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› DJFHDIHRFHBVCASIJ OSC482 3-in-1 USB PC Virtual Oscilloscope, Signal Generator, and Logic Analyzer User Manual

## DJFHDIHRFHBVCASIJ OSC482

# DJFHDIHRFHBVCASIJ OSC482 3-in-1 USB PC Virtual Oscilloscope, Signal Generator, and Logic Analyzer User Manual

Model: OSC482

Brand: DJFHDIHRFHBVCASIJ

## INTRODUCTION

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This manual provides instructions for the DJFHDIHRFHBVCASIJ OSC482, a versatile 3-in-1 device functioning as a USB PC Virtual Digital Oscilloscope, a 13MHz Signal Generator, and a 4-Channel Logic Analyzer. This high-performance instrument is designed for testing and analyzing digital systems, developing and debugging communication programs, and monitoring digital signals.

The OSC482 connects to a PC via USB, utilizing software to display waveforms and analyze data. Its robust industrial design features an aluminum alloy surface for enhanced durability and heat resistance.

## KEY FEATURES

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- **3-in-1 Functionality:** Combines a Digital Oscilloscope, Signal Generator, and Logic Analyzer in one compact unit.
- **High Performance:** 2-channel oscilloscope with 20M bandwidth and 50MSa/s sampling rate.
- **Signal Generation:** Integrated 13MHz signal generator.
- **Logic Analysis:** 4-channel logic analyzer for digital signal sampling and analysis.
- **PC Connectivity:** USB interface for virtual instrument operation via PC software.
- **Protocol Analysis:** Supports analysis with various standard protocols for straightforward communication data interpretation.
- **Durable Design:** Features an aluminum alloy casing for enhanced hardness, heat resistance, and wearability.

## PACKAGE CONTENTS

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Verify that all items listed below are present in your package:

- OSC482 Main Unit
- USB Cable
- Oscilloscope Probes (2x)
- Logic Analyzer Cable with Test Hooks
- Signal Generator Output Cable (BNC to Alligator Clips)
- Software Installation CD (or download link)



Image: The OSC482 main unit shown with its accompanying accessories, including USB cable, oscilloscope probes, logic analyzer cable with test hooks, and signal generator output cable.

## DEVICE OVERVIEW

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Familiarize yourself with the ports and indicators on the OSC482 unit.

