

# INTRINSICALLY SAFE DMR PORTABLE RADIO HP79XEx SERIES ACCESSORIES EMPOWER YOUR OPERATION







# TABLE OF CONTENTS

<b>INTRINSICALLY SAFE RADIO ACCESSORIES</b>	2
<b>Audio</b>	2
Remote Speaker Microphone	2
Large PTT	2
Helmet Heavy Duty Noise-cancelling Headset Kit	3
Bone-Conduction Transducer	3
Throat Vibration Earpiece	3
Swivel Earset	4
Intrinsically Safe Adapter	4
<b>Power</b>	5
Smart Battery	5
Smart Charger & Power Adapter	6
Multi-Unit Charger	6
<b>Antenna</b>	7
<b>Carrying</b>	8
Carrying Case	8
Leather Strap	8
Belt Clip	8
<b>Cable</b>	9



# INTRINSICALLY SAFE RADIO ACCESSORIES

## Audio

### • Remote Speaker Microphone

In harsh environments, talking and hearing clearly are vital. Whether you are in a noisy oil refinery or fighting a fire, you cannot afford to lose seconds struggling to get your message through. The Remote Speaker Microphone has been designed to work in the toughest environments with clear and crisp voice.


- SM26N13P-Ex: ATEX/IECEx/FM-certified SM26N13P-Ex is rugged and designed to provide loud and safe communications in harsh conditions.
- SM24N2P-Ex: IECEx-certified SM24N2P-Ex is rugged and has been extensively tested to provide robust and reliable communications for professionals working in harsh conditions. With dark blue PTT button, it enables effective remote communications with the radio positioned under clothing and when wearing heavy gloves.

ACCESSORY			FEATURES									
DESCRIPTION		PRODUCT MODEL	JACK	360° SWIVEL METAL CLIP	PTT KEY	EMERGENCY KEY	MAX POWER	WEIGHT	IP RATING	OPERATION TEMP	DIMENSIONS (mm)	ANTI-EXPLOSION LEVELS
	Intrinsically Safe Remote Speaker Microphone	SM26N13P-Ex	13-pin connector	●	●	●	2 W	About 168 g	IP67	-25 °C to +60 °C	76.85 x 60.55 x 34	Ex ib I Mb Ex ib IIC T4 Gb Ex ib IIIC T90°C Db
	Intrinsically Safe Remote Speaker Microphone	SM24N2P-Ex	1. QR4 connector 2. 13-pin connector	●	●	●	2 W	About 276 g	IP57	-20 °C to +60 °C	79 x 37 x 115	Ex ib I Mb Ex ib IIC T4 Gb Ex ib IIIC T90°C Db

\* Via the QR4 jack, a Noise-cancelling Helmet Headset POA176-Ex, Bone-conduction Transducer POA34-Ex or Throat Vibration Earpiece POA61-Ex can be attached.

### • Large PTT


The IECEx-certified Large PTT POA63P-Ex is a push-to-talk unit designed for use with two-way radio in demanding environments. It offers easy and reliable communication for professionals requiring durable equipment when operating in harsh conditions, and is ideal for those who need to communicate hands-free and/or with their radio secured underneath protective clothing.

ACCESSORY			FEATURES					
DESCRIPTION		PRODUCT MODEL	JACK	MAX POWER	WEIGHT	IP RATING	OPERATION TEMP	ANTI-EXPLOSION LEVELS
	Intrinsically Safe Large PTT	POA63P-Ex	1. QR4 connector 2. 13-pin connector	/	About 215 g	IP57	-20 °C to +60 °C	Ex ib I Mb Ex ib IICT4 Gb Ex ib IIIC T90°C Db

\* Via the QR4 jack, a Noise-cancelling Helmet Headset POA176-Ex, Bone-conduction Transducer POA34-Ex or Throat Vibration Earpiece POA61-Ex can be attached.

## • Helmet Heavy Duty Noise-cancelling Headset Kit


With a 25 dB noise reduction, the IECEx-certified heavy duty Noise-Cancelling Headset POA176-Ex provides proven ear protection and optimal voice clarity during calls in extreme noise environments. It can be easily mounted into safety helmets for construction and its comfortable sponge ring pad and adjustable headband ensure a customized fit. It is ideal for users working in airport, oil&gas, and more.

