FP Series

FP Wireless System

The Shure FP wireless system series user guide.

Version: 1.0 (2024-B)

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FP Wireless System

Featuring a comprehensive selection of system configurations with key wireless audio technologies and components, FP Wireless provides the ability to capture crystal-clear audio with confidence. With simple and flexible components, including a portable receiver and XLR plug-on transmitter, it has never been easier for audio to be captured in the demanding and dynamic videography and electronic field production (EFP) environments.

FP1 Bodypack Transmitter

Lightweight, durable housing; for use with TA4F-connection microphones including lavaliers and headsets

FP2 Handheld Transmitter

Lightweight, durable housing; available with either the legendary Shure SM58® cardioid dynamic wireless capsule or with the VP68 condenser omnidirectional capsule; compatible with all Shure wireless capsules

FP3 Plug-On Transmitter

Durable metal housing, ergonomically designed for comfortable grip; XLR connectivity allows for use with any wired dynamic XLR microphone

FP5 Portable Receiver

Lightweight, durable housing, suitable for mounting on camera or person, diversity antennas, output via TA3F cable to either XLR or 1/8" connectors.

Features

- Audio Reference Companding for crystal-clear audio
- Automatic Frequency Selection locates an open frequency at the touch of a button
- Automatic Transmitter Setup instantly syncs the transmitter to the receiver frequency
- Up to 12 compatible systems simultaneously
- All components powered by 2 AA batteries – no power cord required
- Transmitter gain attenuation control manages input level

Accessories

Furnished Accessories

Microphone Clip (FP2)

Plug-on Transmitter Belt Clip and Protective Skin (FP3)
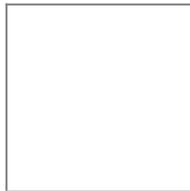
**Camera Shoe Mount (FP5)***
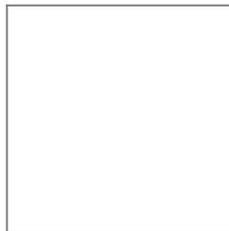
**TA3F-to-XLRm Audio Cable**

