

# FULL FRAME ANALYSIS

# OPTION

# SDI ANALYSIS

The SDI analysis option provides the engineer with a detailed view of the data words contained within the SDI stream. This allows the analysis of complex faults and is particularly useful when determining compatibility issues between equipment and when debugging new product developments within an  $R\Delta D$  environment. Detail within the active SDI stream can be viewed with continuous update. Analysis can be obtained from the generated or received SDI stream allowing quick comparison checks.

A number of screen displays are provided for analysis.

#### GRID

With reference to pixels at the top of the screen and lines along the left side of the screen, users can look within an x, y grid of pixel and ancillary data. Samples can be viewed as 8 or 10 bit, hex or decimal. Navigation is simple and fast using the thumb pad with the selected value highlighted in white. A separate entry box allows a specific line and sample to be selected. Both the background and foreground text colours are coded for ease of identification. The background colour at any time represents the FVH bits within the TRS words. In this way the operator can determine if a data element is active picture, vertical blanking, horizontal blanking, field 1, field 2 or TRS. The foreground colour gives an indication of the type of pixel data being viewed – Y, Cb, Cr, R, G or B.

#### STREAM

This allows the SDI continuous stream to be viewed. SD-SDI signals are represented by a 10 bit stream and HD/3G-SDI by a 20 bit stream. A further column provides information to aid the user in identifying data types.

#### COMPONENT

The component view splits the display into 3 columns displaying Y, Cb and Cr data as10/8 bit, hex or decimal.

#### SPLIT

This mode splits the SDI stream further into the components 'Cb Y Cr Y' as 10/8 bit, binary, hex or decimal.

#### ANCILLARY DATA

This separate window allows the user to capture whole Ancillary data packets identified by their data id (DID). Entering a known DID value or by selecting its descriptive text, the Ancillary packet will be continuously displayed if present within the SDI signal. Data values containing errors found will be displayed in red text. The data may be frozen on screen once captured. There is also a freeze on error check box.

Option code

PHSXOSD



81	100	10909-50		Ovt. 1090x50				Loca		Free					10.01
			12.1	255	ESS.	LES	1.51	0	1					6	Tupe
	26	Y	940	MF.	000	000	2000	040	040	040	040	040	040	040	Grid
	-	9	200	SFF	600	000	240	200	200	200	200	200	- 60	200	0.10
	37	Y.	040	M	000		340	040	040	040	040	040	040	040	Line
	-	5	200	SFF	000	000	246	200	200	200	200	200	200	200	and the second s
	30	X	040	31	000	999	380	040	040	040	040	040	040	- 940	41
		5	200	SFF	000	000	240	200	200	200	200	200	200	200	State Inc.
	39	Y.	040	꽓	000	000	240	040	040	040	040	040	040	040	Sample
		9	200	포	000	8888	216	200	200	200	200	200	200	200	0
	40	Y	040	亚	000	000	240	040	640	640	040	040	640	640	<u>~</u>
		8	200	311		0000	246	200	200	200	200	200	200	200	
	41	¥	040	3FF	000	000	200	040	681	157	294	36A	340	SAC	
		C	200	301	000	000	200	200	200	200	200	500	200	200	
	42	Y	040	SFF	000	000	200	040	081	157	294	364	340	346	
	-	8	200		000		200	200 040	200 061	200	300	200	200	200 346	100
	42.	Y	040	JAFF	000	000	200	040	061	157	294	364	346	240	Hex
	1000	0	200	SF	000	000	200	200	200	200	200	200	206	200 340	PHEN.
	44	Y	040	377	000	000		040		157	294	364	346	-340	
		C	206	SFF	000	000	200	208	200		200	200	200	206	16bit
	45	×.	040	SFF	000	000	200	040	001	157	294	364	340	3AC	
		с.	200	उमर	.000	000	200	200	200	200	200	200	200	200	
															Inp
- 10			+ 10		= 100		+ 100		* 10		A 10		* 100		A 100
															101110000

Grid view of the SDI stream showing coloured window sections and highlighted value selected

# FEATURE HIGHLIGHTS

- DETAILED DATA WORDS IN SDI STREAM
- CONTINUOUS UPDATE
- SELECTABLE VIEWS, GRID, STREAM COMPONENT, SPLIT
- DATA ID (DID) ANCIALLRY PACKET VIEW
- SUPERIOR EASE OF USE

## APPLICATIONS

- R&D/TEST DEPARTMENTS
- SYSTEM INTEGRATORS
- SUPPORT ENGINEERS

### AVAILABLE FOR

- PHABRIX® SXA
- PHABRIX® SXD
- PHABRIX® SXE



PHABRIX® Limited Omega House, Enterprise Way, Thatcham, Berkshire RG19 4AE United Kingdom tel + 44 (0)1635 873030 fax + 44 (0) 1635 870240 email: info@phabrix.com www.phabrix.com \*Specifications and features described herein are subject to change without prior notice. Please consult our website www.phabrix.com for the latest data. PHABRIX is a registered trademark.

Revision 25/07/12