

SuperFlex® Pro Cinema Event Player

Applications

- Digital Cinema
- 2D and 3D Live Events
- Alternative Content

Features

- Video Decoder: MPEG-2, MPEG-4 AVC (H.264)
- HD or SD
- Centralized configuration and control
- 16:9 and 4:3 conversion
- Automatic PAL/NTSC identification
- Upgradeable software
- SENSIO® Hi-Fi 3D (option)
- Dual HDMI output for 3D
- Video transport stream over IP input
- DVB-S/S2 satellite input

The SuperFlex Pro Cinema Event Player brings live alternative content to theatres in 2D and 3D. IDC's live event solution uses multicast IP distribution in the theatre or satellite input to reduce complexity and cabling costs, while allowing multiple auditoriums to be equipped with the Pro Cinema Event Players for the most popular live music, sports and theatrical events.

The Pro Cinema Event Player, an expansion of IDC's end-to-end digital cinema distribution solution, receives an IP video stream from a SuperFlex® Receiver and delivers a high quality 2D or 3D image to digital cinema projectors. The Pro Cinema Event Player also provides support for DVB-S/S2 direct satellite input.

Professional Video Decoding

The Pro Cinema Event Player can decode HD or SD video encoded with MPEG-2 or MPEG-4 AVC. This provides the highest possible quality video image for live alternative content in 2D or 3D. The Pro Cinema Event Player is capable of upconverting to high definition video resolutions up to 1080p 60.

3D Live Technology Support

3D live decoding and flexible output formatting options are available to meet the growing demand for the presentation of 3D live alternative content. The integrated SENSIO® Hi-Fi 3D Decoder* supports both 2D and 3D output of 3D live content and is compatible with all digital 3D projection systems — RealD, Dolby®, MasterImage 3D, XpanD and IMAX®. The 3D option also provides conversion of live 2D content to 3D to generate additional presentation opportunities.

*An additional license fee is required to activate.

Compatible with Digital Cinema Projectors

The Pro Cinema Event Player facilitates the display of high quality live alternative content using the same digital cinema projectors used to show movies. The dual-HDMI (DVI compatible) outputs are designed to be plug and play compatible with virtually any current digital cinema projector including Sony and Series-2 TI-based projectors.

Flexible Audio Decoding

Audio decoders are included for Dolby Digital, MPEG-4 AAC and MPEG Layer I, II and II to ensure high performance mono, stereo and multi-channel sound. Dolby Digital 5.1 pass-through on S/PDIF is also provided for the input connection to theatre sound systems.

Fully Integrated Network Management

The Pro Cinema Event Player is supported by IDC's network management system. This includes support for individual and network-wide configuration changes from a central location. The configuration changes can be made via the satellite link.

BISS Decryption

BISS decryption is used to secure live event transmissions from the event site to the Pro Cinema Event Player.



TECHNICAL SPECIFICATIONS—SuperFlex Pro Cinema Event Player

VIDEO/AUDIO CAPABILITIES	
Video Decoding	MPEG-2 MP@HL, MP@ML MPEG-2 ASP@L5 H.264 MPEG-AVC (4.10) MP@L3, MP@L4.1 HP@L4.1
Input Video Resolution	1080p 25 1080p 30 1080i 30 1080i 50 720p 60 720p 50 Standard Definition PAL Standard Definition NTSC
Output Video Resolution	Up to 1080p 50/60 in 2D or 3D
Audio Decoder	Dolby® Digital 5.1 MPEG Layers I, II and III (MP3) 2.0 MPEG-2 and MPEG-4 AAC-LC5.1
3D SUPPORT	
3D Decoding	<ul style="list-style-type: none"> • SENSIO® Hi-Fi 3D format • 2D to 3D Conversion
3D Output Formats	<ul style="list-style-type: none"> • Auto • HDMI 1.4 Compatible • Frame Sequential • Above/Below • Side-by-Side • Checkerboard • Line Interleave • Dual Stream • Safe Anaglyph
DVB-S MODE	
Symbol Rate	QPSK 1 to 45 MS/s
Modulation	QPSK
FEC Type	DVB concatenated Viterbi 1/2, 2/3, 3/4, 5/6, 7/8 Reed-Solomon 204/188
Alpha Factor	0.35
DVB-S2 MODE	
Demodulation/Symbol Rate	QPSK 1 to 45 MS/s
FEC Type	Concatenated, LDPC and BCH QPSK 1/4, 1/3, 2/5, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 (1/4, 1/3, 2/5 normal blocks only)
Alpha Factor	0.20, 0.25, 0.35

RF INPUT	
Frequency Range	950 to 2150 MHz
Loop Thru Output	950 to 2150 MHz
Frequency Tuning Steps	Synthesized 1 Hz steps
AFC Range (drift tracking)	± 2 MHz maximum
Input Level	-25 to 65 dBm @ 27.5 Ms/s
Connectors	Type-F, female
Impedance	75 ohms, unbalanced
LNB DC Power	+18 VDC (left/horizontal polarity), +13 VDC (right/vertical polarity) 450 mA max Center conductor positive Short circuit protected
LNB Control	DiSEqC 2.0 and 22 KHz
LNB Requirement	DRO Type
FRONT PANEL INDICATORS	
<ul style="list-style-type: none"> • 6 keys: Power, Menu, CH+/CH-, VOL+/VOL-, OK • LED status indicator (power/standby/signal) • Working status and LCD display 	
CONNECTIONS	
Ethernet	<ul style="list-style-type: none"> • RJ45-Ethernet on 10/100 Base-T • IP address setup: DHCP or static IP • IP multicast: IGMP, TS over UDP, TS over RTP • IP protocol: TCP/IP, UDP, DHCP, DNS
Video	<ul style="list-style-type: none"> • 2x HDMI with embedded audio • Composite on RCA female
Audio	<ul style="list-style-type: none"> • Analog: left and right on 2x RCA female • Digital: S/PDIF coaxial on RCA female
DECRYPTION OPTIONS	
BISS	
POWER REQUIREMENTS	
Power Supply Type	Internal with detachable line cord
Supply Voltage	90 to 240 VAC, 50 or 60 Hz
Power Consumption	40 Watts maximum
PHYSICAL PARAMETERS	
Chassis	1RU rackmount
Dimensions (H, W, D)	4.5 cm x 48 cm x 36 cm (1.75" x 19" x 14")
Weight	1.9 kg (4 lbs.)
ENVIRONMENTAL CONDITIONS	
Operating Temperature	0° to 40° C (32° to 104° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	Maximum 90% relative, non-condensing



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