



irisHDi series

HD-SDI vision mixer. irisHDi, irisHDiOB I2/I0/06 v2.I0



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I System Overview

The "irisHDi" is a small HD-SDI vision mixer. There are two versions of this unit.

- irisHDi: This is an 8 input HD-SDI mixer with a processor module consisting of two evolution chassis mounted together, one is the 'A/B Mixer Unit' and the other the 'HD Video Router'. There is also a small control panel consisting of a program-preset bus, a system controller, a T-bar, and an auto transition panel. This system is multi channel capable. The basic irisHDi fits into a 1RU chassis.
- 2. irisOBHDi : This is an 8 input HD-SDI mixer with a processor module consisting of two evolution chassis mounted together, one is the 'A/B Mixer Unit' and the other the 'HD Video Router'. There is also a cut-down control panel consisting of a program-preset bus, and a T-bar which can be mounted separately to fit into available spaces. This system operates in single channel mode only. irisOBHDi can be upgraded to a full irisHDi. irisOBHDi fits into a 1RU chassis.

Full technical details of each version of irisHDi are given in appendix 3 at the end of this manual.



Figure 1-1 The irisHDi system which requires 1RU chassis

2 Installation

The irisHDi system comes in two parts, the control panel and the processing chassis.

2.1 Control Panels.

The control panel is made from four separate modules. These modules either can be mounted in the eyeheight irisHDi "Tub", order code TB-10, or can be mounted in a desk cutout.



Figure 2-1 The irisHDi Control panel in optional extra Tub



Figure 2-2 The irisHDi Control panel mounted in a desk cut-out

Desk cutout dimensions are given in appendix 1. Panel dimensions are also given.

irisOBHDi is optimised for a small control surface footprint. This system, functionally, is less comprehensive than an irisHDi but still allows for up to 8 input cut/mix functionality with auto transitions. The free control panel space can be used for any other purpose. Space is of prime importance in OB systems. irisOBHDi can be upgraded to an irisHDi if required.



Figure 2-3 irisOBHDi panel in a desk cut-out

Desk cutout dimensions are given in appendix 2. Panel dimensions are also given.

2.2 Main Processing Chassis

2.2.I Environmental requirements.

The irisHDi and irisOBHDi Processor are a 1RU Chassis.

The unit requires 4 x M5 rack bolts to secure the unit at the front into a 19" rack. It is necessary that the unit be given support at the rear to minimise stress on front fixing chassis.

The units should be run in an air-conditioned technical area with an ambient temperature no greater than 30 C.

2.2.2 Electrical requirements.

An irisHDi system will use less than 50 Watts of power from an electrical supply. The power supplies are "Wide Range" and will operate from a steady $100 \rightarrow 240V$ ac 47-63 Hz. A clean technical feed is required to ensure "Glitch Free" operation.

Both the evolution chassis in the processor module require mains leads connected to them.

Each evolution is currently fitted with one live-wired one amp fuse, which is detachable underneath the IEC inlet. The fuses should only be replaced with "slow-blow 2 Amp 20mm type".

Important Note:

Do not handle any mains equipment with wet hands or remove the cover without disconnecting the mains feed first.

2.2.3 Video connections.

The main processing chassis consists of two evolution Chassis

- 1. A two input 'A/B Mixer Unit'
- 2. An 8x4 'HD Video Router'

The system requires some video connections between the blocks to make up an irisHDi vision mixer.





'A/B Mixer Unit' Evolution

'HD Video Router' Evolution

Figure 2-4 irisHDi main processor chassis

Connect:

Out A - 'HD Video Router'	to	In 2 - 'A/B Mixer Unit'

Out B - 'HD Video Router' to In 3 - 'A/B Mixer Unit'

Using a suitable HD-SDI video cable with BNC connectors.

2.3 GPI/Tally connections.

Given in the tables below are the GPI and tally connections on the irisHDi. For Tally out format, refer to the section "Utility menus" and Menu 06 of the 'HD Video Router'. For irisOBHDi, which has no system controller, the default tally out setting is "Integr".

These are accessible on the rear of the 'HD Video Router' labelled "Tallies Out" (15W D-type).

Pin#	Function
1	Tally Output #1 Relay closure.
2	Tally Output #2 Relay closure.
3	Tally Output #3 Relay closure
4	Tally Output #4 Relay closure
5	Tally Output #5 Relay closure
6	Tally Output #6 Relay closure
7	Tally Output #7 Relay closure.
8	Tally Output #8 Relay closure.
9	Relay Common Contact
10	Relay Common Contact

Table 1 HD Video Router "Tallies Out"

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11	Relay Common Contact
12	Relay Common Contact
13	Relay Common Contact
14	Reserved
15	Reserved

'HD Video Router' tally outputs 1 (Isb) \rightarrow 4 (msb) are a binary representation of the on-air program source.

