R V R PTX30LCD-S PTX-LCD SERIES FM Transmitters User Manual

FM TRANSMITTERS
PTX-LCD SERIES/PTX-LCD SERIES
PROFESSIONAL ANALOGIC from 30W to 150W
MODELS
PTX30LCD/S/PTX50LCD/S
PTX150LCD/S/PTX100LCD/S

Contents

PTX30LCD-S PTX-LCD SERIES FM Transmitters

- Globally recognized as the most sold professional exciter.
- Excellent as exciter in modular systems or as a compact transmitter.
- 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.
- Fold-back control for effective “VSRW” protection.
- Includes IAMLC: Intelligent Automatic Modulation Level Control.
- Built-in high-performance stereo coder.
- Analogue Inputs: Analogue Stereo L&R, Mono, MPX.
- Digital Inputs: AES/EBU, S/PDIF, TOSLINK.
- Auxiliary input for SCA / RDS signals.

ORDERING INFORMATION

Model	Description
PTX30LCD/S	30W Compact Stereo Transmitter.
PTX50LCD/S	50W Compact Stereo Transmitter.
PTX100LCD/S	100W Compact Stereo Transmitter.
PTX150LCD/S	150W Compact Stereo Transmitter.

OPTION

/08DIG-PTX-16	Telemetry system via parallel interface.
/10MHZ-PTX	External 10MHZ cable.

PTX30LCD/S

30W Compact Stereo Transmitter.

https://www.rvr.it/it/products/compact-trasmitters/ptx-lcd-series/fino-a-50w/ptx30lcd-s-tbq7c5ux/

PTX50LCD/S

50W Compact Stereo Transmitter.

https://www.rvr.it/it/products/compact-trasmitters/ptx-lcd-series/fino-a-50w/ptx50lcd-s-hv5sz7jd/

PTX100LCD/S

100W Compact Stereo Transmitter.

https://www.rvr.it/it/products/compact-trasmitters/ptx-lcd-series/fino-a-150w/ptx100lcd-s-bwoq3vzt/

PTX150LCD/S

150W Compact Stereo Transmitter.

https://www.rvr.it/it/products/compact-trasmitters/ptx-lcd-series/fino-a-150w/ptx150lcd-s-do0n274h/

PTX30LCD/S			**PTX50LCD/S**	
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		Direct carrier frequency		
Operational mode		Mono, Stereo, Multiplex		
Working temperature	°C	-5 to + 50		
Working humidity	%	95		Without condensing
Working altitude	m	Up to 3000		With adequate air evacuation system in site
Frequency programmability	kHz	From software, with 10		Steps
Frequency stability Working Temp. from -5°C to 50°C	ppm	±1		
Modulation capability Refered @ 0 dBu for 75kHz	kHz	150 Stereo, 200 Mono/MPX		Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 25, 50, (CCIR), 75 (FCC)		Selectable
POWER REQUIREMENTS				
AC Power input	AC Supply Voltage	VAC	115 – 125 – 230 – 250	
	AC Apparent Power Consumption	VA	135	220
	Active Power Consumption	W	95	150

	Power Factor		0,68		
	Overall Efficiency	%	Typical 31	Typical 33	
	Connector		IEC Standard		
MECHANICAL DIMENSIONS					
Phisical dimensions	Front panel width	mm / inch	483 / 19		EIA rack
	Front panel height	mm / inch	88 / 3 1/2 2HE		
	Overall depth	mm	400		
	Chassis depth	mm	389		
Weight		kg	About 10	About 13	
Cooling			Forced, with internal fan		
Acoustic noise		dBA	< 56		
AUDIO INPUTS					
Left / Mono	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level /Adjust	dBu	-13 to +14		1 dB step adjustable
Right	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level	dBu	-13 to +14		1 dB step adjustable
MPX	Connector		BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k or 50		
	Input Level / Adjust	dBu	-13 to +14		1 dB step adjustable
SCA/RDS	Connector		3 x BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k		
	Subcarrier Level @ 0 dBu	dB	-17 to -40		Adjustable
AES/EBU (optional)	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	110		

TOS/Link (optional)	Connector		TOS LINk	
	Type		Optical	
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	>4.7 k	
	Output Level	Vpp	1	Sinusoidal
FUSES				
On mains			1 External fuse F 6,3 T – 5 ×20 mm	
On services			X	
On PA Supply			1 External fuse F 6,3 A – 5×20 mm	1 External fuse F 10 A – 5×20 mm
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.

PTX100LCD/S			**PTX150LCD/S**	
Parameters	U.M.		Value	Notes
GENERALS				
Frequency range	MHz	87,5 ÷ 108		
Rated output power	W	100	150	Continuously adjustable from 10 to 100%
Modulation type		Direct carrier frequency		
Operational mode		Mono, Stereo, Multiplex		
Working temperature	°C	-5 to + 50		
Working humidity	%	95		Without condensing
Working altitude	m	Up to 3000		With adequate air evacuation system in site

Frequency programmability		kHz	From software, with 10		Steps
Frequency stability Working Temp. fro m -5°C to 50°C		ppm	±1		
Modulation capability Referred @ 0dB u for 75kHz		kHz	150 Stereo, 200 Mono/MPX		Meets or exceeds all FCC and CCIR r ules
Pre-emphasis mode		µS	0, 25, 50, (CCIR), 75 (FCC)		Selectable
POWER REQUIREMENTS					
AC Power input	AC Supply Voltage	VAC	115 – 125 – 230 – 250		
	AC Apparent Power Consumption	VA	350	458	
	Active Power Consu mption	W	250	330	
	Power Factor		0,71	0,72	
	Overall Efficiency	%	Typical 40	Typical 45	
	Connector		IEC Standard		
MECHANICAL DIMENSIONS					
Physicals dimen sions	Front panel width	mm / inch	483 / 19		EIA rack
	Front panel height	mm / inch	88 / 3 1/2 2HE		
	Overall depth	mm	400		
	Chassis depth	mm	389		
Weight		kg	About 15		
Cooling			Forced, with internal fan		
Acoustic noise		dBA	< 56		
AUDIO INPUTS					
Left / Mono	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level /Adjust	dBu	-13 to +14		1 dB step adjustabl e
Right	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level	dBu	-13 to +14		1 dB step adjustabl e
	Connector		BNC		

MPX	Type		Unbalanced	
	Impedance	Ohm	10 k or 50	
	Input Level / Adjust	dBu	-13 to +14	1 dB step adjustable
SCA/RDS	Connector		3 x BNC	
	Type		Unbalanced	
	Impedance	Ohm	10 k	
	Subcarrier Level @ 0 dBu	dB	-17 to -40	Adjustable
AES/EBU (optional)	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	110	
TOS/Link (optional)	Connector		TOS-LINK	
	Type		Optical	
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	>4.7 k	
	Output Level	Vpp	1	Sinusoidal
FUSES				
On mains			1 External fuse F 6,3 T – 5×20 mm	
On services			X	
On PA Supply			1 External fuse F 10 A – 5×20 mm	
On driver supply			X	

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Documents / Resources

	R V R PTX30LCD-S PTX-LCD SERIES FM Transmitters [pdf] User Manual PTX30LCD-S PTX-LCD SERIES FM Transmitters, PTX30LCD-S, PTX-LCD SERIES FM Transmitters, SERIES FM Transmitters, FM Transmitters

References

- R.V.R. Elettronica - Broadcast Systems