TA3F-to-3.5mm Dual-mono Audio Cable

Quickstart

Install Batteries
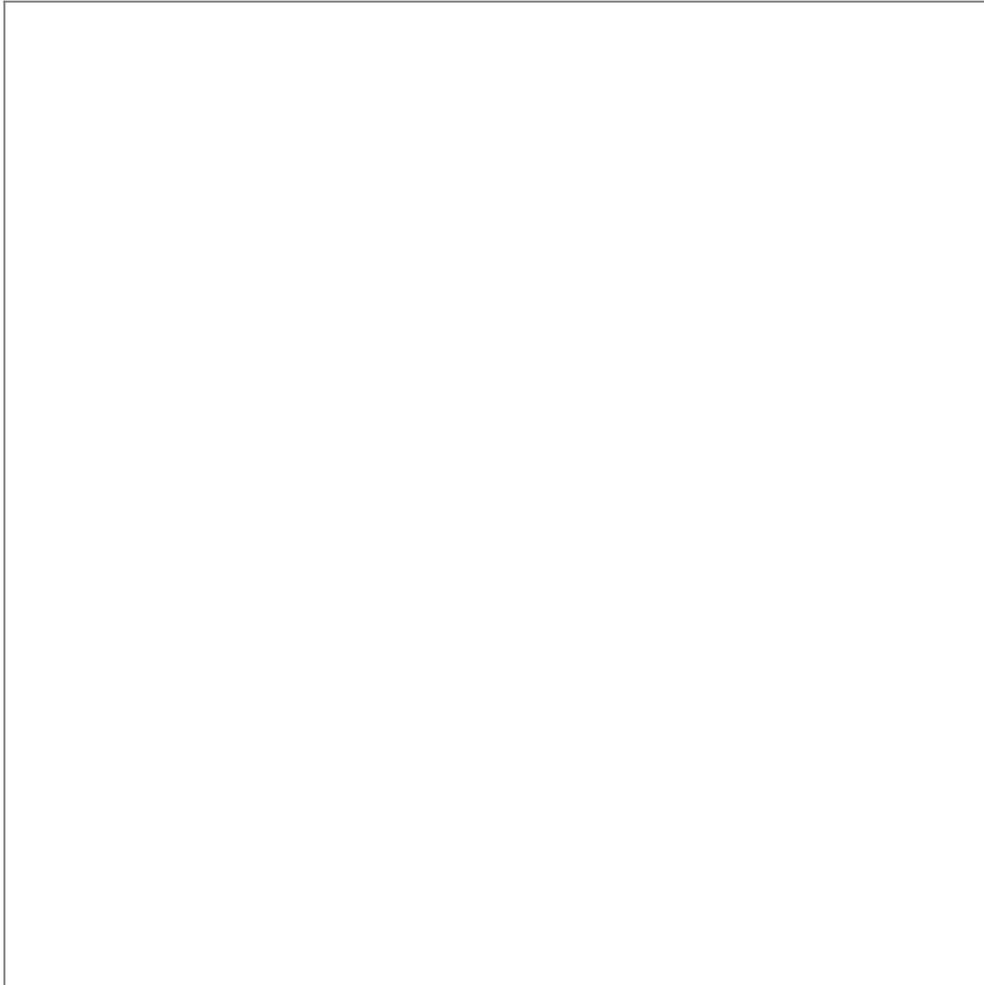
Power up the FP5 Receiver
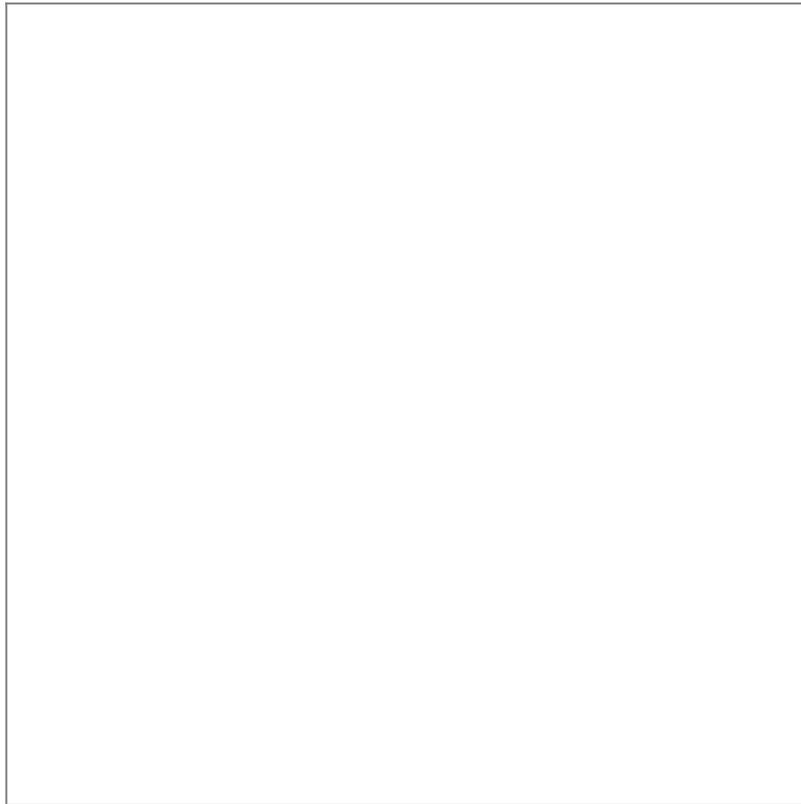
Group scan for open frequencies
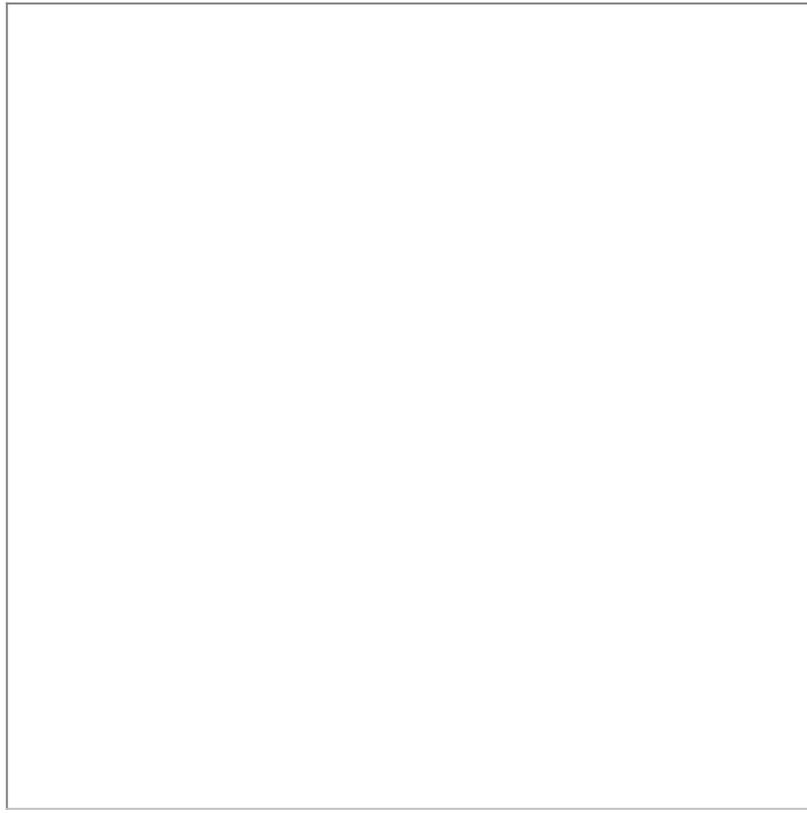
Power up the transmitter
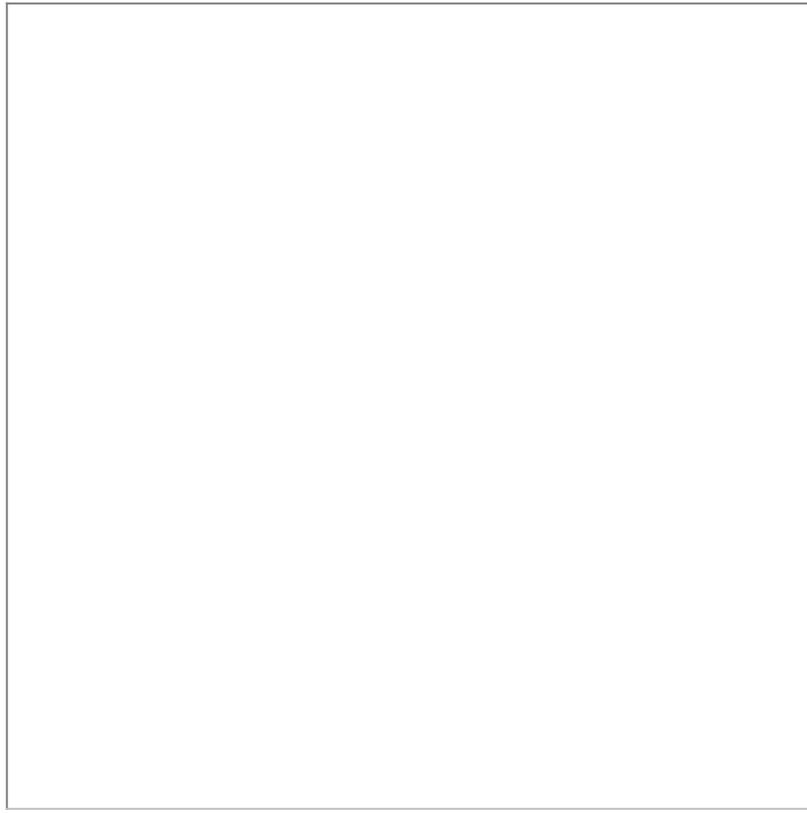
Sync transmitter and receiver

