

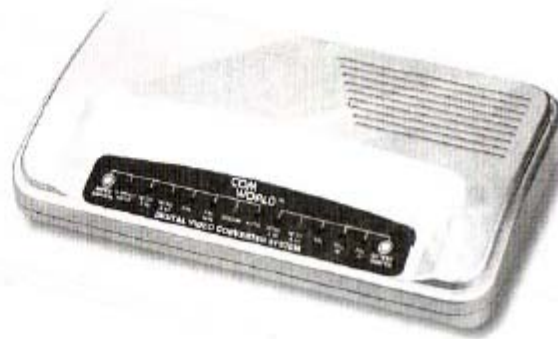
# KDV 500

## Digital Video Converter System

### Operation Manual

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## PRECAUTIONS

- ▶ Be sure to make the power of the unit off before installation.
- ▶ Do not open the cover of the unit optionally.
- ▶ Put the unit in an open space that has a good ventilation.
- ▶ Keep the unit away from radiator heat sources and magnetic field.
- ▶ Be careful on use as strong vibration or shock becomes the reason for the trouble of the product.
- ▶ Be careful for an electric conductor not to be fallen into the draft hole.
- ▶ Do not install at the place with a strong magnet or electric wave.
- ▶ This unit is designed to be operated by DC 5V.  
Be sure to use attached Adapter.

## TECHNOLOGY OUTLINE

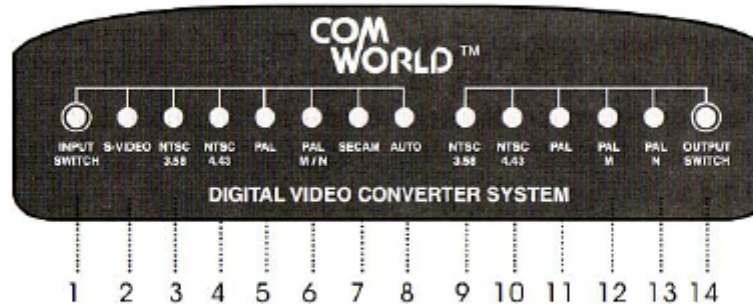
This unit is a device of inputing TV Field Signal (NTSC 3.58 , NTSC 4.43 , SECAM , PAL) and then converting and outputing to PAL or NTSC TV Field Signal.

## FEATURES

- ▶ Converting any NTSC, PAL, or SECAM video inputs to NTSC or PAL video outputs
- ▶ Full digital processing with 12Mbits video field memory
- ▶ Automatic detecting input signal and converting into output by button selection
- ▶ Crisp and clear converted pictures with S-VHS signal input / output
- ▶ Built in automatic gain control (A.G.C) function ensures 1 Vp-p output signal and allows adjustment of video output signal to optimize the picture quality
- ▶ Built in Time Base Correction (TBC) function for signal synchronization
- ▶ Auto-off By-pass
- ▶ Flickering lamp LED when no field input is coming
- ▶ Free voltage switching power adapter (85~265V) for DC5V and 1.5A
- ▶ Stand-alone and stylish compact design excellent for portable application

## OPERATION CONTROLS AND FUNCTIONS

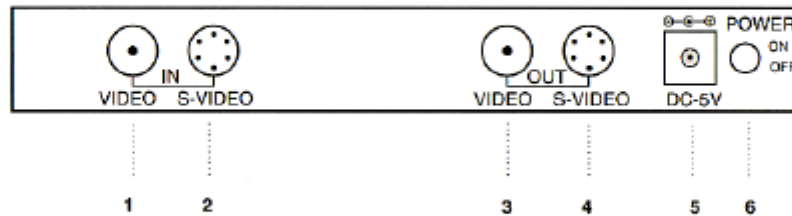
### NAME OF FRONT PANEL AND OPERATING METHOD



