

## RADIO PRODUCTS CATALOG FOR BUSINESS USERS

- Handheld Transceivers
- Mobile Transceivers
- **Power Supplies**

Ver.1.0.1.LM



### DJ-A10/A40 DJ-A11/A41 DJ-A35/A36





### Rugged, Reliable radio that withstands your demands... at an affordable price

### All models

- 128 channels to program operating parameters via PC utility software (DJ-A11/A36/A41 16ch max per bank, up to 8 banks programmable)
- Standard accessories include a rechargeable Li-lon pack, desktop quick-charger and high-performance whip antenna
- Ergonomically designed compact body 59.0W x 98.0H x 35.0D mm or 2.32W x 3.86H x 1.38D inches (w/o projections, approx.), weighs approx.227g or 8.01oz inclusive of battery pack and antenna
- A variety of scanning functions, 50 CTCSS, 116 DCS and 4 Toneburst tones
- External microphone and speaker ports
- Internal VOX, English Voice Prompts, Remote-Kill/Stun/Revive, Analog scrambling, Voice compander, Narrow FM, Repeater-reverse, Auto-Power-off, Busy-Channel-Lockout, Time-Out-Timer and more at No extra cost!

### DJ-A10/A35/A40 series only

- Backlit, Dot Matrix LCD screen with alphanumeric name tag
- Channel, Name tag and VFO (Frequency) display modes selectable
- FM radio receiver function











DJ-A10 DJ-A35 DJ-A40

AL INCO

DJ-A11 DJ-A36 DJ-A41

UHF FM TRANSCEIVES

### Specifications

### General •

- Frequency coverage: [DJ-A10/11] 136 174 MHz
   [DJ-A40/41] 400 470 MHz
   [DJ-A35/36] 350 390 MHz
- Mode : F3E(16K0F3E / 11K0F3E / RX only WFM)
- Programmable channels: 128 channels
- Frequency stability : ±2.5ppm
- Power supply requirement : 7.4V DC±20% (negative ground)
- Current drain (Approx.): 1400mA TX / 300mA receive at Max audio output / 70 mA squelched
- Usable temperature range : -20~ +55°C(-4~131°F)
- Dimensions (Projections not included/approx.): 59.0W×98.0H×35.0D mm or 2.32W×3.86H×1.38D inches
- Weight: approx.227g or 8.01oz inclusive of battery pack and antenna

### Transmitter (ETSI EN300 086 compliant)

- Output power: Approx. [A10/11/41] 5 / 2 / 0.5W [A40] 4 / 2 / 0.5 W
   [A35] 5 / 2 / 1 W [A36] 5 / 2.5 / 1 W
- Modulation system : Variable reactance FM
- Spurious emissions: Less than −36dBm
- Max. frequency deviation: ±5kHz / ±2.5kHz

### Receiver (ETSI EN300 086 compliant)

- Receive system : Double conversion superheterodyne
- Intermediate frequencies: [A10/11] 38.85MHz [A40/41/35/36] 26.45MHz
- Sensitivity(12dB SINAD Wide/Narrow): -12dBμ or better (0.25μV/0.35μV) or better
- Selectivity: −6dB: Wide 12kHz /Narrow 10kHz or more −60dB: Wide 30kHz / Narrow 24kHz or less
- Audio output power: 1000mW(10% distortion)

Standard Accessories (A strap is included)

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	Whip antenna	Battery	Pack	Rapid ChargerStand	AC Adapter	Belt Clip
1	A10/11:EA-211 A40/41:EA-212 A35/36:EA-218	A10/40/11/41 version EBP-88 Li-ion 7.4V 1700mAh	A10/40/11/41 T/E version A35E/36E version EBP-87 Li-ion 7 4V 1500mAb	EDC-189	A10/11/40/41: EDC-190E A10T/11T/40T/41T: EDC-191T A10E/11E/40E/41E/35E/36E: EDC-191E	EBC-34



