

**IQVDA00/01**

Analog Video Distribution Amplifier with RollCall Control

**Table of Contents**

<b>Module Description .....</b>	<b>2</b>
<b>Rear Panel View .....</b>	<b>2</b>
Product Comparison.....	3
<b>Block Diagram.....</b>	<b>3</b>
<b>Features.....</b>	<b>3</b>
<b>Technical Profile.....</b>	<b>4</b>
<b>INPUT CONNECTIONS .....</b>	<b>6</b>
<b>OUTPUTS.....</b>	<b>6</b>
<b>CARD EDGE INDICATORS.....</b>	<b>7</b>
<b>Cable Equalization Links LK3 to LK7 .....</b>	<b>7</b>
<b>RollCall PC Control Panel Screens.....</b>	<b>8</b>
Video .....	8
Logging.....	10
RollCall Log Fields .....	10
RollTrack .....	11
Unit .....	13
Information .....	14
<b>Operation from an Active Control Panel .....</b>	<b>15</b>
MAIN MENU .....	17
Video .....	17
RollTrack .....	19
Logging.....	21
Log Status .....	21
RollCall Log Fields .....	21
Unit .....	22
<b>Manual Revision Record.....</b>	<b>23</b>

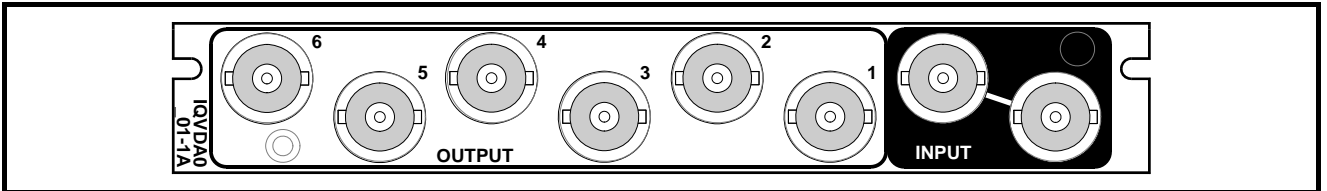
## Module Description

The IQVDA00 provides up to 14 equalized analog video outputs. Features include; adjustable gain

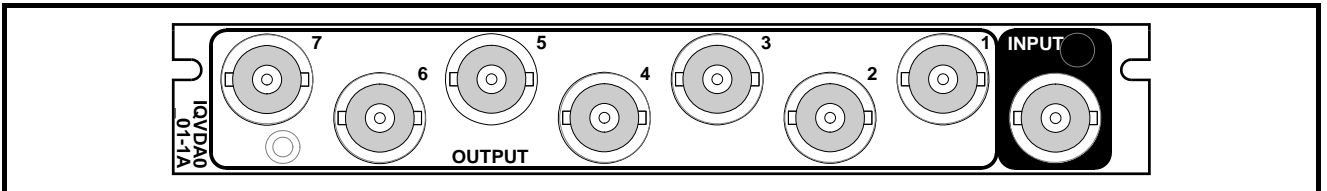
and equalization, and full remote control and status reporting.

## Rear Panel View

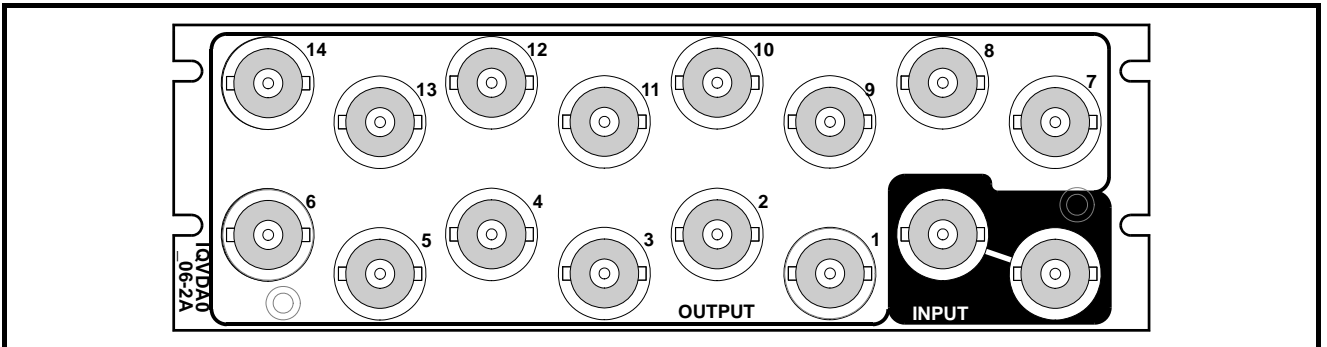
IQVDA0001-1A



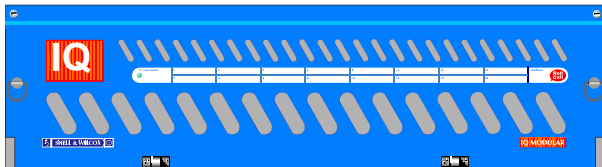
IQVDA0101-1A



IQVDA0006-2A



**Note that these modules may only be fitted into the 'A' Style 3U Enclosure**



(Enclosure order codes IQH3A-E-0, IQH3A-E-P, IQH3A-0-0, IQH3A-0-P)



(Enclosure order codes IQH3A-S-0, IQH3A-S-P)

This manual covers the following products:

IQVDA0001-1A Analog Video DA with RollCall. Loop-through input, 6 outputs.

