



# IQDSDED & IQDSDES Re-Clocking Serial D. A. & Encoders

## Module Descriptions

The IQDSDES accepts component serial input to provide up to 6 equalized and reclocked outputs. Additionally up to 5 monitoring quality PAL / NTSC / PALM / PALN / NTSCJ / N4.4 composite outputs are provided.

The IQDSDED dual encoder accepts two component serial inputs to provide up to 3 equalized and reclocked outputs with up to 3 monitoring quality PAL / NTSC / PALM / PALN / NTSCJ / N4.4 composite outputs available for each input.

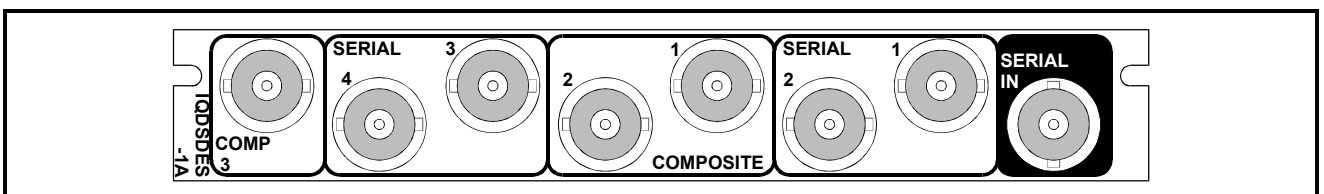
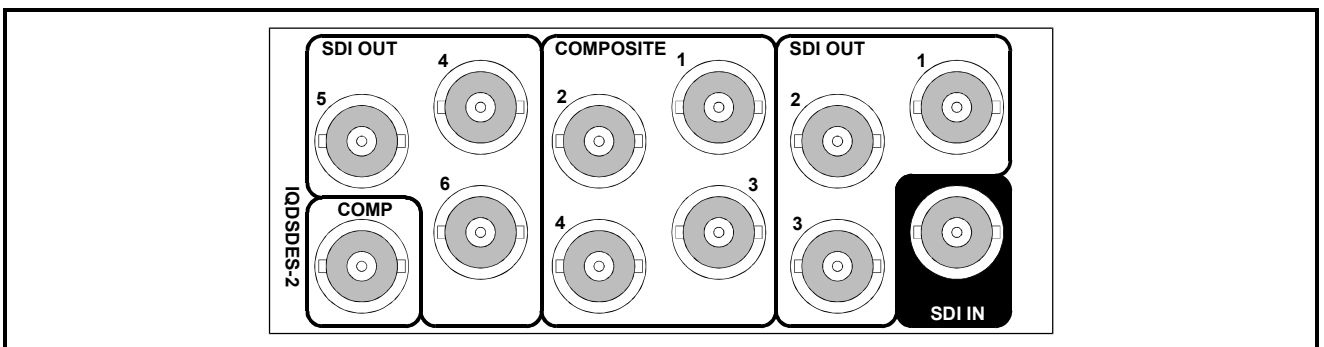
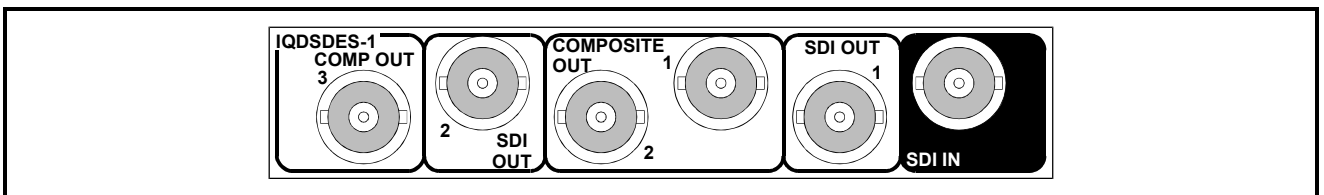
The IQDSDES provides equalizing and reclocking of component serial digital inputs with simultaneous composite encoded video outputs. EDH error detection and reporting are included as

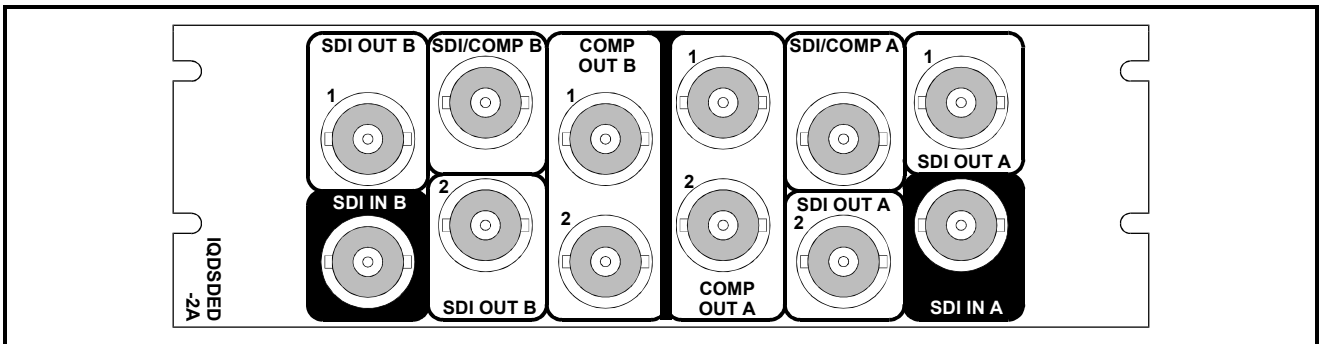
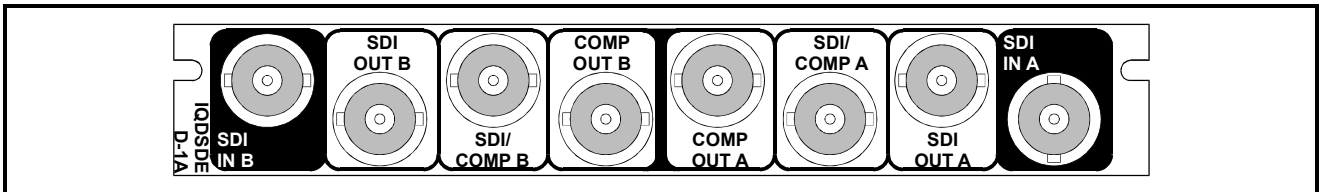
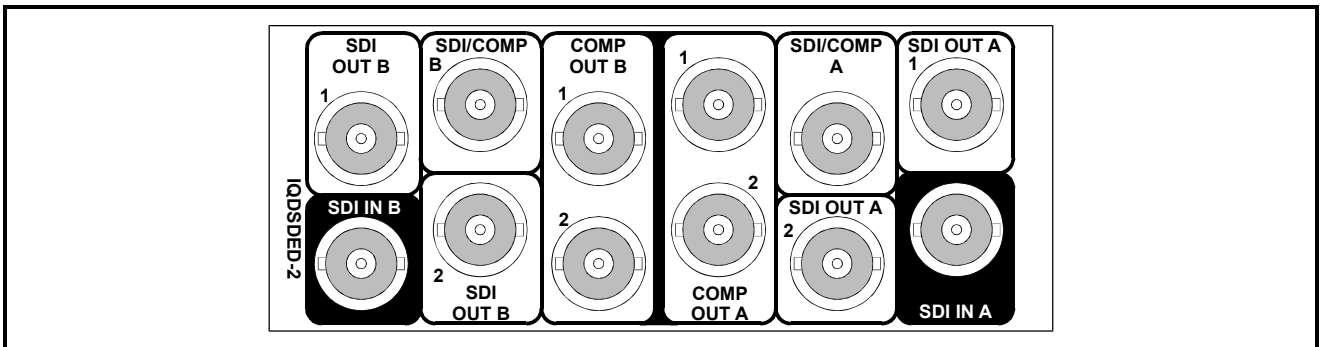
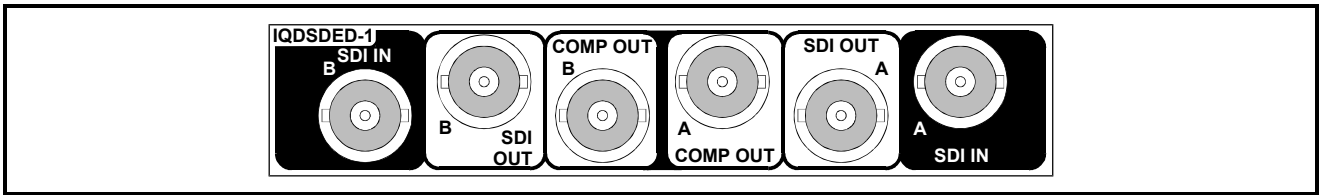
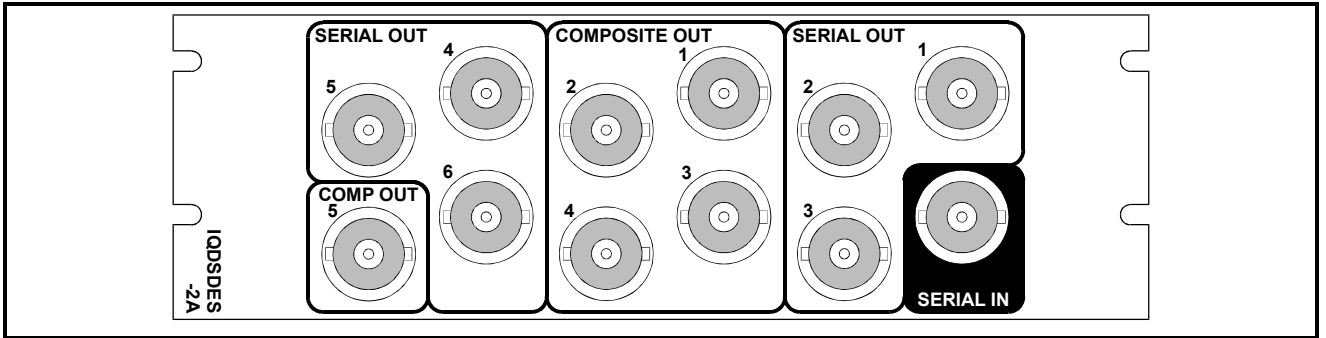
standard. A pattern generator provides a switchable default composite output in the absence of a valid input or it may be switched in under user control. Up to 6 SDI and 5 composite outputs are available.

The IQDSDED is a dual SDI re-clocking DA and encoder. With 16 cards in a single 3RU rack, 32 channels of re-clocked SDI with simultaneous composite outputs are available.

Full RollCall remote and card edge control is available. It also incorporates RollTrack to automatically send commands to other RollCall devices in event of input signal loss or error.

## REAR PANEL VIEWS





Versions of the module cards available are:

IQDSDES-1	SDI DA + encoder: 2 SDI + 3 comp outputs	Single width module
IQDSDES-2	SDI DA + encoder: 6 SDI + 5 comp outputs	Double width module
IQDSDES-1A	SDI DA + encoder: 4 SDI + 3 comp outputs	Single width module
IQDSDES-2A	SDI DA + encoder: 6 SDI + 5 composite outputs	Double width module

Note that pages 6, 13, 15-20, 28-32 relate specifically to the IQDSDES versions.

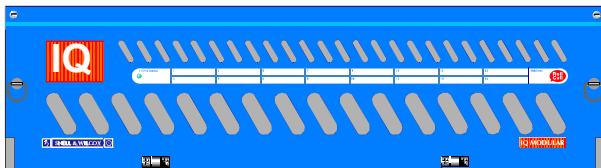
IQDSDED-1	Dual input SDI DA + encoder: 2 SDI + 2 comp outputs per channel	Single width module
IQDSDED-2	Dual input SDI DA + encoder: 3 SDI + 3 comp outputs per channel	Double width module
IQDSDED-1A	Dual input SDI DA + encoder: 2 SDI + 2 comp outputs per channel	Single width module
IQDSDED-2A	Dual input SDI DA + encoder: 3 SDI + 2 comp outputs per channel	Double width module

Note that pages 7, 14, 21-27, 33-38 relate specifically to IQDSDED versions.

