



## **Kingdom New Professional Control Desk**

### **KFE2209/18/2** **Instruction Manual**

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## **Disclaimer:**

The manufacturer(s), distributor(s) and / or seller(s) accept no responsibility whatsoever for any damage, injury or loss, financial or otherwise, resulting directly or indirectly from the use, misuse, function or malfunction of this device. By purchasing and using this device you understand and accept this disclaimer.

## **Warning:**

1. Only the person who has fireworks license is allowed to purchase the product, or the person of whom there isn't fireworks purchase limit in his/her country or district is allowed to purchase the products. Kingdom is not with responsibility for any illegal usage.
2. Safety is the user's responsibility. All pyrotechnic effect and firework safety guidelines should be followed completely.
3. You must deprogram the system prior to trying to re-program the module to prevent accidental code storage thereby creating a secure firing environment

## **Description:**

It is a 12 group professional control desk for controlling our advanced 18cue & 20cue wireless or wired control firing systems for pyrotechnics and fireworks. This system has single firing, step firing, all firing and sequence firing functions. It is not only waterproof, reliable but also expandable which is good for control many firing systems in different shooting positions.

All of our 18cue and 20cue wireless firing systems are supplied with a handheld transmitter as standard.. If you demand the increased range, functionality and durability of the transmitter, then please choose this control desk.

Wired control function can allow people to control the ignition 1000meter away from the shooting place.

## **Technical date:**

Module Size (cm)	28 x23 x 10	Built-in power (V)	12V2.3Ah Lead Acid Battery
Unit weight (kg)	1.9	Charging power	DC 15V-0.5A
Range (meter)	350		

## What is included:

- 1 Piece of individual control desk,
- 2 Pieces of safety keys.
- 1 Instruction manual.
- 1 Piece of charger with DC15V 0.5A output power.

## Charging the system:

The Battery Status Light will only operate when the unit is switched ON and in Fire mode. However the system will charge even when switched off.

Battery Status Light	Description
RED (flashing)	Battery Low.
RED (steady)	Battery Charging.
RED / GREEN (flashing)	Battery Almost Full.
GREEN (steady)	Battery Full.

Lead Acid Batteries naturally discharge over time. To keep the battery in good condition it is recommended the system is charged every 2-3months. Storing the system in extremely low or high temperatures will shorten the life of the battery.

## Basic transmitter operation:

Button	Description
SINGLE + CONFIRM	<b>Single Fire Mode:</b> 1-20 Fire individual cues.
SEQ + CONFIRM	<b>Sequence Fire Mode:</b> Fire the cues in sequence with a set delay between each cue.
STEP + CONFIRM	<b>Step Fire Mode:</b> Fire the cues sequentially with each successive button press. Holding STEP down continuously will cause multiple cues to fire.
ALL + CONFIRM	<b>All Fire Mode:</b> Fire all the cues.
RECEIVER SELECTION DIAL (1-11, S )	<b>Transmitter Address:</b> Position 1-11: Select which receiver(s) to control when more than 1 receiver is used. Position S: To have a sequence firing function roll from 1 receiver to the next. Each receiver must have an address set up and sequence time must be same. The receiver must be programmed with the transmitter RECEIVER SELECTION DIAL in the S position.

CONFIRM	This is a safety feature to prevent accidental use.
POWER SWITCH	Transmitter power ON/OFF.
SAFETY KEY SWITCH	The SAFETY KEY must be switched to ON for the transmitter to send a signal.
STOP / CONT	Send a signal to stop or continue a sequence.
LED ON/ OFF	Switch the Cue Display ON / OFF to save the power.
UP / DOWN	Increase / decrease the cue number.
TIME ON / OFF	Switch the Total time / Interval time Display ON / OFF.
RADIO CONTROL	Switch to the wireless control mode.
LINE CONTROL	Switch to the wired control mode.

## Deprogramming module and re-programming

Warning: 1. You must deprogram the receiver module prior to trying to re-program it.

2. Never program the receiver when another transmitter is transmitting. This may cause the receiver to be programmed with wrong transmitter.

### To clear the receiver of previously stored transmitters:

1. Put receiver function selection switch to FIRE position.
2. Hold the receiver Program button until the program light goes out.

### To program the receiver with a new transmitter (Wireless type ):

1. Put receiver function selection switch to FIRE position,
2. Switch transmitter power ON, turn transmitter safety key to ON and put the control type switch to RADIO position.
3. Set transmitter receiver selection dial to desired position.
4. Press and hold CONFIRM and SEQ, ALL or STEP so that the transmitter is continuously transmitting. At the same time press and release the receiver PROGRAM button immediately. The receiver program light blinks twice to indicate the receiver has been programmed.
5. Release CONFIRM and SEQ, ALL or SEP buttons so that the transmitter is not transmitting.