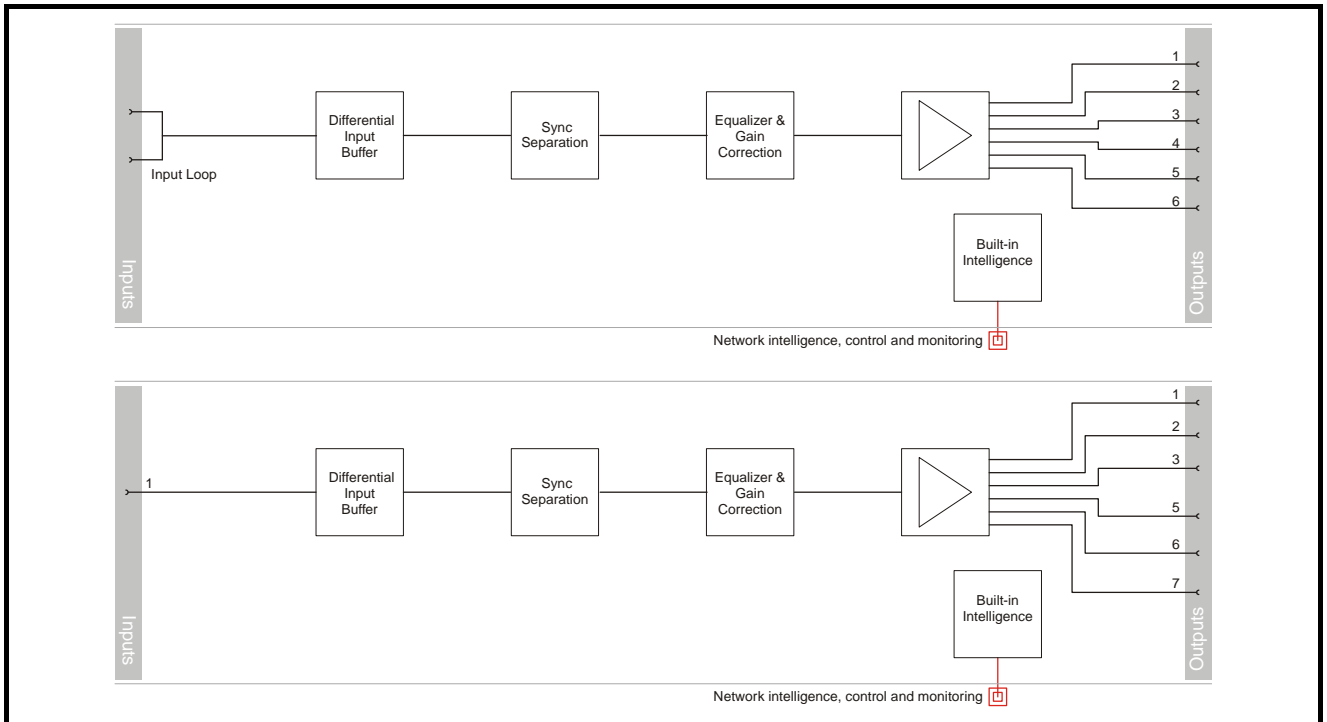
IQVDA0101-1A Analog Video DA with RollCall. Terminating input, 7 outputs.

IQVDA0006-2A Analog Video DA with RollCall. Loop-through input, 14 outputs

**Product Comparison**

Product	Input	Outputs	Width & Style
IQVDA0001-1A	Loop through	6	Single A
IQVDA0101-1A	Terminating	7	Single A
IQVDA0006-2A	Loop through	14	Double A

**Block Diagram**



**Features**

- Up to 14 high quality outputs
- Balanced Loop-through input
- Terminating input option on single width rear panel allows extra output
- 35 MHz bandwidth
- Adjustable gain and equalization
- Equalization for RG59U/Belden 8263 or PSF1/2/Belden 8281 (link selectable)
- Full RollCall remote control and signal identification
- Sync and burst level warnings
- Automatic gain control (AGC) with respect to sync height
- Automatic equalization (ACC) with respect to burst height

<h1>Technical Profile</h1>
----------------------------

**Signal Inputs**

Video .....1 Balanced loop-through  
 (terminating input option for single width rear panel)

**Controls via RollCall**

Gain.....±4 dB in steps of 0.05 dB

**Typical Equalizer performance**

**Belden 1694A**

0-300 m .....+0.1 dB to 10 MHz

0-300 m .....+0.2 dB to 30 MHz

**Belden 8281 (PSF1/2)**

0-300 m .....+0.1 dB to 10 MHz

0-300 m .....+0.1 dB; -0.4 dB to 30 MHz

**Belden 1855A**

0-200 m .....+0.1 dB to 10 MHz

200-300 m .....+0.1 dB; -1.5 dB to 10 MHz

**RG59B/U**

0-100 m .....+0.1 dB to 15MHz

100-300 m .....+0.1 dB; -1.5 dB to 15MHz

**NK 0.6/2.8**

0-150 m .....+0.1 dB to 15 MHz

0-150 m .....+0.1 dB; -0.5 dB to 30 MHz

**Signal Outputs**

Video .....Up to 14 Unbalanced Outputs

AGC .....[On/Off] - All recognized SD Sources

ACC.....[On/Off] - Composite Sources Only

Signal Identification .....Line Standard - PAL, NTSC, 625 MONO, 525 MONO, 1080p24, 1080i50, 1080i60, 720p50, 720p60, 720p25, 720p30, UNKNOWN

Selectable Clamp .....Off, On (Back Porch) and Sync tip

Signal level .....Sync and Burst amplitude ±10%

Logging .....Signal Level Warning, Line Standard, Burst level warning

**Indicators**

Power .....OK

CPU.....OK

Status .....OK (Green)  
 Warning (Yellow)  
 Error (Red)

**Specifications**

Frequency Response  
 (Without Equalization) .....10 kHz - 10 MHz  $\pm$  0.1 dB  
   10 MHz - 30 MHz  $\pm$  0.2 dB  
   35 MHz  $<$ -1 dB

Differential Gain .....Unity Gain - Better than 0.2%  
 Differential Phase .....Unity Gain - Better than 0.2°  
 Signal/Noise Ratio.....10 kHz – 7 MHz - Better than  
   -66 dB (Unweighted)

