

LDG Electronics

MC-7600 Meter For Icom IC-7600

For Icom IC-7600 Transceiver



LDG Electronics, 1445 Parran Road, Saint Leonard, MD 20685

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Specifications & Ratings

- Meter: 3.0" Illuminated Analog Meter
- Illumination: Color LED Backlight, Adjustable Brightness
- Radio Connection: Stereo 3.5mm tip-ring-sleeve
- DC Power supply, Stereo Cable included; DC Connector: 5.5x2.5mm Center Positive
- Voltage: 13.8 VDC +/- 15%
- Current Draw: 500 mA max
- Dimensions: 4.5"x3.5"x3.5" (114 x 90 x 90mm)
- Weight: 13 ounces (368 grams)

Introducing the MC-7600 Meter

Congratulations on selecting the LDG Electronics MC-7600 meter. The LDG Color Analog Meter is a precision instrument that will provide many years of quality service. The meter provides a three-inch meter to compliment the “virtual” meter on your IC-7600’s display panel. It can show S-Meter reading, final amplifier voltage and current, power output, SWR, compression level and ALC level.

The meter is illuminated by high-visibility color LEDs from behind. This color backlighting is very attractive, easy on the eyes during long operating sessions, and makes it a snap to read the meters precisely. Each meter has adjustments on the back for separate color and brightness settings. Be sure to read the entire manual to ensure safe operation and long life of the meter. With proper care this meter will provide many hours of enjoyable operation.



Welcome Notes

Welcome to the LDG Electronics family of amateur radio equipment! Starting in 1995 and based in St. Leonard, Maryland, LDG defines state of the art equipment for the Amateur (“Ham”) radio community. In addition to offering established equipment, we’re continuing to grow our product line. Check our web site (<https://www.ldgelectronics.com>) to learn about new developments!

Technical Support

The LDG customer support staff are ready to answer your product questions by telephone and by e-mail. We know that you will enjoy your product even more knowing LDG is ready to answer your questions as the need arises. Visit the Support Center at: ldgelectronics.com/support

Our website links you to the on-line Customer Support Center where you can send us a question, do your own research in the LDG Product Knowledge Books, and read through lists of frequently asked product questions. LDG regularly updates on-line information, so the best on-line support information is available all day and every day.

The LDG website provides links to product manuals just in case you lose this one! When you are thinking about the purchase of other LDG products our website also has complete product specifications and photographs you can use to help make your purchase decision. Don't forget the links to all the quality LDG Dealers who are also ready to help you make that purchase decision.

Two-Year Transferable Warranty

Your product is warrantied against manufacturer defects in parts and labor for two full years from the date of purchase. This two-year warranty is also transferable. When you sell or give away your LDG product, give the new owner a copy of the original sales receipt and the two-year warranty transfers to the new owner.

There is no need to complete a warranty card or to register an LDG product. Your product receipt establishes eligibility for warranty service, so save that receipt. Send your receipt with the product whenever you send your product to LDG for repair. Products sent to LDG without a receipt are considered requests for out-of-warranty repair.

LDG does not guarantee product damage or abuse. This means that a product failure, as determined by LDG, to be caused by the customer or by other natural calamity (ex: lightning) is not covered under the two-year warranty. Damage can be caused by failure to heed the product's published limitations and specifications or by not following good Amateur practice.

Out Of Warranty Service

If a product fails after the warranty period, LDG wants to help you get it fixed. Send the product to us for repair any time you like. We will determine what needs to be done and contact you with an estimate.

Returning Your Product For Service

Returning a product to LDG is easy. We do not require a return merchandise authorization. Visit the Customer Support Center: www.ldgelectronics.com/support and download the LDG Product Repair Form. List all contact information including email address and all details of problems you are experiencing. For warranty service, please include a copy of your purchase receipt. After the unit is received and logged into our service department system, an email will be sent confirming your unit is in process. Repairs can take three to four weeks but are usually faster. The most recent information on returning products for service is found at the LDG Customer Support Center. Ship unit with repair form to:

LDG Electronics, Inc.
Attn: Repair Department
1445 Parran Rd
St. Leonard, MD 20685

Product Feedback

We encourage product feedback! Tell us what you really think of your LDG product. In a card, letter, or email (preferred) tell us how you used the product and how well it worked in your application. Send along a photo or even a schematic or drawing to illustrate your narrative. We would like to share your comments with our staff, our dealers, and even other customers on the LDG website.

Your MC-7600

Your MC-7600 is a quality, precision instrument that will give you many years of outstanding service; take a few minutes to get to know it.

Front Panel:

The front panel of the MC-7600 displays only the meter face. No controls are present on the front panel.



