



SK-16D

User Manual

Dingshengwei Electronics Co.,Ltd

V. 20170227DK

Written By Ken

SOUKA

INDEX

1. General Description.....	3
2. Specifications	3
3. Caution Statements.....	9
4. Safety Instructions	9
5. Front Panel View	11
6. Rear Panel View	12
7. Side Panel View	12
8. Unpacking and Handling	13
9. Mechanical Inspection	13
10. Damage in Shipment	13
11. Precautions	14
12. Quick Installation	14
13. Common Troubleshooting	15
14. Solution	16
15. Limited Warranty	16
16. Frequency Table	17

1.GENERAL DESCRIPTION

Thank you for buying **SK-860XX** Encoder-Modulator. Please read this manual thoroughly before install, use and maintain the encode-modulator in the best conditions of performance. Keep this manual for future reference. The **SK-860XX** main characteristics are:

- ◆Integration of Encoder and DVB-T/-C/ATSC/DTMB/ISDB Modulator in one box.
- ◆Support MPEG2 encoding
- ◆Multiple audio format compatibility including MPEG-1 Layer II
- ◆PAT,PMT,NIT,SDT generated automatically
- ◆Anti-collision for TS ID, PID , Service name
- ◆16input and 1RF output (HDMI Input for HD & RCA Input for SD)
- ◆Output frequency range: 50-1000MHz
- ◆Output resolution 1080P@30
- ◆User friendly front panel operation; easy to set up
- ◆Support Android mobile phone control and set up
- ◆Support hot-plugging

2.SPECIFICATIONS

SK- 860TH (DVB-T HD Encoder-modulator)

Video

Input Connector: HDMI 1.4

Encode Format: MPEG 2

Input Resolution: Max 1920*1080 @60

Bit Rate: 2-19.5Mbps Self-adaption

Audio

Encode Format: Stereo MPEG1 Layer II

Sample Rate: 48KHz

Bit Rate: 384kbps

Modulation

Standard: DVB-T comply with ETSI EN300 744

Constellation: 64QAM

Band width: 6/7/8MHz optional

Guard Interval: 1/32

FEC: 7/8

MER: ≥35dB

FFT Mode: 8K

RF Output

Output level: ≥35dBmV

Output Frequency Range: 50-1000MHz,step by 10kh

Output Resolution: 1080P @30

SK- 860TA (DVB-T SD Encoder-modulator)

Video

Input Connector: RCA Yellow

Encode Format: MPEG 2

Input Level: 0.6-1.5Vp-p

Input Impedance: 75ohm

Audio

Input Connector: RCA White and Red

Encode Format: MPEG1 Layer II

Input Level: 0.5-2.5Vp-p

Input Impedance: Min 10Kohm

Sample Rate: 48KHz

Bit Rate: 256kbps

Modulation

Standard: DVB-T comply with ETSI EN300 744

Constellation: 64QAM

Band width: 6/7/8 MHz optional

FEC: 7/8

Guard Interval: 1/32

MER: ≥35dB

FFT Mode: 8K

RF Output

Output level: ≥35dBmV

Output Frequency Range: 50-1000MHz, Step by 10KHz

SK- 860CH/BH (DVB-C/ATSC cable HD Encoder-modulator)

Video

Input Connector: HDMI 1.4

Encode Format: MPEG 2 MP@ML

Input Resolution: Max 1920*1080@60

Bit Rate: 2-19.5Mbps Self-adaption

Audio

Encode Format: MPEG1 Layer II

Sample Rate: 48KHz

Bit Rate: 384kbps

Modulation

Standard: ITU-T J.83A / J.83B

Constellation: 64QAM

Band width: 8MHz for DVB-C;6MHz for ATSC Cable

Symbol Rate: 6.875 MS/s

Guard Interval: 1/32

FEC: 7/8

MER: ≥40dB

FFT Mode: 8K

RF Output

Output level: ≥35dBmV

Output Frequency Range: 50-1000MHz, Step by 10KHz

Output Resolution: 1080P @30

SK- 860CA/BA (DVB-C/ATSC cable SD Encoder-modulator)

