

INS/OUTS

1 HD/SD SDI In (all HD formats except 1920/1080/50p or 60p) either 4:2:2 or 4x4 (YUVK and RGBK)
2 SD SDI Outs (down conversion)
4 GPI In and 2 GPI Outs

DOWN CONVERTER - SYNCHRONIZER

HD 1080i/50 and 720p/50 to SD 50i
HD 1080i/60 and 720p/60 to SD 59.94i
HD 1080i/59.94 and 720p/59.94 to SD 59.94i
HD 1080p/24 to SD 59.94i

4 SD aspect ratio : 4:3, 4:3 Anamorphic, 14:9, 16:9

EMBEDDED AUDIO PROCESSOR

8 channels synchronizer (audio in relative to SD Ref)

DIGITAL PROC AMP (YUV)

Y Lift -150/+150mV from nominal
Cb/Cr lift ±150mV from nominal
Y Gain +50% to +200%
Cb/Cr Gain +0% to +200%
Hue±180°
Y Black Clip -50/+50mV from nominal
Y Black Knee +100/-0mV from Black Clip
Y White Clip 760/650mV
Y White Knee -100/+0mV from White Clip
Cb/Cr Clip 150/50%

LEGALIZER

100% removal of illegal colors (if longer than 4 pixels)

COLOR CORRECTOR (RGB)

RGB Black -700/+1440mV from nominal
RGB Peak level -700/+1440mV from nominal
RGB Gamma equivalent to input gamma of +1.0 to 2.8
RGB Black Clip -50/+50mV from nominal
RGB Black Knee +100/-0mV from Black Clip
RGB White Clip 760/650mV
RGB White Knee -100/+0mV from White Clip

CROPPING

H Crop 0 to +half video line (linear edges)
V Crop 0 to +half video field

BUG INSERTION

1 animated bug inserter onSD Out
Bugs are stored internally or downloaded from Ethernet
Insertion can be GPI controlled

DIMENSIONS (FIG)

44mm (H) x 205mm (W) x 325mm (L)
Rack mounting with RM1 option (2 units in 1RU)

WEIGHT

2.5kg (without power supply)

POWER

FIG comes with an external 100-240V power supply
Optional redundant power supply (RPSU)
Power consumption: less than 20W

All specifications of this brochure are subject to change without notice. They are given for information only

ORDERING INFORMATION

FIG Universal HD-SD SDI to HD-SD SDI OS free computer
External 12V Power Supply

UL509 application
Logo Inserter, RGB Color Legalizer, Audio processor and HD to SD Down Converter

UL649 application
Logo Inserter, RGB Color Corrector, Audio processor and HD (4:2:2, 4x4) to SD Down Converter

RC-CO Remote control for Color Correction

RM1 Rack mounting mechanics for 1 or 2 FIG modules

RPSU Redundant & Hot Swap external Power 12V Supply

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ULTIMA

*HD to SD Down Converter,
Audio to Video Synch'r
RGB Color Corrector - Legalizer
SD Logo Inserter*

Software solutions developed on FIG hardware platform

ULTIMA
HD 4:2:2 to SD Down Converter
SD Color Legalizer
SD Logo Inserter
UL509 on FIG

HD 4:2:2 and 4x4 to SD Down Converter
SD Color Corrector and Legalizer
SD Logo Inserter
UL649 on FIG

Additional Control unit
RC-CO for UL649



RC CO

FIG

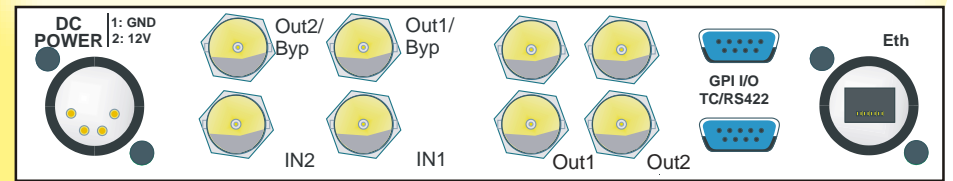
OS-free 'computer' designed for dual link HD, HD, SDI
Second to none

FIG has everything to suit your needs
Dual HD or SDI Inputs
HD or SDI Outputs
Redundant Power Supply
Ethernet connection
GPI I/O
Field upgradable firmware from Compact Flash

ULTIMA

FIG

*HD to SD Down Converter,
Audio to Video Synch'r
RGB Color Corrector - Legalizer
SD Logo Inserter*



ULTIMA functionalities

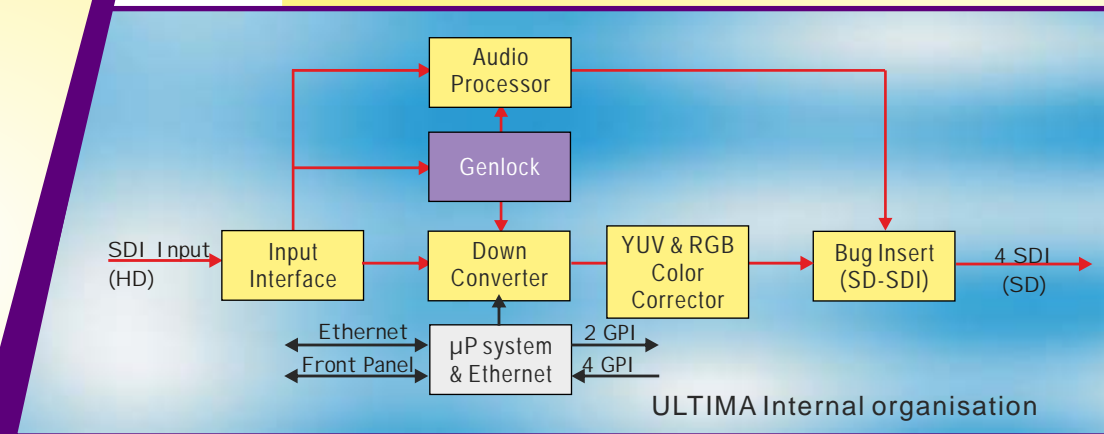
- ▣ Serial SD/HD-SDI Inputs (4:2:2 and 4x4)
- ▣ Serial SD-SDI Outputs
- ▣ 2 GPI Out, 4 GPI In all potential free
- ▣ User selectable GPI controls
- ▣ Total control from front panel
- ▣ 100baseT Ethernet network connector
- ▣ 1RU height, half 19" width (2 units in 1RU)

- ▣ RGB Color corrector (black, gain, gamma)
- ▣ Complete YUV Proc Amp plus YUV Clipping
- ▣ True False Color Legalizer with adjustable thresholds (RGB Clipper)
- ▣ H and V crop with linear edges
- ▣ Controls from front panel or from RC CO

- ▣ HD to SD Down converter
- ▣ Aspect ratio converter (16:9, 14:9, 4:3) on SD-SDI Out
- ▣ 24p to 29.97i wiyh 3:2 pulldown

- ▣ 8 channels of embedded audio retimed and resynchronized (SD Out)

- ▣ Bugs stored internally or downloaded from Ethernet (Tomato freeware)



RC-CO Functionalities

- ▣ 100 baseT Ethernet network
- ▣ Internal 10/100 Ethernet switch with 4 external ports
- ▣ Graphics LCD display
- ▣ Camera style mechanics
- ▣ Direct access to all functions of UL509, UL519
- ▣ Direct access to all devices on network



VT3