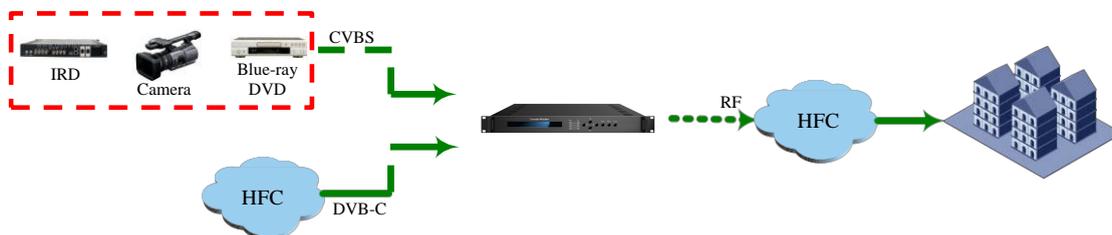


KO-800/400

8/4 in 1 Encoder Modulator



Input: 8 CVBS + 1 ASI + 1 Tuner (optional)



Product Overview

KO-800/400 4/8 in 1 Encoder/Modulator is an all-in-one device integrated encoding, demodulation, multiplexing and modulation functions in one standard 1U case. It can convert 8 CVBS signals and 1 ASI input (DVB-C Tuner input optional) to DVB-C RF out in the frequency range of 30~999MHz. It is also equipped with 2 ASI ports and IP port to output TS in MPTS & 8* SPTS.

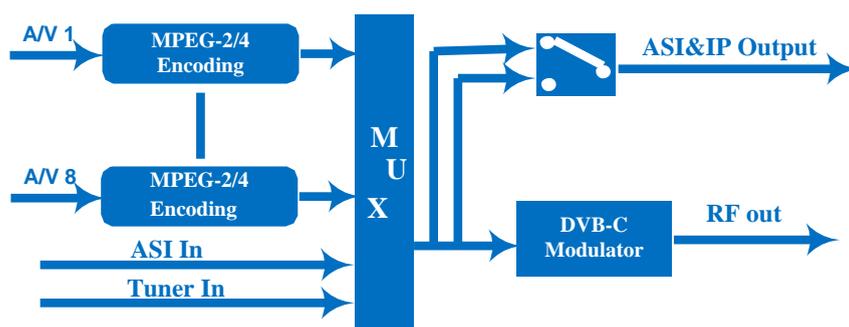
The signals source could be from satellite receivers, closed-circuit television cameras and etc. its output signal is to be received by DVB-C standard TVs or DVB-C STBs.

The device can be used in public place such as metro, market hall, theatre, hotels, resorts, etc for advertising. It also can be used for monitoring, training and educating in company, schools, campuses, hospital.

Key Features

- Support 8CVBS+1 ASI Input + **DVB-C Tuner input (optional)**
- H.264 and Mpeg2 video encoding
- MPEG1 Audio Layer 2, LC-AAC and HE-AAC (V2) audio encoding
- Support PSI/SI editing and inserting
- Support accurate PCR adjusting
- Support PID filtering, re-mapping
- Supports VBR/CBR video encoding
- Supports ultra low bit rate encoding
- Applicable for one Seg utilization
- 1*DVB-C RF output
- Supports MPTS & 8 SPTS IP over UDP output
- Supports IP null packet filter
- LCD / keyboard and web NMS operation
- Update device through web NMS port

Principle Chart



Specifications

Input	8 CVBS, BNC interface	
	8 pairs of unbalanced stereo audio, BNC interface	
	1 ASI input, BNC interface	
	1 Tuner input (Optional)	
Video	Resolution	PAL: 720*576/352*288/320*240/320*180/176*144/ 160*120/160*90@50Hz
		NTSC: 720*480/352*288/320*240/320*180/176*144/ 160*120/160*90@59.94Hz
	Encoding	MPEG-2 / H.264
	Bit-rate	0.25~6Mbps
	Rate Control	CBR/VBR
	Advanced Pretreatment	De-interlacing, Noise Reduction, Sharpening

Audio	Encoding	MPEG1 Audio Layer 2, LC-AAC, HE-AAC V2		
	Sampling rate	48KHz		
	Bit-rate	48Kb/s~384Kb/s for MPEG1 Audio Layer 2 48Kb/s, 56Kb/s, 64Kb/s, 80Kb/s, 96Kb/s for HE/LC-AAC V2		
Multiplexing	1 ASI and tuner input multiplexed with local 8 channels of TS			
	PID re-mapping			
	PCR accurate adjusting			
	Automatic generating PSI/SI table			
DVB-C Tuner Section (Optional)	Standard	J.83A, J.83B, J.83C		
	RF frequency	30~1000MHz, 1KHz step		
	J.83A	Constellation	16/32/64/128/256QAM	
		Symbol rate	5.0 - 9.0 Msps	
	J.83B	Constellation	64QAM	256QAM
		Symbol rate	5.057Msps	5.361Msps
	J.83C	Constellation	64QAM, 256QAM	
		Symbol rate	5.0 - 9.0 Msps	
Modulator Section	Standard	J.83A, J.83B, J.83C		
	MER	≥42dB		
	RF frequency	30~999MHz, 1KHz step		
	RF output level	-30.0~ 10.0 dbm (77~97 dBμV), 0.1db step		
	Symbol rate	5.0 - 9.0 Msps		
	J.83A	Constellation	16/32/64/128/256QAM	
		Symbol rate	5.0 - 9.0 Msps	
		bandwidth	8M	
	J.83B	Constellation	64QAM	256QAM
		Symbol rate	5.057Msps	5.361Msps
		bandwidth	6M	
	J.83C	Constellation	64QAM, 256QAM	
		Symbol rate	5.0 - 9.0 Msps	
		Bandwidth	6M	
	Stream output	2*ASI output, BNC interface		
MPTS & 8 SPTS over UDP, 10/100Base-T Ethernet interface (UDP unicast / multicast)				
System function	LCD/keyboard operating, web NMS supporting			
	Ethernet software & hardware upgrade			
Miscellaneous	Dimension (W× L× H)	482mm×455mm×44mm		
	Approx weight	4kg		
	Temperature	0~45 °C (work), -20~80 °C (Storage)		
	Power	AC 100V-220V±10%, 50/60Hz		
	Consumption	25W		