



R V R BLUES30NV Broadcast Systems FM Transmitters User Manual

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**FM TRANSMITTERS
BLUES-NV
SERIES
ULTRA COMPACT
from 30W to 50W
MODELS
BLUES30NV BLUES50NV**



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The Blues Series fits all needs for low-power Stations being one of the most used ultra-compact units ever. The models available reflects all R.V.R. high-standards combined in a smaller design allowing to lower any type of shipping and installation procedures. These FM Transmitters are ideal for as repeaters, exciters or compact transmitters for Community Radios.

- Ideal for LPFM Stations as transmitter, repeater or exciter.
- Great compromise between cost vs. quality.
- Full compliance with EC, FCC and CCIR standards.
- Standard Frequency Range: 87.5 – 108 MHz. Other bands on request.
- 10% – 100% Output Power continuously adjustable.
- Inputs: Analogue Stereo L&R, Mono, MPX. AES/EBU (option).
- Remotable via Web, Serial protocols (option).
- 1 Rack unit only: ultra compact and ultra light.
- Universal 80-260 V multi-voltage power supply.
- Easy maintenance.

ORDERING INFORMATION

Model	Description
BLUES30NV	30W Ultra Compact Stereo Transmitter.
BLUES50NV	50W Ultra Compact Stereo Transmitter.
OPTION	
/AESEBUBLUES	Digital/Analog converter.
/TLW-BLU-E	WEB and SNMP/V1 basic telemetry system via the internet.



BLUES30NV

30W Compact Stereo Transmitter.



<https://www.rvr.it/it/products/compact-trasmitters/blues-series/bfino-a-50w/blues30nv-azz3k8fj/>



BLUES50NV
 50W Compact Stereo Transmitter.



<https://www.rvr.it/it/products/compact-trasmitters/blues-series/bfino-a-50w/blues50nv-toee0brd/>

BLUES30NV			BLUES50NV	
Parameters	U.M.	Value		Notes
GENERALS				
Frequency range	MHz	87,5 ÷ 108		
Rated output power	W	30	50	Continuously adjustable from 10 to 100%
Modulation type		F3E Direct carrier frequency		
Operational mode		Mono, Stereo, Multiplex		
Working temperature	°C	-5 to + 50		
Working humidity	%	95		Without condensing
Working altitude	m	Up to 2000		With adequate air evacuation system in site
Frequency programmability	kHz	10		Steps
Frequency stability Working Temp. from -5°C to 50°C	ppm	±1		
Modulation capability Referred @ 0dBu for 75kHz	kHz	150 Stereo, 180 Mono/MPX		Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50 (CCIR), 75 (FCC)		Selectable
POWER REQUIREMENTS				
	AC Supply Voltage	VAC	80 ÷ 260	Internal switch

AC Power input	AC Apparent Power Consumption	VA	120	200	
	Active Power Consumption	W	70	100	
	Power Factor		0,5		
	Overall Efficiency	%	Typical 50		
	Connector		VDE IEC Standard		
MECHANICAL DIMENSIONS					
Phisical dimensions	Front panel width	mm / inch	483 / 19		EIA rack
	Front panel height	mm / inch	44 / 3 1/2 1HE		
	Overall depth	mm	394		
	Chassis depth	mm	372		
Weight		kg	About 5,5		
Cooling			Forced, with internal fan		
Acoustic noise		dBA	< 58		
AUDIO INPUTS					
Left / Mono	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level /Adjust	dBu	-13 to +13		Continuosly adjustable
Right	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level	dBu	-13 to +13		Continuosly adjustable
MPX	Connector		BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k or 50		
	Input Level / Adjust	dBu	-13 to +13		For 7,5 KHz FM, adjustable
SCA/RDS	Connector		2 x BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k		

	Subcarrier Level @ 0 dBu	dB	-17 to -40	For 7,5 KHz FM, adjustable
AES/EBU (optional)	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	110	
	Input Level / Adjust	dBfs	0 to -10	For 7,5 KHz FM, adjustable
OUTPUTS				
RF Output	Connector		N type	
	Impedance	Ohm	50	
RF Monitor	Connector		BNC	
	Impedance	Ohm	50	
	Output Level	dBm	Approx. -30	
Pilot output	Connector		BNC	
	Load Impedance	Ohm	>5 k	
	Output Level	Vpp	1	Sinusoidal
FUSES				
On mains		1 External fuse F 3,15 T – 5×20 mm	1 External fuse F 6,3 T – 5×20 mm	
On services		X		
On PA Supply		X		
On driver supply		X		

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.



<https://www.rvr.it>



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Documents / Resources

	R V R BLUES30NV Broadcast Systems FM Transmitters [pdf] User Manual BLUES30NV Broadcast Systems FM Transmitters, BLUES30NV, Broadcast Systems FM Transmitters, Systems FM Transmitters, FM Transmitters
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References

-  [R.V.R. Elettronica - Broadcast Systems](#)

Manuals+.