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## Fracarro 217910

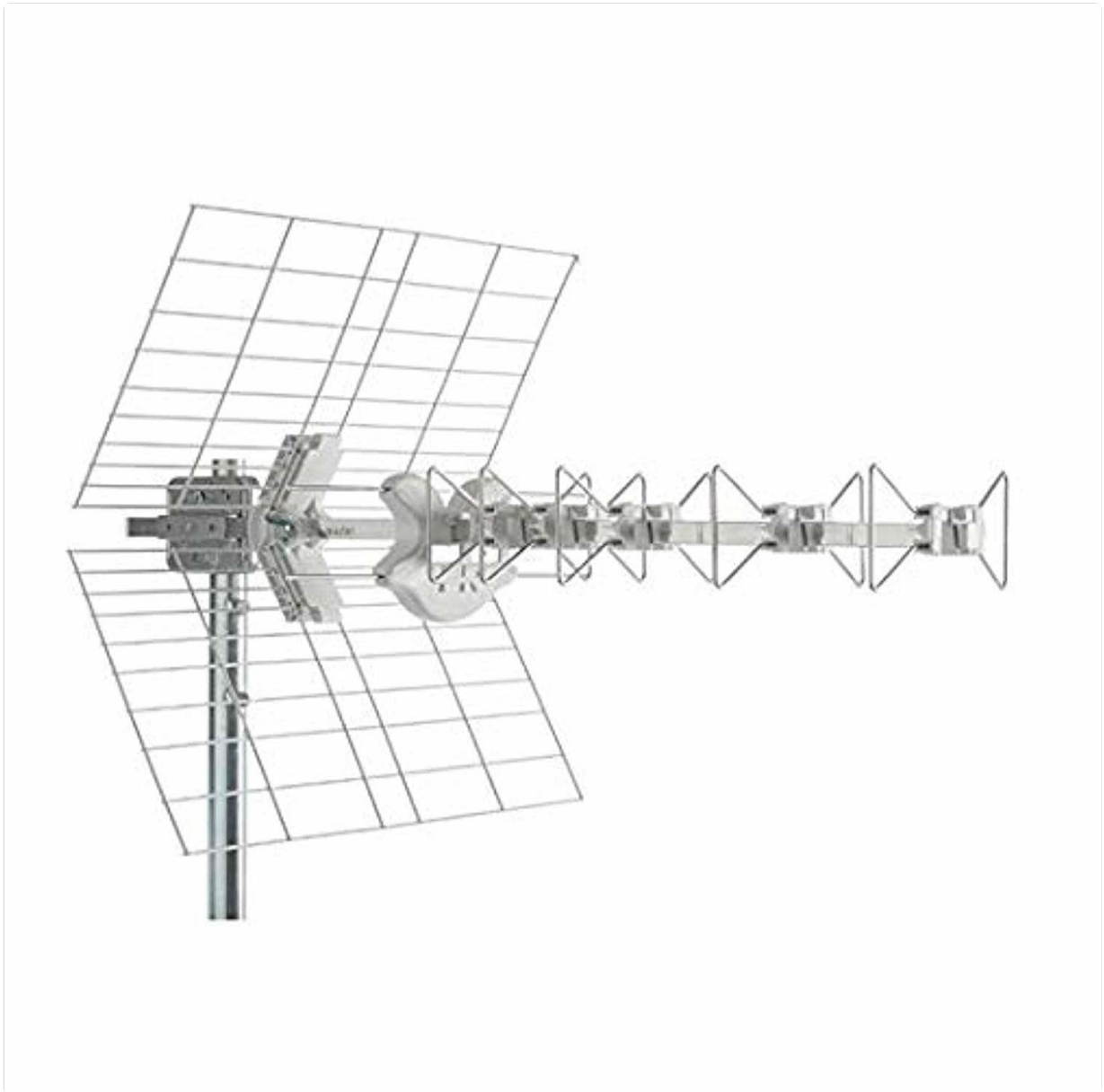
# Fracarro 217910 UHF 5HD LTE Antenna Instruction Manual

Model: 217910

## 1. PRODUCT OVERVIEW

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The Fracarro 217910 UHF 5HD LTE antenna is designed to provide enhanced reception for UHF television signals, optimized for high-definition broadcasts and resistant to LTE interference. This antenna offers improved electrical performance, boosting both signal gain and directivity. Its mechanical design incorporates pre-assembled components, including elements, a mast clamp, and reflector support. Both the dipole and reflector sections feature a quick-slide attachment system for straightforward assembly. The robust mast clamp, capable of securing to poles up to 60 mm in diameter, ensures excellent stability and a secure fit with its serrated surface.



*Image 1.1: The Fracarro 217910 UHF 5HD LTE antenna, showcasing its design and components.*

## 2. SAFETY INFORMATION

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Please read all safety instructions before installing or operating the antenna. Failure to follow these instructions may result in injury or damage to the product.