- 1. INPUT SYSTEM SELECT SWITCH**  
The user can select the input source (S-VIDEO, NTSC3.58, NTSC4.43, PAL, PAL M, PAL N, SECAM, AUTO) whenever the switch is pushed.
- 2. S-VIDEO INPUT SIGNAL INDICATOR**  
The indicator will light when the input signal is S-VIDEO.
- 3. NTSC3.58 INPUT SIGNAL INDICATOR**  
The indicator will light when the input signal is NTSC3.58.
- 4. NTSC4.43 INPUT SIGNAL INDICATOR**  
The indicator will light when the input signal is NTSC4.43.
- 5. PAL INPUT SIGNAL INDICATOR**  
The indicator will light when the input signal is PAL.
- 6. PAL M/N INPUT SIGNAL INDICATOR**  
The red indicator will light when input signal is PAL M.  
The green indicator will light when input signal is PAL N.
- 7. SECAM INPUT SIGNAL INDICATOR**  
The indicator will light when the input signal is SECAM.
- 8. AUTO INPUT SIGNAL INDICATOR**  
Set the Input Switch to automatic mode, by pressing the input button until the red AUTO indicator lights. Or select the input manually by pressing the input Switch until the desired input system indicator lights.
- 9. NTSC3.58 OUTPUT SIGNAL INDICATOR**  
The indicator will light when output signal is NTSC3.58.
- 10. NTSC4.43 OUTPUT SIGNAL INDICATOR**  
The indicator will light when output signal is NTSC4.43.
- 11. PAL OUTPUT SIGNAL INDICATOR**  
The indicator will light when output signal is PAL.
- 12. PAL M OUTPUT SIGNAL INDICATOR**  
The red indicator will light when output signal is PAL M.
- 13. PAL N OUTPUT SIGNAL INDICATOR**  
The green indicator will light when output signal is PAL N.
- 14. OUTPUT SYSTEM SELECT SWITCH**  
The user can select the output source (NTSC3.58, NTSC4.43, PAL, PAL M, PAL N.) whenever the switch is pushed.