**Note that there are two styles of rear panels available. They are not interchangeable between the two styles of enclosures. However, the cards may be fitted into any style of enclosure.**

**‘A’ Style Enclosure**

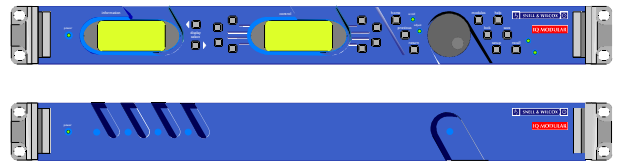
Rear panels **with** the suffix A may only be fitted into the ‘A’ style enclosure shown below.



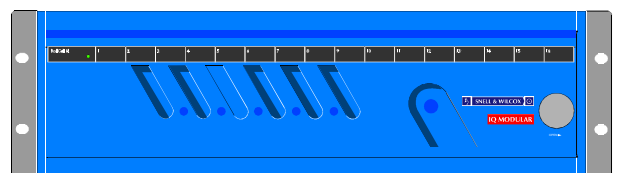
(Enclosure order codes IQH3A-E-O, IQH3A-E-P, IQH3A-N-O, IQH3A-N-P)

**‘O’ Style Enclosures**

Rear panels **without** the suffix A may only be fitted into the ‘O’ style enclosures shown below.



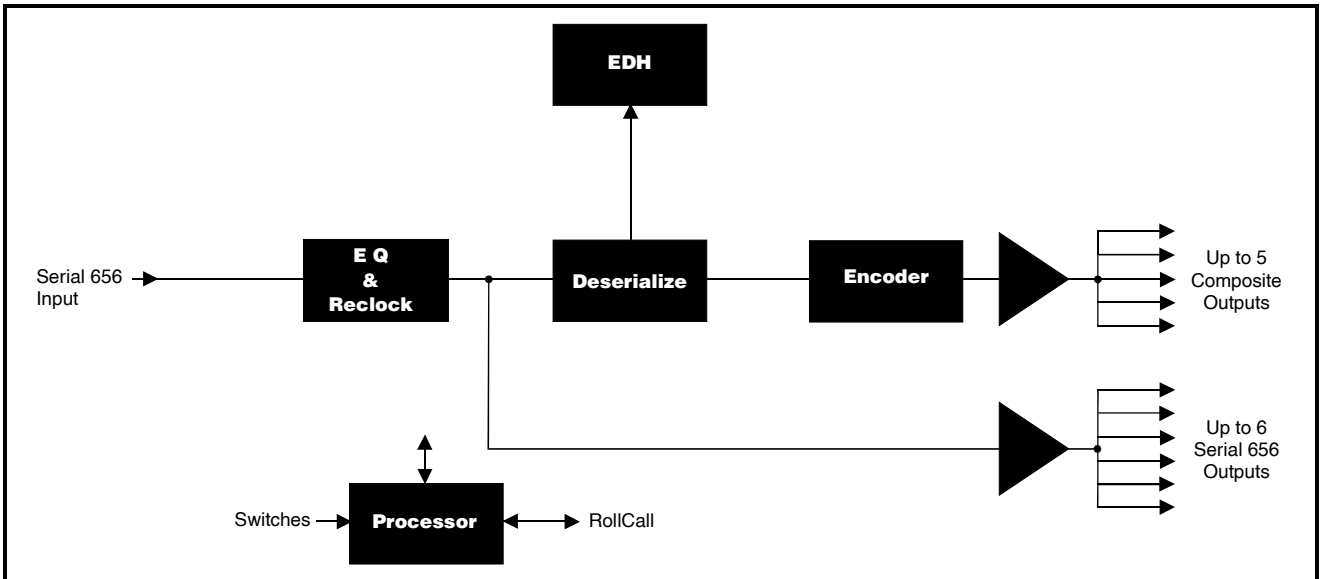
(Enclosure order codes IQH1S-RC-O, IQH1S-RC-AP, IQH1U-RC-O, IQH1U-RC-AP, Kudos Plus Products)



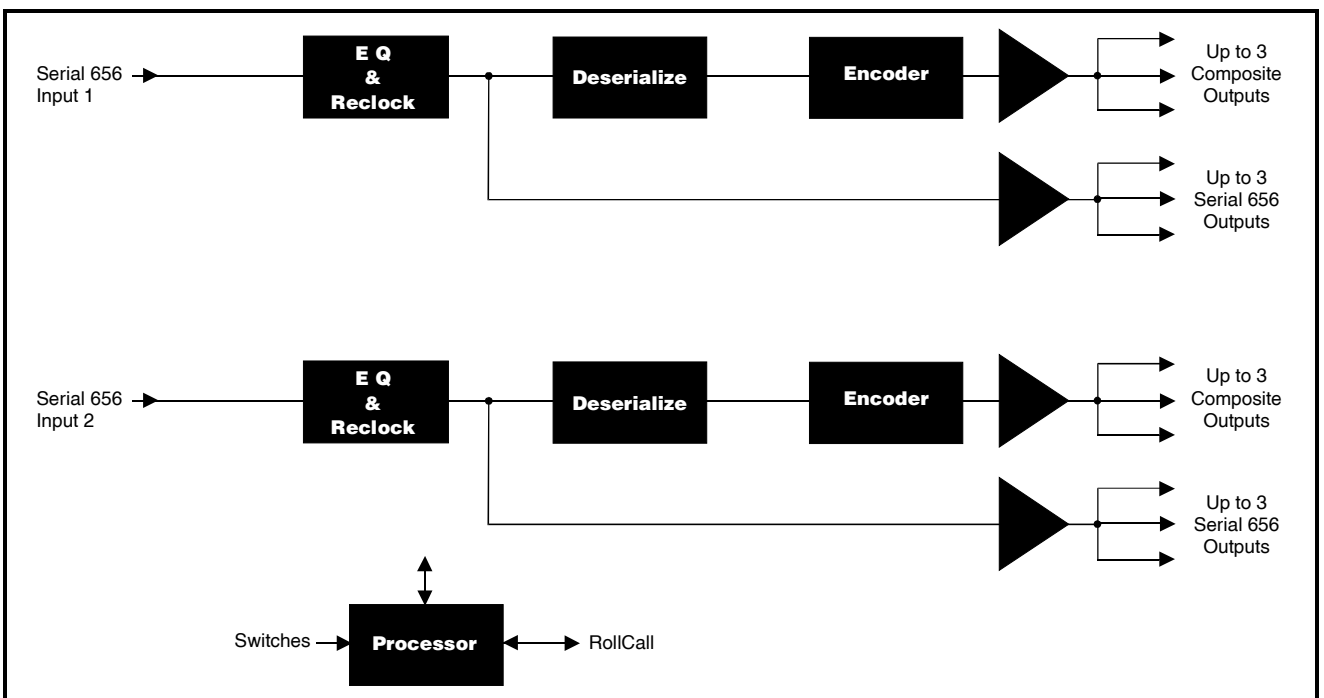
(Enclosure order codes IQH3N-O, IQH3N-P)

BLOCK DIAGRAM

IQDSDES versions



IQDSDED versions



## Features

### ***IQDSDES versions***

- Single channel SDI reclocker & encoder
- Up to 6 reclocked serial component outputs
- Up to 5 composite PAL/NTSC/NTSCJ/PALN/N4.4/PALM outputs
- EDH error detection and reporting
- Test signal generation (color bars)
- Black, Bars or Muted output in event of input loss
- Automatic 525/625 line detection and no valid signal indication
- Sends RollTrack commands for input loss or error
- Full RollCall remote control and card edge control

### ***IQDSDED versions***

- Dual channel SDI reclocker & encoder
- Allows up to 32 channels per 3RU chassis
- Up to 3 reclocked serial component outputs per channel
- Up to 3 composite PAL/NTSC/NTSCJ/PALN/ N4.43/PALM outputs per channel
- Test signal generation (color bars)
- Black, Bars or Muted output in event of input loss
- Automatic 525/625 line detection and no valid signal indication
- Sends RollTrack commands for input loss or error
- Full RollCall remote control and card edge control

## Technical Profile

### ***IQDSDES versions***

### **Features**

#### **Signal Inputs**

Serial Digital..... 1 x SDI Via BNC Connector  
Standards ..... SMPTE 259M-C-1997

#### **Signal Outputs**

Serial Digital..... Up to 6 x SDI via BNC Connectors  
Standards ..... SMPTE 259M-C-1997  
Composite Video ..... Up to 5 composite encoded via  
BNC Connectors  
Standards ..... PAL/NTSC//NTSC-J/PAL-M  
/PAL-N/N4.43

#### **Indicators**

Power OK ..... +ve and -ve supplies  
Input Loss  
EDH..... Present; Error-Minute: Error-Hour)

#### **Card Edge Controls (also available via RollCall)**

Pattern Enable ..... Enables pattern on output  
EDH Reset ..... Resets EDH Flags

#### **Functions Available via RollCall™ Only**

Logging ..... Input Loss; Input Line Standard;  
[EDH error]  
RollTrack..... Input Loss or Input error  
Default Output..... Color bars, black or mute  
Force Standard ..... PAL / NTSC / NTSCJ / PALM /  
PALN / N4.43  
VBI Pass ..... Passes vertical interval lines  
Chroma Bandwidth ..... 1.6 MHz or 2 MHz  
(default = 1.6 MHz)

### **Specifications**

Input Return Loss..... Better than 15dB to 270 MHz  
Serial Output Return Loss.. Better than 15dB to 270 MHz  
Y Frequency Response..... 0-4MHz + 0.1dB, -0.4dB  
U & V Frequency Response1.6 MHz or 2 MHz (selectable)  
-6dB  
Differential Gain ..... Better than 1%  
Differential Phase ..... Better than 2°  
Composite Output Return Loss  
Better than 36dB to 5.5 MHz  
Signal/Noise Ratio ..... Better than – 68dB (weighted – flat  
field)  
Better than –62dB (weighted –  
ramp)  
2T Pulse-Shape k- rating ... Better than 1%  
Processing delay..... ~ 2.25µs  
Output D.C..... <50 mV

#### **Power Consumption**

Module Power Consumption  
6W max  
EMC Performance Information  
Environment ..... Commercial and light industrial E2  
Peak Mains Inrush Current following a 5 second mains  
interruption  
No mains input  
Performance Information.... Immunity to conducted  
common-mode RF interference  
(EN 55103-2 immunity  
phenomenon I6):  
When the serial input is subjected  
to modulated RF interference at a  
level of 3 V, up to 20 mV pk-pk of  
interference may be present at the  
composite outputs.

*Note that to ensure reliable transmission of serial digital signals without causing unacceptable levels of radiated emissions, only high quality 75 Ohm co-axial cable should be used. The cable must also be terminated with a precision 75 Ohm load.*

# Technical Profile

## ***IQDSDED versions***

### **Features**

#### **Signal Inputs**

Serial Digital..... 2 (1 per channel) x SDI via BNC Connectors

Standards ..... SMPTE 259M-C-1997

#### **Signal Outputs**

Serial Digital..... Up to 3 x SDI per channel via BNC Connectors

Standards ..... SMPTE 259M-C-1997

Composite Video ..... Up to 6 (up to 3 per channel) composite encoded via BNC Connectors

Standards ..... PAL/NTSC//NTSC-J/PAL-M /PAL-N/N4.43

#### **Indicators**

Power OK ..... +ve and -ve supplies

Input Loss – encoder A .....

Input Loss – encoder B .....