ACCESSORY		FEATURES							
DESCRIPTION	PRODUCT MODEL	JACK	RATED POWER	NOISE REDUCTION RATING	WEIGHT	IP RATING	OPERATION TEMP	ANTI-EXPLOSION LEVELS	
 Intrinsically Safe Helmet Heavy Duty Noise-cancelling Headset Kit	POA176-Ex	QR4 connector	200 mW	25 dB	About 373 g	IP54	-20 °C to +60 °C	Ex ib I Mb Ex ib IIC T4 Gb Ex ib IIIC T90°C Db	

\* POA176-Ex should be used with Large PTT POA63P-Ex or Remote Speaker Microphone SM24N2P-Ex.

## • Bone-Conduction Transducer


The IECEx-certified Bone-Conduction Transducer is a compact modular located inside the helmet, which provides a headset with bone-conductive microphone. The unique fastening strap makes it easy to mount into most helmet types on the market. Speech is picked up through the skull. It can remove ambient noise for clearest voice communication even in noisy environments.

ACCESSORY		FEATURES							
DESCRIPTION	PRODUCT MODEL	JACK	RATED POWER	WEIGHT	IP RATING	OPERATION TEMP	ANTI-EXPLOSION LEVELS		
 Bone Conduction Transducer	POA34-Ex	QR4 connector	200 mW (rated)	About 87 g	IP55	-20 °C to +60 °C	Ex ib I Mb Ex ib IIC T4 Gb Ex ib IIIC T130°C Db		

\* POA34-Ex should be used with Large PTT POA63P-Ex or Remote Speaker Microphone SM24N2P-Ex.

## • Throat Vibration Earpiece

The IECEx-certified Throat Vibration Earpiece POA61-Ex is suitable for ex-protection environments in which a protection suit is needed but not helmet and noise-cancelling headset, such as chemical plant and emergency rescue fields.

ACCESSORY		FEATURES							
DESCRIPTION	PRODUCT MODEL	JACK	RATED POWER	WEIGHT	IP RATING	OPERATION TEMP	ANTI-EXPLOSION LEVELS		
 Throat Vibration Kit	POA61-Ex	QR4 connector	200 mW	About 86 g	IP54	-20 °C to +60 °C	Ex ib I Mb Ex ib IIC T4 Gb Ex ib IIIC T90°C Db		


\* POA61-Ex should be used with Large PTT POA63P-Ex or Remote Speaker Microphone SM24N2P-Ex.






### • Swivel Earset

The ATEX/IECEx/FM-certified Swivel Earset EHN38P-Ex is a comfortable-wearing earpiece designed for intrinsically safe radios. It is an economical and practical product for ex-protection situations in which large gloves and helmets are not needed.

ACCESSORY							
DESCRIPTION		PRODUCT MODEL	JACK	RATED POWER	WEIGHT	OPERATION TEMP	ANTI-EXPLOSION LEVELS
	Intrinsically Safe Swivel Earset	EHN38P-Ex	13-pin connector	50 mW	About 52 g	-25 °C to +60 °C	Ex ib I Mb Ex ib IIC T4 Gb Ex ib IIIC T90°C Db

### • Intrinsically Safe Adapter


The IECEx-certified nexus interface cable is used to connect Peltor's intrinsically safe earpieces to Large PTT POA63P-Ex or Remote Speaker Microphone SM24N2P-Ex remote speaker microphone.

ACCESSORY							
DESCRIPTION		PRODUCT MODEL	JACK	RATED POWER	WEIGHT	OPERATION TEMP	ANTI-EXPLOSION LEVELS
	Ex Adapter	POA90-Ex	QR4 connector	50 mW	About 40 g	-20 °C to +60 °C	Ex ib I Mb Ex ib IIC T4 Gb Ex ib IIIC T90°C Db

# Power

- Smart Battery

BL2105-Ex complies with ib IIC Ex standards, and it has been rigorously tested to withstand the most demanding working environments and provide reliable power. It is an anti-counterfeiting and smart battery, which is capable of identifying fake batteries. Users can check the remaining battery and battery status (good/recommend replacing/replace immediately) on the radio to help users manage battery efficiently.







ACCESSORY		FEATURES								ANTI-EXPLOSION LEVELS
DESCRIPTION		PRODUCT MODEL	NOMINAL CAPACITY	BATTERY TYPE	WEIGHT	IP RATING	OPERATION TEMP	DIMENSIONS (mm)	APPLICABLE CHARGER	
	Intrinsically Safe Li-ion Battery	BL2105-Ex	2150 mAh	Li-ion	About 153 g	IP68	0°C to +45°C (charge) -20°C to +60°C (discharge)	117.5 x 55.0 x 16.7	CH10L33, MCL41*	Ex ib I Mb Ex ib IIC T4 Gb Ex ib IIIC T90°C Db

\* For future release.