Video

Input Connector: RCA Yellow

Encode Format: MPEG 2

Input Level: 0.6-1.5Vp-p

Input Impedance: 75ohm

Audio

Input Connector: RCA White and Red

Encode Format: MPEG1 Layer II

Input Level: -10 ~ 10dBm

Input Impedance: Min 10K ohm

Sample Rate: 48 KHz

Bit Rate: 384kbps

Modulation

Standard: ITU-T J.83A / J.83B

Constellation: 64QAM

Band width: 8MHz for DVB-C;6MHz for ATSC Cable

Symbol Rate: 6.875 MS/s

FEC: 7/8

Guard Interval: 1/32

MER: ≥35dB

FFT Mode: 8K

RF Output

Output level: $\geq 35\text{dBmV}$

Output Frequency Range: 50-1000MHz, Step by 10KHz

SK- 860DH (DTMB HD Encoder-modulator)

Video

Input Connector: HDMI 1.4

Encode Format: MPEG 2

Input Resolution: Max 1920*1080@60

Bit Rate: 2-19.5Mbps Self-adaption

Audio

Input Connector: HDMI 1.4

Encode Format: MPEG1 Layer II

Sample Rate: 48 KHz

Bit Rate: 384kbps

Modulation

Standard: **Multi-carrier** / Single-carrier optional

Constellation: DTMB 64QAM

Band width: 6/7/8MHz optional

Interleaving: (**B=52,M=720**) /(B=52,M=240)optional

FEC: **0.4** /0.6/0.8 optional

Frame Header: **420**/945/595 optional

MER: $\geq 35\text{dB}$

RF Output

Output level: $\geq 35\text{dBmV}$

Output Frequency Range: 50-1000MHz, Step by 10KHz

Output Resolution: 1080P @30

SK- 860DA (DTMB SD Encoder-modulator)

Video

Input Connector: RCA Yellow

Encode Format: MPEG 2

Input Level: 0.6-1.5Vp-p

Input Impedance: 75ohm

Audio

Input Connector: RCA White and Red

Encode Format: MPEG1 Layer II

Input Level: -10 ~ 10dBm

Input Impedance: Min 10Kohm

Sample Rate: 48 KHz

Bit Rate: 384kbps

Modulation

Standard: **Multi-carrier** / Single-carrier optional

Constellation: DTMB 64QAM

Band width: 6/7/8MHz optional

Interleaving: (**B=52,M=720**) /(B=52,M=240)optional

FEC: **0.4** /0.6/0.8 optional

Frame Header: **420**/945/595 optional

MER: $\geq 35\text{dB}$

RF Output

Output level: $\geq 35\text{dBmV}$

Output Frequency Range: 50-1000MHz, Step by 10KHz

SK- 860AH (ATSC HD Encoder-modulator)

Video

Input Connector: HDMI 1.4

Encode Format: MPEG 2

Input Resolution: Max 1920*1080@60

Bit Rate: 2-19.5Mbps Self-adaption

Audio

Input Connector: HDMI 1.4

Encode Format: MPEG1 Layer II

Sample Rate: 48KHz

Bit Rate: 384kbps

Modulation

Standard: ATSC A/53

Constellation: 8VSB

Band width: 6MHz

Symbol Rate: 7 MS/s

FEC: 0.4 /0.6/**0.8** optional

MER: ≥35dB

RF Output

Output level: ≥35dBmV

Output Frequency Range: 50-1000MHz, Step by 10KHz

Output Resolution: 1080P @30

SK- 860AA (ATSC SD Encoder-modulator)

Video

Input Connector: RCA Yellow

Encode Format: MPEG 2

Input Return Loss : 30dB MIN

Input Level: 0.6-1.5Vp-p

Input Impedance: 75ohm

Audio

Input Connector: RCA White and Red

Encode Format: MPEG1 Layer II

Input Level: -10 ~ 10dBm

Input Impedance: Min 10Kohm

Sample Rate: 48KHz

Bit Rate: 384kbps

Modulation

Standard: ITU-T / J.83B

Constellation: 64QAM

Band width: 6MHz

Symbol Rate: 7 MS/s

FEC: 7/8

Guard Interval: 1/32

MER: ≥35dB

FFT Mode: 8K

RF Output

Output level: ≥35dBmV

Output Frequency Range: 50-1000MHz, Step by 10KHz

SK- 860 IH (ISDB HD Encoder-modulator)

Video

Input Connector: HDMI 1.4
Encode Format: MPEG 2

Input Resolution: Max 1920*1080@60
Bit Rate: 0.5~19.5Mbps Self-adaption

Audio

Input Connector: HDMI 1.4
Encode Format: MPEG1 Layer II

Sample Rate: 48 KHz
Bit Rate: 384kbps

Modulation

Standard: ARIB STD-B31
Constellation: 64QAM
Band width: 6MHz
Inner Encoder Rate: 1/2, 2/3, 3/4, 5/6, **7/8** optional