\*Except DJ-A35/A36





### **A Tiny Radio That Packed With Powerful Features!**

- IP54 dust-protection and splash-proof
- Plenty of operating time, over 10 Hours with standard 1500 mAh Li-lon battery pack (TX1:RX1:St-by90 / EBP-88 lasts longer / varies depending on conditions of use)
- Includes a desktop 4-Hour Quick Charger
- Wide variety of selective calling features built-in : 2-Tone, 5-Tone, 50 CTCSS, 114 DCS, 4 Tone-burst tones and DTMF/ANI decode
- Radio stun/kill/revive functions to protect your communication security
- Large, bright Alphanumeric Name tag LCD and easy-to-operate backlit keys
- Loud, enhanced audio quality with audio compander
- Analog voice scrambler and VOX built-in
- 200 programmable channels
- 3 selectable output power 5/2/0.5W
- FM broadcast receiver
- FSK short-message, BCLO, DTMF Autodialer, Reverse, Talk-around, TOT functions and much more!





### Standard Accessories (A strap is included)

Whip antenna	Battery	attery Pack	
	DJ-100	DJ-100T/100E	
EA-211	<b>EBP-88</b> Li-ion 7.4V 1700mAh	EBP-87 Li-ion 7.4V 1500mAh	
Rapid ChargerStan	d AC Adapte	AC Adapter	
EDC-189	100: <b>EDC-1</b> 100T: <b>EDC-1</b> 100E: <b>EDC-1</b>	91T	EBC-34

**VHF FM HANDHELD TRANSCEIVER** 

**DJ-100** (6 FC



### Specifications

#### General

● Frequency coverage: TX/RX 136-174MHz

RX only: FM radio (76-108MHz)

- Mode: F3E(16K0F3E / 11K0F3E / RX only WFM)
- Programmable channels : 200 channels
- Frequency stability: ±2.5ppm
- Power supply requirement : 7.4V DC±20% (negative ground)
- Current drain (Approx.): 1400mA TX / 300mA receive at Max audio output / 70 mA squelched
- Usable temperature range : −20~ +55°C(-4~131°F) Dimensions (Projections not included/approx.)
- 59.0W×98.0H×35.0D mm or 2.32W×3.86H×1.38D inches
- Weight: approx.210g or 7.4oz inclusive of battery pack and antenna

### Transmitter (ETSI EN300 086 compliant)

- Output power : 5 / 2 / 0.5W
- Modulation system: Variable reactance FM
- Spurious emissions : Less than −36dBm
- ◆ Max. frequency deviation: ±5kHz / ±2.5kHz

### Receiver (ETSI EN300 086 compliant)

- Receive system : Double conversion superheterodyne
- Intermediate frequencies: 38.85MHz
- Sensitivity(12dB SINAD): Wide 0.25μV / Narrow 0.35μV or better
- Selectivity: -6dB: Wide 12kHz /Narrow 10kHz or more
  - -60dB : Wide 30kHz / Narrow 24kHz or less
- Audio output power: 1000mW(10% distortion)
- Applicable U.S. Military Specifications MIL 810F and equivalent MIL-STD-810-C, -D and -G.

Method/Procedure: Vibration 514.5 I / Shock 516.5 I, IV

All stated specifications are subject to change without notice or obligation.

### **About IP54 and MIL-STD**



### About IP54 rating / Dust and splash resistant

About IP54 rating

5: Dust protected /Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the

equipment.
4: Splashing water / Water splashing against the enclosure from any direction shall have no harmful effect. Test duration: 5 minutes / Water volume: 10 litters per minute /Pressure: 80~100 kN/m<sup>2</sup>

The IP54 designation provides for limited dust and splash proofing of the radio per specified above. This compatibility is factory guaranteed for a period of one year provided all the jack covers are securely in place, any accessories connected must be specified genuine Alinco accessories and the radio has not been disassembled by the customer. The factory has tested and made the equipment compatible to IP54 certification during engineering. However, please understand that this equipment is NOT certified IP54 compliant but is designed to remain operational when used in hard conditions and is in no way stating that you should attempt to wash the radio for cleaning. Warranty will not cover radios that are water/dust damage due to negligence or misuse of the product.