## • Smart Charger & Power Adapter



The CH10L33 is a smart charger specially developed for Hytera's new generation of intrinsically safe radios. It meets the design requirements for the safety protection of related equipment used in non-hazardous areas in the IEC60079 series of intrinsically safe standards and has passed certification audits to ensure that intrinsically safe radios are charged and safe to use.

ACCESSORY			FEATURES				
DESCRIPTION		PRODUCT MODEL	SUPPORTED BATTERY	INPUT	OUTPUT	DIMENSIONS (MM)	NUMBER OF POCKETS
	Smart Charger	CH10L33	Li-ion battery	12 V DC/ 0.8 A	/	77.4 x 77.1 x 46.0	1
	Power Adapter (US standard)	PS1014	/	100—240 V AC	12 V DC/ 1 A	/	/
	Power Adapter (UK standard)	PS1016	/	100—240 V AC	12 V DC/ 1 A	/	/
	Power Adapter (AU standard)	PS1017	/	100—240 V AC	12 V DC/ 1 A	/	/
	Power Adapter (EU standard)	PS1018	/	100—240 V AC	12 V DC/ 1 A	/	/
	Power Adapter (KR standard)	PS1025	/	100—240 V AC	12 V DC/ 1 A	/	/

\* Users can select power adapters of different standards according to the requirements of different places.

## • Multi-Unit Charger

The MCL41\* is a six-unit charger specially developed for Hytera's new generation of intrinsically safe radios. It meets the design requirements for the safety protection of related equipment used in non-hazardous areas in the IEC60079 series of intrinsically safe standards and has passed certification audits to ensure that intrinsically safe radios are charged and safe to use.



ACCESSORY			FEATURES				
DESCRIPTION		PRODUCT MODEL	SUPPORTED BATTERY	INPUT	WEIGHT	DIMENSIONS (MM)	NUMBER OF POCKETS
	Six-Unit Charger	MCL41*	Li-ion battery	12 V DC 15 A	About 1230 g	564.9 x 118.1 x 64.4	6
	Wall Mounting Bracket Kit (Install MCL41 on the wall)	BRK20	/	/	About 715 g	460 x 110 x 60	/

\* For future release.



# Antenna

The Antenna can help the radio receive and transmit signals more accurately and effectively.