Install shoe mount on the FP5 to use on a camera
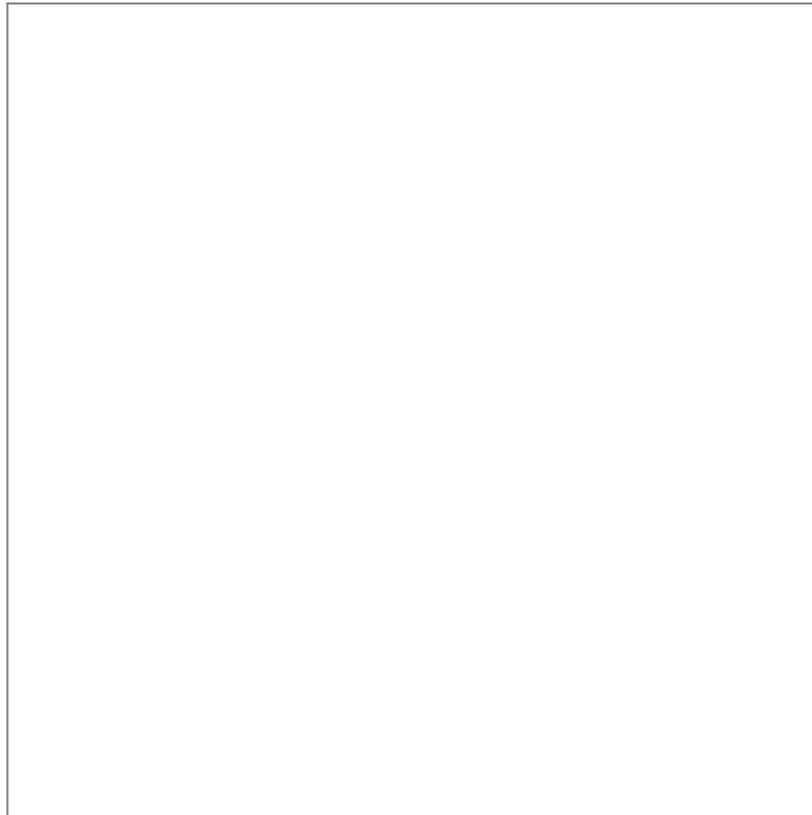
FP5 Receiver
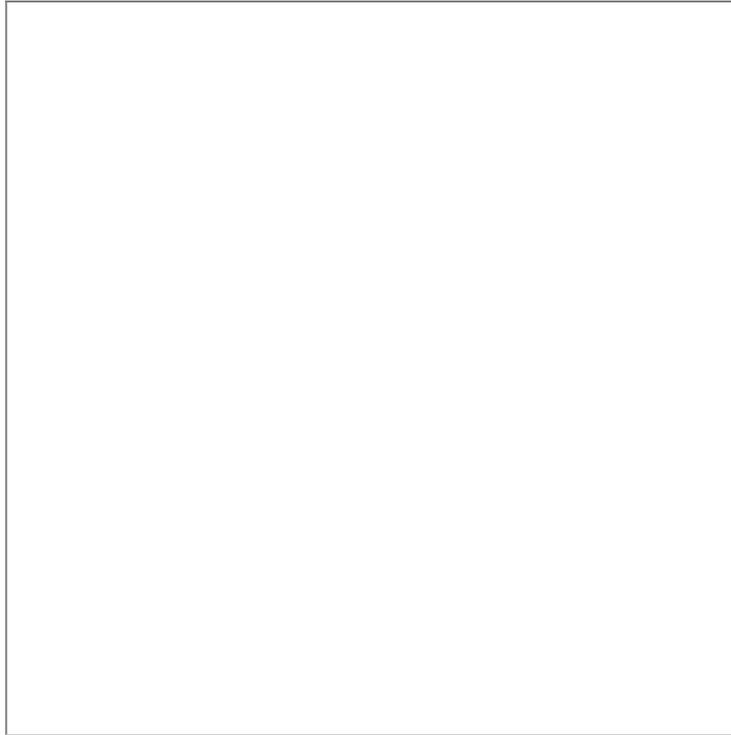
① Power LED

