

> compact low-cost series



BLUES30NV front view

## Features

- > **HARDWARE FEATURES:** ultra-compact and ultra-light (only 6 Kg.), stainless steel chassis, in 1 rack unit only.
- > **PRIMARY APPLICATION:** uncompromised transmission quality at a very attractive price, ideal for multichannel cable repeater stations. Adjustable power output from 0 to 30 Watt.
- > **AUDIO PERFORMANCE:** key audio features are low distortion and intermodulation values and a high noise/signal ratio.
- > **RELIABILITY/CONTINUITY:** the SMD technology ensures enhanced business continuity. APC (Automatic Power Control) and Foldback protection ensure reliable operation under any operating conditions.
- > **USER-FRIENDLY FEATURES:** pressure encoder provides great accessibility for user/device interaction, resulting in extreme ease of use. Configuration software offers a simple, intuitive interface.
- > **EASE OF MAINTENANCE:** advanced module engineering ensures extreme ease of access and simple maintenance.
- > **INTERFACE CONTROL:** total control thanks to microprocessor easily programmed from menu or via RS232 with all key parameters displayed on LCD.
- > **INPUT/OUTPUT INTERFACE:** built-in high-performance stereo coder, L&R, Mono, MPX and auxiliary inputs for SCA / RDS signals.
- > **REGULATORY COMPLIANCE:** state-of-the-art technology in full compliance with EC, FCC and CCIR standards.

## stereo/MPX FM exciters 87,5 - 108 MHz

BROADCAST  
EQUIPMENT



BLUES30NV rear view

### Caratteristiche

- > **HARDWARE FEATURES:** ultracompatto e ultraleggero (solo Kg. 6), chassis in acciaio inox, in sole 1 unità rack.
- > **PRIMARY APPLICATION:** qualità di trasmissione senza compromessi ad un prezzo estremamente contenuto, ideale per stazioni ripetitrici ed applicazioni multicanale via cavo. Potenza di uscita regolabile da 0 a 30 Watt.
- > **AUDIO PERFORMANCE:** le caratteristiche audio di rilievo di questo apparato sono i bassi valori di distorsione, di intermodulazione e l'alto rapporto segnale rumore.
- > **RELIABILITY/CONTINUITY:** elevata continuità di esercizio garantita dalla tecnologia costruttiva SMD. Funzionamento in qualsiasi condizione di lavoro, assicurato dal controllo automatico APC e la protezione di foldback.
- > **USER-FRIENDLY FEATURES:** estrema semplicità d'utilizzo, data dall'accessibilità fornita dall'encoder a pressione per l'iterazione fra l'utente e l'apparato. Interfaccia del software di configurazione intuitiva e semplificata.
- > **EASE OF MAINTENANCE:** estrema accessibilità e semplicità di manutenzione grazie ad una avanzata ingegnerizzazione modulare dell'apparato.
- > **INTERFACE CONTROL:** controllo completo basato su di un micro-processore facilmente programmabile da menu o via RS232 con lettura su display LCD di tutti i parametri principali.
- > **INPUT/OUTPUT INTERFACE:** stereo coder integrato ad elevate prestazioni, ingressi L&R, Mono, MPX ed ausiliari per segnali SCA / RDS.
- > **REGULATORY COMPLIANCE:** tecnologia moderna e pienamente rispondente alle normative EC, FCC ed CCIR.