- **Electrical Safety:** Never install the antenna near power lines. Contact with power lines can be fatal.
- **Fall Hazard:** Exercise extreme caution when working on rooftops or elevated structures. Use appropriate safety equipment, including harnesses and stable ladders.
- **Weather Conditions:** Do not install the antenna during lightning storms, strong winds, or other adverse weather conditions.
- **Grounding:** Ensure the antenna and mast are properly grounded according to local electrical codes to protect against lightning strikes.
- **Tool Safety:** Use tools correctly and ensure they are in good working condition.

## 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged before beginning installation.

- Fracarro 217910 UHF 5HD LTE Antenna (pre-assembled sections)
- Mast Clamp Assembly
- Instruction Manual (this document)

*Note: Coaxial cable, F-connectors, and mounting mast are typically sold separately and are not included in the antenna package.*

## 4. SETUP AND INSTALLATION

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### 4.1. Antenna Assembly

1. Carefully unpack all components.
2. Extend the pre-assembled elements and reflector sections. The quick-slide attachment system allows these parts to lock into place with minimal effort. Ensure all elements are fully extended and securely locked.
3. Attach the dipole to the main boom if it is not already integrated.
4. Verify that all connections are firm and that no parts are loose.

### 4.2. Mounting the Antenna

1. Select a suitable mounting location, typically a rooftop or mast, ensuring it is free from obstructions and away from power lines. The location should provide a clear line of sight to broadcast towers.
2. Attach the mast clamp assembly to the antenna boom.
3. Secure the antenna to a sturdy mast (up to 60 mm diameter) using the provided mast clamp. Tighten all bolts firmly to prevent movement in windy conditions. The serrated surface of the clamp enhances grip.
4. Orient the antenna towards the local broadcast towers. A signal meter or online resources can assist in determining the optimal direction.

### 4.3. Connecting to Your TV/Receiver

1. Connect a 75 Ohm coaxial cable (not included) to the F-connector on the antenna's dipole. Ensure the connection is tight and weatherproof.
2. Route the coaxial cable safely down the mast and into your home, avoiding sharp bends or damage.
3. Connect the other end of the coaxial cable to the 'Antenna In' or 'RF In' port on your television or digital receiver.
4. If using an amplifier or signal booster (recommended for long cable runs or weak signal areas), connect it between the antenna and the TV/receiver according to its specific instructions.

## 5. OPERATION

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Once the antenna is installed and connected, perform a channel scan on your television or digital receiver.

1. Turn on your television or digital receiver.
2. Access the menu settings on your device.
3. Navigate to the 'Channel Setup', 'Auto Program', or 'Scan' option.

4. Initiate the channel scan. This process may take several minutes.
5. After the scan is complete, check the received channels for signal quality. If reception is poor, fine-tune the antenna direction slightly and repeat the channel scan.

## 6. MAINTENANCE

The Fracarro 217910 antenna is designed for durability and requires minimal maintenance.

- **Periodic Inspection:** Annually inspect the antenna, mast, and cabling for any signs of damage, corrosion, or loose connections.
- **Cleaning:** If necessary, gently clean the antenna elements with a soft cloth and mild detergent. Avoid abrasive cleaners.
- **Weatherproofing:** Ensure all coaxial cable connections are weatherproofed using self-amalgamating tape or silicone sealant to prevent water ingress.
- **Grounding System:** Verify that the grounding connections remain secure and free from corrosion.

## 7. TROUBLESHOOTING

If you experience issues with your antenna, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No signal or poor picture quality	<ul style="list-style-type: none"> <li>Incorrect antenna direction</li> <li>Loose or corroded cable connections</li> <li>Obstructions (trees, buildings)</li> <li>Weak signal strength</li> <li>TV/receiver not scanned for channels</li> </ul>	<ul style="list-style-type: none"> <li>Adjust antenna direction for optimal signal.</li> <li>Check and tighten all coaxial cable connections. Inspect for corrosion.</li> <li>Relocate antenna to a higher or clearer position if possible.</li> <li>Consider installing a signal amplifier.</li> <li>Perform a full channel scan on your TV/receiver.</li> </ul>
Intermittent signal loss	<ul style="list-style-type: none"> <li>Loose antenna mounting</li> <li>Weather interference (rain, heavy clouds)</li> <li>LTE interference</li> </ul>	<ul style="list-style-type: none"> <li>Ensure mast clamp bolts are securely tightened.</li> <li>This can be normal during severe weather; ensure connections are weatherproof.</li> <li>The antenna has built-in LTE filtering; if issues persist, ensure proper installation and grounding.</li> </ul>

## 8. SPECIFICATIONS

- **Model Number:** 217910
- **Brand:** Fracarro
- **Antenna Type:** UHF 5HD LTE
- **Color:** Blue
- **Impedance:** 50 Ohm

- **Maximum Mast Diameter:** 60 mm
- **GTIN (Global Trade Item Number):** 08016978092918

## 9. WARRANTY AND SUPPORT

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Fracarro products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or visit the official Fracarro website. Keep your proof of purchase for warranty claims.

For technical support, installation assistance, or to report a product issue, please contact Fracarro customer service through their official channels. Contact information can typically be found on the Fracarro website or on the product packaging.

**Online Resources:** For additional information, FAQs, and product updates, please visit the official Fracarro website.