Green	Power on
Yellow	Low battery alert
Red	Critical low battery, replace immediately
Flashing red on power up	Battery dead

② RF LED

Illuminates when successfully synced to a transmitter (or manually tuned to a transmitter's frequency)

③ Power Button

Press and hold to power on or off.

④ Infrared (IR) port

Sends infrared beam to synchronize frequencies.

⑤ Audio Output (TA3M) Jack

Use a TA3F cable to connect to a camera or audio device.

Caution: This device should not be connected to microphone inputs supplying phantom power, as this may negatively affect the audio signal.

⑥ Audio Output Gain

Adjust audio output level to devices such as cameras or recorders.

⑦ LCD Screen

Displays current settings for GROUP and CHANNEL and battery life.

⑧ Scan Button

Group scan: Push and hold (3 sec.) to find an open group and channel.

Channel scan: Push and release to find an open channel in the current group.

⑨ Sync button

Align receiver and transmitter and press sync. Blue IR LED indicates successful sync.

Note: Press sync *and* scan *buttons to manually enter group and channel numbers*

⑩ Antennas

Two antennas for diversity reception.

Transmitter Controls and Connectors
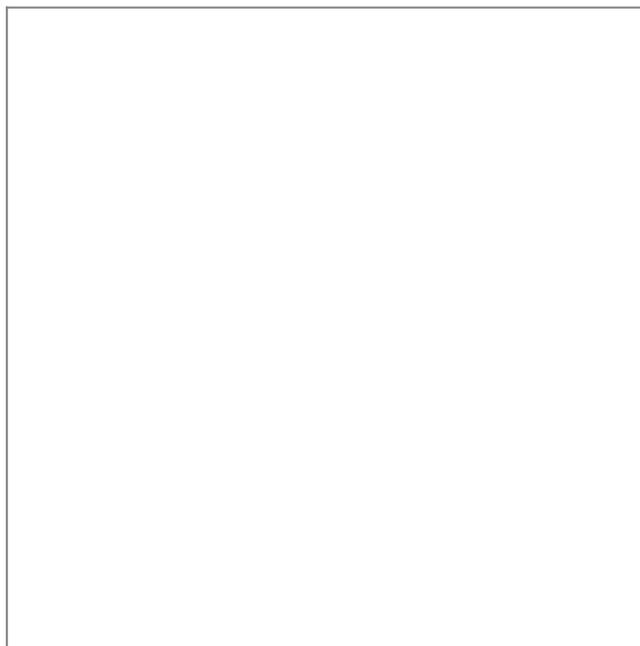
① Indicator LED

Green	Ready
Flashing green	Controls locked
Flashing red	IR transmission in progress
Solid red	Battery power low
Flashing red on startup	Batteries dead (transmitter cannot be turned on until batteries are changed)

Rapid flashing red after synchronization	Transmitter and receive incompatible; contact your Shure reseller

② Power Button

Press and hold to power on or off.

