display the OPTIONS MENU 2

NEXT

RX550DC OPTIONS MENU 2

RAND PAN DELAY 1

DISPLAY AUX OSD DISP
TEXT ON LINE 10

BACK RETURN

Random pan delay,1=fast,10=slow,0=AUTOPAN which requires an optional card within the pan/tilt head.
DISP/HIDE: Display or Hide auxilliary output status
1-10. Position of status on screen, 1=top,10=bottom

BACK to OPTIONS 1 or RETURN to RECEIVER MENU

DIAGNOSTICS

RX550DC DIAGNOSTICS

VERSION NO 1
AXIS FLAGS PTZF
MAX TEMP 23
DISPLAY POTS OFF
RESETS 3
WATCHDOGS 0
HOURS USE 2
PRESET CALLS 134
RETURN

Receiver software version
Indication of preset input status - see AXIS FLAGS below
Maximum internal enclosure temperature in deg C
Display preset pot values.Useful during diagnosis work
Number of receiver power-ups.Useful diagnosis tool
Number of processor watchdogs(supply glitches)
Hours receiver powered
Number of preset calls
RETURN to RECEIVER MENU

AXIS FLAGS

RX550DC AXIS LOCKED

| | |
|-----------|--------------|
| PAN | PRESENT |
| TILT | PRESENT |
| ZOOM | ABSENT |
| FOCUS | ABSENT |
| PAN DIR | NORMAL |
| TILT DIR | REVERSED |
| ZOOM DIR | NORMAL |
| FOCUS DIR | NORMAL |
| RETURN | DO NOT ALTER |

DEFAULTS

RX550DC DEFAULTS MENU

RESET RECEIVER

CLEAR ALL PRESETS

RETURN

TEST MENU

RX550DC TEST MENU

SELF TEST

LENS OFFSET 12

MOTOR OPTIONS

NET TRAFFIC ON

RETURN

MOTOR OPTIONS

RX550DC MOTOR OPTIONS

| | |
|----------|-----|
| MAX PAN | 255 |
| MIN PAN | 15 |
| MAX TILT | 255 |
| MIN TILT | 50 |

| | |
|--------------|-----|
| MAX PRE PAN | 255 |
| MAX PRE TILT | 255 |

RETURN

Toggle to UNLOCK to alter settings.

During a self test, the receiver senses the presence and direction of preset input voltages. Should the receiver incorrectly sense the presence or direction then this menu allows manual setting. Toggle between PRESENT/ABSENT to enable/disable presets for each movement axis. The direction can be toggled between NORMAL or REVERSED if the head/lens drives in the wrong direction during a preset call.

Please use with caution to prevent mis-operation.

RETURN to DIAGNOSIS MENU

These two items should be used with extreme caution!

Set receiver to factory defaults. All preset/patrol settings etc will be cleared.

Erase ALL preset positions only.

A second menu will be displayed to display an ARE YOU SURE message!

RETURN to RECEIVER MENU

Starts receiver self test procedure

BBV use to zero the lens drive output. Using a DC volt meter on the ZOOM output, alter this value to give 0V.

Displays various pan/tilt speed options

BBV use to display RS485 telemetry commands

RETURN to RECEIVER MENU

These settings allow the receiver to be tailored to different pan/tilt motors. The MIN/MAX values set the minimum and maximum speeds during manual control 255 is maximum speed and 0 is minimum. If the minimum is too low, the head may stall at low speeds.

To increase pan/tilt head life, the pan and tilt speeds can be reduced during preset calls. Again take care that the head doesn't stall.

RETURN to TEST MENU

Rx550 USER GUIDE

Select the camera to control using the Panasonic controller.

Manual control of the pan/tilt head and lens is accomplished by pressing the relevant key or moving the joystick. Multiple functions can be controlled simultaneously. E.g. Pan Left and Tilt Down.

To move the pan/tilt head to a preset position, refer to the Panasonic controller manual. The Rx550 supports preset 1 – 32.

If this preset has been programmed, the head/lens will move to show the preset position.

Note: preset functions require a preset head for pan/tilt positioning and a preset lens for zoom/focus positioning.

Rx550 characters displayed.

W Wipe auxiliary output is active

* Lights auxiliary output is active

↔ Random Pan is running

Auxiliary functions are accessed using the AUTOPAN menu. This is displayed when the AUTO key is pressed and appears as follows:

AUTOPAN

| | |
|---------------------|------------|
| ALARM MENU | |
| RANDOM PAN | OFF |
| PATROL | OFF |
| LIGHTS | OFF |
| WASH/WIPE | OFF |
| PROG PRESETS | OFF |
| CANCEL | |

Pressing the AUTOPAN key displays this menu
Use the UP/DOWN keys to choose a line and LEFT or RIGHT to either toggle ON/OFF or display ALARM MENU

Display ALARM menu to enable/disable alarm inputs
Start RANDOM
Start preset patrol
Toggle the LIGHTS auxilliary ON/OFF
Toggle WIPE & WASH auxilliary.WASH time set in OPTIONS
ON=Program presets, OFF=Normal
Quit menu

When RANDOM PAN is selected, the head starts a random panning sequence until either a manual command or a local alarm occurs. If DISPLAY AUX OSD is set to DISP in the OPTIONS 2 menu then an arrow is displayed showing the direction of pan travel.

PATROL: Starts the preset patrol. If DISPLAY PAT is set to YES the receiver displays PATROL and the current preset number. Pressing one of the pan/tilt keys will stop the patrol and manual control is resumed.

LIGHTS: The lights auxiliary output is turned on/off with this line. If DISPLAY AUX OSD is set to DISP in the OPTIONS 2 menu then the lights symbol is displayed whilst the lights are on.

WASH/WIPE: The WIPE auxiliary output is turned on and the WASH auxiliary output is activated for the time set in the OPTIONS menu. If DISPLAY AUX OSD is set to DISP in the OPTIONS 2 menu then an umbrella symbol is displayed whilst the wiper output is on.

ALARM MENU: This item displays the ALARM MENU allowing the local alarms to be enabled/disabled individually.

ALARMS

RX550DC ALARM MENU 1

ALARM 1

ON

ALARM 2

ON

ALARM 3

ON

ALARM 4

ON

ALARM 5

ON

ALARM 6

ON

ALARM 7

ON

ALARM 8

ON

NEXT

Each local alarm input can be disable or enabled individually.

Setting to OFF disables the alarm input and setting to ON enables the alarm input

Return to the AUTOPAN MENU

Use the UP and DOWN keys to select an alarm input. The Left or Right key will toggle the state from ON/OFF. When the alarms have are configured correctly, select the NEXT line to resume normal operation.

Alarm inputs are normally closed. The alarm is activated when contact open and the receiver drives the head to the preset position corresponding to the alarm input.

PROG PRESETS: Allows preset positions to be programmed. The receiver will display PROGRAM after the menu disappears. In this mode 'goto preset' commands are used to program a preset position. Move the pan/tilt head and lens to the scene to be saved.

Please ensure that all the directions ARE NOT AT A LIMIT STOP as intermittent preset operation could occur. Press PRE-POSI on the CURSOR/CAMERA CONTROL keypad followed by the preset number required on the CAMERA/PRESET POSITION keypad. Several preset positions can be programmed whilst PROGRAM is displayed. To return to normal operation, go into the menu and set PROG PRESET to OFF. The receiver no longer displays PROGRAM and normal control is resumed.

Note: preset functions require a preset head for pan/tilt positioning and a preset lens for zoom/focus positioning.