### Tested to comply MIL-STD-810G

-Shock: Method 514.6/I,IV Vibration: Method 516.6/I

### DJ-A446/A46









### **READY FOR ACTION!**

- Rugged, polycarbonate design resists rain and dust (IP54 compatible)
- MIL-STD-810G shock/vibration compliant
- 128 memories (16ch x 8groups : DJ-A46) to program operating parameters and tone-squelch tones
- High-performance whip antenna
- Works with rechargeable Li-ion battery pack
- Ergonomically designed body, weighs only 240g inclusive of EBP-87 and antenna
- Dealer-programmable features including Scans and Tonesignaling
- Simple, easy-to-use interface
- External microphone and speaker ports
- VOX built-in
- Includes FM radio receiver (DJ-A446 only)



### Specifications

### **DJ-A446/DJ-A46**

### General •

- Frequency coverage : [TX/RX] 8ch
- PMR446 frequencies in UHF
- Mode : 8K50F3E (NFM)
- Memory channels: 128 channels
- (A46: 16ch x 8groups)
- Frequency stability: ±2.5ppmOperating voltage: 7.4V DC ±20%
- Usable temperature range :-10~
- +45°C(+14~113°F)
- Charging temperature range: +5~
- +40°C(+41~104°F)
- Dimensions(Projections not included): 240×56×30mm (with battery pack, antenna)
- Weight 240 g (with battery pack, antenna)
- Sub audible Tone(CTCSS) :

encoder/decoder 50tones

Receiver

Transmitter

- Output power: Approx.500mW
- Modulation system : Variable reactance
- Spurious emissions : Less than -36dBm Max.frequency deviation: ±2.5kHz
- Receive system : Double conversion superheterodyne
- Sensitivity(12dB SINAD) : Less than
- 0.35μV
- Adjacent Channel Selectivity : More than 60dB
- Intermodulation : More than 60dB
- Spurious Rejection : More than 70dB
- Audio output power : 1000mW/10%

**UHF License-Free Handheld Transceiver** 

DJ-A446

CH- 001

108.00M C:

**DJ-A46** 

PRIVATE MOBILE RADIO

### Standard Accessories (A strap is included)

Rapid ChargerStand	Battery Pack	AC Adapter	Belt Clip
EDC-189	<b>EBP-87</b> Li-ion 7.4V 1500mAh	EDC-191E	EBC-34

Standard accessories declared herein are our factory default and may vary at moment of

### **Options and Spares**

Common to all handheld transceivers.



**EDH-40** 

Mobile DC Charging Cable **EDC-198** 



Earphone/Mic EME-56A



DJ-A46

Speaker Mic **EMS-76** 



**Battery Pack EBP-88** 7.4V 1700mAh Belt Clip

**EBC-34** 







<sup>\*</sup> Voids IP54 ingress protection when optional accessories are in use.





### **Power, Features and Convenience. Great communications start here!**

- Output power selectable 5W/2W/0.5W
- 128 programmable channels
- Li-lon battery pack and stand-charger as standard accessories
- Alphanumeric name tags (PC-programmable)
- FM broadcasting 76-108MHz receiver built-in
- Selectable Battery-save parameters
- Busy Channel Lockout
- Voice Compander (Reduce Noise & enhance audio clarity)
- Inversion Scramble(Analog encryption)
- Sub-tone (CTCSS/DCS) Encode/ Decode and DTMF/ANI
- VOX built-in
- Voice prompt in English, Emergency Kill/Stun/Revive, Alarm signal, Various scan modes, Key lock and more at NO extra costs.









Rapid ChargerStand	Battery Pack	
EDC-189	EBP-87 Li-ion 7.4V 1500mAh	
	- · · · · · ·	
AC Adapter	Belt Clip	
EDC-191E	EBC-34	
Whip antenna		

EA-212

Standard accessories declared herein are our factory default and may vary at moment of sales depending on the market and Dealers' sales policy.





