

> 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
GENERALS	
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)
MONO OPERATION	
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
MPX OPERATION	
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
INTERNAL STEREO CODER OPERATION	
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)
AUDIO INPUT CONNECTORS	
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
OTHER CONNECTORS	
RF Output	N (50 ohm)
RF Monitor	BNC (- 30dB referred to RF output)
Pilot output	BNC (1Vpp)
Interlock Input	BNC
STANDARD COMPLIANCE	
Safety	EN 60215:1989 EN60215/A1:1992-07 EN60215/A2:1994-09
EMC	EN 301 489-1 V1.4.1 (2002-08) 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.

CE 99/5/CE Revision: 03/10

exciters/transmitters

Ordering information

Options for BLUES30NV - Opzioni per BLUES30NV

Code	Description
/CW	Morse-coded station ID code generated through FSK (Frequency Shift Keying) function * <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.



RVR Elettronica S.p.A.
Via del Fonditore, 2/2c
Zona Industriale Roveri • 40138 Bologna • Italy
Phone: +39 051 6010506 • Fax: +39 051 6011104
e-mail: info@rvr.it • web: <http://www.rvr.it>