'HD Video Router' tally outputs 5 (Isb) \rightarrow 8 (msb) are a binary representation of the on-air preset source.

2.4 Connecting the panel to the chassis.

The irisHDi control panel is connected to the processing module by means of a single cable. The cable contains a "two wire" data connection called the I-Bus (or sometimes called the Can-Bus, these are the same!) and the power connection (+13V). In addition to this the pins 6 and 8 need to be connected between the 'A/B Mixer Unit' and the 'HD Video Router' in the processing module.

All these connections are on the 'I-Bus' connector of each evolution chassis of the processing module or each control panel block which have 9 Way D-type connectors that require connecting together.

Every irisHDi is delivered with a test ribbon cable to connect the I-Bus connectors as per section 2.4.1 of this manual. This is provided for initial customer testing of the complete irisHDi system and it is the customer's responsibility to produce the wiring for the final installation.

I-Bus function of 9W D-type	H Vic Rou	D leo uter	A Mi U	/B xer nit	FP-	10 (*)	VP-1	10	TK-1(D (*)	PP-1	10
Ground		1,	5	1,	5	1	,5		1,5		1,5	
I-Bus-		2	2	2	2		2		2		2	
Not Used		-	•	-			-		-		-	
+13V		-	•	4,	9	4	,9	4	4,9	4	4,9	
SD/HD		6	6	-			-		-		-	
I-Bus+		7	,	7	,		7		7		7	
Ref Pulse		ε	3	-			-		-		-	

2.4.I Control panel connections for a single channel irisHDi or irisOBHDi .

(*) These units are not provided in an irisOBHDi system.

For a single channel irisHDi system a control cable is requires which will loop evolution to evolution and on to the control panel where each control panel block has an individual connection as shown in the above table. The irisHDi processor

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'A/B Mixer Unit' evolution contains the +13V power supply, which is fed to the control panel.

Important note:

For optimum performance of the I-Bus each end of the I-Bus link should be terminated with two 100 Ohm 1/8 Watt resistors. (Connect the resistors between pins 2 and 7 of the 9W D-type connector, one at each end of the control cable). For Cable lengths of 10 meters or more, it is <u>highly</u> recommended that the I-Bus cable is impedance matched to 110 Ohms. We recommend digital audio cable such as that used for AES EBU for broadcast applications. Using impedance matched cable enables I-Bus connections of up to 200 meters.

2.4.2 Control panel connections for a multi channel irisHDi

irisHDi systems can operate in multi channel mode. In this case, more than one system shares the same control cable. Each panel can then "drop" and "pick-up" any one of up to eight systems. Up to eight control panels and eight systems can share the same control cable.

Unlike the single channel system, it is NOT recommended that the control panel be powered from the chassis. This is because of the question of <u>which</u> chassis do you power the control panel from? Each control panel can at any time be controlling any one of up to eight systems! The recommended control wiring is as follows:

I-Bus function of 9W D-type	H Vic Roi	D leo uter K	A Mi U	/B xer nit X	FF X	P-10 (*)	VI	P-10 X	Tł X	(-10 (*)	PP-10 X
round		1,	5	1,	5	1,	5	1,	5	1,5	5
I-Bus-		2	2	2	2	2		2		2	
Not Used				-		-		-		-	
+13V			•	-	I	-		-		-	
SD/HD		e	5	-	I	-		-		-	
I-Bus+		7	7	7	,	7	I	7		7	
Ref Pulse		8	3	-		-		-		-	

Note: X=1 to 8

The user then provides the local power to each control panel using a 1 Amp $8 \rightarrow 12V$ DC power supply as shown below. Such power supplies are readily available from electrical dealers.

Local 12V power supply. 1 Amp	H Vic Roi	ID deo uter	A Mi U	/B xer nit	FF	P-10 (*)	VF	P-10	Tł	<-10 (*)	PF	P-10
Ground		-	-	1,	5	1,	5	1,	5	1,5	5	
+8→+12V		-		4,	9	4,	9	4,	9	4,9)	

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3 Operation

3.1 Overview.

The operation of the irisHDi mixer is performed using the irisHDi control panel. In this description irisOBHDi will be described separately.



Figure 3-1 The irisHDi system control panel

Figure 3-1 The irisHDi, left - System control (FP-10), middle – T Bar module (VP-10), right - auto transition module (TK-10), top – program/preset panel (PP-10)

3.2 Basic Operation.

The simplest operation of the irisHDi revolves around the use of the program/preset bus, the T-Bar module and the Auto Transition panel.

