

# AUDIO VIDEO DISTRIBUTION

→ Intercom

## C2N-IIF Intercom Interface



As part of a complete Crestron Home® AV distribution system, the C2N-IIF provides an extremely flexible intercom interface solution for door station and entry gate applications. Its powerful amplifier and microphone preamp deliver high-quality 2-way (half-duplex) voice communication employing an electret condenser microphone and weather-resistant speaker (sold separately, available as part of optional C2N-IIF-SPMK kit). A door camera can also be connected to support full video intercom functionality. Extensive logic inputs and outputs are provided to accommodate a range of access control devices including push-to-call (doorbell) buttons, floor sensors, driveway sensors, keyless entry keypads, door strikes, motorized doors, gates, and more.

For a simple yet elegant door station solution, the C2N-IIF is designed to mate directly with Holovision®\*\* brass plates including camera and keyless entry versions using the C2N-IIF-SPMK kit. It is equally well suited to accommodate complete custom or retrofit applications. The C2N-IIF is designed to be installed in a weatherproof housing or back box at the door station or gate location, and will tolerate temperatures from -22 to 140 degrees F (-30 to 60° C).

The C2N-IIF is designed for use with Crestron's Intercom Distribution Switchers and other CAT5 AV distribution products. Audio, video, and control signals are carried to the head end by a single Cresnet cable and two CAT5E cables (available as CresCAT™D, sold separately).\*\*

Additional features include built-in WAV sound file capability to enable customized door chime and voice prompts at the door station speaker. Volume, bass, and treble are individually adjustable for the intercom and WAV files signals.

## SPECIFICATIONS

### Connectors

**AUDIO:** (1) 8-pin RJ45 female, shielded  
Bidirectional CAT5 balanced audio port  
Maximum input level: 4 Vrms  
Output level: 1 Vrms nominal  
Connects to feed to/from head end C2N-IADS30X24, CNX-BIPAD8, or IN port of CNX-PBAR4\*\*

**VIDEO:** (1) 8-pin RJ45 female, shielded  
CAT5 balanced video output port (composite only)  
Impedance: 100 ohms  
Output level: 1Vp-p  
Maximum CAT5 distance: 500 feet  
Connects to feed to head end C2N-IVDS24X24 or CNX-PBVR4\*\*

**AV IO:** (1) 9-pin 3.5mm detachable terminal block  
MIC/GND: Electret microphone input (Panasonic WM-61B or equivalent,) 34 mV nominal input level, 5 volts DC bias, current limited  
VID IN/GND: Composite video input from camera, 1Vp-p nominal  
12V/GND: Camera power output, 200 mA @ 12 Volts DC  
BELL/GND: Doorbell button (contact closure) input (specs same as logic level inputs below)  
SPK-/+: Amplified output to speaker, 13 watts @ 8 ohms  
Connect to door panel components

**INPUT:** (1) 12-pin connector  
(6) Logic level inputs referenced to GND (see "Input/Output Modes" below)  
Maximum input voltage: 5.5 Volts DC  
Minimum input voltage: -0.5 Volts DC  
Minimum logic "1" voltage: 3.2 Volts DC  
Maximum logic "0" voltage: 0.9 Volts DC  
Internal supply: +5 Volts DC  
Essex lamp control: Switched voltage output for keypad backlight  
Connect to Essex keypad, custom panel, or sensor using 12-inch long cable provided

**OUTPUT:** (1) 14-pin connector  
(8) Electronic closures or switched 24VDC output drivers referenced to GND (see "Input/Output Modes" below)  
Maximum load: 50 mA per output  
Maximum external voltage: 24 Volts DC  
Internal supply: 500 mA @ 24 Volts DC  
Connect to switched device(s) using 12-inch long cable provided

**NET:** (1) 4-pin 3.5mm detachable terminal block  
Connects to Cresnet control network

### LED Indicators

**PWR:** (green) Indicates 24 Volts DC power supplied from Cresnet control network

**NET:** (yellow) Indicates communication with Cresnet system

**SETUP:** (red) Used for touch-settable (TSID)

### Controls

**MIC VOL:** (1) microphone level adjustment

**SETUP:** (1) button, used for touch-settable (TSID)

### Input/Output Modes

**Essex Panel Mode:** (5) pulse inputs from Essex keypad plus (1) contact closure input and (8) electronic closure/24VDC outputs

## Intercom Interface **C2N-IIF**

**Button Matrix Mode:** 4 X 4 switch matrix plus (2) contact closure inputs and (4) electronic closure/24VDC outputs

**Discrete I/O Mode:** (6) contact closure inputs and (8) electronic closure/24VDC outputs

### WAV File Audio

**Storage capacity:** 30 WAV files maximum, 30 seconds total time

**WAV file:** 8-bit PCM, mono, 8 kHz sampling rate

**Volume gain range:** -80dB to +20dB, 1.0dB steps

**Bass gain range:** ±14dB

**Treble gain range:** ±14dB

Wav file audio feeds local speaker output only

### Speaker Audio

**Amplifier output power:** 13 watts at 8 ohms

**Volume gain range:** -80dB to +20dB, 1.0dB steps

**Mute:** Electronic

**Bass gain range:** ±14dB

**Treble gain range:** ±14dB

**Frequency response:** 100Hz to 20kHz, ±1dB

**THD+N:** <0.5% @ 100Hz to 20kHz, full output

**S/N ratio:** 80dB @ 1kHz, full output

### Microphone Audio

**Frequency response:** 20Hz to 20kHz, ±0.5dB

### Power Requirements

**Cresnet Power Usage:** 20 Watts (1.25 Amps @ 24 Volts DC)

Plus up to 12 Watts (0.5 Amps) additional if using switched 24VDC outputs

### Environmental

**Temperature:** -22° to 140°F (-30° to 60°C)

**Humidity:** 10% to 90% RH (non-condensing)

### Enclosure

Black metal, surface mount box with (2) integral mounting flanges

### Dimensions

**Height:** 5.14 in (13.04 cm)

**Width:** 2.74 in (6.96 cm)

**Depth:** 1.48 in (3.77 cm)

### Weight

13.3 ozs (0.38 kg)

*\*\*Maximum CAT5 distance: 500 feet*

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*Web: <http://www.eholoision.com>*

### AVAILABLE ACCESSORIES

#### ▶ C2N-IIF-SPMK

Holoision® Door Station Installation Kit

The C2N-IIF-SPMK includes the mounting hardware, speaker, and microphone element necessary to compose a complete intercom door station using the C2N-IIF Intercom Interface with select brass plates manufactured by Holoision.



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