ACCESSORY			FEATURES					
DESCRIPTION		PRODUCT MODEL	TYPE	FREQUENCY	GPS/ GLONASS	LOGO	LENGTH (CM)	CONNECTOR TYPE
	VHF thick and long antenna 136-147MHz/1575MHz	AN0141H09	Thick and long	136-147 MHZ / 1575 MHz	●	Hytera	17	SMA
	VHF thick and long antenna 136-147MHz/1575MHz	AN0141H10	Thick and long	380-430 MHz / 1575 MHz	●	None	17	SMA
	VHF Stout and long antenna 136-147 MHz/1575 MHz	AN0141H11	Stout and long	136-147 MHZ / 1575 MHz	●	Hytera	17	SMA
	VHF Stout and long antenna 136-147 MHz/1575 MHz	AN0141H12	Stout and long	136-147 MHZ / 1575 MHz	●	None	17	SMA
	VHF thick and long antenna 147-160MHz/1575MHz	AN0153H10	Thick and long	147-160 MHZ / 1575 MHz	●	Hytera	17	SMA
	VHF thick and long antenna 147-160MHz/1575MHz	AN0153H11	Thick and long	147-160 MHZ / 1575 MHz	●	None	17	SMA
	VHF Stout and long antenna 147-160 MHz/1575 MHz	AN0153H12	Stout and long	147-160 MHZ / 1575 MHz	●	Hytera	17	SMA
	VHF Stout and long antenna 147-160 MHz/1575 MHz	AN0153H13	Stout and long	147-160 MHZ / 1575 MHz	●	None	17	SMA
	VHF Stout and long antenna 147-160 MHz/1575 MHz	AN0155H08	Stout and long	136-174 MHZ / 1575 MHZ	●	Hytera	20	SMA
	VHF Stout and long antenna 147-160 MHz/1575 MHz	AN0155H09	Stout and long	136-174 MHZ / 1575 MHZ	●	None	20	SMA
	VHF thick and long antenna 136-174MHz/1575MHz	AN0155H17	Thick and long	136-174 MHZ / 1575 MHZ	●	Hytera	20	SMA
	VHF thick and long antenna 136-174MHz/1575MHz	AN0155H18	Thick and long	136-174 MHZ / 1575 MHZ	●	None	20	SMA
	VHF thick and long antenna 160-174MHz/1575MHz	AN0167H09	Thick and long	160-174 MHZ / 1575 MHZ	●	Hytera	17	SMA
	VHF thick and long antenna 160-174MHz/1575MHz	AN0167H10	Thick and long	160-174 MHZ / 1575 MHZ	●	None	17	SMA
	VHF Stout and long antenna 160-174 MHz/1575 MHz	AN0167H11	Stout and long	160-174 MHZ / 1575 MHZ	●	Hytera	17	SMA
	VHF Stout and long antenna 160-174 MHz/1575 MHz	AN0167H12	Stout and long	160-174 MHZ / 1575 MHZ	●	None	17	SMA
	UHF Stubby antenna 400-470MHz/1575MHz	AN0435H15	Stubby	400-470 MHZ / 1575 MHZ	●	Hytera	9	SMA
	UHF Stubby antenna 400-470MHz/1575MHz	AN0435H16	Stubby	400-470 MHZ / 1575 MHZ	●	None	9	SMA
	UHF Stubby antenna 400-470MHz/1575MHz	AN0435H21	Stubby	400-470 MHZ / 1575 MHZ	●	Hytera	9	SMA
	UHF Stubby antenna 400-470MHz/1575MHz	AN0435H22	Stubby	400-470 MHZ / 1575 MHZ	●	None	9	SMA
	UHF Stubby antenna 450-520MHz/1575MHz	AN0485H10	Stubby	450-520 MHZ / 1575 MHz	●	Hytera	9	SMA
	UHF Stubby antenna 450-520MHz/1575MHz	AN0485H11	Stubby	450-520 MHZ / 1575 MHz	●	None	9	SMA
	UHF Stubby antenna 450-520MHz/1575MHz	AN0485H15	Stubby	450-520 MHZ / 1575 MHz	●	Hytera	9	SMA
	UHF Stubby antenna 450-520MHz/1575MHz	AN0485H16	Stubby	450-520 MHZ / 1575 MHz	●	None	9	SMA

# Carrying


## • Carrying Case

Made of leather, the Carrying Case protects the radio against scrape or scratch even on the move, especially in potentially explosive environments. Moreover, the case is easy to carry and flexible to wear.

ACCESSORY		FEATURES			
DESCRIPTION		PRODUCT MODEL	DESIGNED WITH DISPLAY	DIMENSIONS (MM)	MATERIAL
	Intrinsically Safe Leather Carrying Case	LCY028	●	145 x 70 x 65	Black lychee bark


## • Leather Strap

The Leather Strap allows the radio to be easily worn and used by hand.

ACCESSORY		FEATURES	
DESCRIPTION		PRODUCT MODEL	DIMENSIONS (MM)
	Leather Hand Strap	R004	25


## • Belt Clip

The Belt Clip secures the radio in place on the belt, freeing up users' hands to do more tasks.

ACCESSORY		FEATURES		
DESCRIPTION		PRODUCT MODEL	DIMENSIONS (MM)	MATERIAL
	Spring Belt Clip	BC39	92 x 30	Plastic belt clamp, metal elastic support

• **Cable**

The cable is plug and play ready, making it easy to connect the radio to the computer for radio programming or upgrading.

ACCESSORY		FEATURES	
DESCRIPTION		PRODUCT MODEL	CONNECTOR TYPE
	Programming Data Cable (USB to 13-pin Connector)	PC152	USB A to 13-pin connector







## Hytera Communications Corporation Limited

**Stock Code:** 002583.SZ

**Address:** Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,  
Nanshan District, Shenzhen, P.R.C

**Tel:** +86-755-2697 2999 **Fax:** +86-755-8613 7139 **Post:** 518057

**Https://www.hytera.com** **marketing@hytera.com**



Hytera retains right to change the product design and specification. Should any printing mistake occur, Hytera doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

**HYT**, Hytera are registered trademarks of Hytera Communications Corp., Ltd.  
©2024 Hytera Communications Corp., Ltd. All Rights Reserved.