Guard Interval: 1/4, 1/8, 1/16, **1/32** optional
Interleaving Depth: 0/1/2/**3**
MER: ≥35dB

RF Output

Output level: ≥35dBmV
Output Frequency Range: 50-1000MHz, Step by 10KHz
Output Resolution: 1080P @30

SK- 860 IA (ISDB SD Encoder-modulator)

Video

Input Connector: RCA Yellow
Encode Format: MPEG 2
Input Return Loss : 30dB MIN

Input Level: 0.6-1.5Vp-p
Input Impedance: 75ohm

Audio

Input Connector: RCA White and Red
Encode Format: MPEG1 Layer II
Input Level: -10 ~ 10dBm

Input Impedance: Min 10Kohm
Sample Rate: 48KHz
Bit Rate: 384kbps

Modulation

Standard: ARIB STD-B31
Constellation: 64QAM
Band width: 6MHz
Inner Encoder Rate: 1/2, 2/3, 3/4, 5/6, **7/8** optional

Guard Interval: 1/4, 1/8, 1/16, **1/32** optional
Interleaving Depth: 0/1/2/**3**
MER: ≥35dB

RF Output

Output level: ≥35dBmV
Output Frequency Range: 50-1000MHz, Step by 10KHz

Power Input For All the Mode is DC 12V / 260mA

The parameters in BOLD are factory settings. Some are only be allowed to change by front panel control, but all can be changed by APP.

SK- 16D (Chassis with power supply and built-in active combiner)

Frequency range: 50-1000MHz

Isolation: $\geq 35\text{dB}$

Return Loss: $\geq 12\text{dB}$

Output Level: $\geq 40\text{dBmV}$

Gain: 12dB

Power: AC 100-240V 50/60Hz

Output Connector: 75 Ω F female






Consumption: 85W

DISCLAIMER

NOTE:

It is the installers / property owner / integrator's responsibility to contract with the service provider regarding content authorization and the use of HDCP.

3. CAUTION STATEMENTS

WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK DO NOT EXPOSE TO RAIN OR MOISTURE			A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
<div><div>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</div></div>			The lightning flash with arrow head symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.			The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.
WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT OPEN THE CABINET, REFER SERVICING TO QUALIFIED PERSONNEL ONLY.			
CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.			
ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES, NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.			

4. SAFETY INSTRUCTIONS

- ◆ Read Instructions—All the safety and operating Instructions should be read before the product is operated.
- ◆ Retain Instructions—The safety and operating instructions should be retained for future reference.
- ◆ Heed Warnings—All warnings on the product and in the operating instructions should be adhered to.
- ◆ Follow instructions - All operating and use instructions should be followed.
- ◆ Cleaning—Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleansers. Use a damp cloth for cleaning.
- ◆ Attachments—Do not use attachments that are not recommended by the product manufacturer as they may cause hazards.
- ◆ Water and Moisture—Do not use this product near water—for example, near a bathtub, wash bowl, kitchen sink or laundry tub; in a wet basement; or near a swimming pool; and the like.
- ◆ Accessories—Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- ◆ A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- ◆ Ventilation—Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The

openings should never be blocked by placing the product on a bed, sofa, rug, or similar surface. This product should not be placed in a built-in installation such as bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

- ◆ **Power Sources**—This product should be operated only from the type of power source indicated on the marking Label . If you are not sure of the type of power supplied in your device room/rack, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- ◆ **Power-Cord Protection**—Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- ◆ **Grounding or Polarization**—This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other) This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- ◆ **Alternate Warnings**—If this product is equipped with a three-wire grounding-type plug, a plug having a third(grounding) pin, the plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- ◆ **Object and Liquid Entry**—Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- ◆ **Outdoor Antenna Grounding**—If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.



- ◆ **Lightning**—For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug It from the wall outlet and disconnect the antenna or cable system. This will prevent damageto the product due to lightning and power-line surges.
- ◆ **Overloading**—Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- ◆ **Power Lines**—An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them may be fatal.
- ◆ **Servicing**—Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- ◆ **Damage Requiring Service**—Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power-supply cord or plug is damaged,
 - B. If liquid has been spilled, or objects have fallen into the product,

- C. If the product has been exposed to rain or water,
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - E. If the product has been dropped or damaged in anyway, and
 - F. When the product exhibits a distinct change in performance—this indicates a need for service.
- ◆ Replacement Parts—When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutes may result in fire, electric shock or other hazards.
 - ◆ Safety Check—Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
 - ◆ Desktop or Rackmount—The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
 - ◆ Heat—The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

