



# U9000 & U8000 SERIES

UHF WIRELESS MICROPHONE SYSTEM



**U9000 SERIES**



**U8000 SERIES**

ENG / DATA SHEET

MADE IN TAIWAN

# U9000 & U8000 SERIES

UHF WIRELESS MICRIPHONE SYSTEM

**Designed to bring  
you new versatility.**

## DESCRIPTION

The **U9000 system** is our newest generation of quad multi-channel wireless technology, designed for professional applications and anybody requiring high performances in minimum space with scalability, reliability and easy to install. New **8000 system**, available in a single or dual channels version, is made to make your business life easier without forget performances and reliability.

## U9000 DEVICES AND FEATURES

### DRU9004

4-Channel Diversity UHF PLL Wideband Receiver

- Bandwidth: 36 MHz;
- 6 groups, each with up to 22 compatible preset channels;
- RF output and mains voltage output for easily cascading up to 10 receivers without additional splitter;
- REMOSET technology for receiver/transmitter synchronisation;
- Auto-scan function;
- Pilot tone squelch and noise mute;
- Backlit display for indicating the status;
- Switchable mic/line for single outputs and mixed outputs;
- Power supply for optional antenna booster;
- 19" rack installation, 1 RU.



### THU9000

UHF PLL Hand-held Transmitter

- Condenser microphone cartridge (cardioid polar pattern);
- Bandwidth: 36 MHz;
- 6 groups, each with up to 22 compatible preset channels;
- REMOSET technology for receiver/transmitter synchronisation;
- Adjustable sensitivity ( $\pm 15$  dB);
- Lock function/mute function;
- 4-level display for indicating battery status and low battery alert, backlit LCD;
- Switchable transmitting power.



### TBU9000

UHF PLL Body-pack Transmitter

- Suitable for combination with microphones with 4-pole mini XLR connector;
- Bandwidth: 36 MHz;
- 6 groups, each with up to 22 compatible preset channels;
- REMOSET technology for receiver/transmitter synchronisation;
- Adjustable sensitivity ( $\pm 15$  dB);
- Lock function;
- 6-level display for indicating battery status and low battery alert, backlit LCD;
- Switchable transmitting power.



## U8000 DEVICES AND FEATURES

### DRU8002

#### 2-Channel Diversity UHF PLL Wideband Receiver

- Bandwidth: 36 MHz;
- 6 groups, each with up to 22 compatible preset channels;
- Removable antennas (BNC connection);
- REMOSET technology for receiver/transmitter synchronisation;
- Auto-scan function;
- Pilot tone squelch and noise mute;
- Backlit display with status indications, e.g. group/channel, frequency, battery, antenna A/B, RF receiving level, AF audio level;
- 2 x XLR output (bal.) and 2 x 6.3 mm jack output (unbal.);
- Power supply for optional antenna booster.



### DRU8001

#### Single Channel Diversity UHF PLL Wideband Receiver

- Bandwidth: 36 MHz;
- 6 groups, each with up to 22 compatible preset channels;
- Removable antennas (BNC connection);
- REMOSET technology for receiver/transmitter synchronisation;
- Auto-scan function;
- Pilot tone squelch and noise mute;
- Backlit display with status indications, e.g. group/channel, antenna A/B, RF receiving level, AF audio level;
- XLR output (bal.) and 6.3 mm jack output (unbal.);
- Power supply for optional antenna booster.

### THU8000

#### UHF PLL Hand-held Transmitter

- Dynamic microphone cartridge (cardioid polar pattern);
- Bandwidth: 36 MHz;
- 6 groups, each with up to 22 compatible preset channels;
- REMOSET technology for receiver/transmitter synchronization;
- Sensitivity adjustment ( $\pm 15$  dB) and transmitting power (10/50 mW) can be configured via receiver;
- Mute function;
- Special design to reduce handling noise, structure-borne noise and acoustic feedback;
- Low battery alert.



### TBU8000

#### UHF PLL Body-pack Transmitter

- Suitable for combination with microphones with 4-pole mini XLR connector;
- Bandwidth: 36 MHz;
- 6 groups, each with up to 22 compatible preset channels;
- REMOSET technology for receiver/transmitter synchronization;
- Sensitivity ( $\pm 15$  dB), additional 20 dB attenuation and transmitting power (10/50 mW) can be configured via receiverLock function;
- Mute function;
- Low battery alert.