### Specifications

### General =

- Frequency coverage : RX: 245~245.9875MHz TX: 245~245.9875MHz
- Mode: 8K50F3E (NFM)
- Memory channels: Max 128 Frequency stability: ±2.5ppm
- Frequency Steps: 12.5, 25, 50KHz
- Operating voltage :7.4V DC ±20%
- Usable temperature range :-20°C to +60°C (-4 ~140°F)
- Charging temperature range : +5~+40°C(+41~104°F)
- Dimensions(Projections not included): 60W x 114H x 37D mm (with battery pack, antenna)
- Weight 220 g (with battery pack, antenna)
- Output power approx:5W / 2W / 0.5W
- Modulation system : Variable reactance FM
- Spurious emissions : Less than -36dBm

### Receiver

- Receive system : Double conversion superheterodyne
- Sensitivity(12dB SINAD) : Less than 0.25μV
- Adjacent Channel Selectivity : More than 65dB
- Intermodulation : More than 70dB
- Spurious Rejection : More than 70dB
- Audio output power : Audio Power Output 1000mW/10%



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0 2 3 4

4 6 6 8

7 8 9 6

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### **Feature comparison chart**

		DJ-A10 DJ-A40 DJ-A35	DJ-A11 DJ-A41 DJ-A36	DJ-100	DJ-A446 DJ-A46	DJ-A245	DR-138 DR-438	DR-638
CTCSS/DCS	encoder	0	0	0	0	0	0	0
C1033/D03	decoder	0	0	0	0	0	0	0
2-Tone	encoder	1	_	0	-	_	0	0
2 10110	decoder	_	_	0	_	_	0	0
5-Tone	encoder	1	_	0	-	_	0	0
3-10He	decoder	_	_	0	_	_	0	0
DTMF au	todial	0	0	0	0	0	0	0
DTMF de	coder	0	0	0	0	0	0	0
Scraml	oler	0	0	0	0	0	only DR-138S	0
FSK Mes	sage	_	_	0	_	_	_	_
Microph	one	_	_	_	_	_	EMS-74	EMS-77
Car-key ON/	OFF port	_	_	_	_	_	0	0

### DR-638



### **Twin Band Mobile Transceiver with Full Duplex Capability**

- VHF/UHF full duplex operation includes V/V and U/U modes.
- 758 memory channels
- H/M/L power output settings-VHF:50W/25W/10W/5W,UHF:40W/25W/10W/5W
- Large 6 character alphanumeric backlit display
- Inversion scrambling
- Internal duplexer single antenna connector
- Removable control head can be remotely mounted or inverted for optimal speaker placement
- Expanded receive range includes AM civil aviation band
- Crossband repeat
- Variable Display color tone
- Illumninated DTMF EMS-77 microphone allows direct VFO frequency entry and remote control of transceiver
- CTCSS,DCS,Tone-Burst Tones,2-tone and 5-tone signaling
- CTCSS Tone and DCS scan
- Variety of scan modes and priority channel monitoring
- TOT, BCLO, Talk Around, Reverse and ANI
- Utility software and cable cloning
- Ignition key activated power on/off feature
- Power supply voltage display
- Theft alarm feature
- Programmable VFO and Memory scan modes

# Power supply DM330FXT 120V DM330FXE 220V EDS-28 Programming cables PC connection ERW-12 EDS-29 EDS-29

### Specifications

Tested to comply MIL-STD-810G -Shock: Method 514.6/I,IV -Vibration: Method 516.6/		
TX : 136~174MHz/400~480MHz RX : 108~180MHz(AM/FM)/220~260MHz, 400~523MHz, 350~399.995MHz(FM)		
758 channels		
25KHz (Wide mode) 20KHz (Middle mode) 12.5KHz (Narrow mode)		
2.5KHz,5KHz,6.25KHz, 10KHz, 12.5KHz,15KHz, 20KHz, 25KHz, 30KHz, 50KHz		
13.8V DC ±15%		
Carrier/CTCSS/DCS/5Tone/2Tone/DTMF		
±2.5ppm		
-20°C~+60°C		
139×40×212 mm or 5.47×1.58×8.35 inches approx.		
1.14kg or 40.21 ounce approx.		