3.2.1 Program/preset bus.



The program bus indicates the current "on-air" source. The user selects the next video source using the preset bus. After a BG (background) transition the program and preset sources "swap" or "flip-flop" ready to select the next source for transition. The user can also cut directly on the program bus. This will cause an instant transition cut to occur to the selected program source.

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3.2.2 Auto transition panel.



BG (Background) pressing this button arms the main mixer transition

Pressing any of the above buttons will make the button illuminate indicating that the transition is armed and will be activated either by a TAKE auto transition or by the T-Bar. Pressing the button again will deactivate the transition.

TAKE

TAKE Pressing this button will cause an auto transition of all armed transitions.

3.2.3 T-Bar Panel



Trans (Transitions) Pressing this takes you to the mixer transition menus on the system controller.

Each of the above buttons is a "Hot Key" to the appropriate menu set within the mixer. These menus provide fine control of the mixer. These menu sets are described in section 3.2.5.

3.2.4 T-Bar Panel, irisOBHDi

In the irisOBHDi product, the T-bar panel has different "Hot key" definitions in order to make up for the lack of a system controller. The keys are as follows.

eyeheight CUT MIX WIPE1 E2 FAST KAST SLOW Vp10 **Cut,** this will put the mixer into cut transition mode.

Mix This will put the mixer into mix transition mode.

Wipe1 This will put the mixer into vertical wipe transition mode.

Wipe2 This will put the mixer into horizontal wipe transition mode.

Fast This will change the auto transition time to Fast (approx 0.3 sec)

Med This will change the auto transition time to Medium (approx 0.5 sec)

Slow This will change the auto transition time to Medium (approx 1 sec)

Take This will perform an auto transition.

3.2.5 Mixer transition menus.

Main Transition menu



Menu Num.	Heading	Menu Options	Function
68	Transition type	0=mix 1=wipe 2=cut 3=cut-cut 4=cut-fade 5=fade-cut 6=fade-fade	This changes the type of transition between the program and preset sources.
69	Transition Speed	0=fast 1=medium 2=slow 3=user	This changes the speed of the transition between the program and preset sources.
70	Wipes		This takes you to menus to configure the wipes.
71	More		This takes you to menus $72 \rightarrow 75$ which further configure the mixer.

More Transition menus.

Menu Num.	Heading	Menu Options	Function
72	Hold To	Level A: 0=Hold to Black 1=Hold to Matte Level B: Hold Time 0→993	Pressing this button will make the two rotary digipots A and B active:
		Fields	Digipot A will change the intermediate colour field for cut-cut, cut-fade and fade-fade transitions.
			Digipot B will change the hold to black/matte time for cut-cut, cut-fade and fade-fade transitions.
73	Matte Colour used for cut-cut, cut-fade	Level A: Border Luminance, 0→255 Level B: Border Hue, 0→255 Level C:	Pressing this button will make the three rotary digipots A,B and C active:
	and fade- fade transitions	Border saturation, $0 \rightarrow 255$	Digipot A will change the matte luminance.
	transitions.		Digipot B will change the matte hue.
			Digipot C will change the matte saturation.
74	User Transition Time	User Tran Time 3-→253.	This changes the transition time of the "user" setting for menu 69
75	Back		This takes you back to menus 68→71.

Wipe control menus

NoBord S=81.0 D=50 %	L=100% H=0 d S=50 %	Back
--	---------------------------	------

Menu	Heading	Menu Options	Function

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Num.			
76	Wipe pattern	0= vertical wipe 1= horizontal wipe 2=vertical curtain 3=horizontal curtain 4=diagonal wipe 5=diamond wipe 6=horizontal arrow 7=vertical arrow	This changes the type of wipe pattern between the program and preset sources when wipe is selected as the transition.
77	Border parameters	Level A: 0=No Border 1=Border 1, Hard Coloured border. 2=Border 2, soft border edge. 3=Border 3, soft and coloured border. Level B: Border size, 1→49 Level C: Colour Depth, 0→511	Pressing this button will make the three rotary digipots A,B and C active: Digipot A will change the border type. Digipot B will change the border size. Digipot C will change the border colour depth for Border3.
78	Border colour	Level A: Border Luminance, $0 \rightarrow 255$ Level B: Border Hue, $0 \rightarrow 255$ Level C: Border saturation, $0 \rightarrow 255$	Pressing this button will make the three rotary digipots A,B and C active: Digipot A will change the border luminance. Digipot B will change the border hue. Digipot C will change the border saturation.
79	Back		This takes you back to menus 68→71.