Linearity.....Better than 0.1%  
 50 Hz tilt K50Hz .....Better than 0.1%  
 Output D.C. ....< 90 mV  
 Output Return Loss.....better than 40 dB to 5.5 MHz,  
   35 dB to 30 MHz  
 Maximum Output Level .....2.4 V pk to pk @ 30 MHz into  
   75 ohms  
 Insertion Delay .....20 ns  
 Y-C Gain/ Delay inequality..< 1%, < 1 ns  
 K2T, KPB .....Better than 0.1%  
 Max. Input Level.....+6 dB  
 CMRR .....Better than 60 dB at 50 Hz,  
   40 dB 50 Hz to 8 MHz  
 Input Return Loss (Powered)  
   better than 40 dB to 5.5 MHz,  
   35 dB to 30 MHz  
 Input Return Loss (Un-Powered)  
   better than 33 dB to 30 MHz  
 Input Impedance .....> 22 k ohms  
 Headroom .....+6 dB  
 Output Impedance .....75 ohms  $\pm$ 1%  
 Gain.....Unity  $\pm$ 1% as supplied  
 Clamp Rejection.....8 dB typical at 50 Hz

**Power Consumption**

Module Power Consumption  
   3 W

**Mechanical**

Complies with Restriction of Hazardous Substances in  
 Electrical and Electronic Equipment (RoHS) Directive  
 (2002/95/EC)

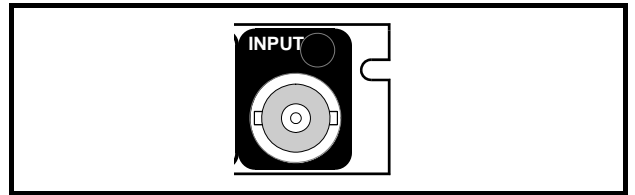
**EMC Performance Information**

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):  
   Interference is just visible on critical  
   picture material when a video input  
   or output is subjected to modulated  
   RF at a level of 3 V.

**INPUT CONNECTIONS**

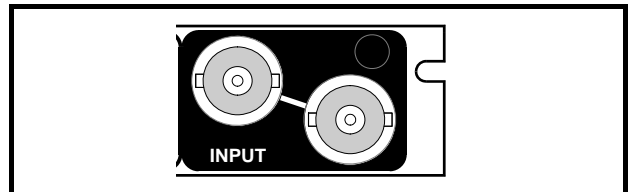
IQVDA0101-1A

This is the video input to the unit via a BNC connector that is terminated in 75 ohms.



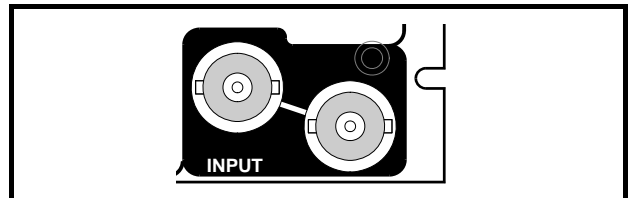
IQVDA0001-1A

This is the video input to the unit via loop-through BNC connectors for 75 ohms. If only one connector is used the other connector should be fitted with a 75 Ohm terminator.



IQVDA0006-2A

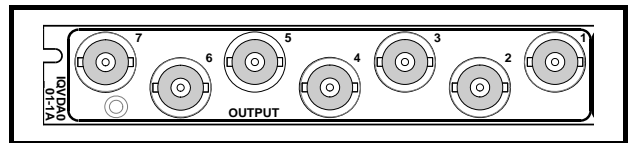
This is the video input to the unit via loop-through BNC connectors for 75 ohms. If only one connector is used the other connector should be fitted with a 75 Ohm terminator.



**OUTPUTS**

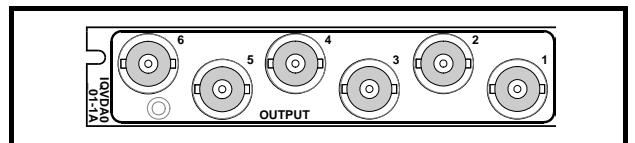
IQVDA0101-1A

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



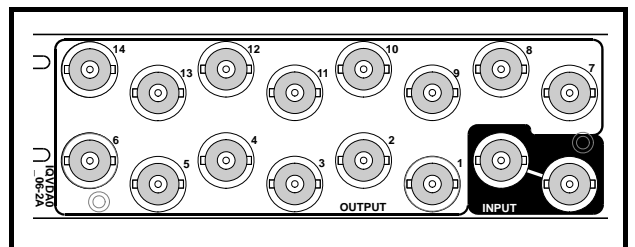
IQVDA0001-1A

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

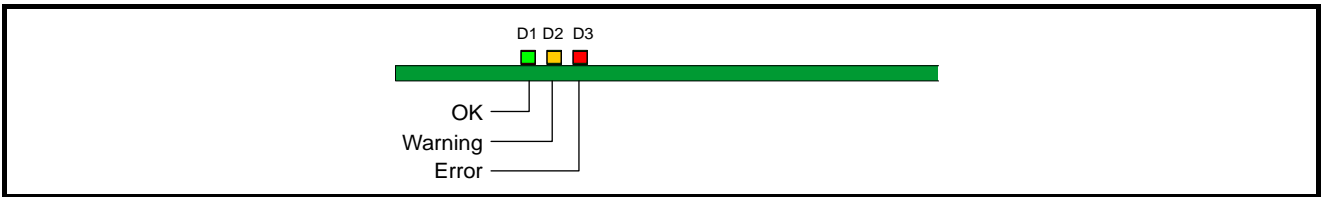


IQVDA0006-2A

These are the 14 outputs of the unit via BNC connectors for 75 Ohms.



## CARD EDGE INDICATORS



### D1 OK (Green)

This LED will illuminate if the input is present.

### D2 Warning (Amber)

This LED will illuminate if the input is missing.

### D3 Error

This LED will illuminate during power-up or indicate a CPU fault.

### Input Termination Link LK1

When fitted the input will be terminated in 75 Ohms.

When not fitted the input will be a high impedance loop-through connection.