5.Front Panel View

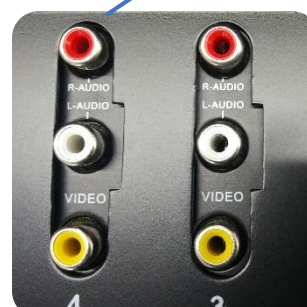


1. Black button: To hold the modulators staying in the chassis
2. LED 4 figures display
3. Control button: It's for selecting frequency.
 - ▲ Add
 - ▼ Reduce
- MENU** Enter and OK
- Notice:** Please press MENU to confirm after completing frequency setting
4. USB Jack for android mobile control
5. RF Level : Adjust the output level
6. Contact the manufacturer for the **second use** of control button

6.Rear Panel View



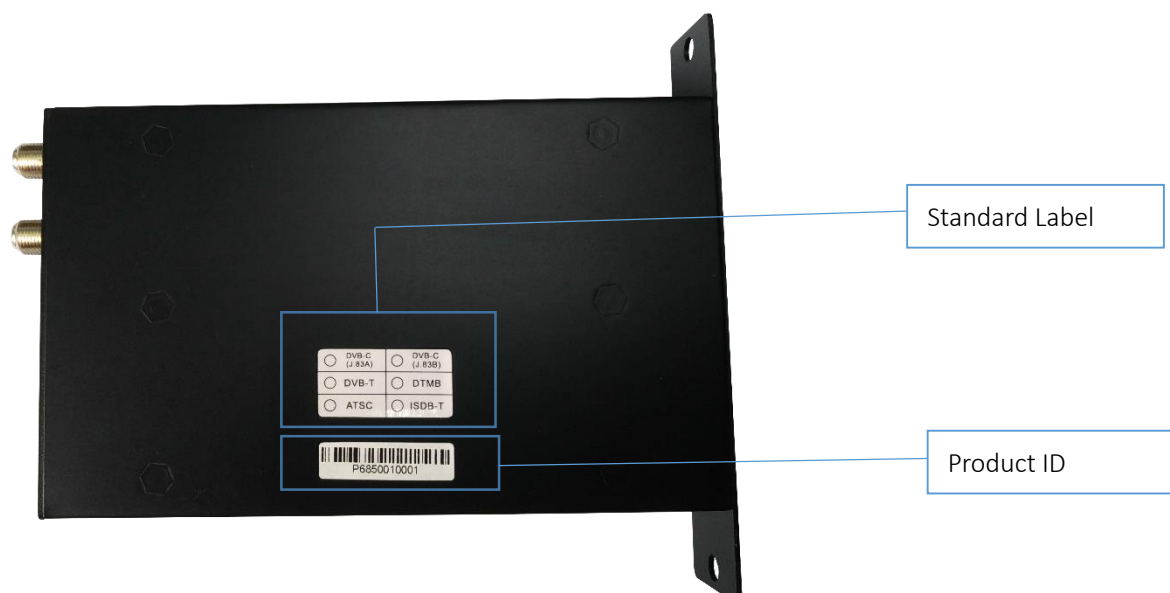
1. Test Point
2. Combiner RF Output
3. Combiner RF Adjustment
4. Power Cable and Fused Switch
5. GND
6. HDMI Input / RCA Input