## ACCESSORIES

### CM-501

#### Electret lavalier microphone

- Cardioid polar pattern, suitable for educational and conference applications;
- Supplied with clip for easy attaching to a tie, lapel, dress etc.;
- Supplied with windshield;
- 4P Mini XLR connector.

### CX-504

#### Electret stage headset microphone

- Cardioid polar pattern;
- Ergonomic design ensures comfortable wearing;
- Supplied with windshield;
- 4P Mini XLR connector.

### ABU9000

#### Antenna booster

- Power supply via DRU9000/ DRU8000 receivers;
- DC feed-through output for cascading up to 2 ABU9000;
- Antenna excluded;
- Can be mounted on-wall or onto microphone stand with 16 mm ( $\frac{5}{8}$ " ) thread.

### CM-501

#### MICROPHONE SPEC.

Type	Cardioid - Electret
Frequency response	100~ 15,000Hz
Sensitivity( 1KHz)	-60±3 dB
Max. SPL for 1% THD	130dB
Impedance	2.2K $\Omega$

#### CONNECTOR

Type	4-pin mini XLR
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#### GENERAL

Operating Temperature	0°C to +40°C
Net Dimensions (WxH)	Ø10.1 x 26.4mm
Net Weight	21,5g

### CX-504

#### MICROPHONE SPEC.

Type	Cardioid - Electret
Frequency response	30~ 18,000Hz
Sensitivity( 1KHz)	-68±3 dB
Max. SPL for 1% THD	130dB
Impedance	680 $\Omega$

#### CONNECTOR

Type	4-pin mini XLR
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#### GENERAL

Operating Temperature	0°C to +40°C
Net Dimensions (WxHxD)	285 x 55 x 111.3mm
Net Weight	56,3g

### ABU9000

#### GENERAL

Frequency range	470~ 960MHz
Antenna gain	10dB ( +/-2dB )
Coverage angle	360 degree
Operation voltage	DC 8-12 V
Support	Wall bracket or 16 mm ( $\frac{5}{8}$ " ) stand ( excluded )
Net Dimensions (WxHxD)	75 x 18.2 x 77mm
Net Weight	136g

**TECHNICAL SPECIFICATIONS – Wideband Receiver**

MODEL	DRU9000	DRU8002	DRU8001
System	Diversity UHF PLL wideband receiver	Diversity UHF PLL wideband receiver	Diversity UHF PLL wideband receiver
Frequency range	470~ 694MHz	470~ 694MHz	470~ 694MHz
No. of channels	4	2	1

**AUDIO SPECIFICATIONS**

Frequency Response	50-18.000Hz ± 2dB	50-16.000Hz ± 2dB	50-16.000Hz ± 2dB
THD	<0.5%@1KHz	<0.6%@1KHz	<0.6%@1KHz
Mirror rejection ratio	>80 dB	>80 dB	>80 dB
S/N	>106dB(A)	>105dB(A)	>105dB(A)
Sensitivity	-95dBm, S/N>80dB	-95dBm, S/N>80dB	-95dBm, S/N>80dB
Audio Output Level	Ref: ±22.5KHz Dev@1KHz ToneØ6.3 Phone Jack: -10dBVXLR Jack: -4dB- V(Line), -24dBV(MIC)	Ref: ±22.5KHz Dev@1KHz ToneØ6.3 Phone Jack: -10dBVXLR Jack: -4dB- V(Line), -24dBV(MIC)	Ref: ±22.5KHz Dev@1KHz ToneØ6.3 Phone Jack: -10dBVXLR Jack: -4dB- V(Line), -24dBV(MIC)
Audio Output Impedance	600Ω	600Ω	600Ω

**INPUTS / OUTPUTS**

Audio Outputs	5 balance XLR ports, 1 unbalance Ø6.3mm jack	2 balance XLR ports, 2 unbalance Ø6.3mm jack	1 balance XLR ports, 1 unbalance Ø6.3mm jack
Antenna IN/OUT	IN: 2x BNC ( + DC12V/100mA ); OUT: 2x BNC	2x BNC ( + DC12V/100mA )	2x BNC ( + DC12V/100mA )
FUNCTIONs	Group, channels, frequency, transmit- ter power, antenna A/B,mute, AF, RF, channel scan, output level, volume, Device ID	Group, channel, frequency, battery level, antenna A/B, muting level, AF indication, RF indication, channel scanning, output level attenuation, volume indication	Group, channel, frequency, battery level, antenna A/B, muting level, AF indication, RF indication, channel scanning, output level attenuation, volume indication
CONTROLS	Power ON/OFF, groups, channels, frequency, receivingsensitivity, key lock, volume, output attenuation (XL- R),channel scan (ON/OFF), antenna power, display setting	Power, group, channel, frequency, muting level, button lock, volume, output attenuation (XLR), channel scan (on/off)	Power, group, channel, frequency, muting level, button lock, volume, output attenuation (XLR), channel scan (on/off)