③ Infrared (IR) Port

Receives infrared beam to synchronize frequencies. When using multiple systems, only one transmitter IR port should be exposed at a time.

④ 4-Pin Microphone Input Jack

Use with with a TA4F connector for a lavalier or headset microphone.

⑤ Audio Input Gain

Adjusts audio level.

⑥ XLR Connection (FP3 only)

Plug into an XLR microphone or the output of an audio device.

⑦ Audio Input Level Indicator (FP3 only)

Red	Signal clip
Yellow	Nominal peak
Green	Audio present

Adjusting Gain

FP1 and FP3

Perform a sound check. Use the audio gain control located on the side (FP1) or front (FP3) of the unit to adjust the gain up (+) or down (−) until desired level is reached.

FP3 only: Adjust so the audio input level indicator flickers yellow at peak sound levels.

FP2

The handheld transmitter normally does not require adjustment and **should be left at 0dB** for most applications. Only use the –10dB setting for loud singing or other high SPL applications if there is noticable distortion.

Access the gain adjustment switch by unscrewing the head of the microphone. Use the tip of a pen or a small screwdriver to move the switch:

0dB: For normal use.
–10dB: Use only if audio distorts due to high SPL levels.
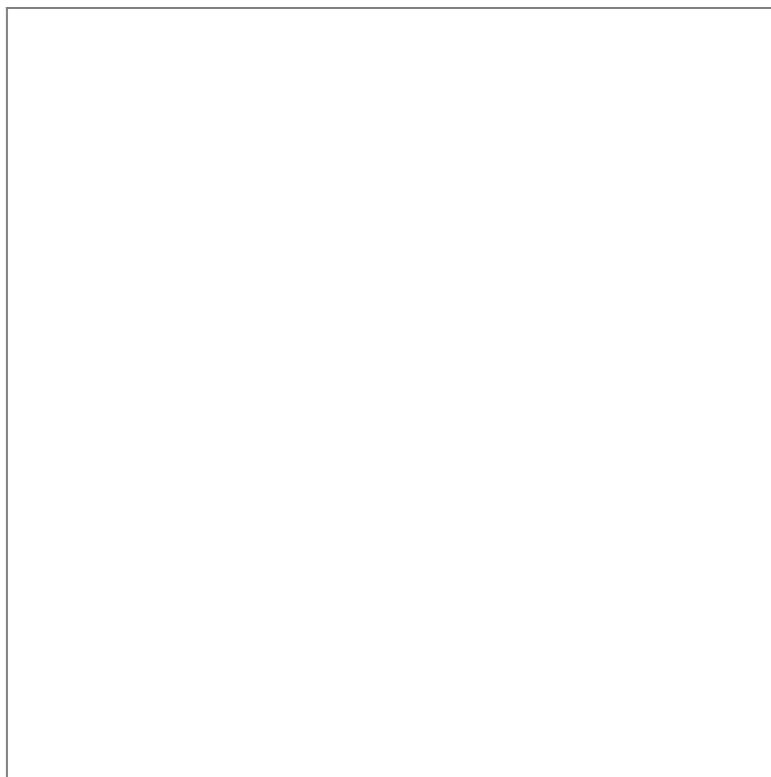
Single System Setup

1. **Perform a group scan:**

   Press and hold the scan button for 3 seconds. After the scan completes, the new group and channel is automatically activated and saved.

2. **Synchronize the transmitter:**

   Align the transmitter and receiver infrared (IR) ports and press the sync button.

   After a successful sync, the transmitter LED momentarily flashes and the blue RF LED illuminates.

Multiple System Setup

Use the following steps to ensure the best performance when using multiple wireless systems at the same location.

1. Turn all receivers **on** and all transmitters **off**.

   Note: Turn on any other digital equipment that could cause interference during the performance so it will be detected during the frequency scans in the following steps.

2. Perform a group scan using the first receiver by pressing and holding the scan button for 3 seconds.
3. Turn on the first transmitter and sync it to the receiver.

