

Explorer100 Series

Pocket Transmitters

Micron wireless microphone and communication systems have been setting industry standards in broadcast and location recording for some four decades. The company's design focus is on applying sophisticated electronic engineering to achieve the optimum balance of performance and cost.

The Explorer 100 Series combines the legendary Micron qualities of sonic integrity, long-term reliability and rock-solid construction at a new and highly affordable price point.



The Explorer 100's sophisticated design acknowledges our over-crowded spectrum, and the non-harmonised radio microphone allocations of several territories. The choice of up to 256 frequencies, combined with the broad system bandwidth, ensures high levels of frequency agility, with the Explorer 100 transmitters designed to provide the highest possible quality of transmitted signal.

This approach achieves the utmost flexibility in operation for crews, operators and recordists, whether working internationally or simply under circumstances prone to interference, and offers the freedom and convenience of being able to use the systems across the world.

Preserving audio signal integrity is also a priority. The Explorer 100 transmitters offer easy adjustment of the audio input level via a secure top-panel control, with a peak-reading LED level indicator. Designed to handle very high input levels, with generous headroom, they include a fast-response limiter with a soft curve that is set up specifically to avoid clipping the signal on peaks. Also acting as an automatic gain control, but free of the pumping effects usually associated with this type of circuit, this sophisticated limiter enables operation with lower-budget camcorders or mixers.

For long-term reliability the Explorer 100 series transmitters use high quality 6-pin Lemo as mic input connector and miniature SMA antenna connector.

Dedicated audio input cables are available to connect mic or line level signals to the transmitter, and to power a variety of microphone types, such as T12-powering, low-voltage P12-powering and P48 powering phantom-powered condenser boom mics. Equipped with a battery-status LED indicator, transmitters can be powered by standard alkaline battery, with the unique battery compartment enabling quick and simple battery replacement. The battery compartment's design, together with the Explorer's overall strength and durability, is focused on withstanding the heavy demands of location use.

- Mic or line level input with audio modulation indicator
- Both +ve and -ve bias for electret mic capsules
- Sophisticated automatic level control
- Battery level indication and transmitted warning system
- Switchable low frequency cut-off
- Switchable phase reverse
- Frequency agile: Up to 256 switchable channels over 32MHz Bandwidth
- Powering for a wide range of 'P12', 'T12' and P48 condenser mics adaptor leads
- External powering with 'TP' series leads
- Reliable, professional connectors
- Rugged metal construction
- Unique easy to operate battery compartment

MICRON
EXPLORER
SERIES

Technical Specifications



	TX716A	TX7256	TX700B
RF Transmission System			
Carrier Range (to order)	470 to 870MHz	470 to 870MHz	470 to 870MHz
Channels	16	256	256
Switching Range	24 or 25.6MHz	25.6 or 32MHz	25.6 or 32MHz
Modulation System	F3EGN	F3EGN	F3EGN
Minimum Channel Spacing	200kHz	200kHz	200kHz
Reference Deviation	40kHz	40kHz	40kHz
RF output (ERP)	50mW	50mW	50mW
Audio			
System S/N Ratio	>100dB	>100dB	>100dB
Frequency Response	80Hz to 20kHz, ±2dB	80Hz to 20kHz, ±2dB	80Hz to 20kHz, ±2dB
Distortion (@ ref.dev)	<0.3% THD	<0.3% THD	<0.3% THD
Controls			
Phase reverse	-	-	2-way slide switch
Switchable Low frequency	-	-	2-way slide switch, Fixed
Cut-off			Bass Cut: -5dB at 50Hz Additional 6dB cut at 60Hz
Level Control (modulation sensitivity)	Manual pre-set, 40dB in 8 steps	Manual pre-set, 40dB in 8 steps	Manual pre-set, 40dB in 8 steps
Frequency Control	Screwdriver pre-set 16-way BCD Switch	Screwdriver pre-set 2 x 16-way BCD Switch	Screwdriver pre-set 2 x 16-way BCD Switch
Indicators			
Modulation Indicator	Peak AF level indicates ALC threshold	Peak AF level indicates ALC threshold	'0' lights at Automatic level threshold (ALC) '-10' lights at 10dB below ALC threshold
Note: ALC system allows short transients to pass up to +6 dB.			
Battery Condition Indicator	Lights at <6,5V -10 LED Lights	Lights at <6,5V -10 LED Lights	Lights at <6,5V-10 LED Lights, Transmitted 'low battery' early warning causes RX 'TX BATT'' LED to light
Power			
Battery Type	IEC 6LR61 (MN1604) 9V PP3 size	IEC 6LR61 (MN1604) 9V PP3 size	IEC 6LR61 (MN1604) 9V PP3 size
Current Consumption	65mA±10%	65mA±10%	65mA±10%
Battery Life	Aprox. 7 hours with alkaline battery	Aprox. 7 hours with alkaline battery	Aprox. 7 hours with alkaline battery
External Power	7.5 to 16V dc (with 'TP' cables)	7.5 to 16V dc (with 'TP' cables)	7.5 to 16V dc (with 'TP' cables)
Dimensions	W: 63mm D: 22mm H: 91mm Weight: 150g with battery	W: 63mm D: 22mm H: 91mm Weight: 150g with battery	W: 63mm D: 22mm H: 74mm Weight: 100g with battery
Accessories Supplied	Antenna Instruction Manual (CD) Belt clip	Antenna Instruction Manual (CD) Belt clip	Antenna Instruction Manual (CD) Belt clip

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