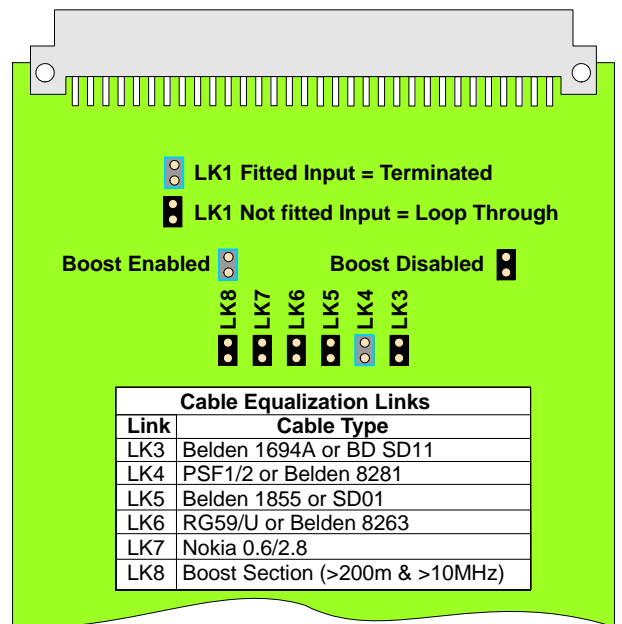
Cable Equalization Links LK3 to LK7

This link should be fitted in the position to match the type of cable in use. The unit will then provide the correct type of equalization for that cable.

Link	Cable Type
LK3	Belden 1694A or BD SD11
LK4	PSF1/2 or Belden 8281
LK5	Belden 1855 or SD01
LK6	RG59/U or Belden 8263
LK7	Nokia 0.6/2.8
LK8	Boost Section (>200m & >10MHz)

### LK8 Boost



This link should only be fitted when equalizing cables lengths greater than 200 m and for bandwidths greater than 10 MHz, e.g. component HD signals.




## RollCall PC Control Panel Screens

### Video

Note that for this and other screens the following applies to the scroll bars:

The  and  symbols at the ends of the scroll bar allow the value to be adjusted in discrete steps.

The numerical value will be shown above the scroll bars and selecting Preset  will return the setting to the calibrated value for that item.

### Gain

This allows the gain of the unit to be adjusted. Note that this control effects the overall signal (video plus syncs). The range is  $\pm 4$  dB in steps of 0.05 dB. Preset is to 0.00 dB.

### Equalization

This allows the amount of equalization to be adjusted for the selected cable type. The range of control is from 0 to 500 units in steps of 1 unit. Preset is to 0.

### Typical Equalizer Performance

Beldon 1694A

0-300m:  $\pm 0.1$ dB to 10MHz

0-300m:  $\pm 0.2$ dB to 30MHz

Beldon 8281 (PSF1/2)

0-300m:  $\pm 0.1$ dB to 10MHz

0-300m: +0.1dB; -0.4dB to 30MHz

Beldon 1855A

0-200m:  $\pm 0.1$ dB to 10MHz

200-300m: +0.1dB; -1.5dB to 10MHz

RG59B/U

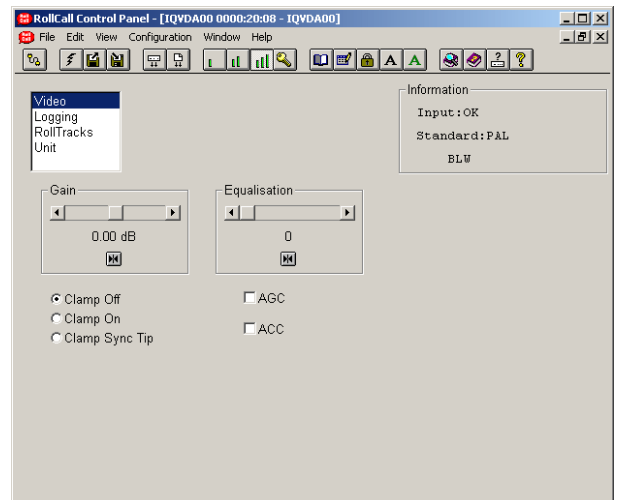
0-100m:  $\pm 0.1$ dB to 15MHz

100-300m: +0.1dB; -1.5dB to 15MHz

NK 0.6/2.8

0-150m:  $\pm 0.1$ dB to 15MHz

0-150m: +0.1dB; -0.5dB to 30MHz



### Clamp Off/Clamp On/Clamp Sync Tip

*Note: When distributing Tri-sync signals, do not enable the Sync Tip feature as it is only specified to work with bi-level signals.*

This unit incorporates a line-by-line clamp that when enabled, can help reduce low frequency distortion such as tilt and power line modulation (hum). Clamping is to 0V and rejection is 8 dB typical at 50 Hz.

It may be set to the following modes:

#### Clamp Off

There will be no clamp action.

#### Clamp On

The signal will be clamped during the back porch of every line.

#### Clamp Sync Tip

The signal will be clamped during the horizontal (line) sync period of every line.

This mode is intended for use with logic type signals e.g. Word Clock.

*Note that when the sync tip clamp mode is selected the color burst and standard detectors are disabled and the signal will be reported as monochrome and without standard information.*



**Video (continued)**

**AGC**

When checked the Automatic Gain Control is enabled.

Gain is automatically adjusted with respect to the sync pulse amplitude.

For 525 line sources the gain is adjusted to maintain a sync amplitude of approximately 286 mV. For 625 sources the amplitude is maintained at approximately 300 mV.

*Note that when the AGC is ON the manual gain control is disabled.*

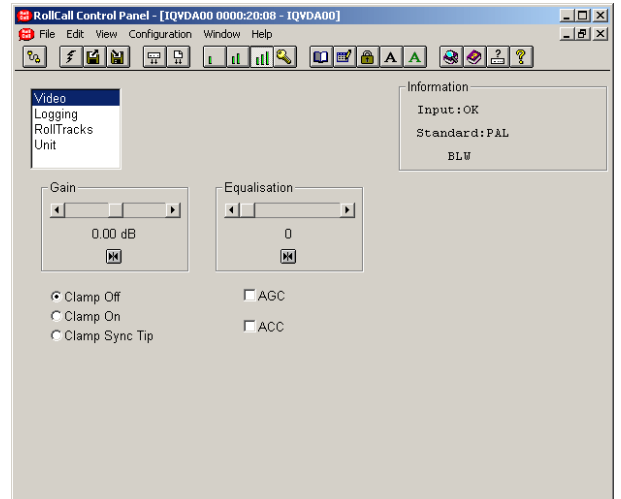
*Note also that the AGC function is disabled when HD standards are detected.*

**ACC**

When checked the Automatic Color Control is enabled.