#### **Card Edge Controls (also available via RollCall)**

Pattern Enable A..... Enables pattern on output A

Pattern Enable B..... Enables pattern on output B

#### **Functions Available via RollCall™ Only**

*All the functions listed are available for both channels*

Logging ..... Input Loss; Input Line Standard

RollTrack..... Input Loss or Input error

Default Output..... Color bars, black or mute

Force Standard ..... PAL / NTSC / NTSCJ / PALM / PALN / N4.43

Pattern Select – Encoder A Color Bars

Pattern Select – Encoder B Color Bars

VBI Pass..... Passes vertical interval lines

Chroma Bandwidth ..... 1.6 MHz or 2 MHz – both encoders (default = 1.6 MHz)

## **Specifications**

Input Return Loss..... Better than 15dB to 270 MHz

Serial Output Return Loss.. Better than 15dB to 270 MHz

Y Frequency Response..... 0-4MHz + 0.1dB, -0.4dB

U & V Frequency Response 1.6 MHz or 2 MHz (selectable) -6dB

Differential Gain ..... Better than 1%

Differential Phase ..... Better than 2°

Composite Output Return Loss  
Better than 36dB to 5.5 MHz

Signal/Noise Ratio ..... Better than – 68dB (weighted – flat field)  
Better than –62dB (weighted – ramp)

2T Pulse-Shape k- rating ... Better than 1%

Processing delay..... ~ 2.25µs

Output D.C..... <50 mV

#### **Power Consumption**

Module Power Consumption 7.5W max

#### **EMC Performance Information**

Environment ..... Commercial and light industrial E2

Peak Mains Inrush Current following a 5 second mains interruption  
No mains input

Performance Information.... Immunity to conducted common-mode RF interference (EN 55103-2 immunity phenomenon I6):  
When the serial input is subjected to modulated RF interference at a level of 3 V, up to 20 mV pk-pk of interference may be present at the composite outputs.

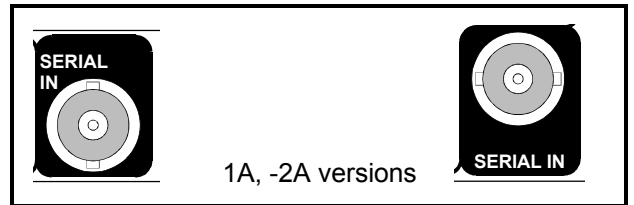
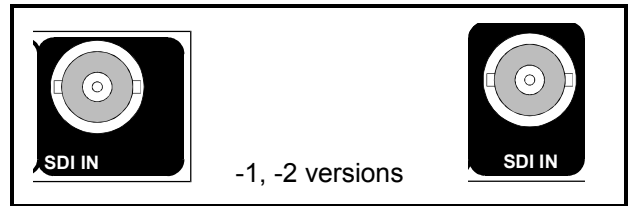
*Note that to ensure reliable transmission of serial digital signals without causing unacceptable levels of radiated emissions, only high quality 75 Ohm co-axial cable should be used. The cable must also be terminated with a precision 75 Ohm load.*

**INPUTS**

**SERIAL INPUT**

(IQDSDES single input versions)

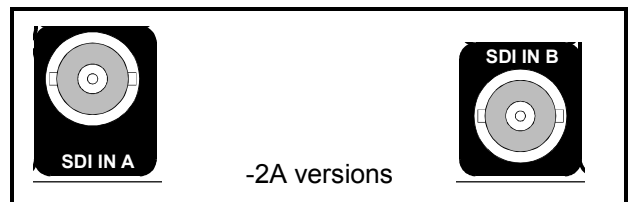
The serial digital input to the unit is made via this BNC connector that terminates in 75 Ohms.



**SERIAL INPUTS**

(IQDSDED dual input versions)

The serial digital input to the unit is made via this BNC connector that terminates in 75 Ohms.



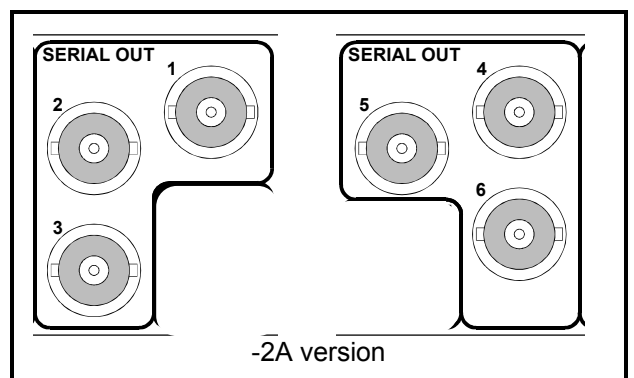
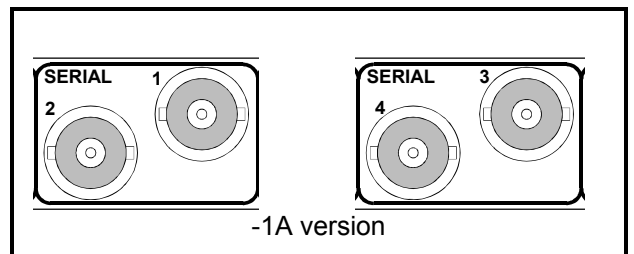
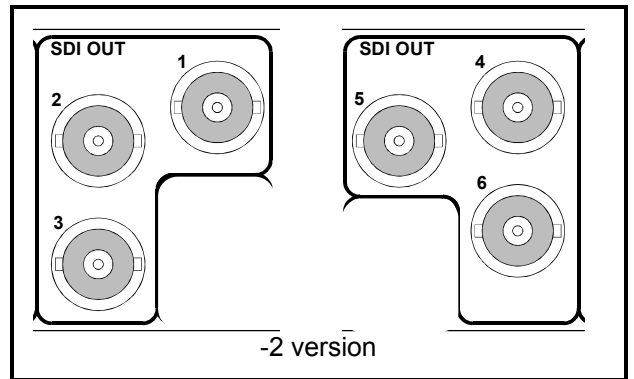


**OUTPUTS**

**SERIAL OUTPUTS**

(IQDSDES single input versions)

These are the isolated Serial Digital outputs of the unit via BNC connectors for 75 Ohms.

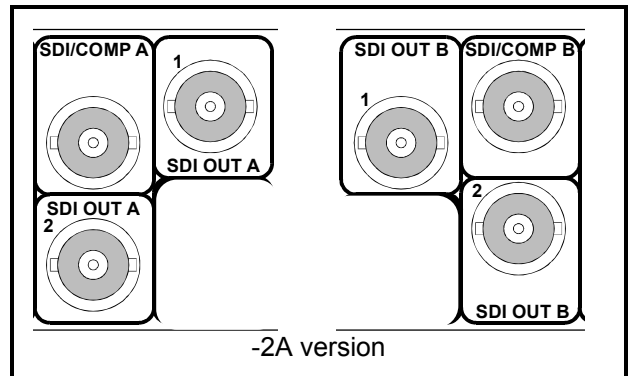
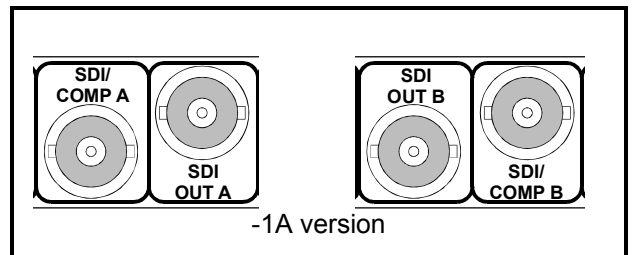
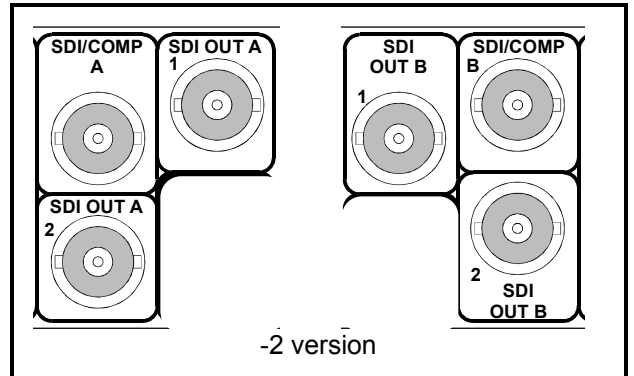
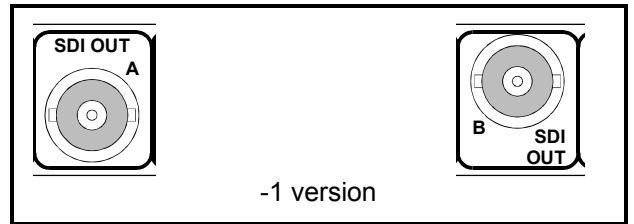


SERIAL OUTPUTS

(IQDSDED dual input versions)

These are the isolated Serial Digital outputs of the unit via BNC connectors for 75 Ohms.

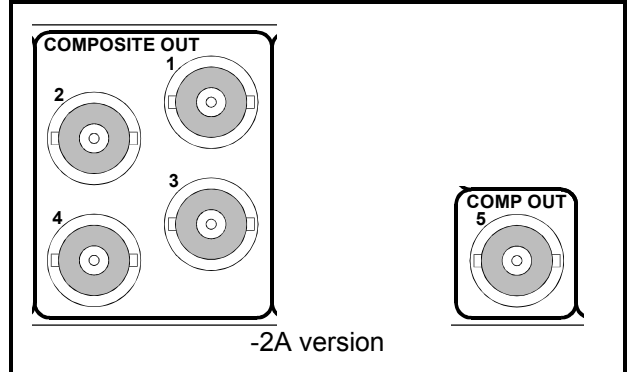
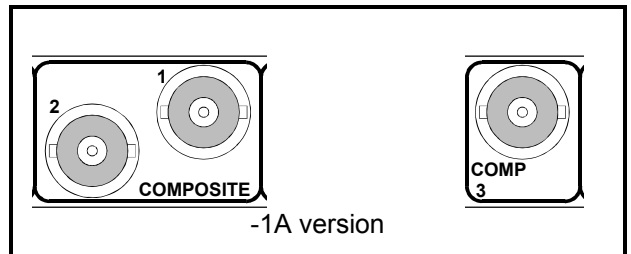
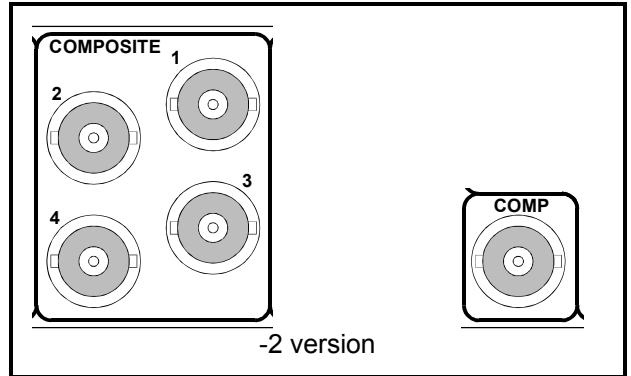
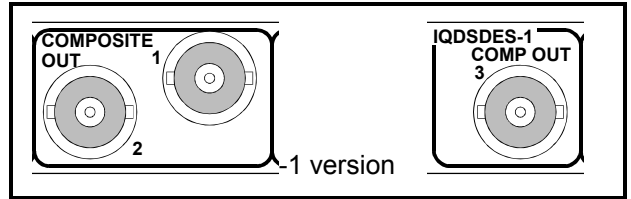
*Note that some of the connectors have dual functionality. Their function may be configured by the use of links on the card.*



COMPOSITE OUTPUTS

(IQDSDES single input versions)

These are the composite outputs of the unit via BNC connectors for 75 Ohms.