## Technical specifications

| Parameters                             | Values   |
|--|--|
| <b>GENERALS</b>                        |  |
| Rated output power                     | 30W  |
| Frequency range                        | FCC -CCIR - OIRT - JPN   |
| Operational Mode                       | Mono, Stereo, Multiplex  |
| Modulation type                        | F3E  |
| Primary Power                          | 80 ÷ 260 Vac or 24 Vdc   |
| AC Power Consumption                   | 120 VA / 70W   |
| Physical Dimensions (W x H x D)        | 483 x 88 x 394 mm  |
| Weight                                 | 5 kg   |
| Environmental Working Conditions       | -10 ÷ +50 °C / 95% relative Humidity non condensing              |
| Cooling                                | Forced, with internal fan  |
| Frequency programmability              | From software, with 10 kHz steps                                 |
| Frequency stability                    | ±1 ppm   |
| Pre-emphasis mode                      | 0/50 (CCIR) µS, 75 (FCC) µS                                      |
| Spurious & harmonic suppression        | <75 dBc (80 typical)   |
| Asynchronous AM S/N ratio              | ≥ 65 dB (typical 70)   |
| Synchronous AM S/N ratio               | ≥ 50 dB (typical 60)   |
| <b>MONO OPERATION</b>                  |  |
| S/N FM Ratio                           | > 80 dB RMS (typical 83 dB)                                      |
| Frequency Response                     | < ± 0.5 dB 30Hz ÷ 15kHz (typical ± 0.2 dB)                       |
| Total Harmonic Distortion              | < 0.1 % 30 Hz ÷ 15 kHz (typical 0.07 %)                          |
| Intermodulation distortion             | < 0.02 % with 1 kHz and 1,3 kHz tones                            |
| <b>MPX OPERATION</b>                   |  |
| Composite S/N FM Ratio                 | > 80 dB RMS (typical 83 dB)                                      |
| Frequency Response                     | ± 0.2 dB 30Hz ÷ 53kHz / ± 0.5 dB 53kHz ÷ 100 kHz                 |
| Total Harmonic Distortion              | < 0.1% 30Hz ÷ 53kHz  |
| Intermodulation distortion             | < 0.05% with 1 kHz and 1,3 kHz tones                             |
| <b>INTERNAL STEREO CODER OPERATION</b> |  |
| Stereo S/N FM Ratio                    | > 75 dB RMS (typical 77dB)                                       |
| Frequency Response                     | ± 0.5 dB 30 Hz ÷ 15 kHz  |
| Total Harmonic Distortion              | < 0.05% 30 Hz ÷ 15 kHz   |
| Intermodulation distortion             | ≤ 0.03% with 1 kHz and 1,3 kHz tones                             |
| Stereo separation                      | > 50 dB 30 Hz ÷ 15 kHz (typical 55 dB)                           |
| <b>AUDIO INPUT CONNECTORS</b>          |  |
| Left / Right                           | XLR balanced; Impedance: 10 k or 600 ohm; Level: -13 to +13 dBu  |
| MPX unbalanced/RDS                     | BNC unbalanced; Impedance: 10 k or 50 ohm; Level: -13 to +13 dBu |
| SCA/RDS                                | 2 x BNC unbalanced; Impedance: 10 k; Level: -8 to +13 dBu        |
| <b>OTHER CONNECTORS</b>                |  |
| RF Output                              | N (50 ohm)   |
| RF Monitor                             | BNC (- 30dB referred to RF output )                              |
| Pilot output                           | BNC (1Vpp)   |
| Interlock Input                        | BNC  |
| <b>STANDARD COMPLIANCE</b>             |  |
| Safety                                 | EN 60215:1989<br>EN60215/A1:1992-07<br>EN60215/A2:1994-09        |
| EMC                                    | EN 301 489-1 V1.4.1 (2002-08)<br>EN 301 489-11 V1.2.1 (2002-11)  |
| Radio                                  | EN 302 018-2 V1.2.1 (2005-06)                                    |

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These are general specifications. They show typical values and are subject to change without notice.

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## Ordering information

### Options for BLUES30NV - Opzioni per BLUES30NV

| Code | Description  |
|------|--|
| /CW  | Morse-coded station ID code generated through FSK (Frequency Shift Keying) function *<br><i>Codice identificativo della radio via codice Morse attraverso la funzione FSK (Frequency Shift Keying) *</i> |

\* Please specify station name on order.  
*Si prega di specificare il nome della stazione in fase di ordine d'acquisto.*



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