3.3 The system controller.

The system controller block allows the user to control all the finer set-ups within the irisHDi system. The system controller also allows the user to use irisHDi in a "multi-channel" environment, where any panel can control any one of eight irisHDi systems. irisOBHDi does not have a system controller and therefore has limited set-up and no multi channel ability.



Figure 3-2 The irisHDi system controller

- **Mixer** This button selects the 'A/B Mixer Unit' mixer and allows control of the whole set-up of the unit
- **Util** This button selects any utility items within the irisHDi system. For an irisHDi there will one items, UTIL1 will allow direct control of the 'HD Video Router' unit, allowing the user to control the two spare outputs of the 'HD Video Router' router (these are outputs 3 and 4).
- Next This is used to navigate through menus of the irisHDi. (Next menu)
- **Prev** This is used to navigate through menus of the irisHDi. (Previous menu)
- **Setup** This allows the user to drop and pick up different irisHDi systems in a multi channel environment. Pressing this button for less than two seconds displays the panel number, for longer than two seconds, the user enters multi channel set-up mode.

3.4 Multi channel operation.

The irisHDi are capable of operating in a multi channel environment. Each panel can drop and pick up any one of up to eight channels. The following procedure shows how to do this.

Keep the set-up button pressed until the display changes to the following:



Press "Assign Chan'l" to continue to multi channel set-up. The display should look similar to the following:



In this case, the display invites you to press the "FREE Chan" button. This will take away control of the channel from this panel. The display will then look like this:



To then pick up another channel press the flashing "Next" button. If channel 2 is available, the display will look like this:



If channel 2 is not available, the display may look something like this:



If channel 2 is currently under the control of another panel the display may look something like this:



In this case, panel 4 is controlling irisHDi 2. In the case above, that channel 2 is available, the user is invited to press the "AQUIRE Chan" button after which the

display will look like this:



If the user now presses "EXIT", normal mixer operation resumes.

The above gives the user an idea of how to change channels from a panel. This example can only show one certain configuration of panels and channels. The user will need to use this example as a general guide when coming to a system for the first time.

3.5 Automation control.

The irisHDi vision mixer can be fitted with PresTX automation control. Please contact eyeheight for further information. At the time of writing Grass Valley GVG2100 protocol is also planned.

3.6 Utility menus.

The irisHDi have a set of up to 4 utility product menus. These are activated by pressing the "UTIL" button and selecting the UTIL $1 \rightarrow 4$ options. For an irisHDi, "AuxBus Util 1" allows access to the menus of the program/preset crosspoints, the 'HD Video Router'. This allows the user to override the program/preset bus (not recommended) but also allows the user to control the spare outputs of the router Aux1 and Aux2. The menu set of the 'HD Video Router' is as follows:

Menus (00-03	Тор	Level	Menus	(Press	next to	navigate)
---------	-------	-----	-------	-------	--------	---------	-----------

А	OP	В	OP	Aux10P	Aux20P
=1		=2		=1	=1

Menu Num.	Heading	Automation	Function
00	Program output select	1→8	Selects the current on-air program output. CAUTION!!! This will over-ride the program bus selector.
01	Preset output select	1→8	Selects the current preset bus source. CAUTION!!! This will over-ride the preset bus selector.
02	Aux 1 output	1→8	Selects the current Aux 1 bus source.

	select		
03	Aux 2 output select	1→8	Selects the current Aux 2 bus source.

Menus 04-07 'HD Video Router' set-up menus (NEXT/PREV to navigate)

Extn	Sync	Tally	I HDRT
sync=	source	Type=	PgmPst
active	<11/10/	AVX5-I	V3.00

Menu Num.	Heading	Automation	Function
04	External sync state	0=absent 1=active 2=not used	This shows the state of the incoming sync to the 'HD Video Router'. This should be "active" for synchronous cuts. If it is "absent" there is probably no reference on the 'A/B Mixer Unit' mixer module.
05	Sync Source	0=none 1='A/B Mixer Unit'	This selects the sync source for the 'HD Video Router'. For the irisHDi this should be set to "'A/B Mixer Unit"
06	Tally type	0=none 1=Integr 2=Binary	This selects where the Output tallies appear. None means no output tallies are selected
			Binary means the Program and preset source is shown in binary representation, low 4 tallies (GPO1(L) \rightarrow GPO4(H)) represent program source (1 \rightarrow 8) and the upper 4 tallies (GPO5(L) \rightarrow GPO8(H)) represent the preset source (1 \rightarrow 8). The tallies appear on the 'HD Video Router' 15W D connector.
			Integr means the 8 program sources are shown in In-Line format on GP0's 1→8 respectively. The tallies appear on the 'HD Video Router' 15W D connector.
07	Software version	none	Shows the current software version.