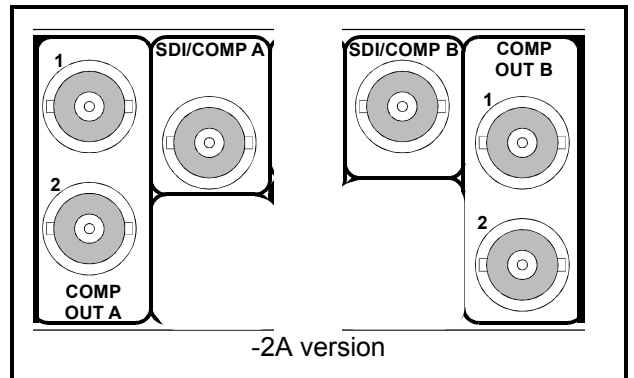
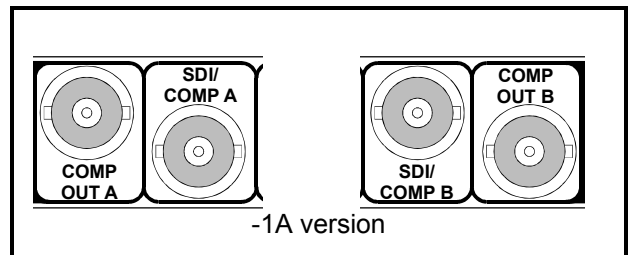
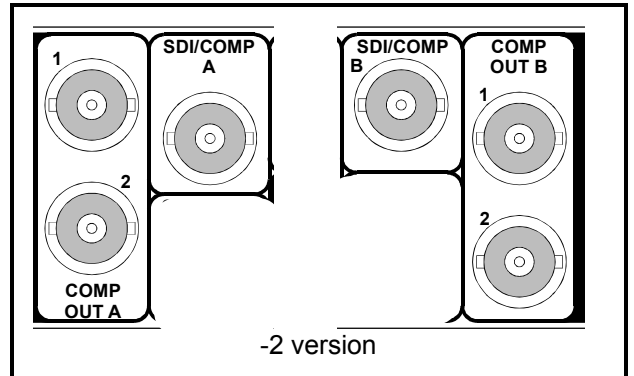
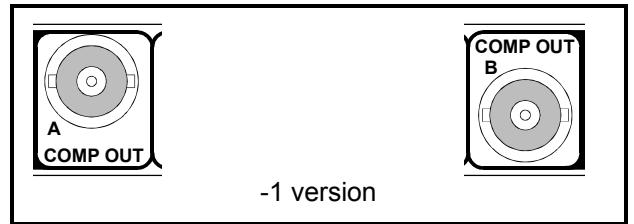


COMPOSITE OUTPUTS

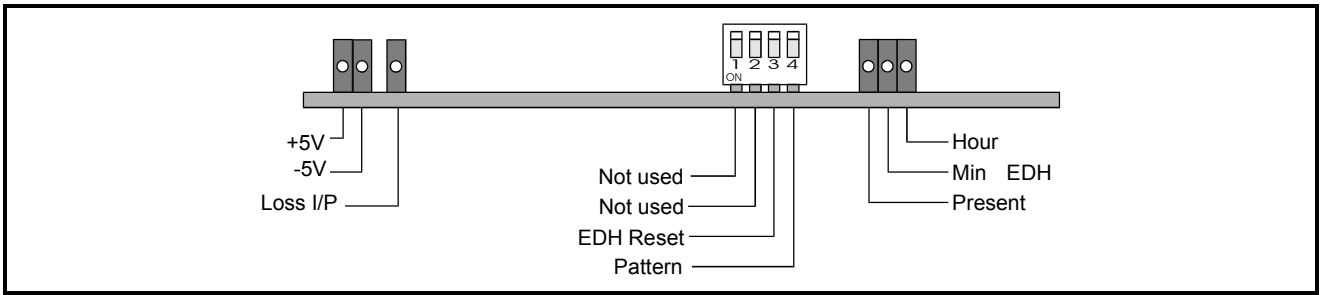
(IQDSDED dual input versions)

These are the composite outputs of the unit via BNC connectors for 75 Ohms.

*Note that some of the connectors have dual functionality. Their function may be configured by the use of links on the card.*



CARD EDGE CONTROLS (IQDSDES)



LED INDICATORS

Power Supplies

When illuminated these LED's will indicate that the +5V and the -5V power supplies are present.

Loss I/P

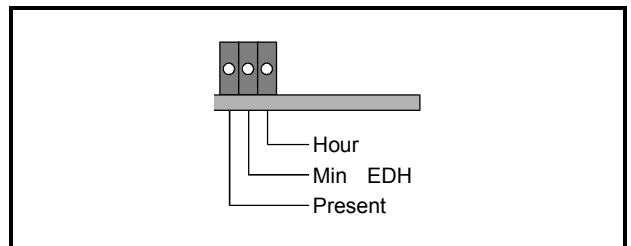
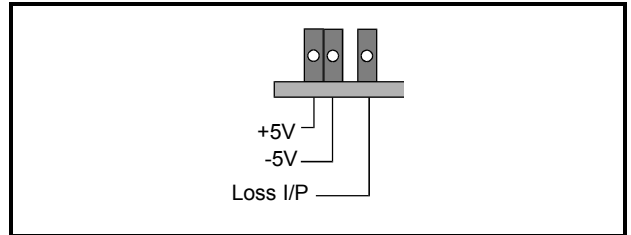
When illuminated this LED indicates that there is no serial input signal.

EDH Reporting

The present LED will be illuminated if EDH data is present on the incoming signal

The Min LED indicates that an error has occurred in the last minute and the Hour LED indicates that an error has occurred in the last hour.

*Note that DIL switch position 3 resets these indicators.*



4 WAY DIL SWITCH

This switch allows various functions to be set.

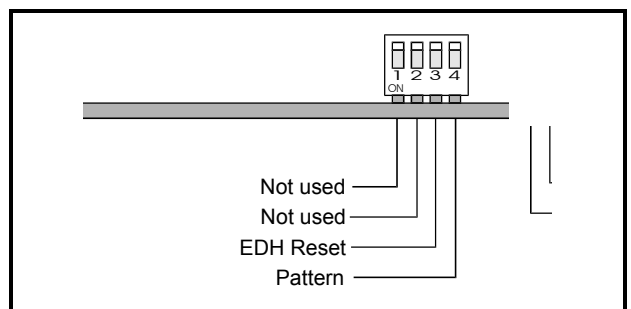
*Note that positions 1 and 2 have no function.*

Position 3 EDH Reset

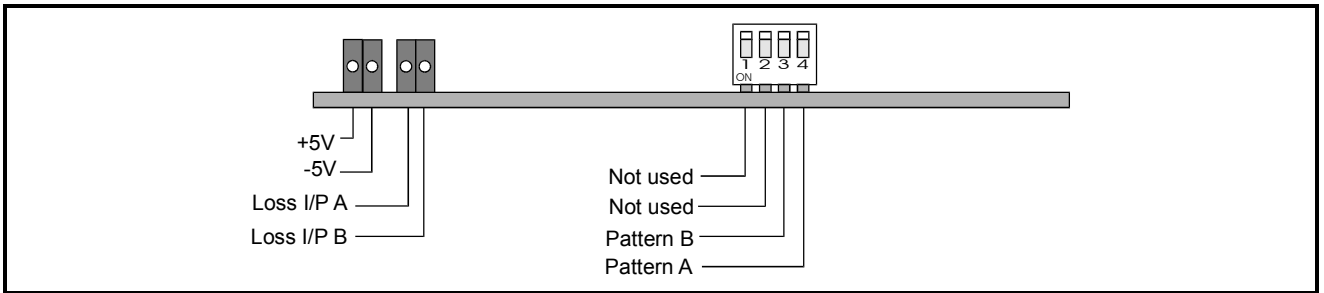
Setting this to the ON position will reset the EDH counters and the LED indicators.

Position 4

When set to ON the output will become a pattern.



CARD EDGE CONTROLS (IQDSDED)



LED INDICATORS

Power Supplies

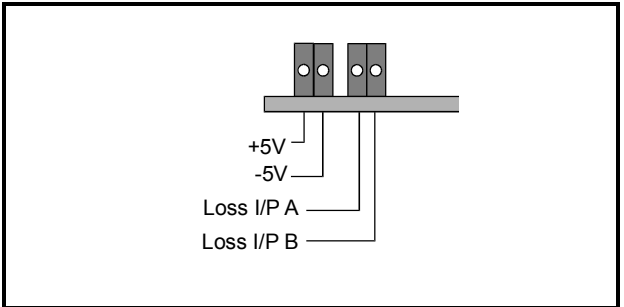
When illuminated these LED's will indicate that the +5V and the -5V power supplies are present.

Loss I/P A

When illuminated this LED indicates that there is no A serial input signal.

Loss I/P B

When illuminated this LED indicates that there is no B serial input signal.



4 WAY DIL SWITCH

This switch allows various functions to be set.

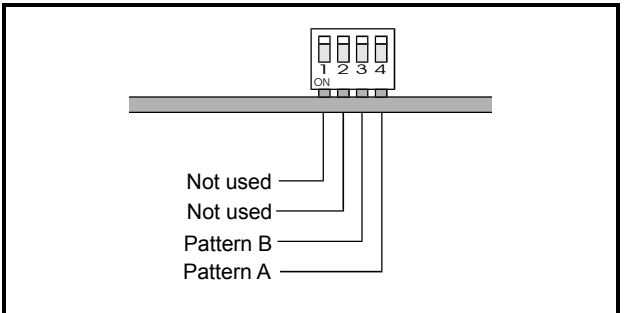
*Note that positions 1 and 2 have no function.*

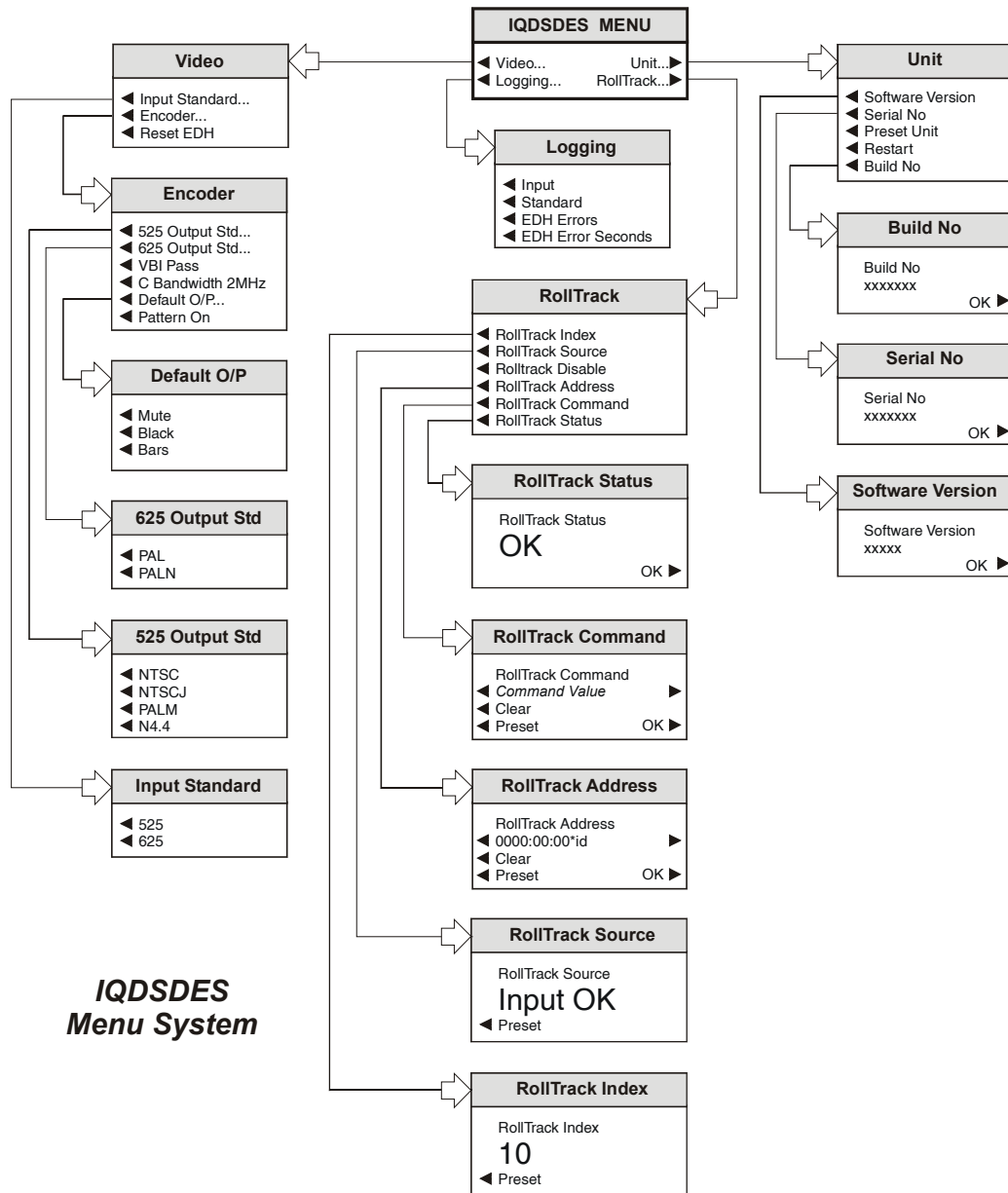
Position 3 (Pattern B)

When set to ON output B will become a pattern.