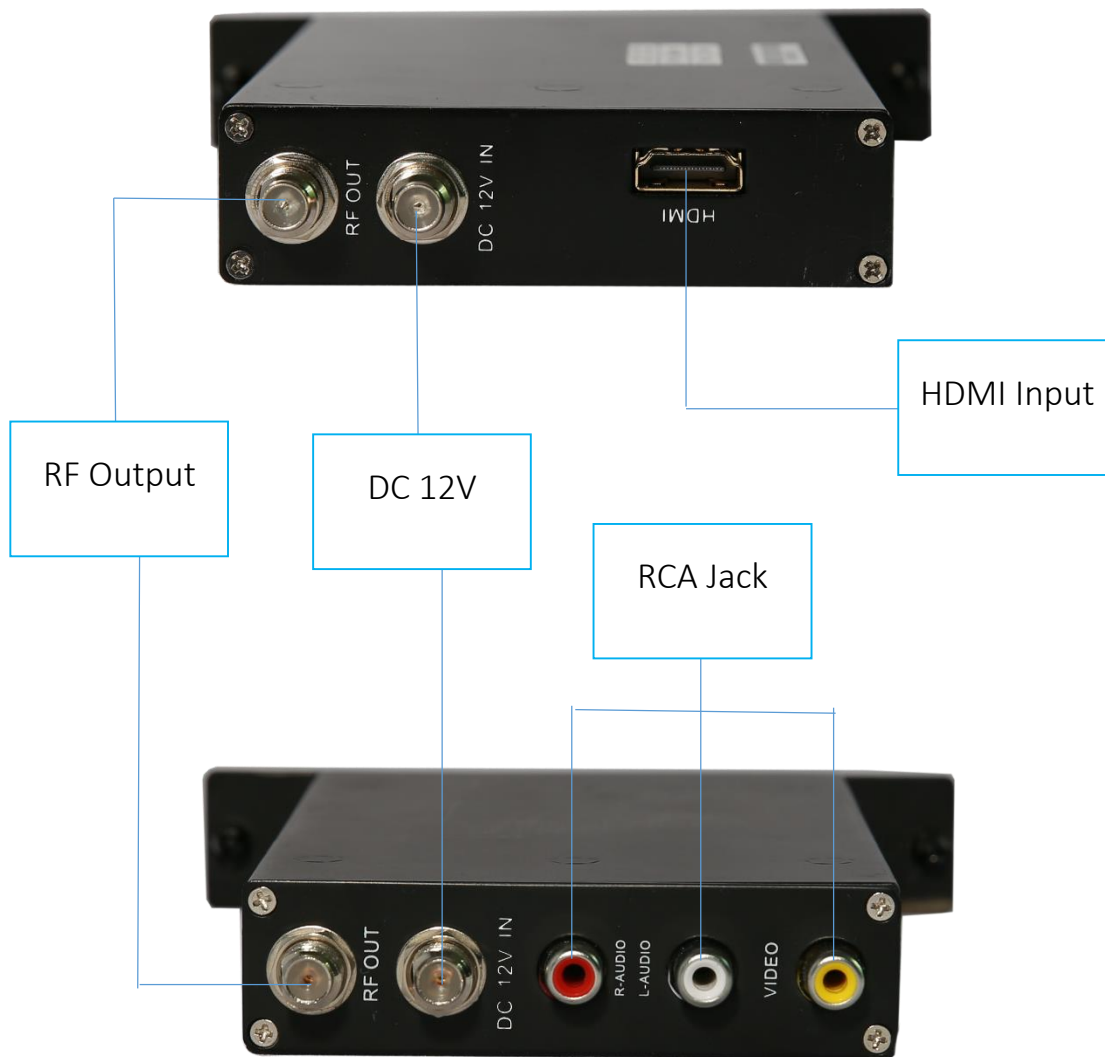


WARNING:

For the protection of your equipment and its proper working is necessary to Connect the SK-860XX to a ground connection

7.Encoder Modulator Side Panel View





8.Unpacking and Handing

A full set SK-860XX is shipped with all equipment assembled, wired, factory tested, and then packed in an appropriate shipping container. Ensure that all accessories are removed from the container and packing material before they are discarded.

9.Mechanical Inspection

Inspect the front and rear of the equipment for shipping damage. Make sure the equipment is clean, and no wire, cables, or connectors are broken, damaged or loose.

10.Damage in Shipment

Should any damage be discovered after unpacking the unit, immediately file a claim with the carrier. A full report of the damage shall be made and a copy forwarded to vendor.

11.Precautions

PRECAUTIONS	REQUIREMENTS
Avoid heat buildup	Allow rack space (1'')between powered headend product in the equipment
Ensure easy access to rack wiring	Allow a minimum of 18inches behind the equipment rack
Facilitate servicing and maintenance	Allow a minimum of 36'' of clearance in front of the equipment rack
Avoid direct heating or air conditioning	If unavoidable, use deflector plates
AC power source outlets	Locate equipment near sufficient outlets to provide power for test equipment and power tools
Rack support	Make certain rack supports are sufficiently rigid to support racks
Building leakage	Beware of dripping water onto equipment from leaky roofs, waveguide roof entries, and cold water pipe condensations

12.Quick Installation

This unit is specially designed as easy-to-go type. You might take three steps:

1. Connect the signal from the Satellite receiver to the SK-860XX (HDMI/ RCA)
2. Set each modulator at desired frequency.



- 2.1 The factory set frequency starts from 474, which shows as Fig10-1.
- 2.2 Press **MENU** to enter the changing mode. And the selected number will flash. Use ▲ to add and ▼ to reduce the number. Then press **MENU** to confirm that number and move to next position.
- 2.3 When you complete setting the frequency number, please press the **MENU** again to confirm. Then the LED will show as Fig11-2.
- 2.4 The Encoder-modulator will automatically save the frequency if you don't make any changes within 1 minute. *Even it's a wrong frequency.*
- 2.5 The first factory set frequency is 474.

