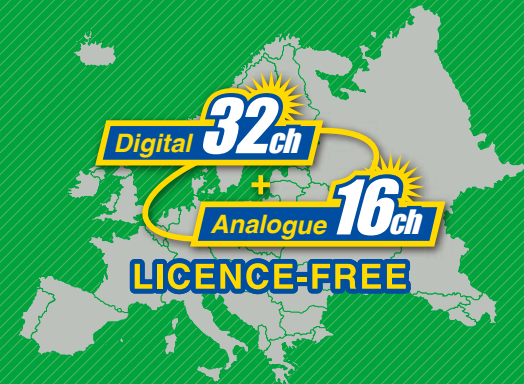# Digital Advantages

The digital PMR446 radio is highly resistant to interference, and provides better audio quality at a greater range compared to analogue PMR446 radios. Even in urban areas, where analogue PMR446 users often experience channel congestion, digital channels offer stable communication suitable for professional use.

Pan-European Licence-Free Communication

Digital **32ch**
+
Analogue **16ch**
LICENCE-FREE

The IC-F29DR2 meets pan-European digital and analogue licence-free standards. Usable digital channels are increased from 16 to 32, and analogue channels are increased from 8 to 16*. The IC-F29DR2 is ideal for organisations and businesses where the workplace is constantly changing such as construction sites and events.

* Increased channels may be restricted, depending on countries.

Options

Headsets

HS-94LWP
Earhook headset with boom microphone and waterproof connector

HS-95LWP
Behind-the-head type with boom microphone and waterproof connector

Earphone microphones

HM-153LA
Lapel type microphone with earphone

HM-166LA
Light weight earphone microphone

Speaker-microphones

HM-168LWP
IP67 waterproof speaker-microphone

HM-158LA
Compact size speaker-microphone

HM-159LA
Full size durable speaker-microphone

Throat microphone

HS-97
+ VS-4LA or OPC-2004LA*
Throat microphone with earphone

* Either VS-4LA or OPC-2004LA is required when using HS-97 headset.
VS-4LA: PTT switch cable for manual PTT operation
OPC-2004LA: Plug adapter cable for VOX hands-free operation
HS-94 and HS-95 also can be used with either VS-4LA or OPC-2004LA.

Battery packs

BP-278　BP-279　BP-280

Battery packs	Type	Capacity	Operating time*
BP-278	Rechargeable Li-ion 7.2 V	1130 mAh (min.) 1190 mAh (typ.)	12 hours (Approx.)
BP-279	Rechargeable Li-ion 7.2 V	1485 mAh (min.) 1570 mAh (typ.)	17 hours (Approx.)
BP-280	Rechargeable Li-ion 7.2 V	2280 mAh (min.) 2400 mAh (typ.)	26 hours (Approx.)

* Tx: Rx: standby = 5：5：90 duty cycle. Power save ON.

Multi-charger

BC-157S

BC-214
Rapidly charges up to six transceivers and/or battery packs at the same time*.
* AD-130 charger adapter is supplied with BC-214.

Charger bracket

MB-130
For use with BC-213.

Power supply cable
OPC-656
For use with BC-214.

Cigarette lighter cable
CP-23L
For use with BC-213.

Programming software
CS-F29DR2
Allows quick and simple setting from a PC.

Programming cable
OPC-478UC: USB cable

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ICOM

Digital **32ch**
+
Analogue **16ch**
LICENCE-FREE

Digital Licence-Free Comms with Professional Level Durability

dPMR™
Digital ™

Rugged
MIL-STD 810

IP67

dPMR™ 446/PMR446 TRANSCEIVER
IC-F29DR2

Events   Construction sites   Security

Compact Waterproof
Digital Transceiver for Professional Users

Digital and Analogue Dual Mode
The IC-F29DR2 can be used in both digital (32 ch) and analogue (16 ch) mode at the same time and can scan both zones at once. This allows an organisation to operate both digital and analogue radios in their fleets.
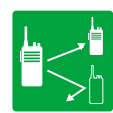
IP67 Waterproof and Dust-tight
The IC-F29DR2 can withstand 1 m depth of water for 30 minutes. This rugged construction provides dust-tight protection making it suitable for outdoor use.

Outstanding Audio Quality
800 mW audio output is provided from the large 36 mm speaker. The IC-F29DR2 can deliver loud and intelligible audio even in noisy environments.

Group Call Communication
Similar to analogue CTCSS and DTCS codes, the digital Common ID also can be used for a group call. These codes and ID can be programmed to the 16 position rotary selector for instant call capability.

VOX for Hands-free Operation
With either optional headset* HS-94LWP or HS-95LWP, built-in VOX function provides convenient hands-free operation. The HS-94LWP/HS-95LWP has a waterproof connector. * HS-94 and HS-95 also can be used with OPC-2004LA.

Voice Announcement Function
When you rotate the rotary selector, the radio announces the selected channel number. The radio also announces the zone number and mode when the zone button is pushed.

12 types of Ring Tone
The Call-Ring function allows you to call your group members with 12 types of ring tone. When you pre-arrange any ring tone for an emergency, the ring tone can be used for an emergency alert.

Other Features
・26 hours operating time with supplied BP-280 ・Channel Set Mode ・Power ON scan ・Tone scan (analogue) ・Nuisance delete ・Answer back call (analogue) ・LED light indicator ・Status Call (RX only) ・PC programmable ・AMBE+2™ dPMR™ standard vocoder

ACTUAL SIZE

dPMR™ 446/PMR446 TRANSCEIVER
IC-F29DR2

Specifications

- Usable channels: 16 ch (PMR 446)   32 ch (dPMR™ 446)
- Output power: 500 mW (ERP)
- Audio output power: Internal speaker   800 mW typical (with 12 Ω load)
  (at 5% distortion)   External speaker 400 mW typical (with 8 Ω load)
- Dimensions :   52.2 (W) × 186.1 (H) × 30.3 (D) mm (with BP-280)
- Weight: 270 g (with MB-133, BP-280)
- Communication range*: Approximately 11km (Wide open space)
- Operating temperature: –25˚C to + 55˚C
- IP rating: IP67 (Dust-tight and waterproof protection)
- Military standard: MIL-STD-810-G

* Communication range may differ depending on operating environment or weather conditions, etc. All stated specifications are subject to change without notice or obligation.

Supplied Accessories   (* May differ depending on version)

Rapid charger
BC-213

AC adapter
BC-123SE/SUK*

Battery pack
BP-280

Belt clip
MB-133