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Menus 08-11 Aux Outputs (NEXT/PREV to navigate)

Menu Num.	Heading	Automation	Function
08			
09	Aux 1 output select	1→8	Selects the current Aux 1 bus source
10			
11	Aux 2 output select	1→8	Selects the current Aux 2 bus source

Menus 12-15 Memories (NEXT/PREV to navigate)

Image: Mem 13Image: Mem 14RecallRecall	Mem 15 Recall	Next> *BACK*
--	------------------	-----------------

Menu Num.	Heading	Automation	Function
12	MEM1	1=Recall	Pressing this will recall Memory number 1 (depending on video standard being applied)User Names can be programmed in to the memories using a keyboard. See "geNETics User guide", section "Giving product Memories names"
13	MEM2	1=Recall	Pressing this will recall Memory number 2.
14	MEM3	1=Recall	Pressing this will recall Memory number 3.
15	BACK	none	Go To the Top Level Menus

Menus 16-19 Memories (NEXT/PREV to navigate)

Mem 16 Me Recall Re	m 17 Mem	18 118	<pre>next> *BACK* prev></pre>
------------------------	----------	-----------	-------------------------------------

Menu Num.	Heading	Automation	Function
16	MEM4	1=Recall	Pressing this will recall Memory number 4.User Names can be programmed in to the memories using a keyboard. See "geNETics User guide", section "Giving product Memories names"
17	MEM5	1=Recall	Pressing this will recall Memory number 5.
18	MEM6	1=Recall	Pressing this will recall Memory number 6.
19	BACK	none	Go To the Top Level Menus

Menus 20-23 Save memories (NEXT/PREV to navigate)

			next>
Mem 13	Mem 14	Mem 15	*BACK*
Save	Save	Save	prev>

Menu Num.	Heading	Automation	Function
20	SAVE MEM1	1=Save	Pressing this will Save Memory number 1 (depending on video standard being applied)
21	SAVE MEM2	1= Save	Pressing this will Save Memory number 2.
22	SAVE MEM3	1= Save	Pressing this will Save Memory number 3.
23	BACK	none	Go To the Top Level Menus

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Menus 24-27 Save memories (NEXT/PREV to navigate)

Menu Num.	Heading	Automation	Function
24	SAVE MEM4	1=Save	Pressing this will Save Memory number 4.
25	SAVE MEM5	1= Save	Pressing this will Save Memory number 5.
26	SAVE MEM6	1= Save	Pressing this will Save Memory number 6.
27	BACK	none	Go To the Top Level Menus

Menus 28-31 Power-on memories (PREV for less)

Set As	Recal I	Total	I HDRT
Pow On	Pow On	Reset!	PamPst
Mem	Mem	K07110	V3.00

Menu Num.	Heading	Automation	Function
28	Set As Pow On Memory	1=Set	Pressing this will set the current system set-up as the Power on memory default.
29	Recall Pow On Memory	1=Recall	Pressing this will recall The Power-on memory set up in the last menu.
30	Total Reset	1=Reset	Pressing this will cause a first Birthday of the unit. All current memories and settings will be lost.
31	Software	None	Shows the software version

3.7 Mixer Full menu set.

Pressing the mixer key enables the user access to the full menu set of the 'A/B Mixer Unit' mixer module. Some of these menus are repeat functions of the menus accessed by the "Trans" Hot key on the T-Bar module. Some of these menus are also not applicable for the irisHDi mixer. Where the menu is not applicable, the background of the menu will be filled in with grey.

Menus 00-03 Top Level Menus



Menu Num.	Heading	Automation	Function
00	PLAY	none	Go To the main Play menus (4-7)
01	TRAN	none	Go To the main Transistion menus (8-23)
02	AUDIO	none	Go To the main Audio menus (24-35)
03	UTIL	none	Go To the main Utility menus (36-67)

Menus 04-07 PLAY Menus



Menu Num.	Heading	Automation	Function
04	TAKE	1=take B 2=take A	This Causes the Auto Transition to occur.
05	PROGM	0=In A 1=In B	This Shows the currently selected "On-air" Source. A or B
06	PRSET	0=In A 1=In B	This Shows the NEXT selected "On- air" Source. A or B
07	BACK	none	Go To the Top Level Menus

Menus 08-11 VIDEO Transition Set-up Menus (NEXT for more)



