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# Professional Wideband True Diversity System

Deploying JTS advanced wireless technology together with the most sophisticated components can be found in the industry the UF-Series provides revolutionary features.

The JTS wideband auto frequency tracking technology provides up to 75 MHz bandwidth with 3000 selectable frequencies. Preset 15 groups each of up to 63 interference-free compatible channels per band while 6 groups each of 64 user-programmable channels are also available.

There true diversity system assures operation distance from 200 to 480 meters depending on your local regulation.

JTS LCX circuit design technology together with SAM-8LN capsule minimize companding noise and make UF-20 ideal for large venue.

The world's first JTS patterned "REMOSSET" function allows automatic remote control frequency settings of the transmitter from the receiver.



# Professional Wideband True Diversity System



## Multiple Alert Functions

- \* RF "NO SIGNAL" alert function.
- \* AF "MUTE" alert function.
- \* Transmitter "LOW BATTERY" alert function.



## 2nd Generation REMOSET

The REMOSET<sup>®</sup> now sends not only the frequency data but also transmitter's RF power, sensitivity, low cut / key lock and user's name.



## Power/Antenna Cascading Output Provided

Both power and antenna output can be cascaded for easier installation. (at least 10 unit can be cascaded)



## Interchangeable Capsule Module

JTS newest development SAM-8WLN capsule assures outstanding acoustic performance while minimizes touching noise. Interchangeable capsule design for various choices including some classic capsule modules.



MA-935

## Low Cut Function

Prevent from low frequency pop noise and wind noise.



## Low Battery Alert

Remind the user to change the battery when the battery level gets too low.



## Sliding Cover Design

To prevent the user from touching the setting key unintentionally.



## Mute Alert

Remind the user that microphone is in mute mode.



## Rechargeable

It is designed with slot-in charging feature with two AA NiMH rechargeable batteries.



## UF-20R

Dual Channel Wideband True Diversity Receiver

- \* UHF True diversity technology renders 200-480 meters of operation distance
- \* Maximum 2400 to 3000 selectable frequencies across 60 to 75 MHz
- \* Preset 15 groups each of up to 63 compatible channels
- \* User programmable 6 groups each of 64 channels
- \* Free space scan function
- \* JTS Patented obstacle-free RF **REMOSET** function synchronizes a transmitter by pushing a button
- \* JTS LCX circuit design technology minimizes Companding noise

### NEWEST FEATURE:

- \* The **REMOSET** is now not only sends the frequency data but also transmitter's RF power, sensitivity, low cut, key lock and user's name.
- \* RF "NO SIGNAL" alert function.
- \* AF "MUTE" alert function.
- \* Transmitter "LOW BATTERY" alert function.
- \* Built in equalizer
- \* Power / Antenna cascading output provided.

**Frequency Preparation:** PLL Synthesized Control  
**Carrier Frequency Range:** UHF 470~960MHz  
**RF REMOSET**

**Carrier Frequency Range:** UHF 470~960MHz  
**Channel:** Dual  
**Bandwidth:** 60~75MHz Wideband  
**S/N Ratio:** >108dB(A)  
**T.H.D.:** <0.5%@1KHz  
**Chassis:** 1U standard metal chassis  
**Preset Channels / Group:**

\*From group 1 ~ 15 up to 63 interference-free compatible channels.

\*844 preset channels/group and 3000 selectable frequencies across 60 to 75 Hz Bandwidth.

\*User programmable from U1 ~ U6 each of 64 channels reserved.

**Display:** LCD

**Display Contents:** Group, Channel, Frequency, Antenna A/B, RF/AF Level Meter, Mute Display, Transmitter Battery Status, REMOSET ID Number, User Name, Squelch

**Sensitivity:** 6dBµV, at S/N>80dB

**Receiving Mode:** True diversity

**Audio Output Level:** Maximum 6dBu

**AF Output Impedance:** 600Ω

**Frequency Response:** 50Hz~18kHz, with high-pass filter

**Squelch:** Pilot Tone & Noise Mute

**Power Supply:** 100~240V or 12V DC

**Output Connector:** 2 XLR Balanced Socket / 2 Ø6.3mm Balanced phone jack

**Dimension(mm):**

480mm(W)x45Mmm(H)x260mm(D)