The equalization is automatically adjusted to maintain a burst amplitude of approximately 300 mV for PAL sources or 286 mV for NTSC sources.

*Note that when the ACC is ON the equalization function is disabled.*

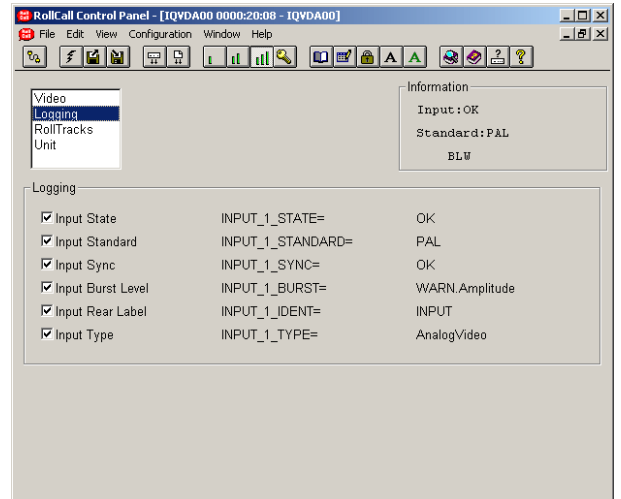


**Logging**

Information about various parameters can be made available to a logging device that is attached to the RollCall™ network by checking the appropriate box.

The status is shown to the right of the item.

Any of the items may be selected from the list.



**RollCall Log Fields**

Log Field	Log Value	Description
INPUT_1_STATE=	OK FAIL:LOST	Valid input signal Input signal lost
INPUT_1_STANDARD=	PAL NTSC 625 Mono 525 Mono 1080/29i 1080/25i 1080/24p 720/59p 720/50p 720/25p 720/29p WARN: No Input	Input Standard
INPUT_1_SYNC=	OK WARN: No Input WARN: Amplitude	Sync level outside limits
INPUT_1_BURST=	OK WARN: No Burst WARN: Amplitude	Burst level outside limits
INPUT_1_IDENT=	INPUT	Input rear label
INPUT_1_TYPE=	Analog Video	Input signal type

**RollTrack**

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

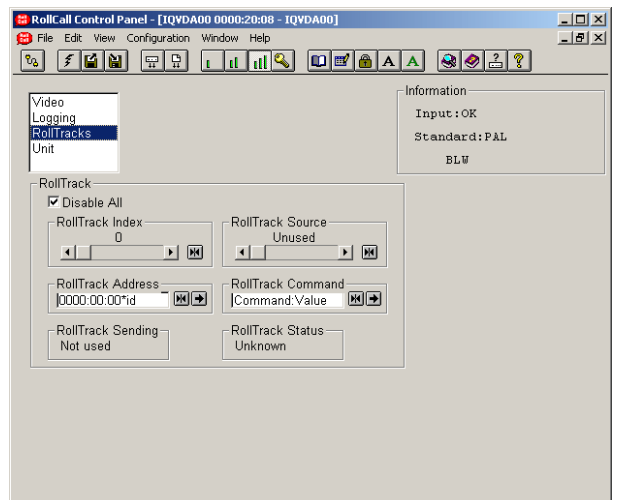
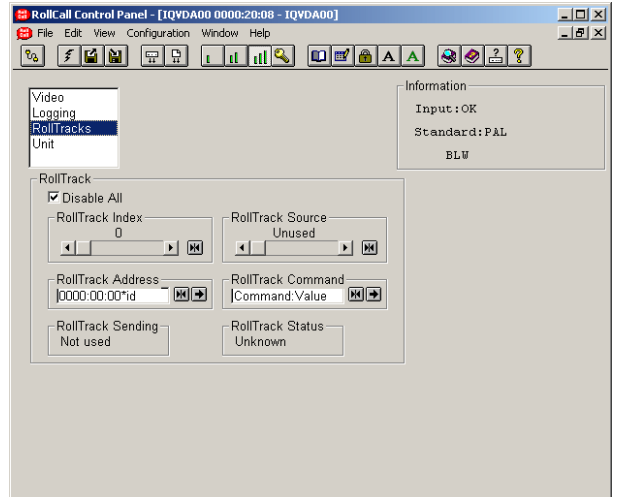
**RollTrack Index**

This item allows up to 16 (0 to 15) destinations to be selected.

**RollTrack Source**

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

Unused
Input 1 Present
Input 1 Missing
Sync Level N/A
Sync Level Warning
Sync Level OK
Burst Level N/A
Burst Level Warning
Burst Level OK




**RollTrack (continued)**

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

**RollTrack 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) is a user settable number that is a unique identification number for the destination unit in a multi-unit system. 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**

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

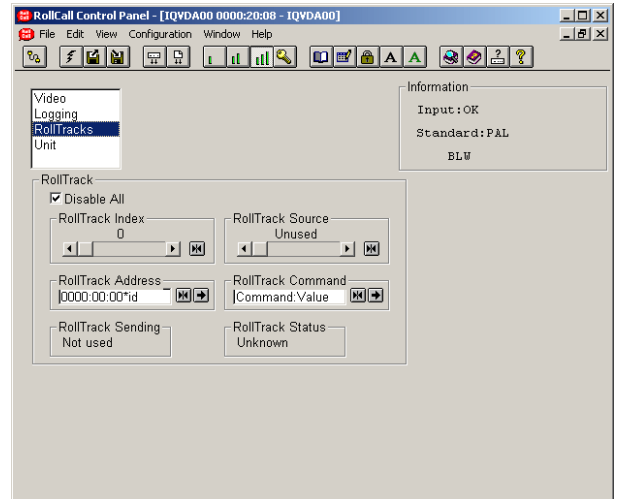
For example: 84\*156

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

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

**Disable All**

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



**RollTrack Sending**

This item shows when the unit is actively sending the RollTrack command.