Position 4 (Pattern A)

When set to ON output A will become a pattern.





OPERATION FROM AN ACTIVE CONTROL PANEL

The card may be operated with an active control panel via the RollCall network.

The menus available for this card are shown on the previous page and will appear in the Control display window.

Operational details for the remote control panel will be found in SECTION 1 of the Modular System Operator's Manual.

MENU DETAILS (see IQDSDES Menu System Opposite)

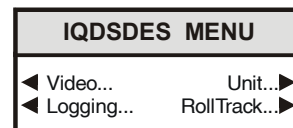
MAIN MENU

The main, or top level menu allows various sub-menus to be selected by pressing the button adjacent to the required text line.

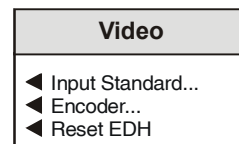
*Note that where a menu item is followed by three dots (...) this indicates that a further sub-menu may be selected.*

Whenever a menu item is selected the parameters of that selection will be displayed in the Information window of the front panel. Where the selection is purely a mode selection and does not enable a sub-menu, the text will become reversed (white-on-black) indicating that the mode is active. If the mode is not available for selection the text will remain normal.

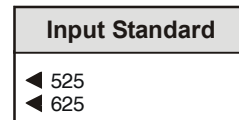
MAIN MENU



This menu allows various settings to be setup.



◀ Input Standard



This allows the input line standard to chosen.

◀ 525

If only this item is selected the unit will only accept a 525 line standard input signal.

◀ 625

If only this item is selected the unit will only accept a 625 line standard input signal.

*Note that if both 525 and 625 items are selected the unit will accept either of the line standards.*



◀ Encoder

Encoder
◀ 525 Output Std...
◀ 625 Output Std...
◀ VBI Pass
◀ C Bandwidth 2MHz
◀ Default O/P...
◀ Pattern On

This allows the composite output signal to be selected for both 525 and 625 line standards.

◀ 525 Output Std

525 Output Std
◀ NTSC
◀ NTSCJ
◀ PALM
◀ N4.4

One 525 line composite output signal format may be selected from the following list:

- ◀ NTSC
- ◀ NTSCJ
- ◀ PAL-M
- ◀ N4.4

◀ 625 Output Std

625 Output Std
◀ PAL
◀ PALN

One 625 line composite output signal format may be selected from the following list:

- ◀ PAL
- ◀ PALN

◀ VBI Pass

This function allows vertical interval lines to be unblanked and passed to the output.

When operating in 625 line mode, field 1 lines 7 to 23.5 and field 2 lines 320 to 335 will be unblanked.

When operating in 525 line mode, field 1 lines 10 to 21 and field 2 lines 10 (273) to 21.5 (284.5) will be unblanked.

◀ C Bandwidth 2 MHz

When selected the chrominance bandwidth will be set to 2 MHz.

When unselected the bandwidth will be 1.6 MHz.

Preset is to 1.6 MHz.

◀ Default O/P

Default O/P
◀ Mute
◀ Black
◀ Bars

If the input signal fails or is of poor quality this function will determine what the output signal will become under such conditions.

Selections available are:

- ◀ Mute                      No signal will appear at the output.
- ◀ Black                     The output will become a black burst signal in the selected composite format.
- ◀ Bars                      The output will become a color bar signal in the selected composite format.

◀ Pattern On

When selected the output will become a color bar signal in the selected composite format.

◀ Reset EDH

Selecting this function will reset the EDH counter to zero.

**Unit ▶**

Unit
<ul style="list-style-type: none"> <li>◀ Software Version</li> <li>◀ Serial No</li> <li>◀ Preset Unit</li> <li>◀ Restart</li> <li>◀ Build No</li> </ul>

This menu allows settings of the unit to be returned to their preset values, the unit rebooted and identification information provided about the module.

**◀ Software Version**

Software Version
Software Version xxxxxx OK ▶

This item shows the version of the software fitted in the module.

**◀ Serial No**

Serial No
Serial No xxxxxx OK ▶

This item shows the serial number of the module

**◀ Preset Unit**

Selecting this item sets all adjustment functions that include a preset facility, to their preset values.

**◀ Restart**

This will reboot the unit simulating a power-down power-up cycle restoring power-up settings.

**◀ Build Number**

Build No
Build No xxxxxxx OK ▶

This will indicate the factory build number. This number defines all parameters of the unit (software versions, build level etc.) for identification purposes.

**◀ Logging**

Logging
<ul style="list-style-type: none"> <li>◀ Input</li> <li>◀ Standard</li> <li>◀ EDH Errors</li> <li>◀ EDH Error Seconds</li> </ul>

If a logging device is attached to the RollCall™ network, information about various parameters can be made available to such a device.

Any of the following selections may be made:

**◀ Input**

The status of the input signal will be reported.

**◀ Standard**

The line standard the input will be reported.

**◀ EDH Errors**

Any EDH errors will be reported.

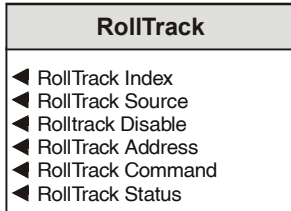
**◀ EDH Error Seconds**

The number of program seconds containing one or more EDH errors since the last reset.

**RollTrack ▶**

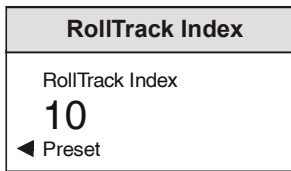
This function allows information to be sent, via the RollCall™ network, to other compatible units connected on the same network.

For example, it could be used to cause a source selection change via an IQDCO module.



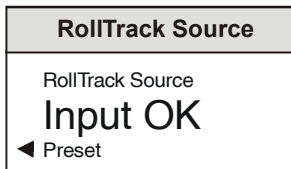
◀ RollTrack Index

This item allows up to 6 destinations to be selected.



◀ RollTrack Source

This allows the source of information that triggers the transmission of data, to be selected.



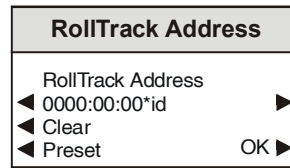
This allows the source of information that triggers the transmission of data to be selected. Options are:

- Unused (off)
- Input Missing
- Input OK
- Input Error

◀ RollTrack Disable

When this item is selected all RollTrack items will be disabled.

◀ RollTrack Address



This item allows the RollTrack Address code to be set up using the adjacent push buttons to edit the text.

To edit the text the buttons adjacent to the upper text line in the menu are used to select the character position in the text and the spinwheel used to select the character.

(The right ▶ and left ◀ buttons select the cursor position and the spinwheel selects the character; the clear button sets the text line to all zero's and the OK button accepts the network address)

*For more detailed information see the RollTrack section of this manual.*

The full **RollTrack** address has four sets of numbers

For example: 0000:10:01\*99

The first set (0000) is the network segment code number

The second set (10) is the number identifying the (enclosure/mainframe) unit

The third set (01) is the slot number in the unit

The fourth set (99) should be set to the unique RollCall ID number of the destination module. This ensures that only the correct unit will respond to the command. If left at 00 an incorrectly fitted unit may respond inappropriately.

## ◀ RollTrack Command

RollTrack Command	
RollTrack Command	
◀ 0 ▶	
◀ Clear ▶	
◀ Preset ▶	OK ▶

The full **RollTrack** command has two sets of numbers.

For example: 84\*156

The first set (84) is the **RollTrack** command number.

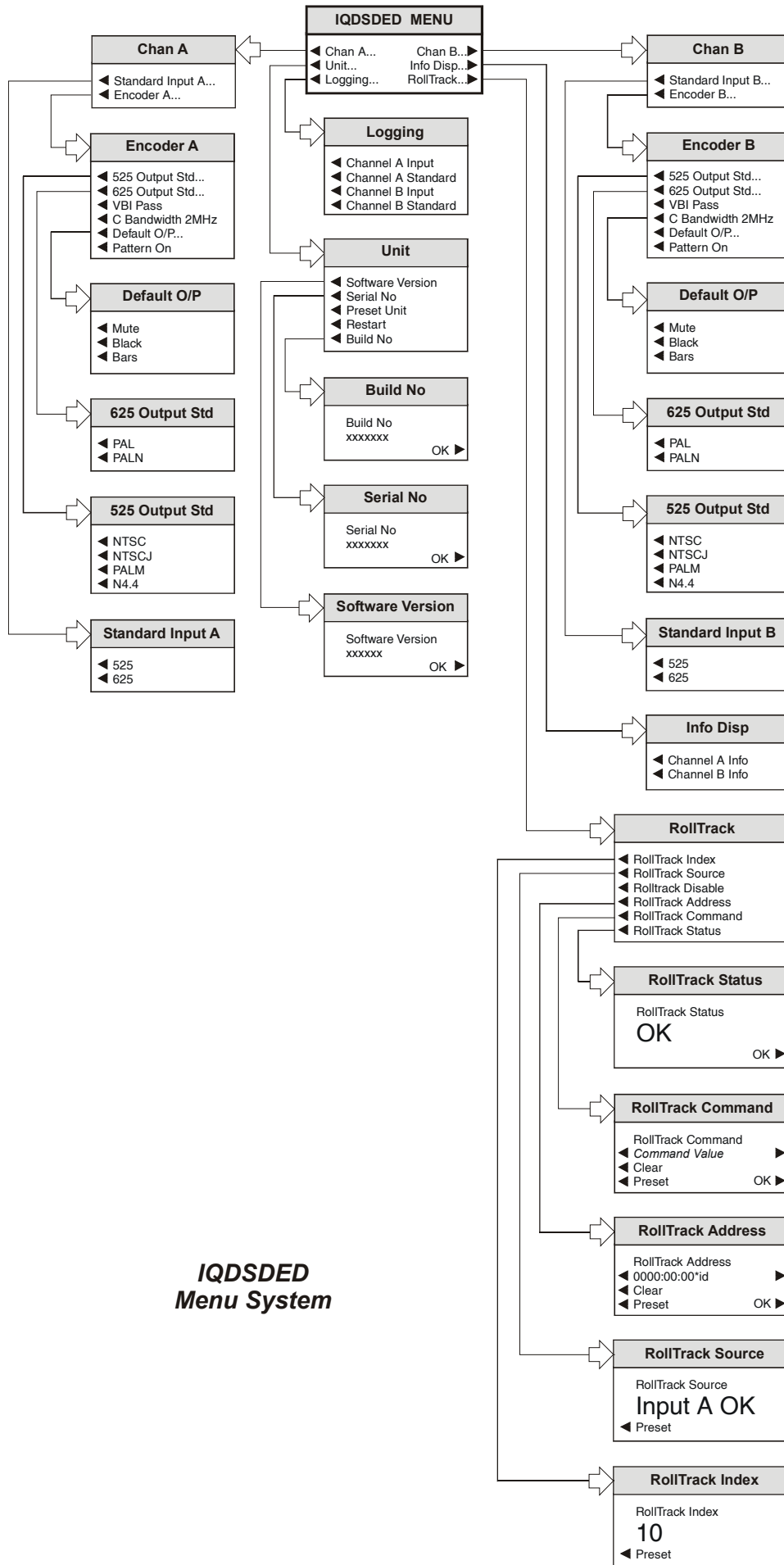
The second set (156) is the value sent with the **RollTrack** command number.