## OPERATION CONTROLS AND FUNCTIONS

### NAME OF REAR PANEL AND EXPLANATION

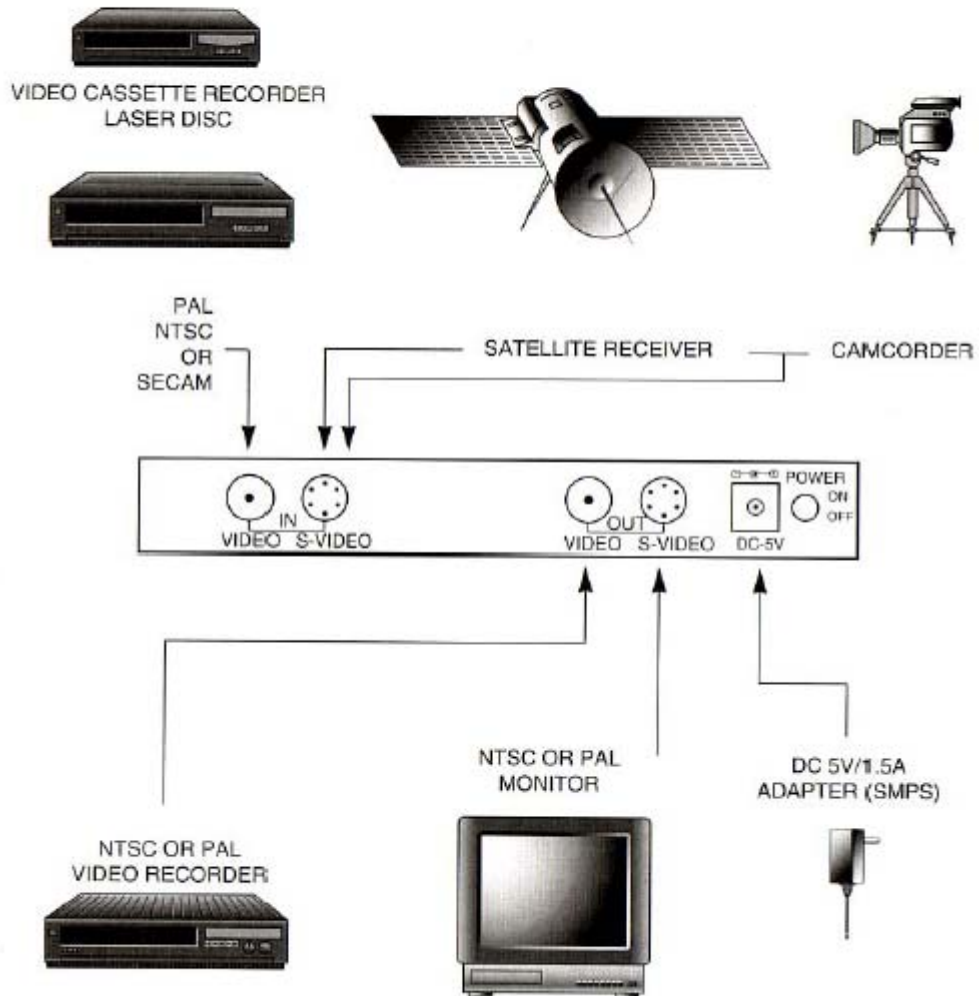


1. VIDEO INPUT (NTSC 3.58, NTSC 4.43, PAL, SECAM)
2. S-VIDEO INPUT (NTSC 3.58, NTSC 4.43, PAL, SECAM)
3. RCA JACK-VIDEO OUT
4. S-VIDEO OUTPUT
5. DC POWER SUPPLY 5V INPUT  
Connect with the DC 5V Adapter enclosed surely.
6. POWER ON/OFF SWITCH (TOGGLE SWITCH)

## SPECIFICATIONS

<b>INPUT</b> TV SYSTEMS → S-VIDEO(Y) → 1.0 Vpp S-VIDEO(C) → 0.62 Vpp COMPOSITE TV SIGNAL → 1.0 Vpp	NTSC → (525 Line, 60 Fields/SEC) NTSC 4.43 → (525 Line, 60 Fields/SEC) PAL → (625 Line, 50 Fields/SEC) SECAM → (625 Line, 50 Fields/SEC)
<b>OUTPUT</b> TV SYSTEMS → S-VIDEO(Y) → 1.0 Vpp S-VIDEO(C) → 0.62 Vpp COMPOSITE TV SIGNAL → 1.0 Vpp	NTSC → (525 Line, 60 Fields/SEC) PAL → (625 Line, 50 Fields/SEC) NTSC 4.43 → (525 Line, 60 Fields/SEC)
<b>LINE CONVERSION</b>	NTSC → PAL CONVERSION (525→625 Line) SECAM → PAL CONVERSION (625→625 Line) SECAM, PAL → NTSC CONVERSION (625→525 Line)
<b>FIELD CONVERSION</b>	NTSC → PAL CONVERSION (60→50 Field) SECAM → PAL CONVERSION (50→50 Field) SECAM, PAL → NTSC CONVERSION (50→60 Field)
<b>INPUT TV CONNECTION</b>	COMPOSITE VIDEO INPUT S-VIDEO INPUT
<b>OUTPUT TV CONNECTION</b>	COMPOSITE VIDEO OUTPUT S-VIDEO OUTPUT
<b>POWER SUPPLY</b>	DC 5V / 1.5A AC (85V~265V) FREE VOLTAGE (SMPS)
<b>POWER CONSUMPTION</b>	4W
<b>DIMENSIONS</b>	230mm(W) × 130mm(D) × 20mm(L) 40mm(H)
<b>WEIGHT</b>	380g
<b>ACCESSORY</b>	DC 5V ADAPTER 1PC / DIN CABLE 2PCS RCA CABLE 2PCS

# CONNECTION AND INSTALLATION



## TV SYSTEMS BY COUNTRIES

### NTSC COUNTRIES

Canada  
Chile  
Japan  
Korea  
Mexico  
Philippines  
Taiwan  
U.S.A  
Venezuela

### PAL COUNTRIES

Argentina (PALN)  
Australia  
Belgium  
Brazil (PALM)  
China  
Denmark  
Finland  
Germany  
India  
Indonesia  
Israel  
Italy  
Netherlands  
North Korea  
Norway  
Portugal  
Singapore  
Spain  
Sweden  
Switzerland  
Thailand  
UK  
Uruguay (PALN)

### SECAM COUNTRIES

France  
Hungary  
Russia  
Saudi Arabia  
Ukraine