

Apollo IX™

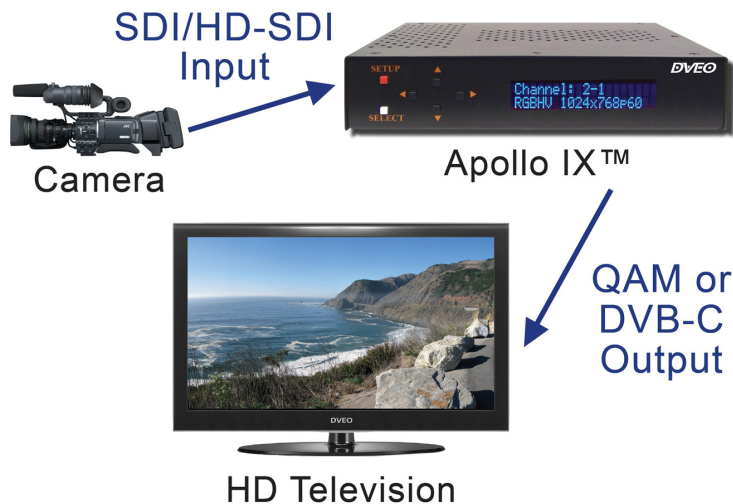
Real Time SDI and HD-SDI to QAM or DVB-C Converter with 1080i or 720p MPEG-2 Encoder. Designed for Real Time MPEG-2 Encoding of Any SDI/HD-SDI Input and Sending it Out via Built In Frequency Agile QAM or DVB-C Modulator. Output Resolution is 1080i or 720p at 16x9. Designed to Present Camera or Server Feeds to Many Viewers via QAM or DVB-C Tuners Built Into All Televisions! Ideal Product to Create In House QAM Channel Inside a Television Station. Supports MPEG-1 Layer II Audio in via "Dual" Mini DIN Connector.

Features

- Accepts digital SDI or HD-SDI
- Also accepts analog HD (1080i/720p/480p/480i), Component, S-Video and Composite video
- Switches between SDI, Component, and video inputs with audio follow
- Supports analog stereo, digital optical, and coax audio inputs
- Encodes HD-SDI to a high-definition 720p or 1080i MPEG-2 stream
- Outputs a fully frequency agile QAM 64/256 digital cable channel 2-135
- Amplifies for distribution over an on-site broadband cable system with adjustable output level to 29 dBmV, compatible with all cable format broadband systems
- Front-panel buttons and easy to use menus, including inputs, encoding, channel, and RF options
- Create single-part virtual channels, such as 116, 645 to match Guide channels
- Integrates with RS-232 control and feedback with simple ASCII commands
- Saves power and rack space using efficient design, fan-free cooling, and compact enclosure
- Powers up in less than 4 seconds, no OS overhead
- Includes compact switching power supply
- Ships with 1 RU single rack mount
- Meets RoHS safety and California energy standards
- Free option to drive two to four modulators from a 12 VDC 4A power supply

Applications

- Create an on-site HDTV broadband distribution system using HD-SDI, Component, and NTSC video sources
- Distribute digital signage, satellite, cable, and media as HD digital cable channels over existing broadband wiring
- View HD sources at any destination using HDTV displays or tuners



Overview

SDI and HD-SDI are the universal standards for digital uncompressed video. (QAM is the universal standard modulation for cable television content delivery.) SDI and HD-SDI signals are typically found on cameras and video servers. Often people want to share these outputs with many people via QAM tuner equipped televisions.

Compact and easy to integrate, the Apollo IX accepts SDI, Component, or S-Video/ Composite NTSC, converts the audio and video to a digital cable channel, and amplifies for distribution through broadband cable system.

Innovative in design and value, the Apollo IX opens the door to cost-effective distribution of HD-SDI broadcast sources and live video, digital signage, HD subscriber sources, and EAS emergency AV, using existing broadband coax cabling in sports, retail and entertainment facilities, corporate offices, colleges, schools and worship centers. Front-panel buttons and text menu display simplify Apollo IX setup, with options for 2-way integration with custom control systems.

