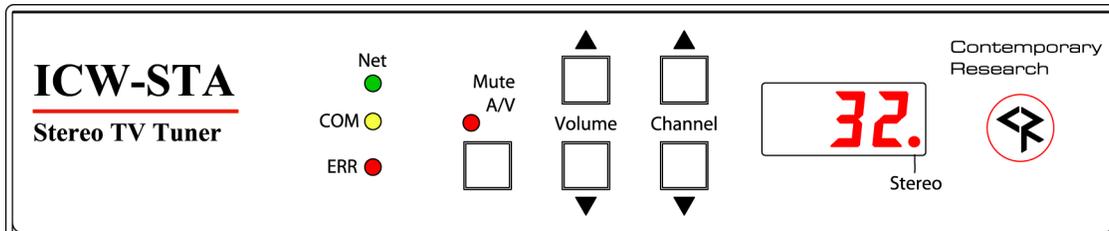


ICW-STA

Stereo TV Tuner 2-Way Cat5 Control



The Contemporary Research ICW-STA is a versatile iCW-Net controlled TV tuner featuring optional on-screen text, stereo audio, 125 channel access, front-panel operation and feedback, and intelligent control. Fully programmable, the unit can restore all settings on power-up from non-volatile memory. The unit can restore all settings on power-up from non-volatile memory. A list of channels can be stored in memory, used to provide convenient channel up/down operation and restrict direct access to other channels.

An optional onboard character generator provides on-screen text for channel names, interactive menus, and system feedback. Switchable inputs for NTSC video and stereo audio are included for display of PC graphics, a character generator information channel, camera or other A/V sources.

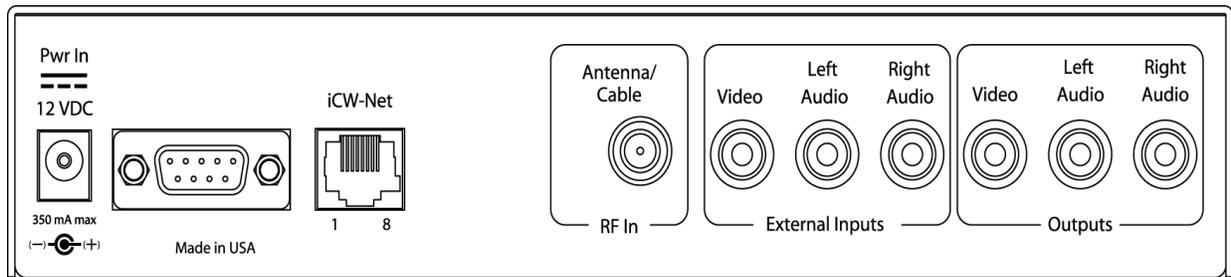
High-speed 2-way control and feedback is carried over a wired twisted-pair network using Category 5 or Category 3 wiring and connectors. Compatible with the Contemporary Research **ABC Media Retrieval System** and **iC Commander** software, the ICW-VDC can be networked with up to 4000 TV and Video Display controllers. For custom systems applications, all ICW-VDC units and other CR devices can be accessed from a single RS-232 port on an ICC-HE or ICW-HE Head-End Network Controller.

Applications include TV channel origination for educational television systems, theme parks, museums, government facilities, arenas, convention centers, airports and corporate video networks.

Features

- ▽ Tunes up to 125 CATV HRC/IRC or broadcast channels
- ▽ Delivers stereo audio with programmable volume, bass, and treble levels, as well as stereo, mono and SAP audio modes
- ▽ Stores programmable tuning ring in memory for simplified channel up/down access
- ▽ Networks with up to 4,000 TVs through an ICC-HE or ICW-HE Head-End Network Controller
 - 2-way commands and response carried over Category 3 or 5 wiring
 - Units instantly respond to individual, zone, and all-call commands
- ▽ Displays on-screen channel labels, interactive text menus, and system feedback with onboard character generator
- ▽ Provides front-panel control for power, volume, and channel and LED feedback for power and iC-Net operation
- ▽ Includes stereo A/V inputs to display video from PCs, overheads, cameras and other video sources
- ▽ Restores all operation status after loss of power from data stored in non-volatile memory
- ▽ Enables and disables front-panel control via iC-Net protocol
- ▽ Mounts free-standing or in 19" equipment rack with optional mounting brackets

ICW-STA Specifications



Physical

Size: 8.5" [216mm] wide x 1.75" [38mm] height (1RU) x 6.0" [153mm] deep
Weight: 1.5 lbs [0.68kg]
Enclosure: All aluminum with durable black powder coat paint
Mounting: Surface mounting with optional RK2 mounting kit

Front Panel

Push Buttons: Channel up and down, Volume up and down, and Power
Power LED: Red LED lights when unit is on
Net LED: Green LED for iCW-Net bus, flashes once per second if active
COM LED: Yellow LED stays on, flashes when receiving IR data from optional IR-RXC
ERR LED: Red LED indicates a problem within the VDC
Channel/Mode: 3 digit, 7 segment red LED status display

Rear Panel

Power In: 2.1mm coaxial jack (inside center conductor positive), 350 mA maximum
11.5 to 16.5 VDC, 12 VDC typical (may be unregulated)
RS-232 Control: Not used in this model
iCW-Net: RJ-45 input for iCW-Net connection
RS-485 type data with at least 2 twisted wire pairs with shield or fifth conductor
CAT3/CAT5 compatible unshielded, max 3000 feet [914m] from iC Head End
Antenna/Cable: 'F', female, 75 ohm impedance
External Inputs: Video - RCA female jack, NTSC composite
Audio - 2 RCA female jacks, unbalanced stereo, 20K ohms impedance
A/V Outputs: Video - RCA female jack, NTSC composite
Audio - 2 RCA female jacks, unbalanced stereo, 1K ohms impedance
Audio Response: BTSC Stereo Total Harmonic Distortion (THD): 1% maximum, 0.3% typical
BTSC Stereo Channel Separation: 25dB minimum, 30dB typical
BTSC Stereo Response: 50Hz to 12KHz
Mono Total Harmonic Distortion (THD): 0.5% maximum, 0.1% typical
Mono mode frequency response: 20Hz to 20KHz
500mV RMS typical output level (at max volume)
Volume control 0 to -70 dB and mute in 64 steps

RF Tuner

Frequency Range: NTSC television 55.25 to 801.25 MHz, 62.5KHZ fine tune resolution
Maximum Input: +20dBmV
Video Gain: $\pm 5\%$ maximum, 2% typical
Video Phase: ± 3 degrees maximum, 2 degrees typical

Internal Character Generator

Characters: ASCII
Format: White text over video or white text with black background over video
Function: Channel labels, interactive menus, messages, and system feedback

Includes

12 VDC power supply, 400 mA, UL/CSA listed (North American shipments only)

Optional Accessories

RK1 Kit for rack-mounting one STA
RK2 Kit for rack-mounting two units side-by-side
IC-RC Wireless IR Remote
IR-RXC External IR Receiver, required for receiving IC-RC commands