

UKON Universal Conversion Platform

Whatever your input and output requirements, Ukon provides upconversion, downconversion and crossconversion (SD to SD or HD to HD).

Ukon is designed for real world applications, where precise lip-sync, and time-code integrity are important considerations. Accordingly, it takes care of all your audio requirements, including embedded, AES and compressed audio formats. It also carries out time-code conversion from any SD or HD format to any HD or SD format with the reassurance of exact frame mapping.



Features

- All current SMPTE 292M and ITU 709 HD standards supported
- Digital color space conversion
- Aspect ratio control
- 2 x HD/SD-Serial Digital in
- 4 x HD-Serial Digital out / 3 x Rec. 601 out (option)
- Powerful 3:2 detection and repair
- Image enhancer/de-enhancer
- 4 user display memories
- 2 genlock inputs with loop-through
- 8 global control memories
- Audio processing with adjustable audio delay
- Time-code processing
- Real-time pan/zoom control

Features

Signal Inputs

Serial Digital

2 x BNC 10-bit HD or SD SDI digital inputs
HDTV 1.48GHz - SMPTE 292-1997 and embedded audio SMPTE 299M and or 270MHz Rec 656 and embedded audio SMPTE 272M.

Analog Reference

2 x BNC HDTV Tri-syncs or SD Bisync for Genlock - SMPTE 240M/274M

Film Sequence Flag
RS422

1 x BNC

Network

1 x Control port 9-pin D type

Audio embedder/
disembedder

1 x RollCall/RollNet remote via BNC
4 x BNC 20-bit 48kHz AES3 75 Ohm unbalanced digital audio inputs

Signal Outputs

Serial

4 x HDTV serial digital outputs at 1.48GHz - SMPTE 292-1996 and embedded audio SMPTE 299M

Serial

3 x SD serial digital outputs at 270MHz - Rec. 601 and embedded audio SMPTE 272M

Film Sequence Flag

1 x BNC Input Loop-through on units with only one digital input fitted.

Analog Reference

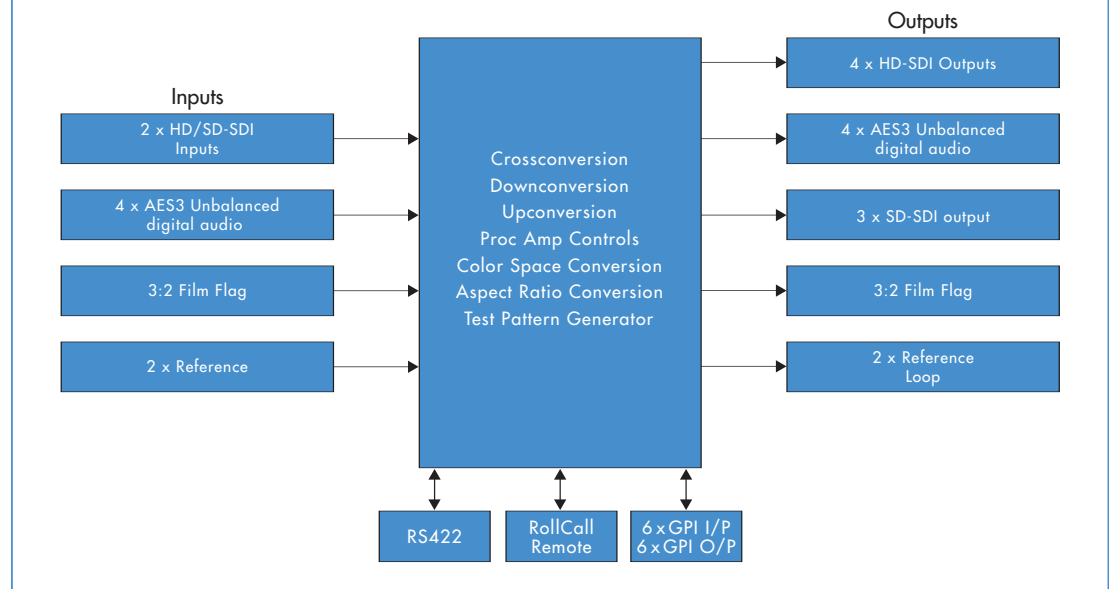
1 x BNC

Audio embedder/
disembedder

2 x loop-through

4 x BNC 20-bit 48kHz AES3 75 Ohm unbalanced digital audio inputs

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Full Product List

Base Model

UKON 10-bit Universal High Definition Conversion Platform, including upconversion, downconversion, crossconversion and Audio (3608800)

