

# CV SERIES TRANSMODULATOR



## CV NTSC16

IP DIGITAL TO NTSC RF ANALOG SYNTHESIZER



### KEY FEATURES

- » Creates a 16 NTSC RF analog modulated channel lineup
- » Decodes MPEG-2, H.264, and H.265 video content
- » Dolby® Digital AC3, AAC, MPEG1-Layer2, MP3 audio decode
- » Line 21 Closed Caption EIA 608 pass through
- » Supports AFD or Manual aspect ratio config., 4:3 or 16:9

APPROVED  
FOR COM3000  
DEPLOYMENTS

### PRODUCT OVERVIEW

The **CV NTSC16** is a cutting-edge 1RU, multi-channel digital to RF analog synthesizer, designed to convert up to 16 HD or SD programs and the primary audio channel to 16 NTSC modulated RF analog channels.

The **CV NTSC16** can input MPEG-2, MPEG-4/H.264 (AVC), or H.265 (HEVC) formats from an IP transport stream. Each IP MPEG transport stream is decoded, NTSC synthesized, and modulated to an STD, IRC, or HRC RF analog channel. All 16 NTSC channels are agile within a 208 MHz frequency block. Users may place the 208 MHz block anywhere within the 54 to 1002 MHz frequency span.

### ORDERING INFORMATION



| MODEL     | STOCK #      | DESCRIPTION                                      |
|-----------|--------------|--|
| CV NTSC16 | <b>6566A</b> | IP Digital to RF Analog Synthesizer; 16 Channels |

# CV NTSC16

## SPECIFICATIONS



### INPUT

|                  |  |
|------------------|--|
| <b>Connector</b> | 16x SPTS from Front Panel RJ45 (IP Video Port) |
| <b>Standard</b>  | 1000Base-T (GbE)                               |

### STREAM PROTOCOLS

|                          |  |
|--------------------------|--|
| <b>Video Formats</b>     | MPEG-2; H.264 (AVC); H.265 (HEVC)  |
| <b>Encryption</b>        | Clear or "NTSC8" from COMM3000 (COM51_ST04.01.83 ++)   |
| <b>Video Resolutions</b> | 480i (59.94, 60 FPS);<br>480p (29.97, 30 FPS);<br>720p (29.97, 30, 60 FPS);<br>1080i (59.94, 60 FPS);<br>1080p (30, 59.94, 60 FPS) |
| <b>Closed Captioning</b> | EIA-608  |
| <b>Routing Protocol</b>  | Unicast  |

### AUDIO

|                     |                                    |
|---------------------|------------------------------------|
| <b>Audio Format</b> | Dolby® AC3, AAC, MPEG1-Layer2, MP3 |
|---------------------|------------------------------------|

### GENERAL

|                               |  |
|-------------------------------|--|
| <b>Dimensions (W x H x D)</b> | 19.0 x 1.75 x 19.2 in<br>(483 x 45 x 488 mm) |
| <b>Weight</b>                 | 9.5 lbs (4.31 kg)                            |
| <b>Power</b>                  | 110/230 VAC, 0.8/0.4 A, 60/50 Hz             |
| <b>Power Consumption</b>      | 45 W   |
| <b>Operating Temp.</b>        | 32 to 122 °F (0 to 50 °C)                    |
| <b>Storage Temp.</b>          | -13 to 158 °F (-25 to 70 °C)                 |
| <b>Operating Humidity</b>     | 0 to 95% RH @ 35 °C max,<br>non-condensing   |

### ALARMS & MONITORING

|                          |  |
|--------------------------|--|
| <b>Local Monitoring</b>  | 1x Power and Status LED (Bicolor)<br>1x Fan Control Status LED (Bicolor)<br>16x Decoder Status LED (Bicolor) |
| <b>Local Control</b>     | 1x IP Reset Button   |
| <b>Monitor Output</b>    | 1x RF Test (-20dB) Connector   |
| <b>Remote Monitoring</b> | Built-in Web Server<br>Remote browser access with status   |

### OUTPUT

|                            |               |
|----------------------------|---------------|
| <b>Connector</b>           | 1x "F" Female |
| <b>-20dB RF Test Point</b> | 1x "F" Female |

