

exciters

Exciters/Transmitters

Amplifiers

Solid state <

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Radio links

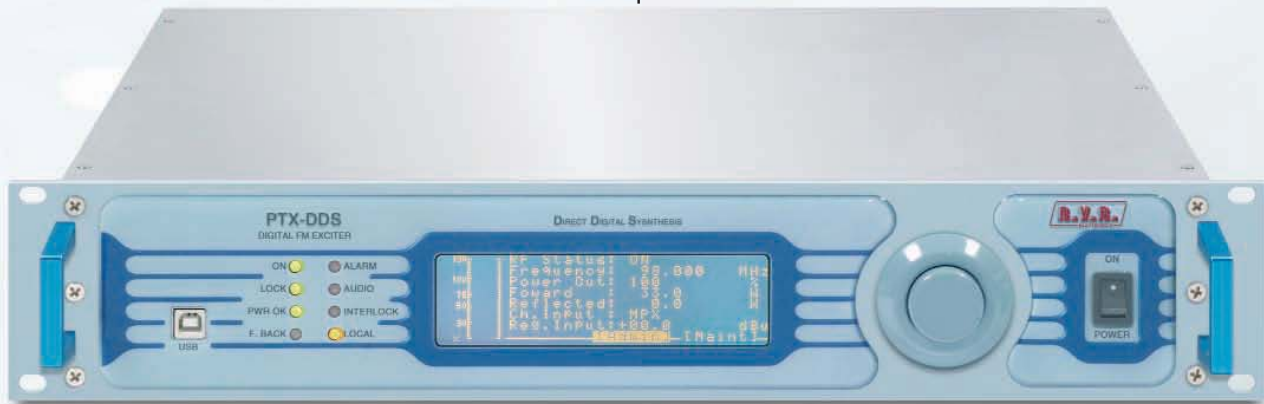
Telemetry & Changeover

Transmitter stations

Liquid Cooled transmitters

HD Radio transmitters

exciters/transmitters



> 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.

exciters/transmitters

stereo/MPX FM exciters 87,5 - 108 MHz

BROADCAST
EQUIPMENT

exciters/transmitters



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.

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> **low-cost compact series**

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
Weigh	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 _r referred to RF output)
Pilot output	BNC (1V _{pp})
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)

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice.
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 * <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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