Option

Redundant PSU (CSO)

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Company policy is one of continuous product improvement. Specifications are therefore subject to change without notice.

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Features continued

Note - embedded audio is not available for 625/24sF and 625/23sF input or output video standards. The AES/EBU inputs and outputs are always available.

Input Standard

HD to SMPTE 292M, 299M
HD-SDI
750(720)/60p, 1125(1080)/30i
750(720)/59p, 1125(1080)/30p
750(720)/50p, 1125(1080)/30sF
750(720)/30p, 1125(1080)/29i
750(720)/29p, 1125(1080)/29p
750(720)/25p, 1125(1080)/29sF
750(720)/24p, 1125(1080)/25i
750(720)/23p, 1125(1080)/25p
750(576)/50p, 1125(1080)/25sF
750(480)/60p, 1125(1080)/24p
750(480)/59p, 1125(1080)/24sF
1125(1080)/23p
1125(1080)/23sF
1125(1035)/30i
1125(1035)/29i

Output Standard

SD-SDI
525(480)/29i, 625(576)/25i
625(576)/24sF, 625(576)/23sF
HD - SMPTE 292M, 299M
HD-SDI
750(720)/60p, 1125(1080)/30i
750(720)/59p, 1125(1080)/30p
750(720)/50p, 1125(1080)/30sF
750(720)/30p, 1125(1080)/29i
750(720)/29p, 1125(1080)/29p
750(720)/25p, 1125(1080)/29sF
750(720)/24p, 1125(1080)/25i
750(720)/23p, 1125(1080)/25p
750(576)/50p, 1125(1080)/25sF
750(480)/60p, 1125(1080)/24p
750(480)/59p, 1125(1080)/24sF
1125(1080)/23p
1125(1080)/23sF
1125(1035)/30i
1125(1035)/29i

SD-SDI
525(480)/29i, 625(576)/25i
625(576)/24sF, 625(576)/23sF

Input & Output Blanking

Left & Right in steps of 1 pixel.
Top & Bottom in steps of 1 line.

Input/Black
Input Loss
Video Sync Modes
Conversion Modes

Input/Black
Auto/Optimize/Interpolate/Synchronize
Auto/Video/Video to sF/Video to 3:2/Film/Film to sF/Film to 3:2/sF to 3:2/sF to 1:1/3:2 to sF/3:2 to 1:1/1:1 to 3:2/1:1 to sF

Audio Embedding

Strip ANC data, select tone/silence, audio pass
Auto, SMPTE 274, 260, 240, BT709, No correction
Vertical, Horizontal, DeRing

Color-space conversion

Enhance

Control Functions

GPI
Display

6 inputs, 6 outputs
Preset Sizes:-
Full Height, Full Width, Anamorphic, 16:9 Letterbox, 14:9 Letterbox, Center 4:3
Variable Pan, Tilt, Size, Aspect and slew-rate.

Specifications

Display memories
Reference

4 user memories
Auto / Ref.A / Ref.B / Input
Input Horizontal & Vertical timing
8 machine memories
Pattern On/Off, Pattern select
Freeze On/Off
Mono On/Off. Mono type
Timecode output/synchronizing
Y/C delay

Memory
Utilities

Power

Mains Supply
Power Consumption

115 V to 230 V AC 45/60 Hz
Max. 240 W

Mechanical

Temperature Range
Cooling
Case Type
Dimensions
Weight

0° to 40° C operating
Axial fan
2RU Rack Mounting
483 mm x 530 mm x 95 mm (w,d,h)
14 kg



KP20 03/06 V1