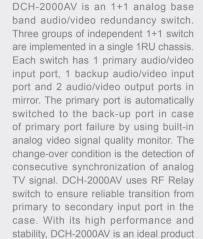




Digital TV Equipment and System

DCH-2000AV

Audio/Video 1+1 Redundancy Switch

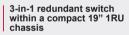


for broadcast system redundancy.



Main Feature

- 3 groups of 1+1 redundancy switch in compact 19"1RU chassis
- Support NTSC, PAL and SECAM standards
- · Automatic or manual switching mode selection
- · User-configurable automatic switch back to primary
- Remote Control and Supervision by HTTP



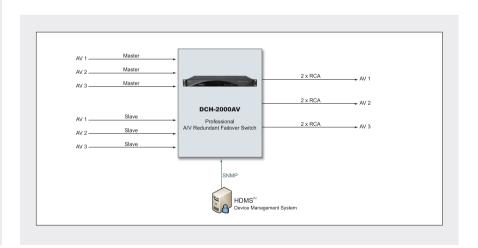


LED alarm on front panel



Remote Control and Supervision by HTTP WEB





Digital TV Equipment and System





Specification

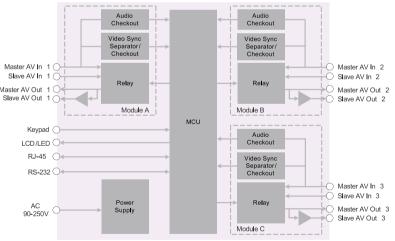
Analog Video	
Number of input	1 Primary input and 1 Backup input for each of the 3 Groups of 1+1 Switch
Number of output	2 Outputs in mirror for each of the 3 Groups of 1+1 Switch
Connector type	RCA female, 75Ω
Video Standard	NTSC or PAL, or SECAM
White level amplitude	±3mVpp
Horizontally sync. amplitude	±2mVpp
K-factor	0.1%
Differential gain	0.1%
Differential phase	0.05°
Chroma-Luma Gain	1.5%
Chroma-Luma Delay	±13ns
Nonlinear Luminance	0.2%
Horizontal Sync Edge Jitter	±1.5p-p
Frequency Response	$0.5 MHz \sim 4.8 MHz$, $\pm 0.4 dB$; $5.5 MHz$, $\pm 1/-2 dB$
Analog Audio	
Number of input	1 pair primary inputs and 1 pair backup input for each of the 3 Groups of 1+1 Switch
Number of output	2 Outputs in mirror for each of the 3 Groups of 1+1 Switch
Connector type	RCA female, Stereo L/ R
Output Impedance	600Ω (balanced)
Total Harmonic Distortion	60Hz -10kHz, 0.02%

Frequency Response	Left: 40Hz -15Hz, ±0.5dB
	Right: 40Hz -15kHz, ±0.5dB
Amplitude	1kHz, 0dB, ±0.5dB
Audio/Video Switching	
Switching Mode	Auto/Manual
Switching Condition	Video signal loss, Video loss of Sync by 3 times in 1 sec, or Audio mute period longer than user's setting
Switching Time	< 300 ms
Power Failure Switching	Mechanical by pass through relay when power failure
Control & Monitoring	
Connector Type	1×RJ-45, 10/100 Base-T, for equipment IP Control
Remote Control	HTTP Web
Local Control	LCD display and 6-key keypad
Serial Port	1×RS-232 9-pin D-sub, for debug use only
Equipment Upgrade	Built-in FTP server + Telnet
Physical	
Dimension	483mm×220mm×44mm
Weight	3Kg Net, 4Kg Gross
Power Supply	AC 90V ~ 250V, 50/60Hz
Power Consumption	12W
Operating temperature	0~45°C
Storage temperature	-10~60°C
Operating Humidity	10~90%, non-condensed

^{*} Note: Video parameters are measured using standard test signal (PAL D, 1Vpp, S/N=60dB). Audio parameters are measured using standard test signal (Mono, 0dBu, S/N=85dB).

Block Diagram

DCH-2000AV Functional Block Diagram



Back panel Interface