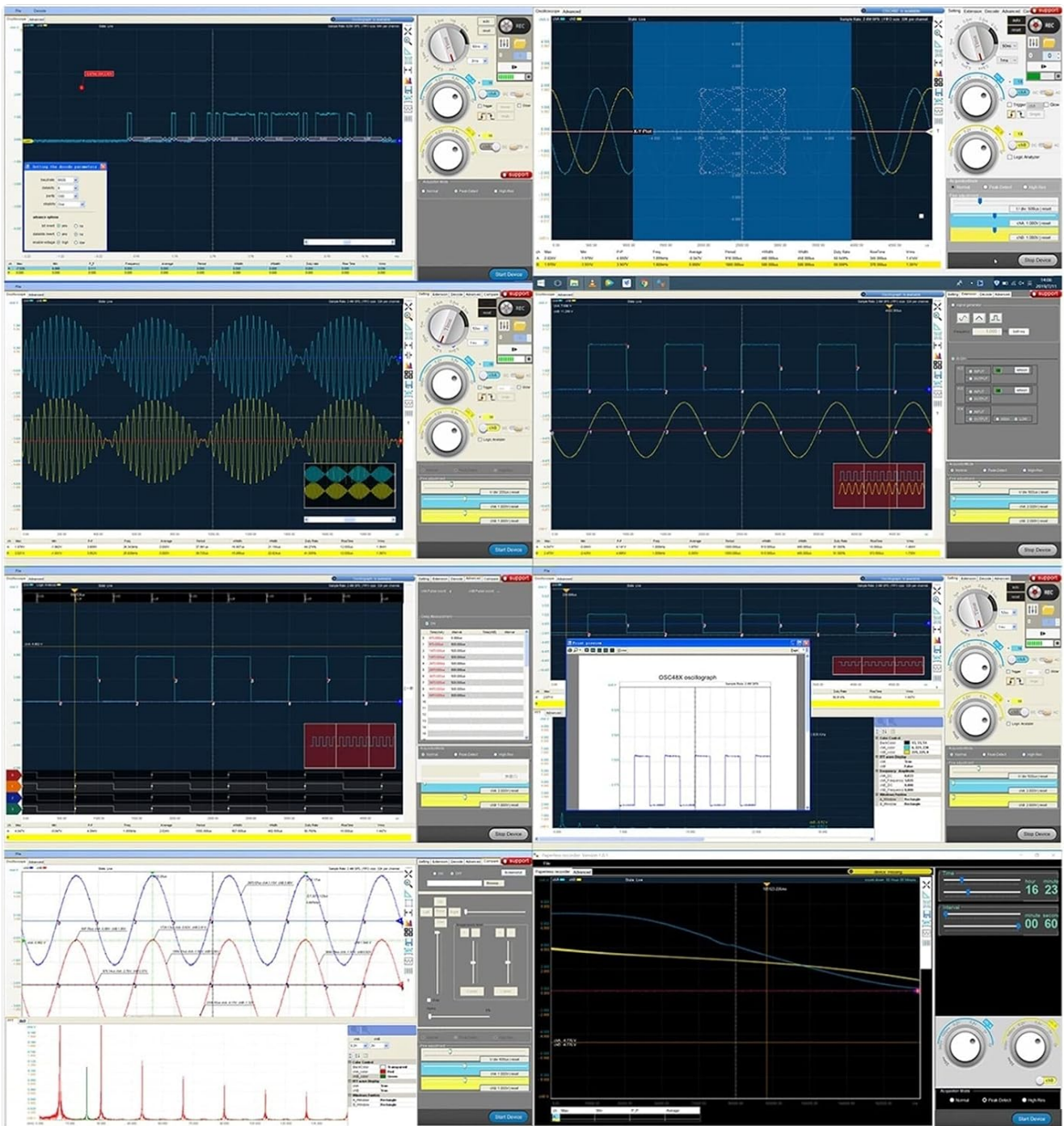


Image: A detailed view of the OSC482 device with key components labeled. This includes Channel A (BNC), Channel B (BNC), DB15 interface (for logic analyzer), Power LED (red), Status LED (green), and USB B type port.

## Front Panel (Input/Output Side)

- **Channel A (BNC):** Oscilloscope input channel A.
- **Channel B (BNC):** Oscilloscope input channel B.
- **DB15 Interface:** Multi-pin connector for Logic Analyzer input and Signal Generator output.



Image: The front panel of the OSC482, clearly showing the two BNC connectors for oscilloscope channels A and B, and the DB15 interface for logic analysis and signal generation.

### Rear Panel (USB Side)

- **USB B Type Port:** Connects the device to your PC.
- **Power LED (Red):** Indicates the device is powered on.
- **Status LED (Green):** Indicates device activity and connection status.



Image: The rear panel of the OSC482, displaying the USB B type port for PC connection, and the red Power LED and green Status LED.

## SETUP GUIDE

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### 1. Software Installation:

Insert the provided software installation CD into your PC's optical drive, or download the latest software from the manufacturer's official website (refer to product packaging or a separate quick start guide for the URL). Follow the on-screen instructions to install the necessary drivers and application software.

### 2. Connect to PC:

Using the supplied USB cable, connect the USB B type port on the OSC482 to an available USB port on your computer. The Power LED (red) on the OSC482 should illuminate, indicating power is supplied.

### 3. Driver Verification:

After connecting, your operating system should automatically detect and install the drivers. You can verify successful driver installation through your PC's Device Manager. Look for the OSC482 device under "Universal Serial Bus devices" or "Ports (COM & LPT)".

#### 4. **Launch Software:**

Launch the OSC482 application software from your desktop shortcut or Start Menu. The Status LED (green) on the OSC482 should blink or illuminate steadily, indicating a successful connection to the software.

## OPERATING INSTRUCTIONS

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This section provides a general overview of operating the OSC482's primary functions. For detailed software operation, refer to the software's built-in help documentation.