Menu Num.	Heading	Automation	Function
08	TRANS	0=Mix 1=Wipe 2=Cut 3=Cut-Cut 4=Cut-Fade 5=Fade-Cut 6=Fade-Fade	This sets the transition type between Mix, Wipe and Cut and "U" and "V" fade types. "U" and "V" fades Transition to either "Black" or "Matte" and then "Hold" for a period before then transitioning to the Preset Source.
09	TIME	Menu Level "A" 1-200 Menu Level "B" 1-200	Press this button and the two digipots indicated by the lit LED's will change the transition time (in fields - Tr) and the Hold time (in fields – Hd). The Hold time is the time that the "U" and "V" fades stay on Black (Or Matte).
10	WIPE (Pattern)	0=Vertical 1=Horiz 2=Vert Curtain 3=Horiz Curtain 4=Diagonal 5=Diamond 6=Arrow Left 7=Arrow Up	This shows a representation of the shape of the currently selected Wipe Transition.
11	BACK	none	Go To the Top Level Menus

Menus 12-15 VIDEO Transition Set-up Menus (NEXT/PREV to navigate)

BORDER	Bord	Col our	Back
=0FF	Si ze 81. 0 %	Depth =50%	Ļ

Menu Num.	Heading	Automation	Function
12	BORDER	0=Off 1=Soft 2=Colour 3=Soft&Col	This selects the Type of Border on the Wipe edge between; No Border, Soft, Coloured and Soft and coloured.
13	BORDER SIZE	0-100	This sets up the Wipe Border Size between "0" (min) and "100", (max)

14	COLOUR DEPTH	0-100	This represents the amount of colour in the border when the "Soft and coloured" border option is selected. (0-100%)
15	BACK	none	Go To the Top Level Menus

Menus 16-19 VIDEO Transition Set-up Menus (NEXT/PREV to navigate)

Border	=100% Mar	nual
Color>	=0 d Tr	ran
>	=50 % =0	%

Menu Num.	Heading	Automation	Function
16	BORDER COLOUR	NONE	Points to adjacent menu for information only.
17	L= H= S=	Menu Level "A" 0-100 (L) Menu Level "B" 0-359 (H) Menu Level "C" 0-100 (S)	Press this button and the three digipots indicated by the lit LED's will change the Luma, Hue and Saturation of the border colour.
18	MANUAL TRAN	0-100	This will manually move the Transition point between PGM and PST. (0-100%)
19	BACK	none	Go To the Top Level Menus

Menus 20-23 VIDEO Transition Set-up Menus (PREV for less)

Matte> Color>	L=100% H=0 d S=50 %	Hol d To: BLack	
>	S=50 %	в аск	-

Menu Num.	Heading	Automation	Function
20	MATTE COLOUR	none	Points to adjacent menu for information only.
21	L= H= S=	Menu Level "A" 0-100 (L) Menu Level "B" 0-359 (H) Menu Level "C" 0-100 (S)	Press this button and the three digipots indicated by the lit LED's will change the Luma, Hue and Saturation of the Matte colour.
22	Hold To	0=Black 1=Matte	This is the "Intermediate" source for the "U" and "V" Fades
23	BACK	none	Go To the Top Level Menus

Menus 24-27 Audio Set-up Menus (Future Upgrade) (NEXT for more)

NOT FITTED	NOT	FITTED		Back
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Menu Num.	Heading	Automation	Function
24			
25			
26			
27	BACK	none	Go To the Top Level Menus

Menus 28-31 AUDIO Set-up Menus (Future Upgrade) (NEXT/PREV to navigate)

NOT	FITTED		Back
-----	--------	--	------

Menu Num.	Heading	Automation	Function
28	AUDIO:		
29			
30			
31	BACK	none	Go To the Top Level Menus

Menus 32-35 AUDIO Set-up Menus (Future Upgrade) (PREV for less)

Back

Menu Num.	Heading	Automation	Function
32			
33			
34			
35	BACK	none	Go To the Top Level Menus

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Menus 36-39 Utility Menus Nested Menus



Menu Num.	Heading	Automation	Function
36	Preview	none	Go To preview output menus (40-43)
37	Set-up	none	Go To system set-up menus (44-47)
38	Memories	none	Go To memory menus (48-51)
39	Back	none	Go To the Top Level Menus