**Notes:** Actual product specifications may vary depending on model and region.



UF-20R

UF-20TB



JSS-20

## JSS-20

Professional Wideband Handheld Transmitter

- \* 2400 to 3000 selectable frequencies
- \* Preset 15 groups each of up to 63 compatible channels
- \* Phase-Locked Loop (PLL) synthesized tune
- \* Adjustable transmission power between Low and High

### NEWEST FEATURE:

- \* Low cut function.
- \* JTS newest development SAM-8WLN capsule assures outstanding acoustic performance while minimizes touching noise.
- \* Interchangeable capsule design for various choices including some classic capsule modules.
- \* It is designed with slot-in charging feature with two AA NiMH rechargeable batteries.

**Frequency Preparation:** PLL Synthesized Control  
**Carrier Frequency Range:** UHF 470~960 MHz  
**Bandwidth:** 60~75MHz Wideband

**RF Outputs:** Low / High

**Stability:** <±10KHz

**Frequency Deviation:** ±48KHz (Peak)

**LCD Display:** Group, Channel, Frequency, Battery Status, User Name, GAIN Adjust

**Controls:** Power ON/OFF, AF Level, Frequency (Up/Down), Lock-on Mode, REMOSET ID Pairing, RF Output Adjust

**Spurious Emissions:** <-50 dBC

**Audio Frequency Response:** 50Hz~18k Hz

**Capsule Module:** Interchangeable

**Battery:** AA NiMH x2

**Dimensions:** 50mm(W)x253mm(H)x35.5mm(D)

**Weight:** 350g

**Notes:** Actual product specifications may vary depending on model and region.

## UF-20TB

Professional Wideband Body-pack Transmitter

- \* 2400 to 3000 selectable frequencies
- \* Preset 15 groups each of up to 63 compatible channels
- \* Phase-Locked Loop (PLL) synthesized tune
- \* Extended dynamic range and smooth frequency response.
- \* Adjustable transmission power between Low and High
- \* The panel Lock-On function prevents tampering and RF interruption
- \* Together with JTS various music instrument mics, headset mics and tie clip mics this bodypack is versatile for all applications.

### NEWEST FEATURE:

- \* It is designed with slot-in charging feature with two AA NiMH rechargeable batteries.

**Frequency Preparation:** PLL Synthesized Control  
**Carrier Frequency Range:** UHF 470~960 MHz  
**Bandwidth:** 60~75MHz Wideband

**RF Outputs:** Low / High

**Stability:** <±10KHz

**Frequency Deviation:** ±48KHz (Peak)

**Chassis:** Aluminium alloy

**LCD Display:** Group, Channel, Frequency, Battery Status, User Name, GAIN Adjust

**Controls:** Power ON/OFF, AF Level, Frequency (Up/Down), Lock-on Mode, REMOSET ID Pairing, RF Output Adjust

**Output Connector:** 4P Mini XLR

**Spurious Emissions:** <-50 dBC

**Audio Frequency Response:** 50Hz~18k Hz

**Battery:** AA NiMH x2

**Dimensions:** 62mm(W)x80.3mm(H)x22.6mm(D)

**Weight:** 93g

**Notes:** Actual product specifications may vary depending on model and region.

## UF-20S 2015 NEW

Single Channel Wideband True Diversity Receiver

- \* UHF True diversity technology renders 200-480 meters of operation distance
- \* Maximum 2400 to 3000 selectable frequencies across 60 to 75 MHz
- \* Preset 15 groups each of up to 63 compatible channels
- \* User programmable 6 groups each of 64 channels
- \* Free space scan function
- \* JTS Patented obstacle-free RF **REMOSET** function synchronizes a transmitter by pushing a button
- \* JTS LCX circuit design technology minimizes Companding noise

### NEWEST FEATURE:

- \* The **REMOSET** is now not only sends the frequency data but also transmitter's RF power, sensitivity, low cut, key lock and user's name.
- \* RF "NO SIGNAL" alert function.
- \* AF "MUTE" alert function.
- \* Transmitter "LOW BATTERY" alert function.
- \* Built in equalizer

**Frequency Preparation:** PLL Synthesized Control  
**Carrier Frequency Range:** UHF 470~960MHz  
**RF REMOSET**

**Channel:** Single

**Bandwidth:** 60~75MHz Wideband

**S/N Ratio:** >108dB(A)

**T.H.D.:** <0.5%@1KHz

**Chassis:** 1/2U standard metal chassis

**Preset Channels / Group:**

\*From group 1 ~ 15 up to 63 interference-free compatible channels.