This may show:

String A string value is always being sent.

Number A number value is always being sent.

No The message is not being sent.

Yes The message is being sent.

Internal Inconsistent behavior; please contact your local Snell & Wilcox agent.  
Type Error

**RollTrack Status**

This item will show the status of the currently selected RollTrack index.

This may show:

OK RollTrack message sent and received OK.

Unknown Rolltrack message has been sent but it has not yet completed.

Timeout RollTrack message sent but acknowledgement not received. This could be because the destination unit is not at the location specified.

Error This indicates a broken RollCall state.

Bad This indicates a broken RollCall packet.

## Unit

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.

## Software Version

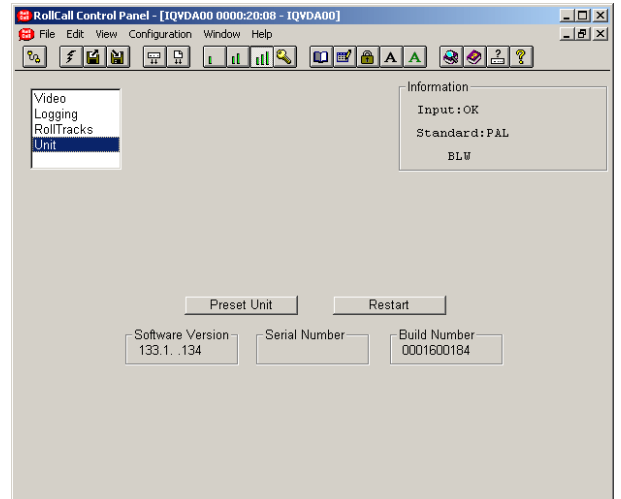
This item shows the version of the software fitted in the module.

## 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.



**Information**

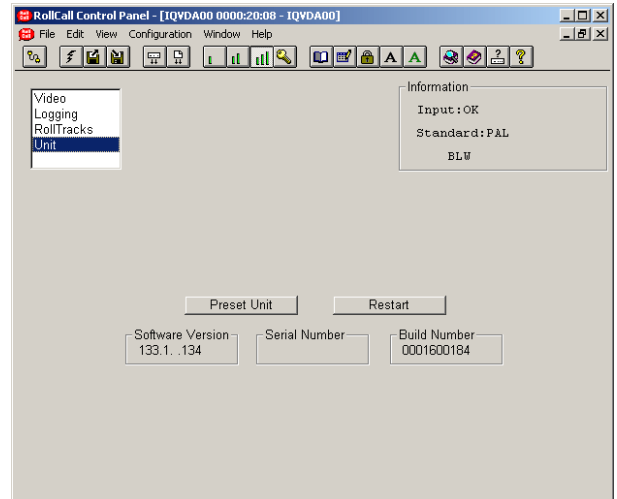
The information window will display abbreviated information about the status of the module.

**First Line: Input**

This will show the status of the input. It may show:

Input: OK    The unit is receiving an input signal.

Input: Lost        The unit is not receiving an input signal.



**Second Line: Standard**

This will show the detected input standard. It may show:

- Standard: PAL
- NTSC
- 625 MONO
- 525 MONO
- 1080p24
- 1080i50
- 1080i60
- 720p50
- 720p60
- 720p25
- 720p30
- UNKNOWN

**Third Line: Warnings**

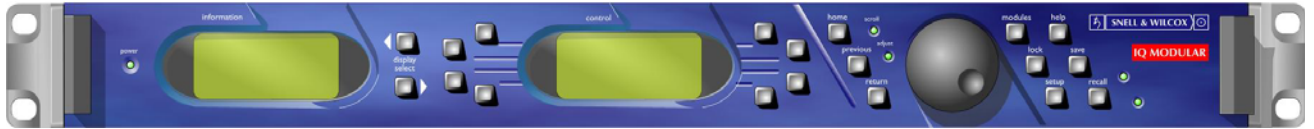
This will shown any out of limit warnings. It may show:

SLW        Sync level outside limits

BLW        Burst level outside limits

## Operation from an Active Control Panel

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



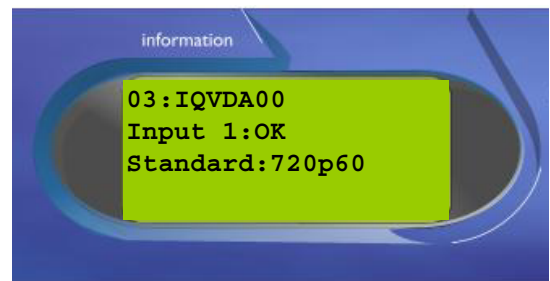
All operational parameters and selections are made using a system of menus displayed in two LCD windows.

Operational details for the remote control panel can be found in the Modular System Operator's Manual.

### Information Window

The Information window has four lines of text indicating the current state of the unit.

For details of the abbreviations used please see page 14.