### To program the receiver with a new transmitter (Wired type ):

1. Put receiver function selection switch to FIRE position. Connect the control desk and receiver via 2DB wire(please pay attention to the cathode and anode)
2. Switch transmitter power ON, turn transmitter safety key to ON and put the control type switch to LINE position.
3. Set transmitter receiver selection dial to desired position.
4. Press and hold CONFIRM and SEQ, ALL or STEP so that the transmitter is continuously transmitting. At the same time press and release the receiver PROGRAM button immediately. The receiver program light blinks twice to indicate the receiver has been programmed.
5. Release CONFIRM and SEQ, ALL or SEP buttons so that the transmitter is not transmitting.

The receiver has now been programmed with the transmitter. Please see the receiver instructions for further details.

## Advanced transmitter operation:

A receiver can store more than 1 transmitter or be programmed with more than 1 position on the RECEIVER SELECTION DIAL. This allows some cues on a receiver to be controlled individually and some cues to be controlled simultaneously with other cues on other receivers.

### EXAMPLE 1:

Use 2 receivers and 1 transmitter.

You want to fire cues 1 – 20 on 2 receivers simultaneously or individually.

Receiver A is programmed with the transmitter RECEIVER SELECTION DIAL in position 1 **and** position 3.

Receiver B is programmed with the transmitter RECEIVER SELECTION DIAL in position 2 **and** position 3.

With the RECEIVER SELECTION DIAL in position 1, cues will fire on receiver A only.

With the RECEIVER SELECTION DIAL in position 2, cues will fire on receiver B only.

With the RECEIVER SELECTION DIAL in position 3, cues will fire on receiver A and receiver B simultaneously.

### EXAMPLE 2:

You want to have a sequence run across 3 receivers per line (Maximum 16 receivers)

Receiver A is set up with Address 1 and a sequence time delay of 0.1 second. It is programmed with the RECEIVER SELECTION DIAL in position S.

Receiver B is set up with Address 2 and a sequence time delay of 0.1 second. It is programmed with the RECEIVER SELECTION DIAL in position S.

Receiver C is set up with Address 3 and a sequence time delay of 0.1 second. It is programmed with the RECEIVER SELECTION DIAL in position S.

Receiver 16 is set up with Address 16 and a sequence time delay of 0.1 second. It is programmed with the RECEIVER SELECTION DIAL in position S.

Note: All receivers in a sequencer run must have the same time delay and must set up the address.

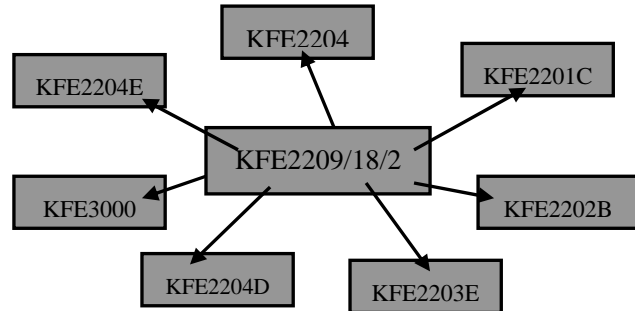
To start the sequencer put the RECEIVER SELECTION DIAL in position S and press SEQ and CONFIRM buttons together. The sequencer will run at a time delay of 0.1second across Receivers A, B, C....16 in the order of Address 1, 2, 3....16.

## Optional upgrade:

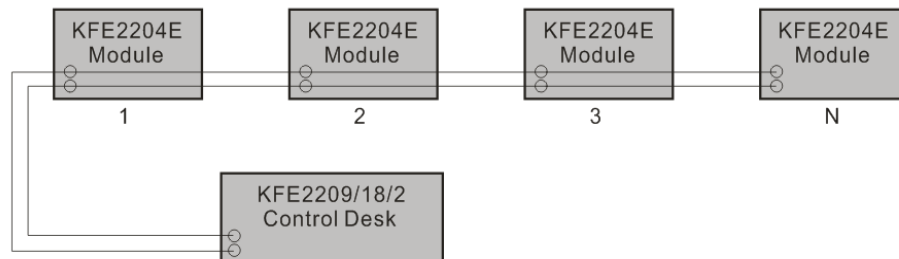
1.For more longer range, you can choose the antenna KFE2210.



2. The receivers can be controlled by this control desk are as below:



3.How to connect the control desk and KFE2204E module via 2DB wire.



Teleconformity No: 2014RNB048R0

**CE 2280**