*For details of the RollCall command values for specific units please contact your local Snell & Wilcox agent.*

## ◀ RollTrack Status

RollTrack Status	
RollTrack Status	
OK	
◀ Preset ▶	

This item will show the status of the selected RollTrack Index.



***IQDSDED  
Menu System***

OPERATION FROM AN ACTIVE CONTROL PANEL

The card may be operated with an active control panel via the RollCall network.

The menus available for this card are shown on the previous page and will appear in the Control display window.

Operational details for the remote control panel will be found in SECTION 1 of the Modular System Operator's Manual.

MENU DETAILS (see IQDSDED Menu System Opposite)

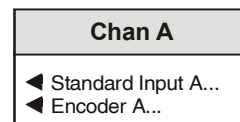
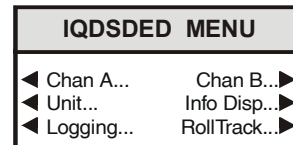
MAIN MENU

The main, or top level menu allows various sub-menus to be selected by pressing the button adjacent to the required text line.

*Note that where a menu item is followed by three dots (...) this indicates that a further sub-menu may be selected.*

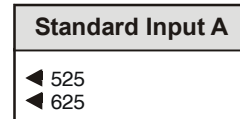
Whenever a menu item is selected the parameters of that selection will be displayed in the Information window of the front panel. Where the selection is purely a mode selection and does not enable a sub-menu, the text will become reversed (white-on-black) indicating that the mode is active. If the mode is not available for selection the text will remain normal.

MAIN MENU



This menu allows settings for Channel A to be selected.

◀ Standard Input A



This allows the input line standard to chosen.

◀ 525

If only this item is selected the unit will only accept a 525 line standard input signal.

◀ 625

If only this item is selected the unit will only accept a 625 line standard input signal.

*Note that if both 525 and 625 items are selected the unit will accept either of the line standards.*

◀ Encoder A

Encoder A
<ul style="list-style-type: none"> <li>◀ 525 Output Std...</li> <li>◀ 625 Output Std...</li> <li>◀ VBI Pass</li> <li>◀ C Bandwidth 2MHz</li> <li>◀ Default O/P...</li> <li>◀ Pattern On</li> </ul>

This allows the composite output signal format for channel A to be selected for both 525 and 625 line standards.

◀ 525 Output Std

525 Output Std
<ul style="list-style-type: none"> <li>◀ NTSC</li> <li>◀ NTSCJ</li> <li>◀ PALM</li> <li>◀ N4.4</li> </ul>

One 525 line composite output signal format may be selected from the following list:

- ◀ NTSC
- ◀ NTSCJ
- ◀ PAL-M
- ◀ N4.4

◀ 625 Output Std

625 Output Std
<ul style="list-style-type: none"> <li>◀ PAL</li> <li>◀ PALN</li> </ul>

One 625 line composite output signal format may be selected from the following list:

- ◀ PAL
- ◀ PALN

◀ VBI Pass

This function allows vertical interval lines to be unblanked and passed to the output.

When operating in 625 line mode, field 1 lines 7 to 23.5 and field 2 lines 320 to 335 will be unblanked.

When operating in 525 line mode, field 1 lines 10 to 21 and field 2 lines 10 (273) to 21.5 (284.5) will be unblanked.

◀ C Bandwidth 2 MHz

When selected the chrominance bandwidth will be set to 2 MHz.

When unselected the bandwidth will be 1.6 MHz.

◀ Default O/P

Default O/P
<ul style="list-style-type: none"> <li>◀ Mute</li> <li>◀ Black</li> <li>◀ Bars</li> </ul>

If the input signal fails or is of poor quality this function will determine what the output signal will become under such conditions.

Selections available are:

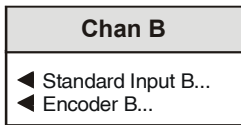
- ◀ Mute            No signal will appear at the output.
- ◀ Black            The output will become a black burst signal in the selected composite format.
- ◀ Bars            The output will become a color bar signal in the selected composite format.

◀ Pattern On

When selected the output will become a color bar signal in the selected composite format.

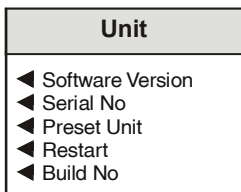
**Chan B ▶**

This menu allows settings for Channel B to be selected.



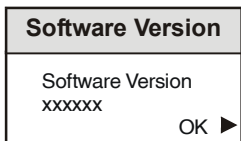
Functions are the same as for Channel A.

**◀ Unit**



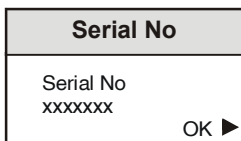
This menu allows settings of the unit to be returned to their preset values, the unit rebooted and identification information provided about the module.

**◀ Software Version**



This item shows the version of the software fitted in the module.

**◀ Serial No**



This item shows the serial number of the module

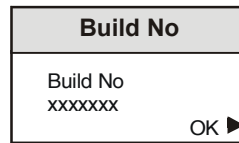
**◀ Preset Unit**

Selecting this item sets all adjustment functions that include a preset facility, to their preset values.

**◀ Restart**

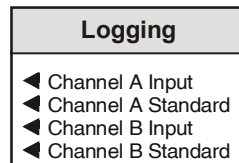
This will reboot the unit simulating a power-down power-up cycle restoring power-up settings.

**◀ Build Number**



This will indicate the factory build number. This number defines all parameters of the unit (software versions, build level etc.) for identification purposes.

**◀ Logging**



If a logging device is attached to the RollCall™ network, information about various parameters can be made available to such a device.

Any of the following selections may be made:

**◀ Channel A Input**

The status of Channel A input signal will be reported.

**◀ Channel A Standard**

The line standard of Channel A will be reported.

**◀ Channel B Input**

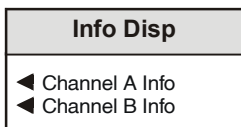
The status of Channel B input signal will be reported.

**◀ Channel B Standard**

The line standard of Channel B will be reported.

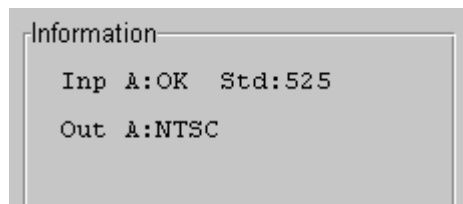


**Info Disp ▶**



This item allows abbreviated information about either channel A or channel B to be displayed in the information window.

**◀ Channel A Info**



**Line 1 Details**

The first item of line 1, **Inp A:** indicates the input channel.

The second item of line 1, **\*\***, will show the status of the input signal. The following abbreviations may be displayed:

- OK This indicates that a valid input signal is present
- \*\* This indicates that a valid input signal is not present.

The third item of line 1, **Std:525**, will show the input signal standard. The following abbreviations may be displayed:

- 625 The input standard is 625.
- 525 The input standard is 525.

**Line 2 Details**

The first item of line 2, **Out A:** indicates the output channel.

The second item of line 2, **NTSC**, will indicate the composite output signal format.

The following abbreviations may be displayed:

- PAL
- PAL-N
- (for 625 Line Standards)

- NTSC
- NTSCJ
- PAL-M
- N4.4
- (for 525 Line Standards)

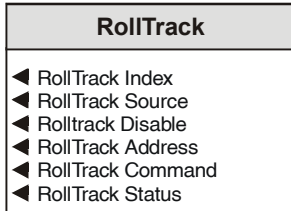
**◀ Channel B Info**

This will display information about Channel B in a similar way to channel A.

**RollTrack ▶**

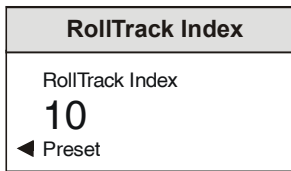
This function allows information to be sent, via the RollCall™ network, to other compatible units connected on the same network.

For example, it could be used to cause a source selection change via an IQDCO module.



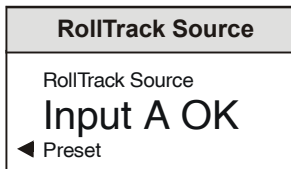
◀ RollTrack Index

This item allows up to 12 destinations to be selected.



◀ RollTrack Source

This allows the source of information that triggers the transmission of data, to be selected.



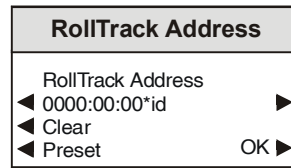
This allows the source of information that triggers the transmission of data to be selected. Options are:

- Unused (off)
- Input A OK
- Input A Error
- Input B Missing
- Input B OK
- Input B Error

◀ RollTrack Disable

When this item is selected all RollTrack items will be disabled.

◀ RollTrack Address



This item allows the RollTrack Address code to be set up using the adjacent push buttons to edit the text.

To edit the text the buttons adjacent to the upper text line in the menu are used to select the character position in the text and the spinwheel used to select the character.

(The right ▶ and left ◀ buttons select the cursor position and the spinwheel selects the character; the clear button sets the text line to all zero's and the OK button accepts the network address)

*For more detailed information see the RollTrack section of this manual.*

The full **RollTrack** address has four sets of numbers

For example: 0000:10:01\*99

The first set (0000) is the network segment code number

The second set (10) is the number identifying the (enclosure/mainframe) unit

The third set (01) is the slot number in the unit

The fourth set (99) should be set to the unique RollCall ID number of the destination module. This ensures that only the correct unit will respond to the command. If left at 00 an incorrectly fitted unit may respond inappropriately.

## ◀ RollTrack Command

RollTrack Command	
RollTrack Command	
◀ 0 ▶	
◀ Clear ▶	
◀ Preset ▶	OK ▶

The full **RollTrack** command has two sets of numbers.

For example: 84\*156

The first set (84) is the **RollTrack** command number.

The second set (156) is the value sent with the **RollTrack** command number.

*For details of the RollCall command values for specific units please contact your local Snell & Wilcox agent.*

## ◀ RollTrack Status

RollTrack Status	
RollTrack Status	
OK	
◀ Preset ▶	

This item will show Status of the selected RollTrack Index.

**RollCall Control Templates for the IQDSDES**

**Video**

This screen allows various settings to be setup.

**Input**

525

If only this item is selected the unit will only accept a 525 line standard input signal.

625

If only this item is selected the unit will only accept a 625 line standard input signal.

*Note that if both 525 and 625 items are selected the unit will accept either of the line standards.*

**Output**

This allows the composite output signal format to be selected for both 525 and 625 line standards.