\*844 preset channels/group and 3000 selectable frequencies across 60 to 75 Hz Bandwidth.

\*User programmable from U1 ~ U6 each of 64 channels reserved.

**Display:** LCD

**Display Contents:** Group, Channel, Frequency, Antenna A/B, RF/AF Level Meter, Mute Display, Transmitter Battery Status, REMOSET ID Number, User Name, Squelch

**Sensitivity:** 6dBµV, at S/N>80dB

**Receiving Mode:** True diversity

**Audio Output Level:** Maximum 6dBu

**AF Output Impedance:** 600Ω

**Frequency Response:** 50Hz~18kHz, with high-pass filter

**Squelch:** Pilot Tone & Noise Mute

**Power Supply:** 100~240V or 12V DC

**Output Connector:** 1 XLR Balanced Socket / 1 Ø6.3mm Balanced phone jack

**Dimension(mm):** 212mm(W)x44Mmm(H)x 213.9mm(D)

**Notes:** Actual product specifications may vary depending on model and region.

## JSS-20

Professional Wideband Handheld Transmitter

## UF-20TB

Professional Wideband Body-pack Transmitter



UF-20S System

## CH-2

CHARGER For JSS-20 & UF-20TB & PS-20

**Input:** AC 100~240V, 0.4A max  
**Output:** DC 12V, 1A

### LED Indicator

**Full Charged / Standby:** Green  
**Charging:** Flash Green  
**Fault:** Flash Red

**Charging Time:** 3 hours

## CH-8

CHARGER For JSS-20 & UF-20TB & PS-20

**Input:** AC 100~240V, 1.2A max  
**Output:** DC 15V, 3A

### LED Indicator

**Full Charged / Standby:** Green  
**Charging:** Flash Green  
**Fault:** Flash Red

**Charging Time:** 3 hours

## PS-20

battery pack for JSS-20 and UF-20TB



CH-2

CH-8

PS-20

## UF-10R

### Single Channel Wideband True Diversity Receiver

- \* UHF PLL True Diversity System renders 200 to 480 meters of operation distance
- \* Maximum 2400 to 3000 selectable frequencies across 60~75 MHz
- \* 12 groups each of up to 63 compatible channels
- \* User programmable 6 groups each of 64 channels reserved
- \* Free space scan function
- \* JTS patented obstacles-free RF **REMOSET** function synchronizes a transmitter by pushing a button.
- \* Adjustable squelch level
- \* JTS LCX circuit design technology minimizes Companding noise
- \* Antenna boost power provided for various external antenna installation

**Frequency Preparation:** PLL Synthesized Control  
**Frequency Setting:** JTS patented obstacles-free RF REMOSET

**Carrier Frequency Range:** UHF 470~960MHz  
**Channel:** Single

**Bandwidth:** 75MHz Wideband

**S/N Ratio:** >108dB(A)

**T.H.D.:** <0.5%@1KHz

**Chassis:** 1/2U standard metal chassis

**Preset Channels / Group:**

\*From group 1 ~ 12 up to 63 interferencefree compatible channels.

\*690 preset channels/group and 3000 selectable frequencies across 75 Hz Bandwidth.

\*User programmable from U1 ~ U6 each of 64 channels reserved.