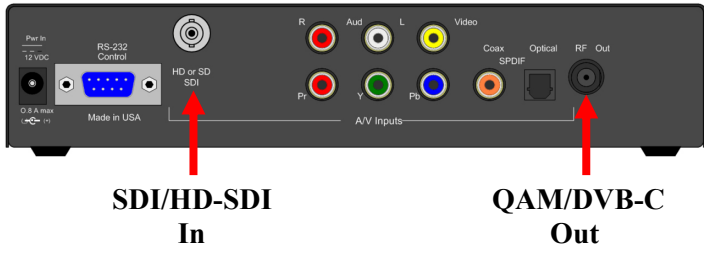


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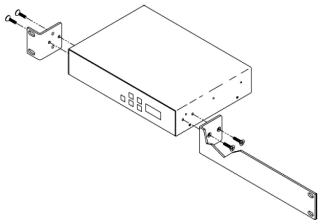
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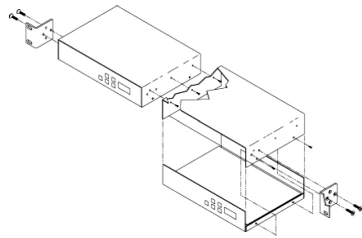
Inputs/Outputs



Optional Rack Mounts



Single Unit Rack Mount



Dual Unit Rack Mount

Ordering Information

- Apollo IX
- Apollo IX/RM – Apollo IX with single unit rack mount
- Apollo IX/RM2 – Apollo IX with dual unit rack mount

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Specifications

Video Inputs

SDI/HD-SDI	BNC Female SD-SDI rate 270Mb/s or HD-SDI rate 1.485Gb/s Coax cable auto-equalizer for SD up to 460m, HD up to 230m (RG6) Auto-senses 1080i at 29.97 Hz, 720p at 59.94 Hz, or SD 480i at 29.97 Hz Video Format YCbCr 4:2:2 Can accept SDI embedded Stereo 48 KHz digital audio, Groups 1-4
Component	RCA Pr, Pb, Y (1080i/720p/480p/480i), available if RGB not wired
S-Video	Y (Composite), C (Blue Pb) 480i, 29.97 Hz, available if RGB/Component not wired
Composite	RCA female (480i), can be switched with HD input manually, via RS-232, or with EAS GPI inputs

Audio Inputs

Digital Audio SPDIF	Coax and TOS link optical output, PCM 48K sample rate
Audio Left and Right	Stereo RCA female jacks ; Apollo remembers which audio input is assigned to HD and Video inputs

Video Output

RGB	RGBHV DB-15 female, buffered, from VGA input
RF Out	F', female, 75 ohm impedance

Encoding

Video Encoding Standards	MPEG-2 Profile: MP@HL for HD, MP@ML for SD1080i, 720p, 480p, and 480i resolution, depending on input
Video Encoding Bitrate	18 or 25 Mbps
Audio Encoding	MPEG-1 Layer II
Latency	240 ms including tuner spool-up, 720p/1080i may vary slightly depending on tuner

Modulation

QAM/DVB-C	Switchable 64/256 QAM, J83 Annex B, Interleaving Modes (128,1) MER 38 dB typical
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Front Panel Controls

Controls	Select and directional buttons for menu setup
Menu LCD	2 lines of 20 blue characters each

Physical & Power

Rack Mount	One half RU
Dimensions – Inches	8.5" (W) x 1.73" (H) x 6.0" (D)
Dimensions – Millimeters	216 (W) x 62 (H) x 153 (D)
Weight	1.5 lbs (0.68 Kilograms)
Power	2.1mm coaxial jack (inside center conductor positive) 0.8 A maximum, 11.5 to 13.5 VDC, 12 VDC typical Includes PS12-1.0 switching power supply, 1A 12 VDC
Operating Temperature	+32° to 122° F, (0° to 50° C), Convection cooled
Conformities	FCC Class B, ROHS, meets California standards



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