WARNING: Do not set a wrong frequency or double a used frequency in a system. These will bring problems. [SEE **COMMON TROUBLESHOOTING**]

3. Reboot the machine and check the frequencies. Make sure there's no wrong frequency.

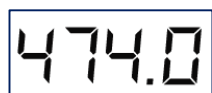


Fig11-1

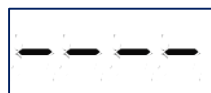


Fig11-2

Notice:

- ◆ Each modulators are well balanced in factory in RF level. So does the final output level .
- ◆ Never insert object of any kind into the modulator through openings or empty slots, as the objects may touch dangerous voltage and will void the warranty. Refer all servicing to authorized service personnel.

13. Common Troubleshooting

1. There are no picture and sound in TV, showing NO SIGNAL.

Tips: Check the frequency you set. See if one of the frequency is used.

Tips: The input level (before TV one) is too high. The desired one is 40-80dB μ V.

Tips: Wrong frequency setting. Please correct the frequency according to the frequency table.

Tips: Check the connectors or restore the STB.

2. All LED displays are dark and fans don't work.

Tips: Check the power plug and see it's loose or not

Tips: Unplug the power cord and check the fuse in the power socket.

Tips: If the last two steps don't work, it might be the power supply issue. Please call your vendor for help.

3. One of the modulators has no power feeding in, but fans work well.

Tips: Take out that modulator and plug in again.

Tips: If the last step doesn't work. You can take out that modulator and place into a slot that works well. If so, please correct the center pin for power in the combiner PCB.

Tips: If the last two steps don't work, it might be the modulator issue. Please call your vendor for help.

4. The picture is not stable, on and off.

Tips: The HDMI cord issue. Please use the HDMI cord with shield.

5. There is mosaic in the picture.

Tips: Please restore your STB and check the connectors in the TV and STB.

Tips: A wrong frequency channel will effect the adjacent channel to create mosaic.

Tips: The input level for STB is too low or too high. The perfect range is 35-85dB μ V.

6. Some channels are showing NO SIGNAL.

Tips: A wrong frequency and a repetitive frequency will cause adjacent channel NO SIGNAL issue.

7. There is no sound for all the channels

Tips: Check the Red and White connectors

Tips: See if you mute the STB or not

Tips: Some channels are mono one, please switch the sound track in TV : Stereo, Left and Right

8. There is sound but no picture in TV

Tips: The video cord is bad or bad connection.

Tips: The input connector in STB or TV is bad

9. The video and sound are out of sync.

Tips: Change a new STB. If this doesn't work, please call your vendor for help.

10. The video freeze in a sudden.

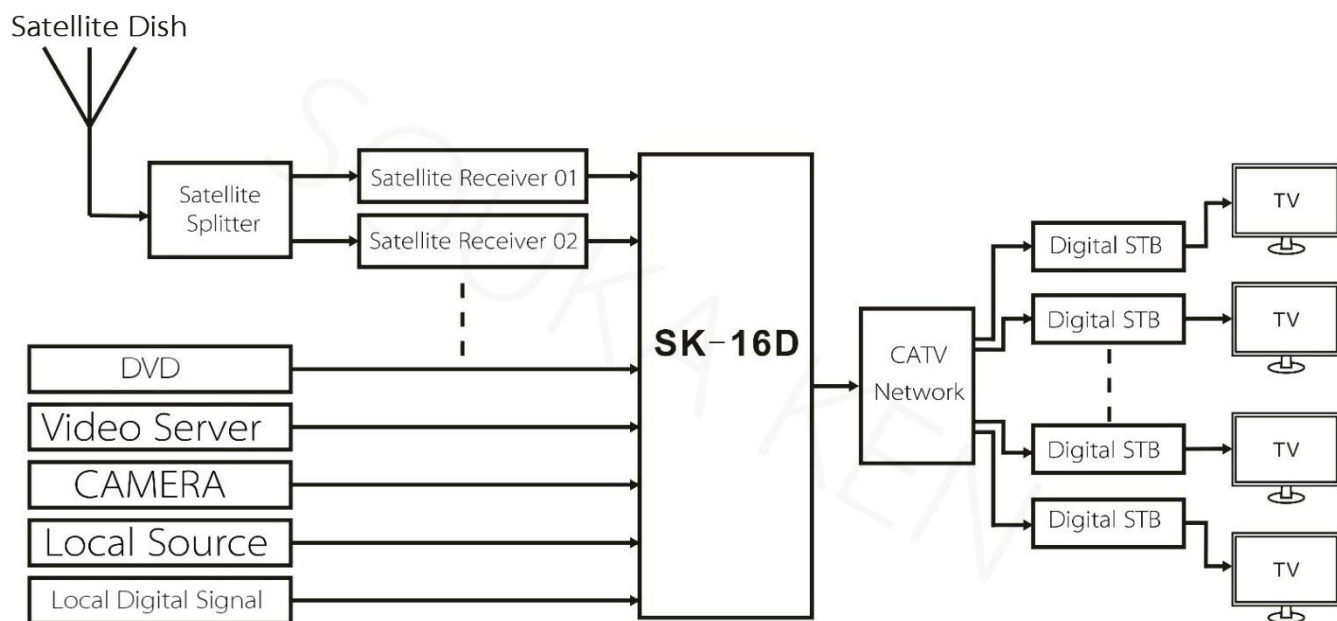
Tips: Restore your STB or change a new one.

