FC 4 / FC 4 MC / FC 4 ST

Small Capsule Condenser Microphone

INTRODUCTION

Congratulations on choosing one of the Golden Age Project FC 4 microphones!
The FC 4 is a high quality small capsule condenser microphone, inspired by classical microphone models.
The FC 4 is a transparent sounding and very versatile microphone with a wide frequency response and a large dynamic range. It will perform great in the studio or in live sound and broadcast applications.
The FC 4 MC (Multi Capsule) is delivered with three capsule heads that will give you the choice between three polar patterns
The FC 4 ST is a matched stereo set and can be used for stereo recordings.
The FC 4 has a sound character is very transparent and uncoloured and it is well suited to be used with most instruments.
Use it on choirs, acoustic and electric guitars and other stringed instruments, as a drum overhead, on high hats or as a room microphone and in any other application where you would use a small capsule condenser microphone.

The FC 4 is, in spite of it´s low cost, suitable for critical recording applications.

FEATURES

- True condenser mic with 20 mm, 3um gold-sputtered low distorsion dual capsule mounted on an effective internal shock mount.

- Low noise F.E.T. as first amplifying device.

- Discrete class A electronics and transformer-less balanced output stage.

- External switches for high-pass filter and pad.

- Heavy duty brass body.

- Shock mount included.

- Goldplated XLR.

- Requires 48V phantom power.

- The FC 4 MC: Three polar patterns: Cardioid, HyperCardioid and Omni gives you several ways to model the sound. The room pick-up, proximity effect and the tonal response changes with the different patterns.

- The FC 4 ST: One matched stereo pair.

USING THE FC 4

The FC 4 can be used with any standard mixer or preamp. Use either a XLR to XLR or XLR to 1/4" plug standard balanced microphone cable.

Please note that the FC 4 needs 48V phantom power. For optimum performance, let the FC 4 warm up for 5-10 minutes before use.

Be aware of the proximity effect (an increase in bass response) when the microphone is close to the sound source. This can be a good or a bad thing. You can adjust the bass response by changing the distance from the microphone to the sound source for an optimum result in different situations. You can also use the high-pass filter by engaging the external switch.

The 10 dB pad is useful when recording very loud sound sources.

The different polar patterns in the FC 4 MC will give you different sounds. As always, experiment! This is the best way to get the sound you want. Microphone placement is an art and you will learn a lot by trying different methods.



Changing heads on the FC 4 MC:
Carefully unscrew the mounted head anti-clockwise until it is loose from the FC 4 body. Then mount the new head carefully by screwing it clockwise on the microphone body. Tight the head moderately.

The FC 4 ST: There are several ways to set up two microphones for stereo recordings. One way is to mount the two microphones close to each other side by side, using the included mounting bar in the FC 4 ST. You can also angle

them 45 degrees and place the heads close to each other. As always, experiment! This is the best way to get the sound you want. Microphone placement is an art and you will learn a lot by trying different methods.

PRECAUTIONS

1. Be careful not to drop the FC 4 or subject it to shock since this can destroy the sensitive capsule.

2. Always pack the FC 4 carefully when transporting it.

3. The heart of the FC 4 is its capsule. It must be protected from dirt and moisture.

4. Always use a pop-filter for close-up vocals to protect the capsule from mouth spray.

5. Always store the FC 4 in it´s vinyl pouch when it is not in use.

6. Protect the FC 4 from strong wind blasts. Do never put in inside or close to the front of a kick drum. Use a pop-filter and place it at least 0,5m away.

7. Always connect the FC 4 to the preamp or mixing console BEFORE phantom power is applied and unplug the microphone cable AFTER you have turned off the phantom power and waited 10 seconds or more. This is to avoid possible damage to the electronic circuits in the FC 4.

8. Avoid exposing the FC 4 to direct sunlight or extremes in humidity for extended periods of time.

9. Do never try to service the FC 4 yourself since this will void the warranty. Should your FC 4 ever need service, please contact your dealer.

WARRANTY

Please check the FC 4 / FC 4 MC / FC 4 ST carefully immediately when you receive it and make sure that there are no problems with the microphone. The warranty period is one year and apply to defects in materials and workmanship. It does not cover misuse of the microphone.

If you ever experience any problem, contact your dealer.

SPECIFICATIONS

Capsule type: True condenser pressure gradient.

Capsule size: 20 mm, 3um gold-sputtered.

Polar pattern: Cardioid.

Polar pattern FC 4 MC: Cardioid, HyperCardioid and Omni

Frequency response: 20Hz - 20kHz

Sensitivity:14,5 mV / -37dB (0dB=1V/Pa) @1kHz.

Equivalent Noise Level (A-weighted per IEC 268-4): < 17 dB typical.

Maximum SPL (<1% THD @1kHz): 140 dB.

Output impedance: 250 ohm.

Recommended load impedance:
1000 Ohm or more.

Current consumption: < 3mA.

Dimensions: 22x150 mm. Weight: 470 g.

Operating voltage: 48V phantom power.

FC 4 ST stereomatching: Within 1 dB.

Please note: Specifications can be changed at any time without notice.

Many thanks for purchasing the Golden Age Project FC 4 / FC 4 MC / FC 4 ST

- We wish you much joy and many wonderful recordings with it!

