

Applications

Corporate Offices
Education Campuses
Sports Venues
Worship Spaces
Entertainment Facilities



Contemporary Research display control installations include:

Sports Facilities

AT&T Center - Spurs
Hershey Center
Jacksonville Arena
Louisiana Superdome
Seattle Mariners
Wachovia Center - 76ers

Corporations

Home Depot
Lockheed Martin
Mercedes Benz

Worship Facilities

Willow Creek Church
Criswell Center
Severens Baptist Church

Entertainment

Casino Del Sol, Tucson AZ
Delta Downs Casino
Margaritaville, Las Vegas

Colleges

John Paul Jones Arena - UVA
Wake Forest University

- Web-driven control of flat-panel displays, video projectors, and TVs
- Easy wiring - integrate over existing RF coax cable
- Easy setup - simple Web forms define control commands and schedules, no custom programming or trained staff required
- Easy access - link to Web pages from any PC and browser
- Easy installation and scalability - attach low-cost controller to display, connect at any point in the RF system

What do stadiums, arenas, casinos, entertainment venues, as well as civic, church and corporate video systems around the country share in common? The sites have many displays, TVs, and video projectors already connected together over the RF coax cable system. To create an integrated display control system, you could run new Ethernet or control wires to all the sets, but that's an expensive option. With Display Express, you have all the benefits of Web-driven Ethernet control, while using the control wire that's already there - the existing RF cable.

System Components

Display Express

- Operates on user Windows Win 7 Pro/XP Pro PC, Windows 2003 Server, or rack-mount Display Express PC
- Serves display control Web pages to facility LAN
 - **Display** pages automatically create Web buttons for commands
 - **Schedule** pages launch presets by date, time, and cycle
 - **Alert** pages create buttons for video paging and alerts
- Web Control Panels can be created assigned to users
 - **Preset** pages trigger Presets from interactive buttons
 - **TV Control** select TVs and change channels, volume, and power
- Sends commands to through-the-RF Head End

Through-the-RF Head Ends

- Receives commands from Display Express PC
- Combines "control channel" with other TV channels to displays

Display Controllers

- Receives control channel, manages display accordingly
- Display Controllers integrate flat-panel displays and TVs that have built-in



Display Express Systems

Software



Display Express Software



Rack-Mount PC



Through-the-RF Head End

Feature	Display Express Software or PC
Software	Serves Web pages for system setup, control, and scheduling Installed in site PC, Windows XP Pro, Win 7 Pro, 2003 Server, or Display Express PC
Display Express PC	Rack-mount Windows 7 Pro PC with pre-installed Display Express software
Physical	19" W x 1.7" H (1RU) x 14" D, 10 lbs
Software	Windows 7 Pro, Display Express control/scheduling software
Drives	80 GB HDD IDE
Processing	Intel Celeron D 346, 512 MB DDR SRAM 2 USB 2.0 Ports, PS2 keyboard and mouse ports, VGA output RJ-45 10/100 Mbps Ethernet port, RS-232
Includes	RS-232 cable for ICE-HE Head End, USB/RS-232 adapter

Through-the-RF Head End

Feature	ICE-HE Ethernet Head End
Control	RJ-45 Ethernet, RS-232 data inputs Use with Server-based applications or PC located remotely from Head End unit
General	Communicates with SignStream control software Sends control commands through RF to iC-Net controllers Sends control data via RF, 74.7 MHz, narrow-band signal between channels 4 and 5 Receives status data at 5.6MHz, below sub-channels from 2-way iC-Net controllers
Physical	19" W x 1.75" H (1RU) x 9" D, 3 lbs
Includes	Rack mounting hardware 12 VDC Power Supply, 500 mA

Display Controllers



ICC1-232 TV Controller



ICC1-IR TV Controller



HDTV Display Controller

Feature	ICC1-IR	ICC1-232	ICC2-ATSC+
Type	IR TV Control	RS-232 TV Control	RS-232 Display Controller Onboard ATSC Tuner
Control	Discrete IR control Power, Channels, Inputs	RS-232 commands Power, Channels, In-puts, Control Lockout	RS-232 to Display Power, Channels, Inputs Control Lockout
Physical	5.5" W x 1.1" H x 3.4" D 8 oz	5.5" W x 1.1" H x 3.4" D 8 oz	8.5" W x 2.0" H x 8.0" D 2 lbs
Tuning	By Display	By Display	ATSC, NTSC, QAM
Outputs			HDMI, RGB/YpPr, NTSC Video HDMI, Coax, Optical, Stereo Audio All outputs Simultaneous
Includes	IR Emitter Mounting hardware RF Loop Cable 12 VDC PS, 100 mA	RS-232 cable optional Mounting hardware RF Loop Cable 12 VDC PS, 100 mA	RS-232 Cable Optional 12 VDC PS, 1.5 A

All CR products feature a full two-year warranty.