11. There's a horizontal line and hum noise in TV.

Tips: This interference is from 50HZ current or your TV and STB is bad.

Most problems can be solved by referring to the **Troubleshooting** section in the User's Manual. If you cannot resolve the problem with the **Troubleshooting** chapter, please contact the dealer where you purchase this product.

14.Solution



15.Limited Warranty

Dingshengwei Electronics Co., Ltd. (DSW) will at its sole option, either repair or replace any products manufactured by DSW which proves to be defective in materials or workmanship or fails to meet the specifications which are in effect on the date of shipment or such other specifications as may have been expressly agreed upon in writing for a period of one year from the date of original purchase.

This warranty does not cover damage resulting from Use or installation other than in strict accordance with manufacturer's written instructions, Disassembly or repair by someone other than the manufacturer or a manufacturer-authorized repair center, misuse, misapplication or abuse, alteration, lack of reasonable care or wind, ice, snow, rain, lightning, or any other weather conditions or acts of God.

Factory reconditioned or refurbished product warranty maybe of shorter duration as specified.

To obtain service under this warranty, the defective product, together with a copy of the sales receipt or other satisfactory proof of purchase and a brief description of the defect, must be shipped freight prepaid to Dingshengwei Electronics Co., Ltd

Address: Bldg A, the first industry park of Guanlong, Xili Town, Nanshan, Shenzhen, Guangdong, China.

A Return Material Authorization (RMA) Number is required on all products returned to DSW. Regardless if the product is being returned for repair or credit. Before returning product, please contact the DSW sale who you contact with.

Buyer :		RMA Number:
Mode Number	Products ID Number	Problem

If there's not enough space in this form, please attach a separate sheet of paper.

16.Frequency Table

ATSC AIR Channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
2	57	25	539	48	677
3	63	26	545	49	683
4	69	27	551	50	689
5	79	28	557	51	695
6	85	29	563	52	701
7	177	30	569	53	707
8	183	31	575	54	713
9	189	32	581	55	719
10	195	33	587	56	725
11	201	34	593	57	731
12	207	35	599	58	737
13	213	36	605	59	743
14	473	37	611	60	749
15	479	38	617	61	755
16	485	39	623	62	761
17	491	40	629	63	767
18	497	41	635	64	773
19	503	42	641	65	779
20	509	43	647	66	785
21	515	44	653	67	791
22	521	45	659	68	797
23	527	46	665	69	803
24	533	47	671		

ATSC Cable Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	75	31	267	61	447	91	627	121	777
2	57	32	273	62	453	92	633	122	783
3	63	33	279	63	459	93	639	123	789
4	69	34	285	64	465	94	645	124	795
5	79	35	291	65	471	95	93	125	801
6	85	36	297	66	477	96	99	126	807
7	177	37	303	67	483	97	105	127	813
8	183	38	309	68	489	98	111	128	819
9	189	39	315	69	495	99	117	129	825
10	195	40	321	70	501	100	651	130	831
11	201	41	327	71	507	101	657	131	837
12	207	42	333	72	513	102	663	132	843
13	213	43	339	73	519	103	669	133	849
14	123	44	345	74	525	104	675	134	855
15	129	45	351	75	531	105	681	135	861
16	135	46	357	76	537	106	687		
17	141	47	363	77	543	107	693		
18	147	48	369	78	549	108	699		
19	153	49	375	79	555	109	705		
20	159	50	381	80	561	110	711		
21	165	51	387	81	567	111	717		
22	171	52	393	82	573	112	723		
23	219	53	399	83	579	113	729		
24	225	54	405	84	585	114	735		
25	231	55	411	85	591	115	741		
26	237	56	417	86	597	116	747		
27	243	57	423	87	603	117	753		
28	249	58	429	88	609	118	759		
29	255	59	435	89	615	119	765		
30	261	60	441	90	621	120	771		

