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5 CORE DU-100

5 CORE DU-100 Compression Driver Instruction Manual

Model: DU-100 | Brand: 5 CORE

1. INTRODUCTION

Thank you for choosing the 5 CORE DU-100 Compression Driver. This unit is engineered to deliver clear and powerful high-frequency sound, suitable for various professional audio applications. This manual provides essential information for the safe and effective installation, operation, and maintenance of your compression driver.

Sun Proof, Waterproof.
**Can be used
Outdoors/Indoors
for life time.**



High quality sound output with minimum noise, Passed through Advance Quality Testing Procedure Acoustically designed for 5CORE horns

 Sunproof	 Waterproof	 Weather-proof & rugged body.
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Image 1.1: The 5 CORE DU-100 Compression Driver Unit.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the DU-100 Compression Driver. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Power Handling:** Do not exceed the rated power handling (100W RMS / 1000W PMPO) to prevent damage to the driver.
- **Impedance Matching:** Ensure the amplifier's output impedance matches the driver's 16 Ohm impedance. Incorrect impedance can lead to amplifier or driver damage.
- **Wiring:** Always use appropriate gauge speaker wire and ensure correct polarity (+ to + and - to -) when connecting the driver.
- **Mounting:** Securely mount the driver to a compatible horn or enclosure to prevent it from falling and causing injury or damage.
- **Environment:** Although weather-resistant, avoid prolonged exposure to extreme conditions or direct water submersion.
- **Servicing:** Refer all servicing to qualified personnel. Do not attempt to open or repair the unit yourself.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x 5 CORE DU-100 Compression Driver Unit
- 1 x Diaphragm (typically pre-installed or included as a spare/replacement part)

4. PRODUCT OVERVIEW

The 5 CORE DU-100 is a robust compression driver designed for high-performance audio systems. It features a durable aluminum body and a ferrite magnet for consistent sound quality.

Key Features:

- **High Power Handling:** 100W RMS / 1000W PMPO for powerful sound output.
- **Wide Frequency Response:** 160-7000 Hz ensures clear mid-range and treble.
- **Optimal Impedance:** 16 Ohm impedance for compatibility with various audio setups.
- **Durable Construction:** Weather-resistant aluminum body and ferrite magnet for longevity.
- **High-Quality Diaphragm:** Voice coil diaphragm designed for high-frequency response.

100W
Power (RMS)

160-7000Hz
Freq. Resp.

16 ohms
Impedance



Image 4.1: Key specifications of the DU-100 driver.

5 CORE

Powerful

Compression Horn Tweeter
Driver Unit



High Frequency 1" Voice Coil

150W
Max. Power

Universal Compatible Devices

 www.5core.com

Image 4.2: Driver unit emphasizing power and voice coil details.



- ➔ Renders great Treble output in Hise in Wooden Boxes or Plastic Columns.
- ➔ Premium Quality Y-30 Ferrite Magnet has been used.
- ➔ Voice Coil Diaphragm rendering High Frequency Response.
- ➔ T-yoke with Pole Universal tapping Inclusive Head
- ➔ Washers for better enforcements

Image 4.3: Internal features including ferrite magnet and voice coil diaphragm.

5. SETUP AND INSTALLATION

The DU-100 Compression Driver is designed for screw-on installation onto compatible horn flares. Ensure the horn has an 18 TPI threading for proper fitment.

Installation Steps:

1. **Select a Compatible Horn:** Choose a horn flare that matches the driver's 18 TPI threading.
2. **Attach the Driver:** Carefully screw the compression driver onto the horn flare until it is securely fastened. Do not overtighten.
3. **Connect Wiring:** Connect the positive (+) terminal of the driver to the positive output of your amplifier or crossover, and the negative (-) terminal to the negative output. Ensure a secure connection to prevent signal loss or short circuits.
4. **Mount the Assembly:** Mount the driver and horn assembly securely in your desired location, ensuring stability and proper sound dispersion.



The advertisement features a top section with a close-up of a horn and a driver unit. The '5 CORE' logo is in a stylized red font with a white outline, set against a black background with horizontal lines. Below it, 'HORN DRIVER' is written in large, bold letters, with 'HORN' in red and 'DRIVER' in white. Three icons are arranged horizontally: a link icon for 'STURDY AND DURABLE', a thumbs-up icon for 'HIGH QUALITY', and a speaker icon for 'CLEAR SOUND'. The bottom section shows two views of the grey DU-100 driver unit: a side view with a red cap and a top view showing the horn connection. To the right, the text 'EASY INSTALLATION OF MANY SIZES OF HORNS TO THE UNIT' is written in red. At the bottom left, a red bar contains a globe icon and the website 'www.5core.com'.

Image 5.1: The DU-100 driver is designed for easy installation with various horn sizes.

Your browser does not support the video tag.

Video 5.1: This video demonstrates the installation process of the 5 CORE DU-100 Compression Driver Unit onto a horn, showcasing how to connect the driver for optimal sound projection.

6. OPERATING INSTRUCTIONS

Once installed, the DU-100 Compression Driver operates as part of your audio system. It is designed to reproduce high frequencies efficiently.

- **Crossover Settings:** For optimal performance and protection, use an appropriate crossover network to filter out frequencies below 160 Hz, which are outside the driver's intended operating range.
- **Volume Control:** Adjust the volume through your amplifier or mixer. Avoid excessive volume levels that could lead to distortion or damage.
- **Compatible Devices:** This driver is compatible with various audio sources, including laptops, smartphones, tablets, and televisions, when integrated into a suitable amplifier and speaker system.

