AURON
QUICK START MANUAL

Before you begin:

- **Download the user manual:**
  Visit www.dnrbroadcast.com, click the **Support** button on the homepage, and select **Brochures / Manuals / Software**. Download the AURON User Manual and read it at least once.
- **Safety reminder:**
  Turn **OFF** both the AURON Master module and AURON Fader module before connecting them to avoid grounding issues that may damage input circuits.
  Power up the equipment in the following order:
  1. Turn **ON** the AURON Fader module.
  2. Turn **ON** the AURON Master module.
- **Maintenance tips:**
  - Clean the front panel periodically with a slightly damp cloth.
  - Avoid smoking, eating, or drinking near the console.

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1. Unpacking and assembly

- **Components:**
  - AURON Master module
  - AURON Fader module
  - Power cables
  - 44-Pin connector cable
  - Quick start manual
- **Assembly steps:**
1. Place the AURON Master module and AURON Fader module on a stable surface.
2. Connect the Fader module to the Master module using the provided 44-pin connector cable.
3. Ensure all connections are secure before powering ON the units in the above mentioned order.

3. Initial system setup

1. On the 7-inch touchscreen, tap "**CONFIGURE AURON**".
2. Select "**System Network**" and enter your network settings (IP address, DHCP, etc.).
3. Select "**Console Configuration**" and assign inputs/outputs.

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4. Assigning channels

1. Use the rotary encoder (above each channel) to configure inputs.
2. Select input source:
   - Mic-Line
   - USB-VoIP
   - Dante (if installed on Slot.2, channel 1-8))
   - WPC (Wireless Phone Channel) (if installed on Slot.2, channel 1-2)
3. Adjust Gain, EQ, AUX Send, Phantom Power (for mics), and Routing.

5. Configuring the Master section

1. Set up CRM & Studio monitors:
   - Select Monitor Source (PGM, AUX, CUE, etc.).
   - Adjust speaker and headphone levels. Don't turn OFF before power down.
2. Configure GPIO settings:
   - Assign remote triggers for On-Air lights, fader start, etc.
3. Set up the silence detector (optional).

6. Basic operation

6.1. **Using the Fader controls**

- Raise/lower faders to adjust volume levels.
- Press "ON" to activate a channel.
- Use "CUE" to preview audio before it goes live.

6.2. **Talkback & Communication**

- Use the Talkback function to communicate with VoIP callers or external studios.
- Adjust Talkback gain and Auto-Dim settings in the software.

6.3. **Using the touchscreen for monitoring**

- The 7-inch display shows audio levels, routing, and GPIO triggers.
- Navigate through settings using the 4 rotary encoders below the screen and push to adjust.

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OVERVIEWS:

1. Master module overview

- **7-Inch LCD touchscreen:**
    - Provides intuitive control over customizable settings and routing.
- **Control sections:**
    - Studio Section: Select and control input sources for the Studio Monitor.
    - CRM (Control Room Monitor) section: Manage input sources for the Control Room Monitor.
    - Control section: A bank of 16 switches for triggering jingles and other functions in your playout software with Ember+ protocol.

2. Fader module overview

- **Channel modules:**
    - Each fader module supports 10 channels.
    - Modules can be configured with different cards:
        - Mic/Line Card: For connecting microphones and line-level inputs.
        - USB/VoIP/Line Card: For connecting USB and line inputs, with added VoIP functionality over USB.
- **Controls:**
    - K-Alps faders: Smooth, high-quality faders for precise audio control.
    - OLED displays: Located above each encoder, providing clear channel information.
    - Rotary encoders: For adjusting parameters displayed on the OLED screens.
    - Programmable switches: Two customizable switches per channel, pre-programmed for Mic/Line and Talk Back functions.
    - CUE and ON switches: For instant access to control and monitoring functions.

3. Backpanel connections

- **Master module:**
  - Ethernet connector: For network integration.
  - USB input: Reserved for future use.
  - Power connector: Supports 100 to 240 volts at 50 or 60Hz AC.
  - CRM and Studio Phones Outputs: For connecting control room and studio monitors or headphones.
  - Master Outputs: Balanced XLR outputs for left and right channels, and a digital AES-3 output.
- **Fader module:**
  - Mic/Line Inputs: For connecting microphones and line-level devices.
  - Remote/USB connector:
    - For Mic/Line channels, use the RJ45 connector for remote connections.
    - For VoIP channels, use the USB connector for direct PC connection.
  - Insert/Cleanfeed and GPO Jacks: For inserting external processors and controlling studio remotes or On-Air lights.

4. Software and configuration

- DNR operating system (DNR OS):
  - A custom-built operating system designed specifically for D&R products, providing a robust and efficient embedded Linux environment.
  - **Features:**
    - Remote updating capabilities.
    - Custom splash logo at start-up.
    - Small footprint with fast boot time.
    - Easy configuration through a menu-driven interface.
    - Hardware compatibility with Compute Module v3, with potential future support for CM4.
    - Automatic and orderly start of essential Auron processes, including the gateway, logger, address, and engine.

5. Expansion options

- **Card slots:**
  - The AURON Fader module includes two versatile card slots on the back panel, providing a range of input and output options to enhance your audio experience.
  - Slot 1: Supports Telco POTS card (optional) for traditional phone line connectivity
  - Slot 1: Supports WPC (Wireless Phone Channel) card for wireless connectivity
  - Slot 1: Supports AES input for a high clean audio input.
  - Slot 1: Supports RIAA Pre-amp for connecting the old fashion record player.
  - Slot 2: Supports Dante card for networked audio integration.

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6. Customer support

- For further assistance, contact D&R Electronica BV support:
    - Email: support@d-r.nl
    - Fill in the support form on the header of our homepage by clicking on the support button. www.dnrbroadcast.com

7. Common issues & fixes

Issue	Possible Cause	Solution
No power	Loose cable	Check power connections
No audio output	Wrong routing	Verify input/output settings
No microphone sound	Phantom power off	Enable in software
USB/VoIP not working	Incorrect drivers	Check USB settings
Crackling audio	Faulty cable	Replace cables

8. Factory reset

If needed, restore factory settings via: **System Miscellaneous > Reset Console**

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