#### Receiver

	Wide mode	Narrow mode	
Sensitivity (12dB Sinad)	≤0.25µV	≤0.35µV	
Adjacent Channel Selectivity	≥70dB	≥60dB	
Intermodulation	≥65dB	≥60dB	
Spurious Rejection	≥70dB	≥70dB	
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)	
Hum & Noise	≥45dB	≥40dB	
Audio distortion	≤5	%	
Audio power output	>2\	W@10%	

### **■**Transmitter

	Wide mode	Narrow mode	
Power Output	50W/25W/10W/5W(VHF) 40W/25W/10W/5W(UHF)		
Modulation	16КФF3Е	11КФF3Е	
Adjacent Channel Power	≥70dB	≥60dB	
Hum & Noise	≥40dB	≥36dB	
Spurious Emission	≥60dB	≥60dB	
Audio Response	+1~-3dB(0.3~3KHz) +1~-3dB(0.3~2.55K		
Audio Distortion	≤5%		

<sup>\*</sup> Periferals like an antenna, mounting hardware, coax cable etc are required



Mobile/Base VHF+UHF FM Transceiver

**DR-638** 

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\*Bracket and DC cable may slightly differ from the original parts.

### [Spare accessories]

ADFM78: Mobile bracket

ADUA38: DC Power Cable (15A Fuse)
EMS-77: Back-Lit microphone with key pad



### DR-138/438

### **BEST VALUE - PROVEN RELIABILITY - FEATURE PACKED!**

- •3 Selectable/Programmable Output Power Levels
- PC-programmable 200ch
- Alphanumeric name tags
- ◆ Voice Compander (Reduce Noise & enhance audio clarity)
- Wide variety of selective calling features are built-in:
   2-Tone, 5-Tone, 50 CTCSS, 114 DCS, 4 Tone-burst tones and DTMF/ANI decode
- Radio stun/kill/revive functions to protect your communications security
- Large, bright LCD and easy-to-operate backlit keys
- Multi-function, backlit microphone enables direct frequency entry & more from keypad
- Various scan modes, Key lock, Wide/Narrow operations and more at NO extra cost!
- Inversion Scramble (DR-138S/DR-438S only)





WODIIE/Base UHF FM Transceiver

**DR-438** 

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### Specifications

<b>■</b> General	Tested to comply MIL-STD-810G -Shock: Method 514.6/I,IV -Vibration: Method 516.6/I		
Frequency Range (MHz)	DR-138 : TX/RX 136.000-173.9975 DR-438 : TX/RX 400.000-469.9975		
Number of Channels	200 channels		
Channel Spacing	25KHz (Wide mode) 20KHz (Middle mode) 12.5KHz (Narrow mode)		
Channel step	2.5KHz,5KHz, 6.25KHz, 8.33KHz, 10KHz, 12.5KHz, 20KHz, 25KHz, 30KHz, 50KHz		
Operating Voltage	13.8V DC ±15%		
Squelch	Carrier/CTCSS/DCS/5Tone/2Tone/DTMF		
Frequency Stability	±2.5ppm		
Operating Temperature	-20°C~+60°C		
Dimensions	145 (W) x 47 (H) x 190 (L)mm approx.		
Weight	approx. 1.2kg		

### Receiver

I Tomas	Wide mode	Narrow mode	
Sensitivity (12dB Sinad)	≤0.25µV	≤0.35µV	
Adjacent Channel Selectivity	≥70dB	≥60dB	
Intermodulation	≥65dB	≥60dB	
Spurious Rejection	≥70dB	≥70dB	
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)	
Hum & Noise	≥45dB	≥40dB	
Audio distortion	≤5%		
Audio power output	>2W@10%		

### **■**Transmitter

	Wide mode	Narrow mode		
Power Output	VHF models 60W /25W/10W, UHF models 45W /25W/10W			
Modulation	16КФF3Е	11КФF3Е		
Adjacent Channel Power	≥70dB	≥60dB		
Hum & Noise	≥40dB	≥36dB		
Spurious Emission	≥60dB	≥60dB		
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)		
Audio Distortion	≤5%			

\*\* Periferals like an antenna, mounting hardware, coax cable etc are required for proper operation.