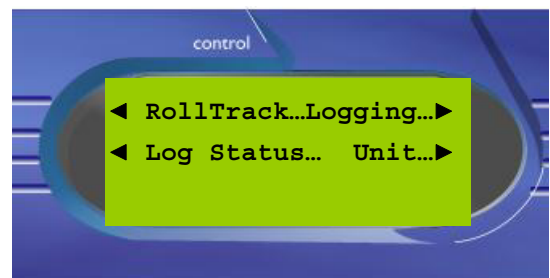


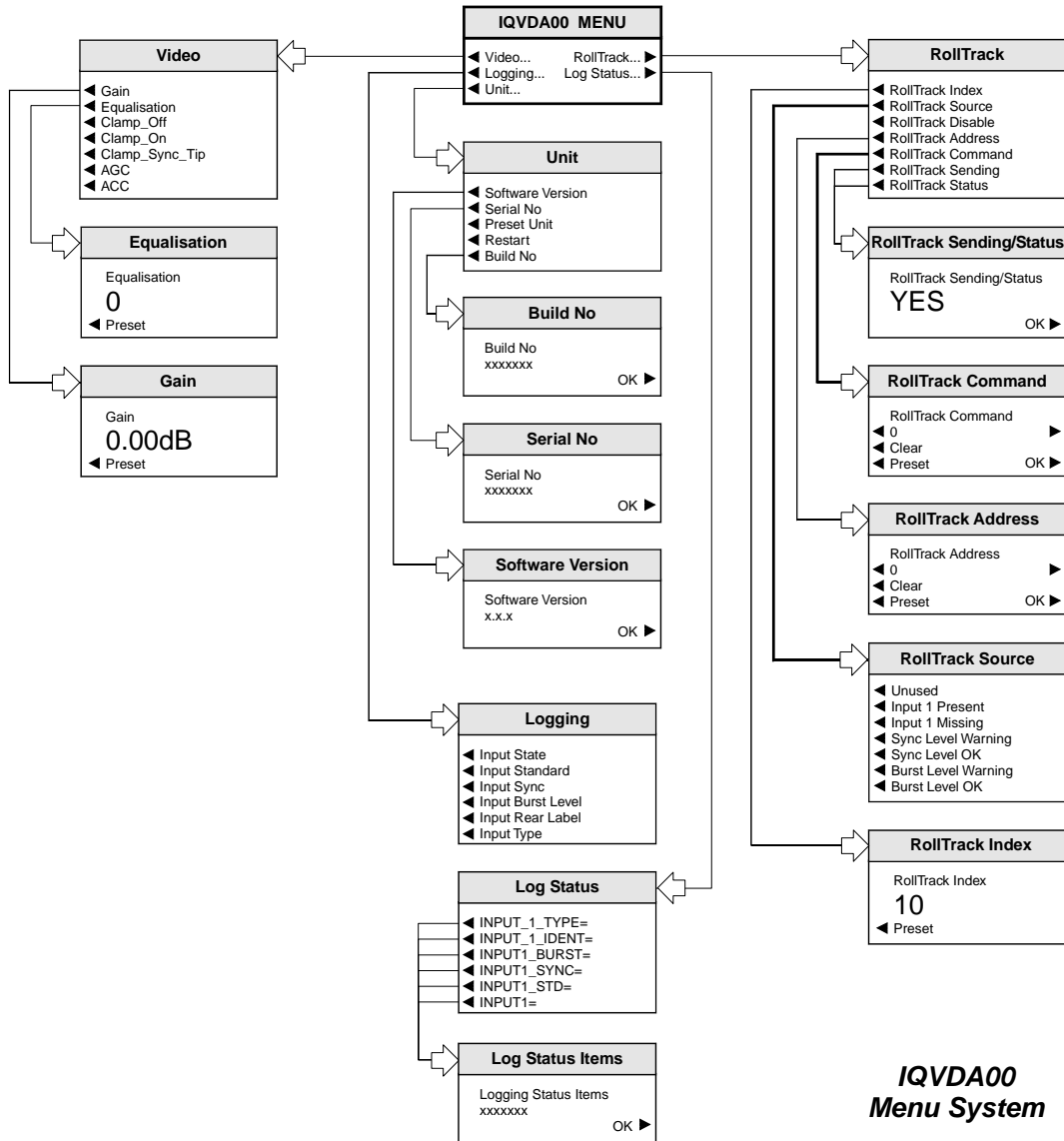
### Control Window

The **Control** window displays all Selection Menus and sub-menus.

The selection is made by pressing the button adjacent to the required item.

The menu structure is detailed in the following pages.





***IQVDA00  
Menu System***



**MENU DETAILS**

(see IQVDA00 Menu System on previous pages)

**MAIN MENU**

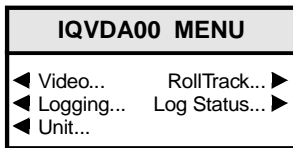
The main or top level menu allows various sub-menus to be selected by pressing the button adjacent to the required text line.

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.

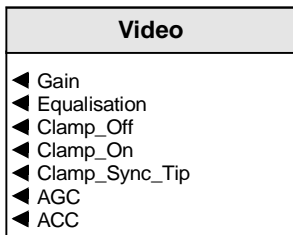
Also refer to the block diagram on page 3 for more information.

**MAIN MENU**



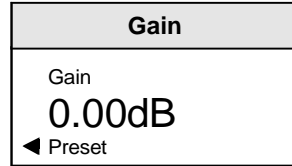
**Video**

This menu allows various types of processing to be applied to the video signal.



**Gain**

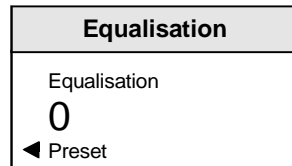
This allows the gain of the unit to be adjusted. Note that this control effects the total signal (video plus syncs).



The range is ±3 dB in steps of 0.05 dB. Preset is to 0.00 dB.

**Equalization**

This allows the amount of equalization to be adjusted for the selected cable type. The range of control is from 0 to 500 units in steps of 1 unit. Preset is to 0.



**Typical Equalizer Performance**

- Beldon 1694A
  - 0-300m: ±0.1dB to 10MHz
  - 0-300m: ±0.2dB to 30MHz
- Beldon 8281 (PSF1/2)
  - 0-300m: ±0.1dB to 10MHz
  - 0-300m: +0.1dB; -0.4dB to 30MHz
- Beldon 1855A
  - 0-200m: ±0.1dB to 10MHz
  - 200-300m: +0.1dB; -1.5dB to 10MHz
- RG59B/U
  - 0-100m: ±0.1dB to 15MHz
  - 100-300m: +0.1dB; -1.5dB to 15MHz
- NK 0.6/2.8
  - 0-150m: ±0.1dB to 15MHz
  - 0-150m: +0.1dB; -0.5dB to 30MHz

### Clamp Off/Clamp On/Clamp Sync Tip

This unit incorporates a line-by-line clamp that when enabled, can help reduce low frequency distortion such as tilt and power line modulation (hum). Clamping is to 0V and rejection is 8 dB typical at 50 Hz.

*Note: When distributing Tri-sync signals, do not enable the Sync Tip feature as it is only specified to work with bi-level signals.*

It may be set to the following modes:

#### Clamp Off

There will be no clamp action.