Menus 40-43 Utility Menus: Preview



Menu Num.	Heading	Automation	Function
40	SAFE ACTION	None	This Switches on and off the currently selected area. Pressing the "Red" switch next to this one and adjusting the rotary digipots with the lighted green LED's chooses the Selected area.
41			When this button is pressed to "Green". The Three-line display in the window indicates the three options, which can be changed by adjusting the three rotary digipots A, B and C.
		Menu Level "A" 0=S.Action 1=S.Capt. 2=DigEdge 3=An Edge 4=C.App	Digipot A Determines the basic Function Selects "Safe Action" option Selects "Safe Caption" option Selects "Digital Edge" option Selects the "An. Edge" option Selects the "Clean Aperture" option
		Menu Level "B"	Digipot B Determines the Screen Format

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		0=4:3 1=16:9 2=16p4:3 3=16p149 4=43p16:9	Standard 4:3 Screen Standard 16:9 Screen 16:9 Shoot to protect 4:3 16:9 Shoot to protect 14:9 (*) 4:3 Shoot to protect 16:9 (*) (*) Not available in 525
		Menu Level "C" 0=Thin 1=Thick 2=Shade 3=Black 4=Dash1 5=Dash2	<u>Digipot C</u> Determines the Style of Indicate Thin White lines are used Thick White lines are used Shade is used for "danger area" Black is used for "danger area" Dash1 is thin dashed lines Dash2 is thick dashed lines
42			
43	Back	None	Go To the main Utility menus (36-39)

Menus 44-47 Utility Menus: Timing and S/W version

Ref 1100Px 0 Ln	I HDMW Mi x Fx V3.00	Back
	V3.00	

Menu Num.	Heading	Automation	Function
44	Timing		When this button is pressed to "Green" the two digipots indicated by the respective LED's will cause modification to
		Menu Level "A" 0 to 2750	<u>Digipot A</u> the Pixel Timing (6.7nS per step)
		Menu Level "B" 0 to 747 (720p) or 0 to 1123 (1080)	<u>Digipot B</u> the Line Timing
45			

46	Software	None	Shows the software version
47	BACK	None	Go To the Top Level Menus

Menus 48-51 Utility Menus: Memories (NEXT for more)

Mem 13 Mem 14	Mem 15	next>
Recall Recall	Recall	*BACK*

Menu Num.	Heading	Automation	Function
48	MEM1	1=Recall	Pressing this will recall Memory number 1 (depending on video standard being applied).User Names can be programmed in to the memories using a keyboard. See "geNETics User guide", section "Giving product Memories names"
49	MEM2	1=Recall	Pressing this will recall Memory number 2.
50	MEM3	1=Recall	Pressing this will recall Memory number 3.
51	BACK	none	Go To the Top Level Menus

Menus 52-55 Utility Menus: Memories (NEXT/PREV to navigate)

Mem 16	Mem 17	Mem 18	next> *BACK*
Recall	Recall	Recall	prev>

Menu Num.	Heading	Automation	Function
52	MEM4	1=Recall	Pressing this will recall Memory number 4.
53	MEM5	1=Recall	Pressing this will recall Memory number 5.
54	MEM6	1=Recall	Pressing this will recall Memory number 6.
55	BACK	none	Go To the Top Level Menus

Menus 56-59 Utility Menus: Memories (NEXT/PREV to navigate)

Image: Mem 13 SaveImage: Mem 14 Save	Mem 15 Save	next> *BACK* prev>
--	----------------	--------------------------

Menu Num.	Heading	Automation	Function
56	SAVE MEM1	1=Save	Pressing this will Save Memory number 1 (depending on video standard being applied).
57	SAVE MEM2	1= Save	Pressing this will Save Memory number 2.
58	SAVE MEM3	1= Save	Pressing this will Save Memory number 3.
59	BACK	none	Go To the Top Level Menus

Menus 60-63 Utility Menus: Memories (NEXT/PREV to navigate)

Mem 16 Mem 17 Me	m 18	*BACK*
Save Save S	ave	prev>

Menu Num.	Heading	Automation	Function
60	SAVE MEM4	1= Save	Pressing this will Save Memory number 4.
61	SAVE MEM5	1= Save	Pressing this will Save Memory number 5.
62	SAVE MEM6	1= Save	Pressing this will Save Memory number 6.
63	BACK	none	Go To the Top Level Menus

Menus 64-67 Utility Menus: Memories (PREV for less)



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Menu Num.	Heading	Automation	Function
64	Set As Pow On Memory	1=Set	Pressing this will set the current system set-up as the Power on memory default.
65	Recall Pow On Memory	1=Recall	Pressing this will recall The Power-on memory set up in the last menu.
66	Total Reset	1=Reset	Pressing this will cause a first Birthday of the unit. All current memories and settings will be lost.
67	BACK	none	Go To the Top Level Menus

4 Appendices

4.1 Appendix I, irisHDi cut-out panel dimensions



Figure 4-1 irisHDi Desk cut-out dimensions

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4.2 Appendix 2, irisOBHDi cut-out panel dimensions

Figure 4-2 irisOBHDi suggested desk cutout dimensions

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4.3 Appendix 3, irisHDi tub (TB-IO) cut-out panel dimensions



Figure 4-3 irisHDi tub (IT-9) fixing dimensions

4.4 Appendix 4, irisHDi technical specification

4.4.1 irisHDi.