Shown with standard accessories [Spare accessories]

ADFM78: Mobile bracket

ADUA38: DC Power Cable (15A Fuse)
EMS-74: Back-Lit microphone with key pad









Cigar-plug cable EDC-43 for automatic

PC Programming cable ERW-4C

ERW-7 USB port

### DM-330 FXT/FXE DM-340MVT/MVZ/MW

### **The Next Generation of Communications-Grade Switching Power Supply**

- 30A regulated class highly reliable power supplies
- Noise-Offset circuit to eliminate possible pulse-noises of the switching circuit
- Short circuit protection, current-limiting systems and extreme-temperature protection
- Preset voltage feature
- Cigar-plug socket (Max 10 A), a set of Max 32 A terminals, and 2 sets of snap-in terminals (Max 5 A)
- Dual USB ports (2A max, FXT/FXE only)
- A big, highly visible, back-lit Amp / Volt meter



### DM-330FXT M-330FXE (





### DM-330MVT **DM-330MVE** (6

### **IC-regulated DC Power Supply**

- 30A continuous, 35A max. output with a reliable over-current protection circuit
- Highly visible, accurate Volt and Amp meters
- Multi-speed temperature controlled forced air cooling
- Cigar Socket Output (max. 10A)
- Large 15mm Terminals
- Two pairs of one-touch-connect terminals (max. 6A)
- Power Indicator LED
- Front Panel Voltage Control Knob with center detent set at 13.8 VDC
- The fuse holder is conveniently located on the front panel

**COMMUNICATION-GRADE** LINEAR POWER SUPPLY

### DM-340MVT DM-340MVZ



### Specifications DM-330

#### General I

- [FXT/MVT] : 120V / [FXE/MVE] : 230V
- [MVT] 30A/32A [MVE] 25A/30A [FXT/FXE] 25A/30A
- Output voltage. [MVT/MVE] 5~15V DC variable

[FXT/FXE] Less than 3%

- [FXT/FXE] 9~15V DC variable Output voltage regulation : [MVT/MVE] Less than 2%
- Protection: short-circuit, Automatic current limiting, over temperature
- Ripple
- [MVT/MVE] Less than 15mVp-p at rated load  $\ensuremath{\left[ FXT/FXE \right]}$  Less than  $50mVp\ensuremath{\left. p\ensuremath{\left. -p \right.}}$  at rated load
- Fuse: MVE: 4A/MVT: 8A
- Meter: single Amp/Volt meter (backlit)
- Dimensions
- [MVT] :175(W)  $\times$  67(H)  $\times$  165(D)mm [MVE/FXT/FXE] :190(W)  $\times$  69(H)  $\times$  181(D)mm
- [MVT] : Approx. 2kg [MVE] : Approx. 2.3kg  $[FXT/FXE] \hspace{0.2cm} \hbox{$:$ Approx. 2.5kg with AC cord} \\$
- Usable temperature range : +10∼ +35°C/50∼95° F

### Wall Sockets

DM-330FXT/MVT: Type B/American 3-pin DM-330FXE/MVE: Type C/European 2-pin

### Specifications DM-340

#### General

- AC Input voltage[MVT] : 120V /[MVZ/MW] : 230V
- Output voltage: 13.8V DC (rated) variable 1~15V DC
- Output voltage regulation: Less than 2%
- Protection: Automatic current shut down over 35A Temperature protection circuit (95℃ thermal relay)
- Ripple: Less than 10mVp-p at rated load
- Fuse: MVZ/MW: 8A/MVT: 10A
- Meter: single Amp/Volt meter
- Dimensions & Weight:

MVT/MVZ 235(W)×153(H)×230(D)mm/Approx. 9.4kg MW 240(W)×154(H)×280(D)mm/Approx. 9.6kg

• Usable temperature range:+10~ +35°C/50~95°F

### Wall Sockets

DM-340MVT: Type B/American 3-pin DM-340MVZ: Type CEE7/7/Grounded DM-340MW: Type CEE7/7/Grounded

### DM-340MW 🚜

Standard accessories declared herein are factory default and may vary at moment of sales depending on the market and Dealers' sales policy. Specifications subject to change without notice or obligation. Check your local regulations prior to operating, as an operating license maybe required. Some countries prohibits operating radio devices while driving. Images shown on this brochure may be taken with optional accessories.

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**Authorized Dealer:** 

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\* Projections are not included in the declared dimension values.

\* FCC and CE logos in this brochure mean that these products have been approved under the land mobile category of relative conformity unless otherwise specified.

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Please be sure to read the instruction manual before using the product for your safety.