**525 Std**

One 525 line composite output signal formats may be selected from the following list:

- NTSC
- NTSCJ
- PALM
- N4.4

**625 Std**

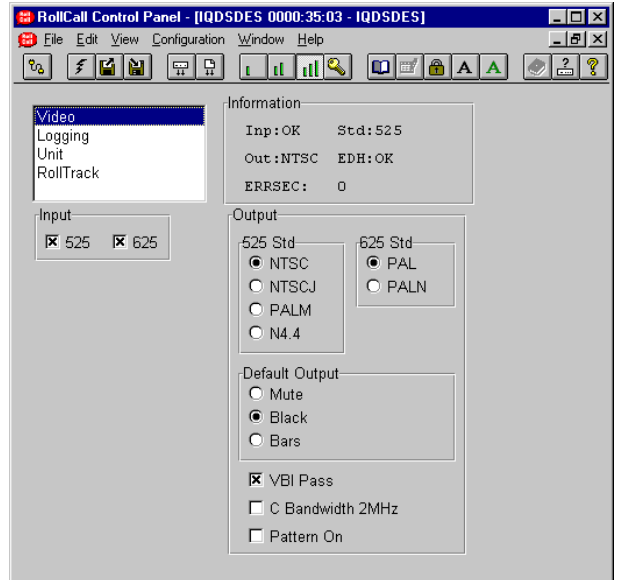
One 625 line composite output signal formats may be selected from the following list:

- PAL
- PAL-N

**Default Output**

If the input signal fails or is of poor quality this function will determine what the output signal will become under such conditions.

- Mute      No signal will appear at the output.
- Black      The output will become a black burst signal in the selected composite format.
- Bars      The output will become a color bar signal in the selected composite format.



VBI Pass

This function allows vertical interval lines to be unblanked and passed to the output.

When operating in 625 line mode, field 1 lines 7 to 23.5 and field 2 lines 320 to 335 will be unblanked.

When operating in 525 line mode, field 1 lines 10 to 21 and field 2 lines 10 (273) to 21.5 (284.5) will be unblanked.

C Bandwidth 2 MHz

When checked the chrominance bandwidth will be set to 2 MHz.

When unselected the bandwidth will be 1.6 MHz.

Pattern On

When checked the output will become a color bar signal in the selected composite format.

**Information**

This item shows abbreviated information about the operation.

**Line 1 Details**

The first item of line 1, \*\*, will show the status of the input signal. The following abbreviations may be displayed:

- OK** This indicates that a valid input signal is present
- \*\*** This indicates that a valid input signal is not present.

The third item of line 1, **Std:525**, will show the input signal standard. The following abbreviations may be displayed:

- 625** The input standard is 625.
- 525** The input standard is 525.

**Line 2 Details**

The first item of line 2, **Out:PAL**, will indicate the composite output signal format.

The following abbreviations may be displayed:

- PAL**
- PAL-N**
- (for 625 Line Standards)

- NTSC**
- NTSCJ**
- PAL-M**
- N4.4**
- (for 525 Line Standards)

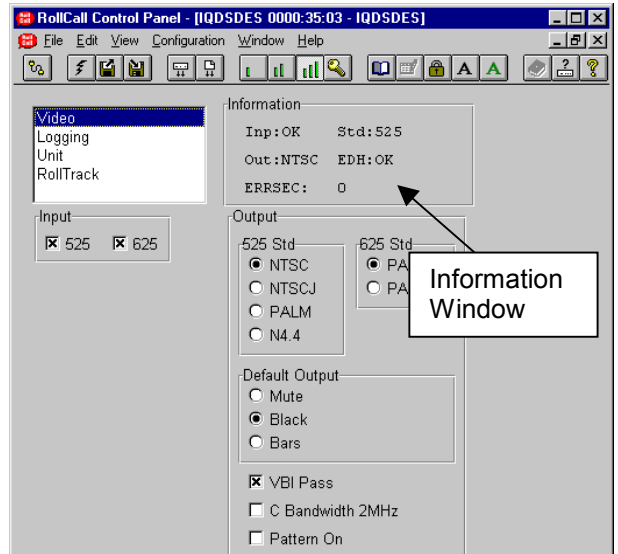
The second item of line 2, **EDH**, will the state of the input error detection handler.

Meanings are as follows:

- NONE** No EDH information present.
- OK** No EDH errors.
- Err** An EDH error has occurred.

**Line 3 Details**

The item **ERRSEC**: will show the time since EDH was reset.



**Logging**

**Logging**

If a logging device is attached to the RollCall™ network, information about various parameters can be made available to such a device.

Any of the following selections may be made:

Input

The status of the input signal will be reported.

Standard

The line standard the input will be reported.

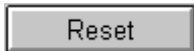
EDH Errors

Any EDH errors will be reported.

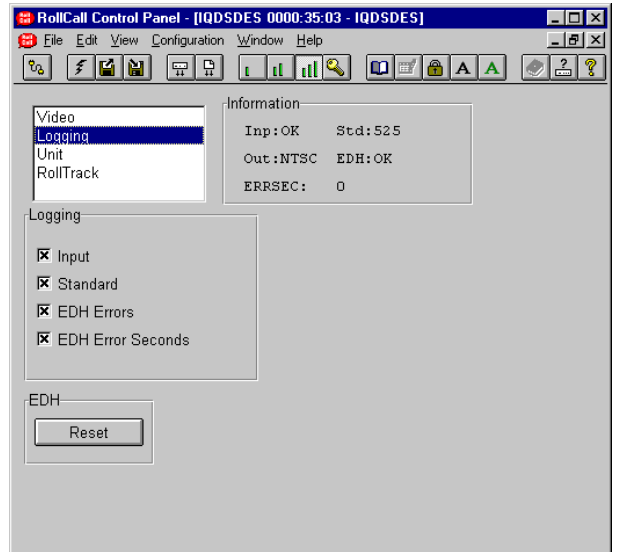
EDH Error Seconds

The number of program seconds containing one or more EDH errors since the last reset

**EDH**



Selecting this function will reset the EDH counter to zero.



**Unit**

This screen allows settings of the unit to be returned to their preset values, the unit rebooted and identification information provided about the module.



Selecting this item sets all adjustment functions that include a preset facility, to their preset values.



This will reboot the unit simulating a power-down power-up cycle restoring power-up settings.

**Software version**

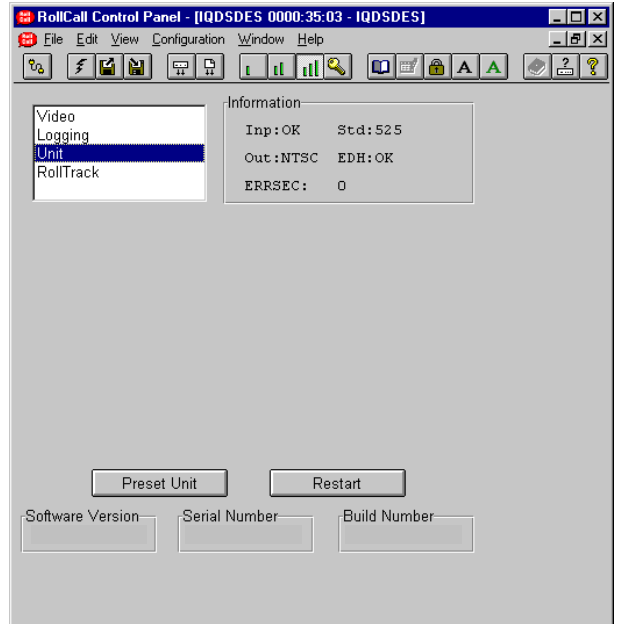
This item shows the version of the software fitted in the module.

**Serial Number**

This item shows the serial number of the module

**Build Number**

This will indicate the factory build number. This number defines all parameters of the unit (software versions, build level etc.) for identification purposes.







**Channel A**

This screen allows settings for Channel A to be selected.

**Input Channel A**

This allows the input line standard to chosen.

525

If only this item is selected the unit will only accept a 525 line standard input signal.

625

If only this item is selected the unit will only accept a 625 line standard input signal.

*Note that if both 525 and 625 items are selected the unit will accept either of the line standards.*

**Output Channel A**

This allows the composite output signal format to be selected for both 525 and 625 line standards.

525 Std

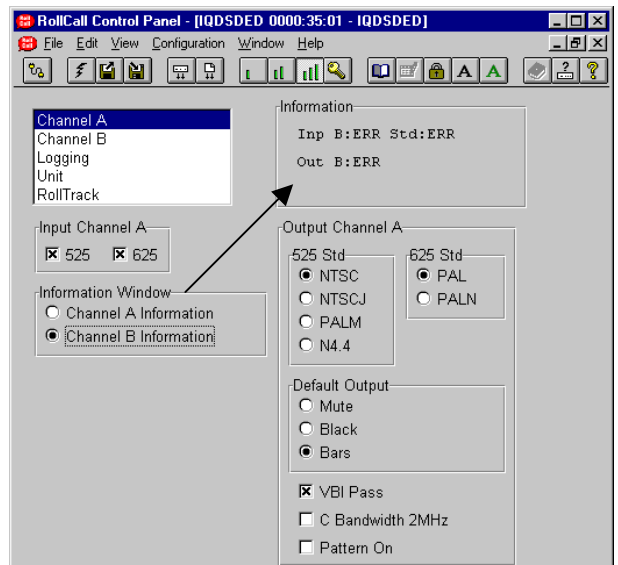
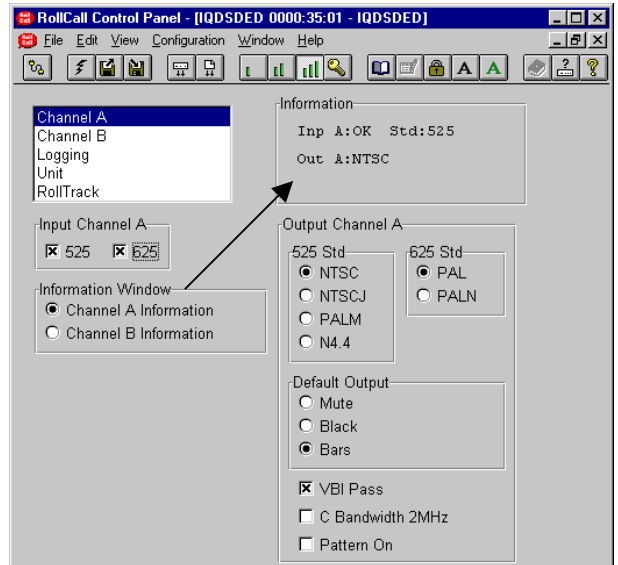
One 525 line composite output signal formats may be selected from the following list:

- NTSC
- NTSCJ
- PAL-M
- N4.4

625 Std

One 625 line composite output signal formats may be selected from the following list:

- PAL
- PALN



## Default Output

If the input signal fails or is of poor quality this function will determine what the output signal will become under such conditions.

- Mute No signal will appear at the output.
- Black The output will become a black burst signal in the selected composite format.
- Bars The output will become a color bar signal in the selected composite format.

### VBI Pass

This function allows vertical interval lines to be unblanked and passed to the output.

When operating in 625 line mode, field 1 lines 7 to 23.5 and field 2 lines 320 to 335 will be unblanked.

When operating in 525 line mode, field 1 lines 10 to 21 and field 2 lines 10 (273) to 21.5 (284.5) will be unblanked.