DVB-T 8MHz

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
5	177.5	27	522	41	634	55	746	69	858
6	184.5	28	530	42	642	56	754	70	866
7	191.5	29	538	43	650	57	762		
8	198.5	30	546	44	658	58	770		
9	205.5	31	554	45	666	59	778		
10	212.5	32	562	46	674	60	786		
11	219.5	33	570	47	682	61	794		
12	226.5	34	578	48	690	62	802		
21	474	35	586	49	698	63	810		
22	482	36	594	50	706	64	818		
23	490	37	602	51	714	65	826		
24	498	38	610	52	722	66	834		
25	506	39	618	53	730	67	842		
26	514	40	626	54	738	68	850		

DVB-T 7MHz Australia

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
6	177.5	27	522.5	40	613.5	54	711.5	68	809.5
7	184.5	27A	527.5	41	620.5	55	718.5	69	816.5
8	191.5	28	529.5	42	627.5	56	725.5	70	823.5
9	198.5	29	536.5	43	634.5	57	732.5	71	830.5
9A	205.5	30	543.5	44	641.5	58	739.5	72	837.5
10	212.5	31	550.5	45	648.5	59	746.5	73	844.5
11	219.5	32	557.5	46	655.5	60	753.5	74	851.5
12	226.5	33	564.5	47	662.5	61	760.5	75	858.5
21	480.5	34	571.5	48	669.5	62	767.5		
22	487.5	35	578.5	49	676.5	63	774.5		
23	495.5	36	585.5	50	683.5	64	781.5		
24	503.5	37	592.5	51	690.5	65	788.5		
25	511.5	38	599.5	52	697.5	66	795.5		
26	519.5	39	606.5	53	704.5	67	802.5		

DVB-T 6MHz Taiwan/Cuba

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	177	24	533	41	635	58	737
8	183	25	539	42	641	59	743
9	189	26	545	43	647	60	749
10	195	27	551	44	653	61	755
11	201	28	557	45	659	62	761
12	207	29	563	46	665	63	767
13	213	30	569	47	671	64	773
14	473	31	575	48	677	65	779
15	479	32	581	49	683	66	785
16	485	33	587	50	689	67	791
17	491	34	593	51	695	68	797
18	497	35	599	52	701	69	803
19	503	36	605	53	707		
20	509	37	611	54	713		
21	515	38	617	55	719		
22	521	39	623	56	725		
23	527	40	629	57	731		

ISDB-T 6MHz Brail Air Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	177	24	533	41	635	58	737
8	183	25	539	42	641	59	743
9	189	26	545	43	647	60	749
10	195	27	551	44	653	61	755
11	201	28	557	45	659	62	761
12	207	29	563	46	665	63	767
13	213	30	569	47	671	64	773
14	473	31	575	48	677	65	779
15	479	32	581	49	683	66	785
16	485	33	587	50	689	67	791
17	491	34	593	51	695	68	797
18	497	35	599	52	701	69	803
19	503	36	605	53	707		
20	509	37	611	54	713		
21	515	38	617	55	719		
22	521	39	623	56	725		
23	527	40	629	57	731		

DTMB

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	52.5	21	474	38	610	55	746
8	60.5	22	482	39	618	56	754
9	68.5	23	490	40	626	57	762
10	80	24	498	41	634	58	770
11	88	25	506	42	642	59	778
12	171	26	514	43	650	60	786
13	179	27	522	44	658	61	794
		28	530	45	666	62	802
		29	538	46	674	63	810
		30	546	47	682	64	818
		31	554	48	690	65	826
		32	562	49	698	66	834
		33	570	50	706	67	842
		34	578	51	714	68	850
		35	586	52	722	69	858
		36	594	53	730		
		37	602	54	738		

This User Manual is written by Ken and owned by SOUKA.

**Address: Bldg A, the first industry park of Guanlong, Xili Town, Nanshan, Shenzhen,
Guangdong, China**

Websit: <http://www.soukacatv.com>

Email: ken@soukacatv.com soukaken@gmail.com

MP/Whatsapp/Wechat: +86 13410066011

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