### RF

|                                    |                                     |
|------------------------------------|-------------------------------------|
| <b>Frequency Range</b>             | 54 to 1002 MHz                      |
| <b># of Output Channels</b>        | 16 channels in a 208 MHz span       |
| <b>Channel Plans</b>               | Standard, IRC, HRC                  |
| <b>Output Power</b>                | +48 dBmV per channel, ± 1 dB        |
| <b>Broadband Flatness</b>          | ± 1 dB                              |
| <b>Level Adjustment Range</b>      | 15 dB (±0.5 dB increment)           |
| <b>Impedance</b>                   | 75 Ω                                |
| <b>Return Loss</b>                 | >14 dB                              |
| <b>Test Level</b>                  | -20 dB (±2 dB of Main RF Output)    |
| <b>Test Return Loss</b>            | >12 dB                              |
| <b>Spurious</b>                    | > -60 dB                            |
| <b>Phase Noise</b>                 | -110 dBc @ 10 kHz offset            |
| <b>Frequency Accuracy</b>          | ±3 ppm                              |
| <b>Freq. Response (in-channel)</b> | ±0.5 dB                             |
| <b>Signal to Noise Ratio (SNR)</b> | 65 db @ +48 dBmV output             |
| <b>Broadband Noise Floor</b>       | 65 dB, 4 MHz BW,<br>+48 dBmV output |
| <b>Adjacent Chan. Interference</b> | > -60 dB                            |
| <b>Closed Captioning</b>           | EIA-608 (Line 21)                   |

### AUDIO

|                                    |                           |
|------------------------------------|---------------------------|
| <b>Type</b>                        | Monaural                  |
| <b>Signal to Noise Ratio (SNR)</b> | 65 dB                     |
| <b>Frequency Response</b>          | ± 0.5 dB, 50 Hz to 15 kHz |
| <b>Lag Time</b>                    | ≤ 45 ms                   |
| <b>Lead Time</b>                   | ≤ 15 ms                   |

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I/O CONNECTIONS

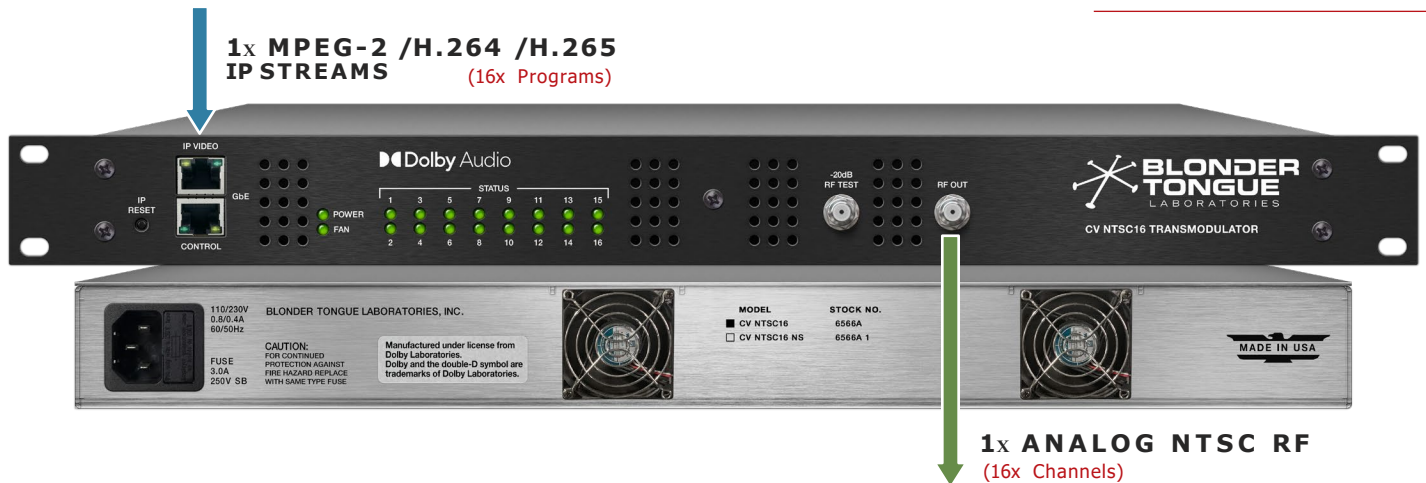


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