**GENERAL**

Power Supply	AC 110-240V, 50/60Hz	DC IN : 12-15V/500mA	DC IN : 12-15V/500mA
Operating Temperature	0°C to +40°C	0°C to +40°C	0°C to +40°C
Colour	Black	Black	Black
Net Dimensions (WxHxD)	485mm x 44mm x 230mm	212.3mm x 38.3mm x 144mm	212.3mm x 38.3mm x 144mm
Mounting	Stand-alone, 19"rack	Stand-alone	Stand-alone
Net Weight	2.65 kg	508g	457g

**TECHNICAL SPECIFICATIONS – Hand-held Transmitter**

MODEL	THU9000	THU8000
System	Diversity UHF PLL wideband transmitter	Diversity UHF PLL wideband transmitter
Frequency range	470~ 694MHz	470~ 694MHz
RF Transmitting power	10/50 mW	10/50 mW
RF Stability	<±10KHz@Fc	<±10KHz@Fc
Frequency Deviation	±48KHz (Peak)	±48KHz (Peak)
Spurious Emissions	<-50dBc	<-50dBc

**AUDIO SPECIFICATIONS**

Frequency response (+/- 3dB )	50-18,000 Hz	60-15,000 Hz
FUNCTIONs	Group, channels, frequency, mute, auto off, inputlevel attenuation, sensitivity adjustment, powerindication, Device ID	Mute, Auto Power Off, Sensitivity Adjust, Low Battery
CONTROLS	Power, mute, groups, channels, frequency,sensitivity adjustment, input level attenuation,auto off, transmission power, key lock	Power, Mute

**MICROPHONE SPECIFICATIONS**

Type	Condenser - cardioid polar pattern	Dynamic- cardioid polar pattern
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**GENERAL**

Power Supply	UM3, AA x 2	UM3, AA x 2
Operating Time	≈ 20 h	≈ 30 h
Operating Temperature	0°C to +40°C	0°C to +40°C
Colour	Black	Black
Chassis	Aluminium alloy	Plastic
Net Dimensions	Ø 50 mm x 253 mm	Ø 51 mm x 269 mm
Net Weight	260g	235g

**TECHNICAL SPECIFICATIONS – Body-pack Transmitter**

MODEL	TBU9000	TBU8000
System	Diversity UHF PLL wideband transmitter	Diversity UHF PLL wideband transmitter
Frequency range	470~ 694MHz	470~ 694MHz
RF Transmitting power	10/50 mW	10/50 mW
RF Stability	<±10KHz@Fc	<±10KHz@Fc
Frequency Deviation	±48KHz (Peak)	±48KHz (Peak)
Spurious Emissions	<-50dBc	<-50dBc

**AUDIO SPECIFICATIONS**

Frequency response (+/- 3dB )	50-18,000 Hz	60-15,000 Hz
FUNCTIONs	Group, channels, frequency, mute, auto off, input levelattenuation, sensitivity adjustment, power indication,- Device ID	Mute, Auto Power Off, Sensitivity Adjust, Low Battery
CONTROLs	Power, mute, groups, channels, frequency, sensitivityadjustment, input level attenuation, auto off, transmissionpower, key lock	Power, Mute

**INPUT CONNECTOR**

Type	4-pin mini XLR	4-pin mini XLR
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**GENERAL**

Power Supply	UM3, AA x 2	UM3, AA x 2
Operating Time	≈ 20 h	≈ 30 h
Operating Temperature	0°C to +40°C	0°C to +40°C
Colour	Black	Black
Chassis	Plastic	Plastic
Net Dimensions (WxHxD)	62.3mm x 97.5mm x 20mm	62mm x 97mm x 20mm
Net Weight	75g	235g



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