HD-SDI Inputs	8 main inputs for source selection 'HD Video
1.485 Gbit, 75ohm	Router'
	2 A/B inputs for 'A/B mixer Unit'
	1 (HD-SDI) reference for 'A/B mixer Unit' (NOT AN
	ANALOGUE REFERENCE)
HD-SDI cable	At least 100 Meters of Belden 1694A
equalisation	
HD-SDI Outputs.	4 outputs from 'HD Video Router'. Program, Preset,
1.485 Gbit, 75ohm,	aux 1 and aux 2.
800mV.	2 outputs from 'A/B mixer Unit'. Program and
	Preset.
Tally Outputs	8 off tally outputs for the 'HD Video Router',
	indicating program and preset source selection.
Control System	eyeheight I-Bus, 2 wire network.
connections.	
HD-SDI Inputs	8 main inputs for source selection to 'HD Video
1.485 Gbit, 75ohm	Router', 2 inputs for mixer IHDMW
	1 (HD-SDI) reference for IHDMW (NOT AN
	ANALOGUE REFERENCE)
HD-SDI cable	At least 100 Meters of Belden 1694A
equalisation	

HD-SDI Outputs.	4 outputs from source router (IHDRT). Program,
1.485 Gbit, 75ohm,	Preset, aux1 and aux 2.
800mV.	2 outputs from IHDMW A/B mixer, Program and
	Preset.
Tally Outputs	8 off tally outputs for the IHDRT, indicating program
	and preset source selection.
Control System	eyeheight I-Bus, 2 wire network.
connections.	
Control Surfaces	Combination of 4 eyeheight control surfaces.
	FP-10, system controller
	VP-10, T-bar panel
	TK-10, auto transition panel
	PP-10, program-preset panel.
Chassis	eyeheight evolution miniBox chassis. 1RU for
	processor module.
Line Standards	1080-23.98psf, 1080-24psf, 1080-23.98p, 1080-
	24p, 1080-25p, 1080-50i, 1080-29.97p, 1080-30p,
	1080-59.94i, 1080-60i, 720p-23.98, 720p-24, 720p-
	25, 720p-29.97, 720p30, 720p50, 720p59.94,
	720p60
Power Supply Input	100→240V ac.
Range	47-63 Hz
Power Supply Input	1.8A Max
Current	
Operating Temperature	0 ~ 30 degrees C
Operating Humidity	5 ~ 95% non condensing
Power supply	$100 \rightarrow 240V$ ac. Less than 50W power consumption.

4.4.2 irisOBHDi

-	
HD-SDI Inputs 1.485 Gbit, 75ohm	8 main inputs for source selection 'HD Video Router', 2 A/B inputs for 'A/B mixer Unit' 1 (HD-SDI) reference for 'A/B mixer Unit' (NOT AN ANALOGUE REFERENCE)
HD-SDI cable equalisation	At least 100 Meters of Belden 1694A
HD-SDI Outputs. 1.485 Gbit, 75ohm, 800mV.	4 outputs from 'HD Video Router'. Program, Preset, aux 1 and aux 2. 2 outputs from 'A/B mixer Unit'. Program and Preset.
Tally Outputs	8 off tally outputs for the 'HD Video Router', indicating program and preset source selection.
Control System connections.	eyeheight I-Bus, 2 wire network.
Control Surfaces	Combination of 2 eyeheight control surfaces. VP-10, T-bar panel PP-10, program-preset panel.
Chassis	eyeheight evolution miniBox chassis. 1RU for processor module.
Line Standards	1080-23.98psf, 1080-24psf, 1080-23.98p, 1080-

	24p, 1080-25p, 1080-50i, 1080-29.97p, 1080-30p,
	1080-59.94i, 1080-60i, 720p-23.98, 720p-24, 720p-
	25, 720p-29.97, 720p30, 720p50, 720p59.94,
	720p60
Power Supply Input	100 → 240V ac.
Range	47-63 Hz
Power Supply Input	1.8A Max
Current	
Operating Temperature	0 ~ 30 degrees C
Operating Humidity	5 ~ 95% non condensing
Power supply	100 \rightarrow 240V ac. Less than 50W power consumption.