#### Clamp On

The signal will be clamped during the back porch of every line.

#### Clamp Sync Tip

The signal will be clamped during the horizontal (line) sync period of every line.

This mode is intended for use with logic type signals e.g. Word Clock.

*Note that when the sync tip clamp mode is selected the color burst and standard detectors are disabled and the signal will be reported as monochrome and without standard information.*

Video
◀ Gain
◀ Equalisation
◀ Clamp_Off
◀ Clamp_On
◀ Clamp_Sync_Tip
◀ AGC
◀ ACC

### AGC

When selected the Automatic Gain Control is enabled.

Gain is automatically adjusted with respect to the sync pulse amplitude.

For 525 line sources the gain is adjusted to maintain a sync amplitude of approximately 286 mV. For 625 sources the amplitude is maintained at approximately 300 mV.

*Note that when the AGC is ON the manual gain control is disabled.*

*Note also that the AGC function is disabled when HD standards are detected.*

### ACC

When selected the Automatic Color Control is enabled.

The equalization is automatically adjusted to maintain a burst amplitude of approximately 300 mV for PAL sources or 286 mV for NTSC sources.

*Note that when the ACC is ON the equalization function is disabled.*

**RollTrack**

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

RollTrack
◀ RollTrack Index
◀ RollTrack Source...
◀ RollTrack Disable
◀ RollTrack Address
◀ RollTrack Command
◀ RollTrack Sending
◀ RollTrack Status

For more detailed information, see the RollTrack section (Appendix) at the end of this manual.

**RollTrack Index**

RollTrack Index
RollTrack Index
2

This item is used to select which RollTrack Index is set up using the RollTrack Source, RollTrack Address and RollTrack Command functions.

RollTrack Source

RollTrack Source
◀ Unused
◀ Input 1 Present
◀ Input 1 Missing
◀ Sync Level Warning
◀ Sync Level OK
◀ Burst Level Warning
◀ Burst Level OK

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

Unused
Input 1 Present
Input 1 Missing
Sync Level N/A
Sync Level Warning
Sync Level OK
Burst Level N/A
Burst Level Warning
Burst Level OK

**RollTrack Disable**

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

The destination for the information is set by the network code address.

**RollTrack Address**

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

RollTrack Address
RollTrack Address
◀ 0 ▶
◀ Clear ▶
◀ Preset ▶ OK ▶

To compile/edit the text the right ▶ and left buttons adjacent to the upper text line in the menu should be used to select the character position in the text and the spinwheel used to select the character.

The **Clear** function blanks the selected character.

The **Preset** function loads the default address.

**O.K. ▶** saves the address and returns to the main menu.

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

For example: 0000:10:01\*99

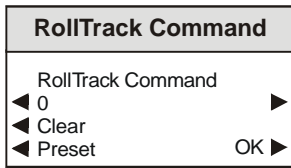
The first set (0000) is the network segment code number

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) is a user settable number that is a unique identification number for the destination unit in a multi-unit system. 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



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

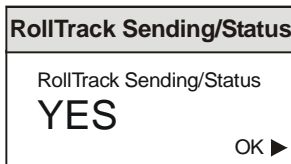
For example: 84\*156

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

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

RollTrack Sending

This item shows when the unit is actively sending the RollTrack command.



This may show:

- String      A string value is always being sent.
- Number     A number value is always being sent.
- No          The message is not being sent.
- Yes         The message is being sent.
- Internal Type Error    Inconsistent behavior; please contact your local Snell & Wilcox agent.

RollTrack Status

This item will show the status of the currently selected RollTrack index.

This may show:

- OK            RollTrack message sent and received OK.
- Unknown     Rolltrack message has been sent but it has not yet completed.
- Timeout     RollTrack message sent but acknowledgement not received. This could be because the destination unit is not at the location specified.
- Error        This indicates a broken RollCall state.
- Bad          This indicates a broken RollCall packet.

**Logging**

Information about various parameters can be made available to a logging device that is attached to the RollCall™ network by selecting the appropriate item.

Any of the items may be selected from the list.

Logging
<ul style="list-style-type: none"> <li>◀ Input State</li> <li>◀ Input Standard</li> <li>◀ Input Sync</li> <li>◀ Input Burst Level</li> <li>◀ Input Rear Label</li> <li>◀ Input Type</li> </ul>

**Log Status**

Log Status
<ul style="list-style-type: none"> <li>◀ INPUT_1_TYPE=</li> <li>◀ INPUT_1_IDENT=</li> <li>◀ INPUT1_BURST=</li> <li>◀ INPUT1_SYNC=</li> <li>◀ INPUT1_STD=</li> <li>◀ INPUT1=</li> </ul>

When an item is selected in this menu the logging status for that item will be shown in the display window.

Log Status Items
Logging Status Items xxxxxxxx OK ▶

**RollCall Log Fields**

Log Field	Log Value	Description
INPUT_1_STATE=	OK FAIL:LOST	Valid input signal Input signal lost
INPUT_1_STANDARD=	PAL NTSC 625 Mono 525 Mono 1080/29i 1080/25i 1080/24p 720/59p 720/50p 720/25p 720/29p WARN: No Input	Input Standard
INPUT_1_SYNC=	OK WARN: No Input WARN: Amplitude	Sync level outside limits
INPUT_1_BURST=	OK WARN: No Burst WARN: Amplitude	Burst level outside limits
INPUT_1_IDENT=	INPUT	Input rear label
INPUT_1_TYPE=	Analog Video	Input signal type

**Unit**

Unit
◀ Software Version
◀ Serial No
◀ Preset Unit
◀ Restart
◀ Build No

**Software Version**

This item reveals a display showing the version of the software fitted in the module.

Software Version
Software Version x.x.x
OK ▶

Select OK to return to the Setup Menu.

**Serial No**

This item reveals a display showing the serial number of the module.

Serial No
Serial No xxxxxxx
OK ▶

Select OK to return to the Setup Menu.

**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 No**

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

Build No
Build No xxxxxxx
OK ▶

Select OK to return to the Setup Menu.