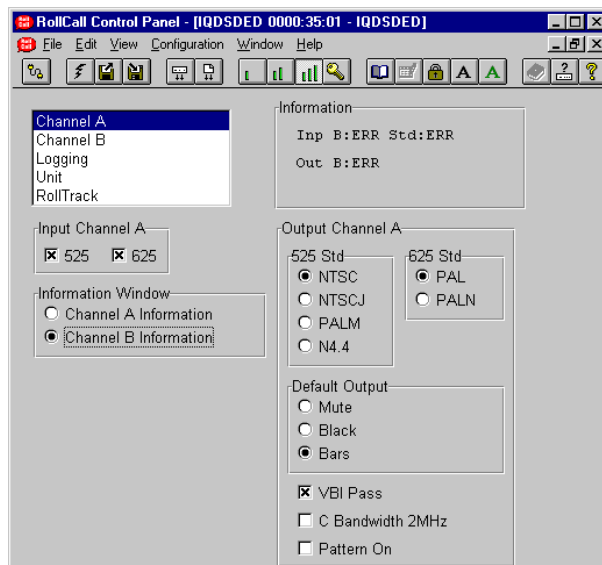
### C Bandwidth 2 MHz

When checked the chrominance bandwidth will be set to 2 MHz.

When unselected the bandwidth will be 1.6 MHz.

### Pattern On

When checked the output will become a color bar signal in the selected composite format.



**Information Window**

This item allows abbreviated information about either channel A or channel B to be displayed in the information window.

- Channel A Information

This will display information about Channel A.

- Channel B Information

This will display information about Channel B.

**Line 1 Details**

The first item of line 1, **Inp A:** indicates the input channel.

The second item of line 1, **\*\***, will show the status of the input signal. The following abbreviations may be displayed:

**OK** This indicates that a valid input signal is present

**\*\*** This indicates that a valid input signal is not present.

The third item of line 1, **Std:525**, will show the input signal standard. The following abbreviations may be displayed:

**625** The input standard is 625.  
**525** The input standard is 525.

**Line 2 Details**

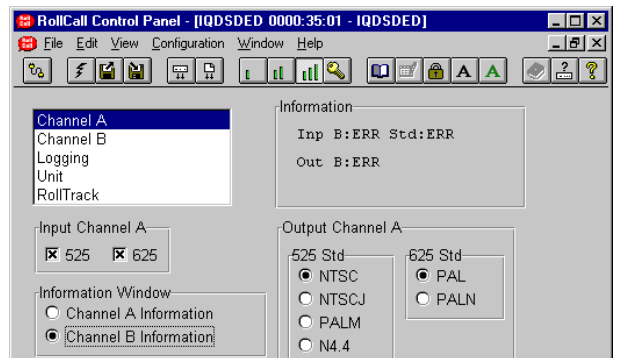
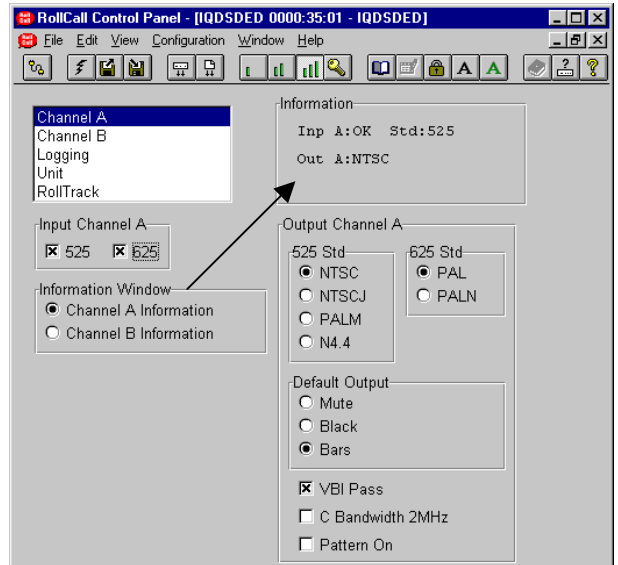
The first item of line 2, **Out A:** indicates the output channel.

The second item of line 2, **NTSC**, will indicate the composite output signal format.

The following abbreviations may be displayed:

**PAL**  
**PAL-N**  
 (for 625 Line Standards)

**NTSC**  
**NTSCJ**  
**PAL-M**  
**N4.4**  
 (for 525 Line Standards)



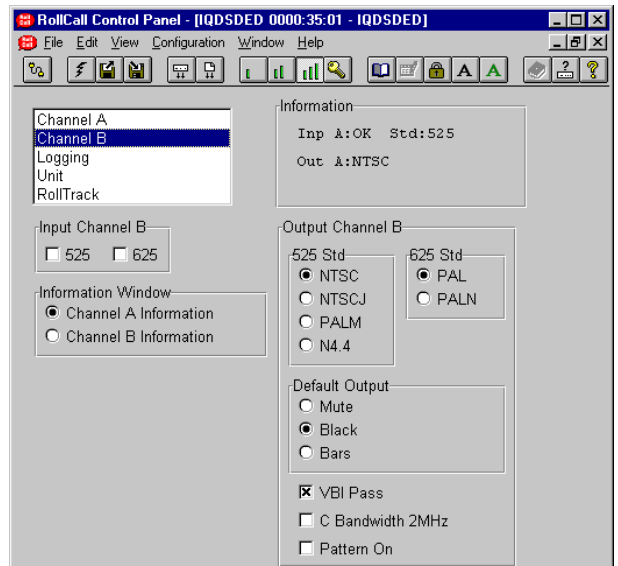
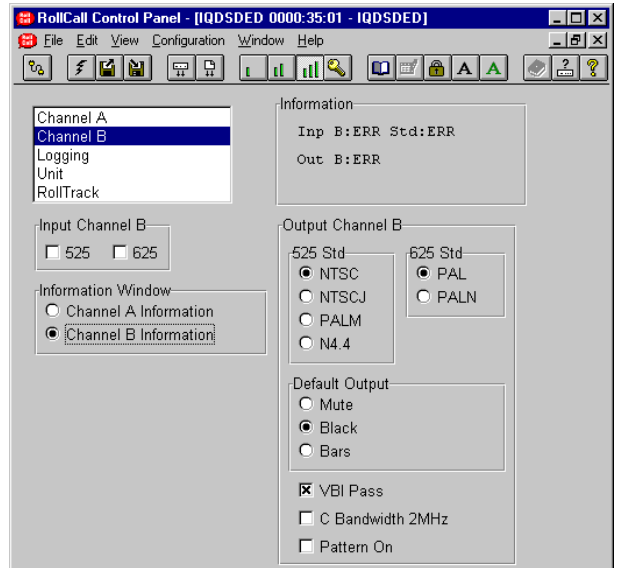
- Channel B Information

This will display information about Channel B in a similar way to channel A.

### Channel B

This screen allows settings for Channel B to be selected.

Functions are the same as for Channel A.



**Logging**

**Logging**

If a logging device is attached to the RollCall™ network, information about various parameters can be made available to such a device.

Any of the following selections may be made:

Channel A Input

The status of Channel A input signal will be reported.

Channel A Standard

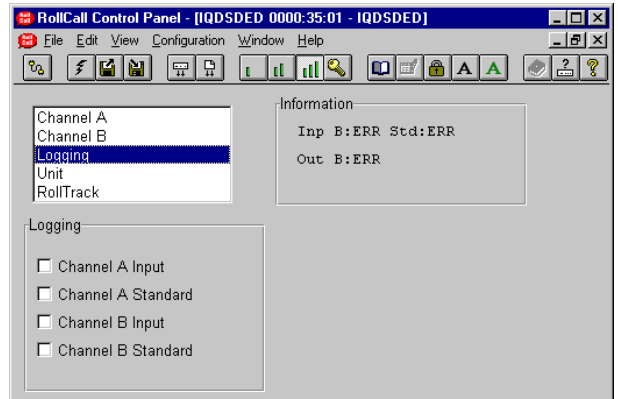
The line standard of Channel A will be reported.

Channel B Input

The status of Channel B input signal will be reported.

Channel B Standard

The line standard of Channel B will be reported.



**Unit**

This screen allows settings of the unit to be returned to their preset values, the unit rebooted and identification information provided about the module.



Selecting this item sets all adjustment functions that include a preset facility, to their preset values.



This will reboot the unit simulating a power-down power-up cycle restoring power-up settings.

**Software version**

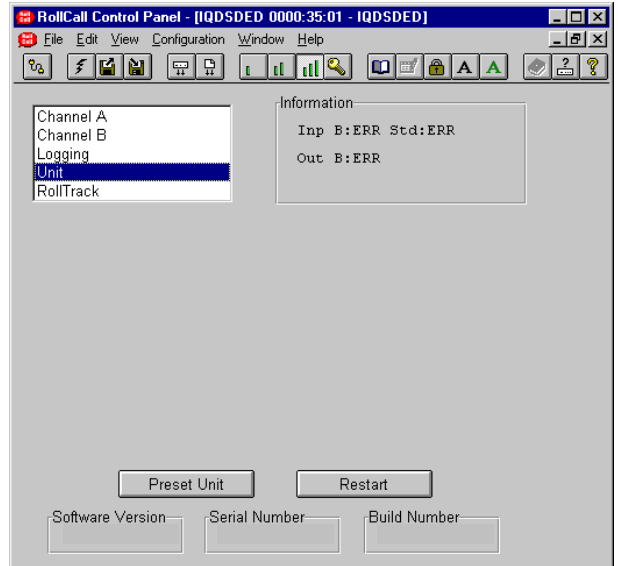
This item shows the version of the software fitted in the module.

**Serial Number**

This item shows the serial number of the module

**Build Number**

This will indicate the factory build number. This number defines all parameters of the unit (software versions, build level etc.) for identification purposes.



**RollTrack**

This function allows information to be sent, via the RollCall™ network, to other compatible units connected on the same network.

For example, it could be used to cause a source selection change via an IQDCO module.

**RollTrack Index**

This item allows up to 12 destinations to be selected.

**RollTrack Source**


This allows the source of information that triggers the transmission of data to be selected. Options are:


- Unused (off)
- Input A OK
- Input A Error
- Input B Missing
- Input B OK
- Input B Error

The destination for the information is set by the network code address as follows:

**Network Address**

This item allows the address of the selected destination unit to be set.

To change the address, type the new destination in the text area and then select  (return)

 (Preset) returns to the default destination

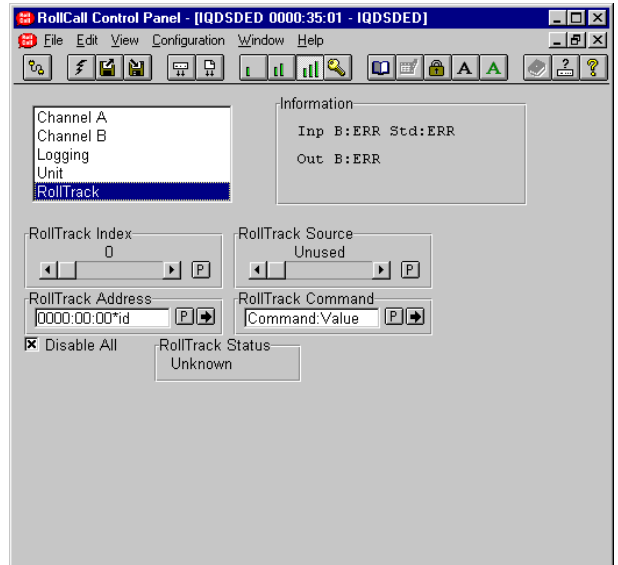
The full **RollTrack** address has four sets of numbers

For example: 0000:10:01\*99

The first set (0000) is the network segment code number

The second set (10) is the number identifying the (enclosure/mainframe) unit.

The third set (01) is the slot number in the unit



The fourth set (99) Should be set to the unique RollCall ID number of the destination module. This ensures that only the correct unit will respond to the command. If left at 00 an incorrectly fitted unit may respond inappropriately.

The full **RollTrack** command has two sets of numbers.

For example: 84\*156

The first set (84) is the **RollTrack** command number.

The second set (156) is the value sent with the **RollTrack** command number.

*For details of the RollCall command values for specific units please contact your local Snell & Wilcox agent.*

**Disable All**

When this item is checked all RollTrack items will be disabled.

**RollTrack Status**

This item will show Status of the selected RollTrack Index.