### 1. Oscilloscope Function

1. **Connect Probes:** Connect oscilloscope probes to Channel A and/or Channel B BNC inputs. Ensure probes are properly calibrated (if applicable).
2. **Connect to Circuit:** Attach the probe tips to the test points on your circuit.
3. **Configure Software:** In the OSC482 software, select the Oscilloscope mode. Adjust settings such as vertical scale (Volts/Div), horizontal scale (Time/Div), trigger level, and coupling (AC/DC/GND) as needed.
4. **Start Measurement:** Click the "Run" or "Start" button in the software to begin waveform acquisition and display.
5. **Analyze Waveforms:** Use cursors, measurement functions, and zoom features within the software to analyze the displayed waveforms.

### 2. Signal Generator Function

1. **Connect Output:** Connect the signal generator output cable from the DB15 interface to your target circuit or device.
2. **Select Mode:** In the OSC482 software, select the Signal Generator mode.
3. **Configure Signal:** Choose the desired waveform type (e.g., sine, square, triangle), frequency (up to 13MHz), amplitude, and offset.
4. **Generate Signal:** Activate the signal generation. You can monitor the output using the oscilloscope function simultaneously if desired.

### 3. Logic Analyzer Function

1. **Connect Logic Probes:** Connect the logic analyzer cable to the DB15 interface. Attach the individual test hooks to the digital signal lines you wish to analyze (up to 4 channels). Ensure a common ground connection.
2. **Select Mode:** In the OSC482 software, select the Logic Analyzer mode.
3. **Configure Channels:** Assign names to channels, set trigger conditions (e.g., rising edge, falling edge, pattern match), and define the sampling rate.
4. **Start Acquisition:** Begin data acquisition. The software will display the digital waveforms.
5. **Protocol Analysis:** Utilize the built-in protocol decoders (e.g., UART, SPI, I2C) to interpret the captured digital signals into meaningful data.

## SOFTWARE INTERFACE EXAMPLES

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The OSC482 software provides a comprehensive graphical user interface for controlling the device and visualizing

data. Below are examples of typical screens you may encounter.