For each additional system:

1. Manually set the group number to match the first receiver (see Manual Group and Channel Selection).
2. Perform a channel scan by pressing the scan button.
3. Sync the transmitter to the receiver.

Important: After syncing each transmitter, leave it on so that scans from the other receivers do not select that channel. Be sure only one transmitter IR port is exposed when synchronizing each system.

Manual Group and Channel Selection (receiver only)

Important: Most single-system applications do not require manual group or channel settings--use an automatic frequency scan instead. However, it may be useful for some applications, such as to tune to and record audio directly from a microphone in a compatible wireless installation.

To set the group:

1. Press the scan and sync buttons simultaneously. The GROUP display flashes.
2. Press the sync button to change the group number.
3. Press scan to accept the selected group.
4. Press scan again to save and exit.
5. If desired, perform a channel scan to select an open channel in that group.

To set the channel:

1. Press the scan and sync buttons simultaneously. The GROUP display flashes.
2. Press scan to move to the channel setting. The CHANNEL number flashes.
3. Press the sync button to advance to the desired channel number.
4. Press scan to save and exit.

Note: Remember to sync the transmitter to the receiver.

Automatic Frequency Scan

If you experience RF interference, switch to a new channel using the channel or group scan.

Channel scan: Press the scan button on the receiver. Switches to new channel in the same group.

Group scan: Press and hold the scan button for 3 seconds. Finds a new group and selects an open channel in that group. (Do not use in multiple system setups unless all systems are moved to the same group.)

Locking and Unlocking the Transmitter

Locking the transmitter prevents accidental changes during performances.

To lock the controls: With the transmitter off, hold the power button down until the green LED flashes (~5 seconds)

To unlock the controls: With the transmitter on, hold the power button down until the green LED flashes (~5 seconds)

Troubleshooting

Issue	Indicator Status	Solution
No sound or faint sound	Transmitter power light on, receiver blue RF LED off	Sync the transmitter to the receiver
		Move closer to and maintain line-of-sight with the transmitter. Move away from metal surfaces and digital equipment.
	Transmitter power light on, receiver blue RF LED on	Verify all sound system connections
		Adjust gain settings on the transmitter and receiver. Make sure the handheld transmitter gain is at the 0dB setting.
	Receiver power LED off, red, or blinking red	Insert fresh batteries or power on the receiver
	Transmitter power LED red or flashing red	Replace transmitter batteries
		If indicator continues flashing red after batteries are replaced, the transmitter and receiver may belong to incompatible frequency bands. Contact your Shure reseller for assistance.
	Transmitter power LED off	Turn on transmitter
		Make sure the +/- indicators on batteries match the transmitter terminals
		Insert fresh batteries
Distortion or unwanted noise bursts	N/A	Remove nearby sources of RF interference (CD players, cell phones, computers, digital effects, in-ear monitor systems, etc.)
		Change receiver and transmitter to a different frequency
		Reduce transmitter gain
		Replace transmitter batteries
		If using multiple systems, change the frequency of one of the active systems
		Remove phantom power if applied to the FP5 audio output
Distortion increases gradually	Transmitter or receiver power LED red	Replace batteries
Cannot turn transmitter or receiver on	Power LED flashing red	Replace batteries

Tips for Improving System Performance

- Maintain a line-of-sight between transmitter and receiver
- Avoid proximity to metal surfaces and digital equipment that could cause RF interference, such as computers, cell phones, LCD screens, and other audio electronics.

Furnished Accessories

Microphone clip (FP2)	WA371
Plug-on Transmitter belt clip and protective skin (FP3)	AFP301
Camera Shoe Mount (FP5)*	AFP511
TA3F-to-XLRm audio cable	WA451
TA3F-to-3.5mm dual-mono audio cable	WA461

*Note:

The shoe mount fits standard dimension camera shoes (ISO 518:2006). An adapter may be necessary for cameras with proprietary shoe mounts. See the camera's user guide for details.
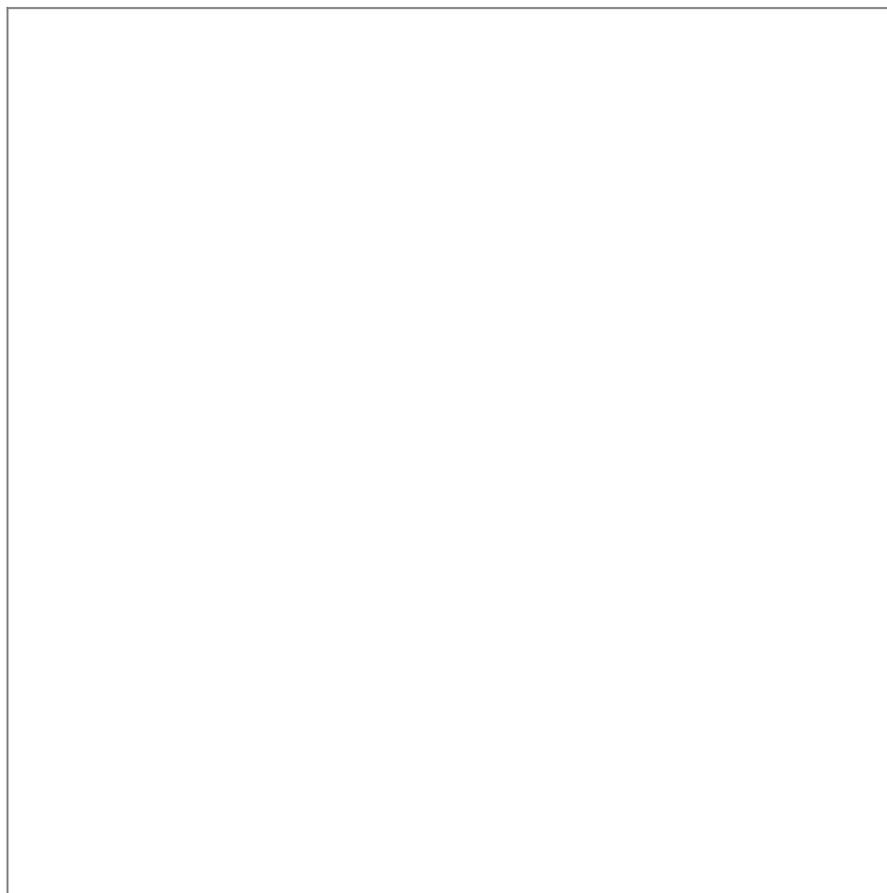
Frequency Range and Transmitter Output Power

Frequency Range and Transmitter Output Level

Band	Range	RF Transmitter Output
G4	470–494 MHz	30 mW
G4E	470–494 MHz	10 mW
G5	494–518 MHz	30 mW
G5E	494–518 MHz	10 mW
H5	518–542 MHz	30 mW
H5E	518–542 MHz	10 mW
J3	572–596 MHz	30 mW
K3E	606–630 MHz	10 mW
L4	638–662 MHz	30 mW
L4CN	638–662 MHz	30 mW
L4E	638–662 MHz	30 mW
P4	702–726 MHz	30 mW
P4CN	702–726 MHz	30 mW
Q24	736–754 MHz	30 mW
R13	794–806 MHz	20 mW
R19	794–806 MHz	10 mW
R5	800–820 MHz	20 mW
JB	806–810 MHz	10 mW
S6	838–865 MHz	10 mW
X4	925–932 MHz	10 mW
X7	925–937.5 MHz	10 mW
* Conductive into 50 ohms		

NOTE: This Radio equipment is intended for use in musical professional entertainment and similar applications. This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.

Frequencies for European Countries

G4E 470-494 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, B, BG, CH, CY, CZ, D, EST	470 - 494 MHz*
F, GB, GR, H, I, IS, L, LT	470 - 494 MHz*
NL, P, PL, S, SK, SLO	470 - 494 MHz*
DK, FIN, M, N	*
HR, E, IRL, LV, RO, TR	*
all other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

G5E 494-518 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, B, BG, CH, CY, CZ, D, EST	494 - 518 MHz*
F, GB, GR, H, I, IS, L, LT	494 - 518 MHz*
NL, P, PL, S, SK, SLO	494 - 518 MHz*
DK, FIN, M, N	*
HR, E, IRL, LV, RO, TR	*
all other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

H5 518–542 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, B, CH, CZ, D, E, EST	518 - 542 MHz*
F, GB, GR, H, I, IRL, L	518 - 542 MHz*
LT, M, NL, P, PL, SLO	518 - 542 MHz*
DK, FIN, N, S	*
CY, LV, SK	*
all other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

J3 572–596 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, B, CH, CZ, D, E, EST	572 - 596 MHz*
F, GB, GR, H, I, IRL, L	572 - 596 MHz*
LT, M, NL, P, PL, SLO	572 - 596 MHz*
DK, FIN, N, S	*
CY, LV, SK	*
all other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

K3E 606–630 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, B, BG, CH, CY, CZ, D, EST	606 - 630 MHz*
F, GB, GR, H, I, IRL, L, LT	606 - 630 MHz*
NL, P, PL, S, SK, SLO	606 - 630 MHz*
DK, FIN, M, N	*
HR, E, IRL, LV, RO, TR	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