**Display:** LCD

**Display Contents:** Group, Channel, Frequency, Antenna A/B, RF/AF Level Meter, Mute Display, Transmitter Battery Status, REMOSET ID Number, User Name, Squelch

**Sensitivity:** 6dBµV, at S/N>80dB

**Receiving Mode:** True diversity

**Audio Output Level:** Mic Level at XLR: -4 dBµ

Line level at XLR: +6 dBµ

Line level at Ø6.3mm phone jack: +6 dBµ

**AF Output Impedance:** 600Ω

**Frequency Response:** 50Hz~18kHz

**Squelch:** Pilot Tone & Noise Mute

**Power Supply:** 12V DC

**Output Connector:** 1 XLR Balanced Socket

1 Ø6.3mm balanced phone jack

**Dimension(mm):**

212mm(W) 44Mmm(H) 213.9mm(D)

**Weight:** 2.6kg / 5.7lbs

**Notes:** Actual product specifications may vary depending on model and region.

## UF-10TH

### UHF PLL Handheld Transmitter

- \* 2400 to 3000 selectable channels.
- \* Phase-Locked Loop (PLL) synthesized tuner.
- \* Extended dynamic range and smooth frequency response.
- \* Tone-key squelch.
- \* Interchangeable capsule module for either condenser or dynamic capsule.
- \* Internal antenna design.
- \* The "lock-on" function prevents tampering and RF interruption.
- \* Adjustable transmission power between Low and High
- \* extremely low touch noise

**Frequency Preparation:** PLL Synthesized Control  
**Carrier Frequency Range:** UHF 470~960 MHz

**Bandwidth:** 75MHz Wideband

**RF Outputs:** Low / High

**Stability:** <±10KHz

**Frequency Deviation:** ±48KHz (Peak)

**LCD Display:** Group, Channel, Frequency, Battery

Status, User Name, GAIN Adjust

**Controls:** Power ON/OFF, AF Level, Frequency

(Up/Down), Lock-on Mode, REMOSET ID

Pairing, RF Output Adjust

**Spurious Emissions:** <-50 dBC

**Audio Frequency Response:** 50Hz~18k Hz

**Capsule Module:** Interchangeable

**Battery:** UM3, AA Alkaline x2

**Dimensions:** 50mm(W)x253mm(H)x35.5mm(D)

**Weight:** 350g

**Notes:** Actual product specifications may vary depending on model and region.

## UF-10TB

### UHF PLL Body-Pack Transmitter

- \* 2400 to 3000 Selectable channels.
- \* Phase-Locked Loop (PLL) synthesized tuner.
- \* Extended dynamic range and smooth frequency response.
- \* Tone-key squelch
- \* The "lock-on" function mode prevents tampering and RF interruption.
- \* 4 pin mini XLR connector compatible with guitar cable and various vocal and instrument mics.
- \* Adjustable transmission power between Low and High

**Frequency Preparation:** PLL Synthesized Control  
**Carrier Frequency Range:** UHF 470~960 MHz

**Bandwidth:** 75MHz Wideband

**RF Outputs:** Low / High

**Stability:** <±10KHz

**Frequency Deviation:** ±48KHz (Peak)

**Chassis:** Aluminium alloy

**LCD Display:** Group, Channel, Frequency, Battery

Status, User Name, GAIN Adjust

**Controls:** Power ON/OFF, AF Level, Frequency

(Up/Down), Lock-on Mode, REMOSET ID

Pairing, RF Output Adjust

**Output Connector:** 4P Mini XLR

**Spurious Emissions:** <-50 dBC

**Audio Frequency Response:** 50Hz~18k Hz

**Battery:** UM3, AA Alkaline x2

**Dimensions:** 62mm(W)x80.3mm(H)x22.6mm(D)

**Weight:** 93g

**Notes:** Actual product specifications may vary depending on model and region.



## Wireless System

With advanced wireless technology, JTS wireless systems outperform many other wireless systems in and above their price range.

PLL technology provides great freedom from RF interference, and outstanding signal reliability allows a maximized numbers of systems working simultaneously.

The true diversity design detects and selects a stronger signal from two independent radio receivers for optimal reception and freedom from dropouts.

As always JTS' famous microphone capsules assure the audio performance when you go wireless.

The world's first JTS patterned "REMOSET" function allows automatic remote control frequency settings of the transmitter from the receiver.