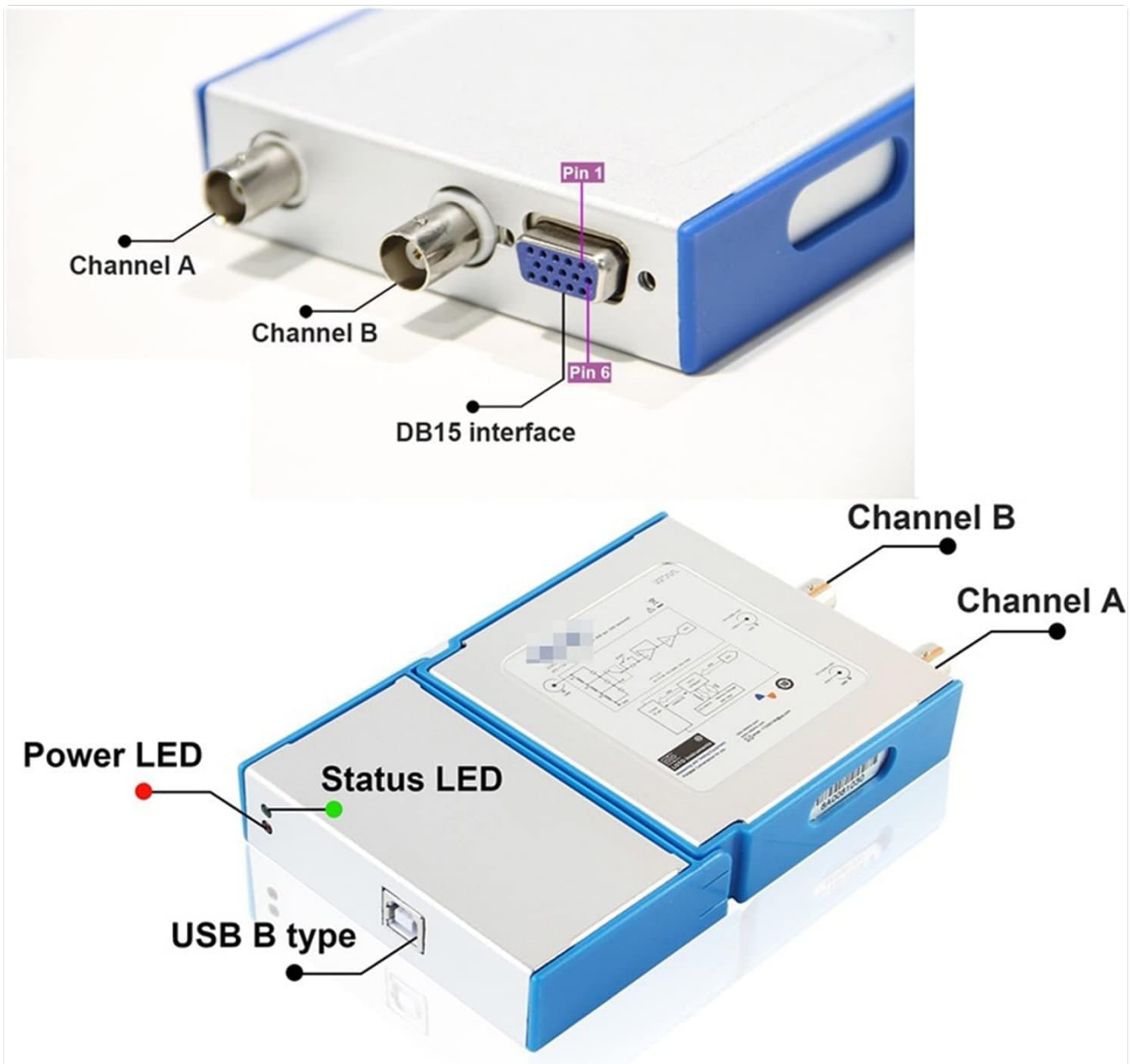


Image: A collage of screenshots demonstrating various modes and functionalities of the OSC482 software, including oscilloscope waveform displays, signal generator controls, and logic analyzer data views with protocol decoding.

The software typically features a main display area for waveforms, control panels for adjusting parameters (e.g., time base, voltage scale, trigger settings), and dedicated sections for each instrument function (oscilloscope, signal generator, logic analyzer). Refer to the software's help menu for detailed explanations of all controls and features.

## SPECIFICATIONS

Feature	Specification
Model	OSC482
Type	USB PC Virtual Digital Oscilloscope, Signal Generator, Logic Analyzer (3-in-1)
Oscilloscope Channels	2 Channels
Oscilloscope Bandwidth	20 MHz
Max Sample Rate	50 MSa/s

Feature	Specification
Signal Generator Frequency	Up to 13 MHz
Logic Analyzer Channels	4 Channels
Connectivity	USB
Power Source	USB Bus Power (No external batteries required)
Manufacturer	DJFHDIHRFHBVCASIJ

## TROUBLESHOOTING

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- **Device Not Detected:**

Ensure the USB cable is securely connected to both the OSC482 and your PC. Try a different USB port or a different USB cable. Verify that the Power LED (red) on the OSC482 is illuminated. Check Device Manager for any unrecognized devices or driver errors.

- **Software Fails to Connect:**

Confirm that the device drivers are correctly installed. Close and restart the OSC482 software. Disconnect and reconnect the USB cable. Ensure no other applications are using the USB port or device.

- **No Waveform Displayed:**

Check probe connections to the device and the circuit. Ensure the oscilloscope probes are properly connected and making good contact. Adjust the vertical scale (Volts/Div) and horizontal scale (Time/Div) in the software. Verify trigger settings are appropriate for the signal being measured.

- **Inaccurate Measurements:**

Ensure probes are correctly calibrated (if applicable, typically a square wave compensation adjustment). Check for proper grounding of the device and the circuit under test. Verify software settings match the input signal characteristics.

## MAINTENANCE

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- **Cleaning:**

Wipe the exterior of the device with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth with mild detergent, then wipe dry. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device ports.

- **Storage:**

When not in use, store the OSC482 and its accessories in a clean, dry, and dust-free environment, away from direct sunlight and extreme temperatures. Keep all cables neatly coiled to prevent damage.

- **Software Updates:**

Periodically check the manufacturer's website for software and driver updates to ensure optimal performance and access to new features.

## WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the documentation included with your purchase or contact the retailer/manufacturer directly. Keep your proof of purchase for warranty claims.

Manufacturer: DJFHDIHRFHBVCASIJ