Back Panel:

The back panel of the MC-7600 has two jacks and three controls:



- **On/Off:** Turns Power on & off
- **Color:** Adjusts illumination color
- **Bright:** Adjusts illumination brightness
- **Radio:** 1/8" (3.5mm) stereo jack connects the MC-7600 to your IC-7600 transceiver
- **+12VDC:** Connect the supplied DC Power supply (5.5 x 2.5 mm connector and a source of 13.8 +/-15% VDC at 500 mA or above, center pin positive)

Installing the MC-7600

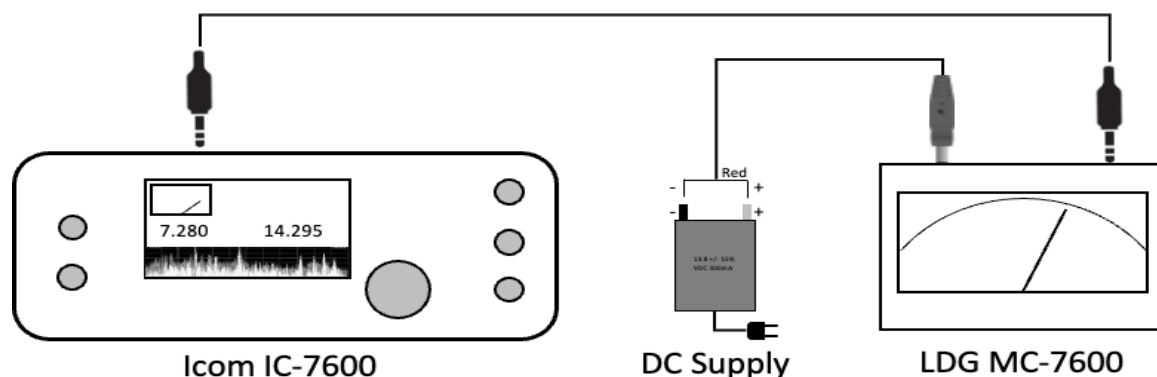
The MC-7600 is intended for indoor use only; it is not water-resistant. If you use it outdoors, you must protect it from rain.

Always turn your radio off before plugging or unplugging anything. The radio may be damaged if cables are connected or disconnected while the power is on.

With the radio turned off, connect one end of the supplied stereo cable to the external meter Jack on the back of the Radio. Connect the other end of the cable to the Jack marked “Radio” on the back of the meter.

Connect the included DC Power supply.

The push button on/off switch on the back of the meter controls the power to the unit. With the unit on, adjust the brightness and color of the meter. Position the radio and meter for normal use and enjoy the view.



Operation

Your MC-7600 meter operates automatically without your intervention. Simply adjust the Color and Brightness controls to your taste. You can leave your MC-7600 meter connected permanently to your IC- 7600 transceiver. If the meter is powered separately from the radio the light will stay on even when you turn your radio off. Simply press the On/Off button on the back of the meter to turn the light off.

Care and Maintenance

Your MC-7600 meter is essentially maintenance-free. The outer case may be cleaned as needed with a soft cloth slightly dampened with household cleaning solution. As with any modern electronic device, the MC- 7600 can be damaged by temperature extremes, water, impact, or static discharge.

Configuring the IC-7600

The MC-7600 meter by default shows signal strength on receive in the customary S-Units plus dB over S9. On transmit the MC-7600 meter mirrors the setting you have selected in the IC-7600 setup menu. Options include:

- RF power output percent
- Standing Wave Ratio
- ALC level
- Speech compression level
- Final amplifier drain current
- Final amplifier drain voltage

Press the Exit/Set button several times to close a multi-function screen if necessary. Push SET (F6) to select SET mode. Press ACC (F2), then press UP (F1) or DOWN (F2) to select External Meter Output. Turn the main tuning knob to select the desired setting. The default Auto setting shows signal strength on receive and the transmit parameter selected with the front panel METER setting.

External Meter Output	Auto
Selects the desired item for an external meter indication.	• Auto : Outputs the receiving signal strength level during receive, and outputs the selected level (selected with [METER]), during transmit. (default) • S : Outputs the receiving signal strength level during receive. • Po : Outputs the transmitting power level during transmit. • SWR : Outputs the VSWR level during transmit. • ALC : Outputs the ALC level during transmit. • COMP : Outputs the compression level during transmit. • VD : Outputs the drain terminal voltage of the final amplifier MOSFETs. • Id : Outputs the drain current of the final amplifier MOSFETs.

You can adjust the External Meter Level. Press DOWN (F2) to select External Meter Level, then turn the main tuning knob to select the desired value.

External Meter Level	 50%
Sets the output level for an external meter indication with in 0% to 100% range in 1% steps.	
• Approx. 2.5 V at 50% (default) setting for full-scale indication. (4.7 kΩ impedance)	