L4/L4E 638–662 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, BG, CH, CY, CZ, D, EST	638 - 662 MHz*
F, GB, GR, H, I, IS, LT	638 - 662 MHz*
P, PL, S, SK, SLO	638 - 662 MHz*
B, DK, E, FIN, HR, IRL, L	*
LV, M, N, NL, RO, TR	*
all other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

P4 702–726 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, BG, CH, CZ, D, E, EST	702 - 726 MHz*
F, GB, GR, H, I, IRL, L	702 - 726 MHz*
LT, M, NL, P, PL, SLO	702 - 726 MHz*
DK, FIN, N, S	*
CY, LV, SK	*
all other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

Q24 736–754 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, B, BG, CH, CY, CZ, D, EST	736 - 754 MHz*
F, GB, GR, H, I, IS, L, LT	736 - 754 MHz*
NL, P, PL, S, SK, SLO	736 - 754 MHz*
RO	736 - 743, 750 - 751 MHz*
DK, E, FIN, HR, IRL, LV, M, N, TR	*
All other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

R5 800–820 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, BG, CH, D, E, EST	800 - 820 MHz*
F, GB, GR, H, I, IRL, L	800 - 820 MHz*
FIN, LT, N, NL, P, PL, SLO	800 - 820 MHz*
DK	800, 1-819,9 MHz*
S	800-814 MHz*
CZ	815-820*
CY, LV, M, SK	*
All other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

S6 838–865 MHz

Country Code Code de Pays Codice di paese Código de país Länder-Kürzel	Frequency Range Gamme de frequences Gamme di frequenza Gama de frequencias Frequenzbereich
A, B, CH, D, E, EST	838 - 865 MHz*
GB, H, I, IRL, L	838 - 865 MHz*
LT, M, NL, P, PL, SLO	838 - 865 MHz*
CY, CZ, DK, F, FIN	*
GR, N, LV, S, SK	*
All other countries	*

* This equipment may be capable of operating on some frequencies not authorized in your region. See Licensing Information.

Certifications

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Meets essential requirements of the following European Directives:

- WEEE Directive 2002/96/EC, as amended by 2008/34/EC
- RoHS Directive 2011/65/EU

    Note: *Please follow your regional recycling scheme for batteries and electronic waste*

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

CE Notice: Hereby, Shure Incorporated declares that this product with CE Marking has been determined to be in compliance with European Union requirements. The full text of the EU declaration of conformity is available at the following site: https://www.shure.com/en-EU/support/declarations-of-conformity.

Authorized European representative:
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Fax: +49-7262-92 49 11 4
Email: EMEAsupport@shure.de

Approved under the Declaration of Conformity (DoC) provision of FCC Part 15.

Certified by ISED in Canada under RSS-123 and RSS-102.

IC: 616A-FP5L, 616A-FP5M, 616A-FP5A, 616A-FP5B, 616A-FP5C

Type Accepted under FCC Parts 74.

FCC: DD4FP3L, DD4FP3M, DD4FP3A, DD4FP3B, DD4FP3C, DD4SLX1G4, DD4SLX1G5, DD4SLX1, DD4SLX2G4, DD4SLX2G5, DD4SLX2.

Certified by ISED in Canada under RSS-123 and RSS-102.

IC: 616A-FP3L, 616A-FP3M, 616A-FP3A, 616A-FP3B, 616A-FP3C, 616A-SLX1G4, 616A-SLX1G5, 616A-SLX1, 616A-SLX2G4, 616A-SLX2G5, 616A-SLX2.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation of this device is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

LICENSING INFORMATION

Licensing: A ministerial license to operate this equipment may be required in certain areas. Consult your national authority for possible requirements. Changes or modifications not expressly approved by Shure Incorporated could void your authority to operate the equipment. Licensing of Shure wireless microphone equipment is the user's responsibility, and licensability depends on the user's classification and application, and on the selected frequency. Shure strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing, and before choosing and ordering frequencies.

WARNING: Danger of explosion if incorrect battery replaced. Operate only with AA batteries.

WARNING: Battery packs shall not be exposed to excessive heat such as sunshine, fire, or the like.

Information to the user

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: EMC conformance testing is based on the use of supplied and recommended cable types. The use of other cable types may degrade EMC performance.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Australia Warning for Wireless

This device operates under an ACMA class licence and must comply with all the conditions of that licence including operating frequencies. Before 31 December 2014, this device will comply if it is operated in the 520-820 MHz frequency band.
WARNING: After 31 December 2014, in order to comply, this device must not be operated in the 694-820 MHz band.