7. MAINTENANCE

The 5 CORE DU-100 Compression Driver requires minimal maintenance due to its robust and weather-resistant design.

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the driver. Avoid using harsh chemicals or abrasive materials.
- **Inspection:** Periodically check the connections for tightness and ensure there are no visible signs of damage to the wiring or the driver unit.
- **Environmental Protection:** While weather-resistant, storing the unit in a dry, protected environment when not in use will extend its lifespan.

8. TROUBLESHOOTING

If you experience issues with your DU-100 Compression Driver, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound Output	Incorrect wiring, loose connections, amplifier off, damaged diaphragm.	Check all wiring connections and polarity. Ensure amplifier is powered on and functioning. Inspect diaphragm for damage; replace if necessary.
Distorted Sound	Overdriving the speaker, incorrect crossover settings, damaged diaphragm.	Reduce volume. Verify crossover settings are appropriate for the driver's frequency range. Inspect diaphragm for damage.
Intermittent Sound	Loose wiring, faulty cable.	Check and secure all wiring connections. Test with a different speaker cable if possible.

If the problem persists after attempting these solutions, please contact 5 CORE customer support.

9. SPECIFICATIONS

Detailed technical specifications for the 5 CORE DU-100 Compression Driver:

5 CORE

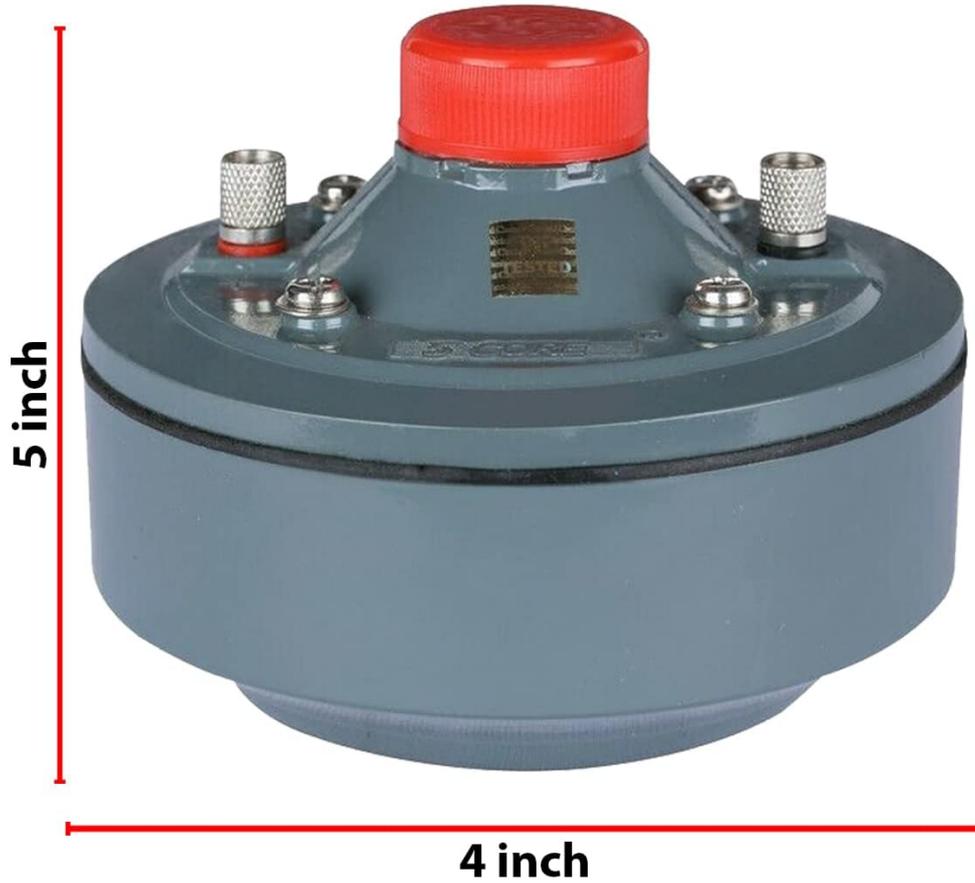


DU 100X



Weight :**4.85LB**

Dimension
H 5" x W 4"



 www.5core.com

Image 9.1: Physical dimensions and weight of the DU-100 driver.

Feature	Detail
Model Name	DU-100
Brand	5 CORE
Speaker Type	Tweeter (Compression Driver)
Power Handling (RMS)	100 Watts
Power Handling (PMPO)	1000 Watts
Frequency Response	160-7000 Hz
Impedance	16 Ohms
Magnet Type	Ferrite (Y-30)
Mounting Type	Screw-on (18 TPI Threading)

Feature	Detail
Product Dimensions (D x W x H)	5.5" x 5.5" x 5"
Weight	4.85 LB
Weather Resistance	Waterproof, Weather-resistant Aluminum Body
Audio Driver Type	Dynamic Driver
Connectivity Technology	Wired
UPC / GTIN	810047166856



Image 9.2: Front and back views of the DU-100 driver unit.

10. WARRANTY AND SUPPORT

The 5 CORE DU-100 Compression Driver comes with a Limited Warranty. Please refer to the warranty documentation included with your purchase for specific terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact 5 CORE customer service through their official website or the retailer where the product was purchased. Have your model number (DU-100) and proof of purchase ready when contacting support.