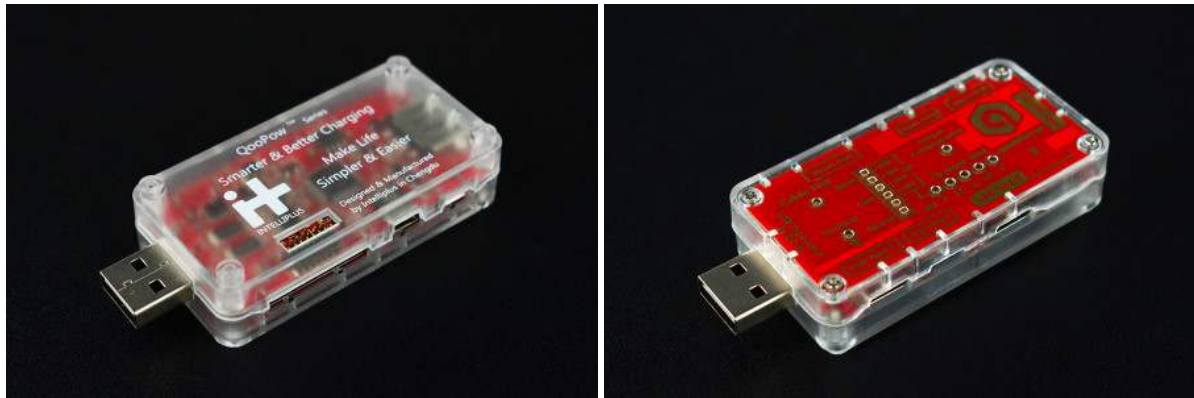# USB Cable and Charger Tester – qualMeter X (Advanced)

SKU:FIT0519

INTRODUCTION

qualMeter is an easy and cost-efficient DIY device, which can help you to simply diagnose the quality of your USB charging cable and charger in a glance.
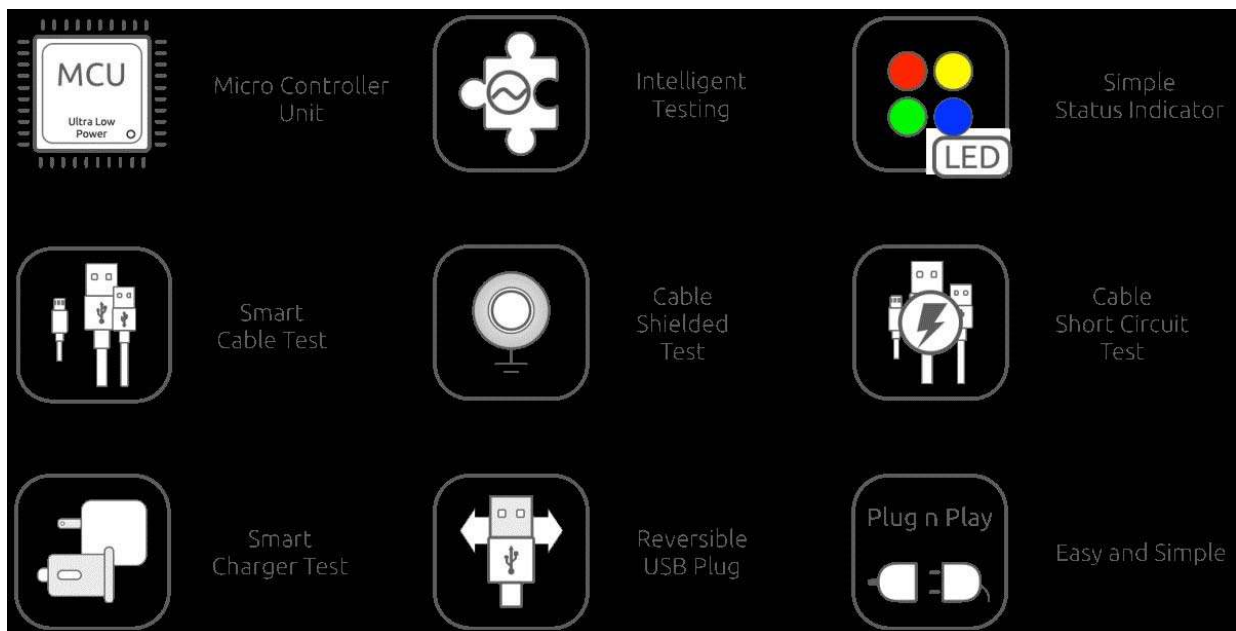
Unlike those expensive and bulky professional devices, qualMeter intends to provide a compact (portable), easy and simple solution at a fairly low cost. It's designed for non-tech people but can be very handy to tech-savvies for roughly testing as well.

There are no numbers to read, no buttons, no extra operations, no calculations and no technical background is needed. All you need to know is just colors, the Green, Yellow and Red, which correspond to Best(Good), Fair (OK) and Worst(Bad). That's it!

You see the colors; you see the quality of your cable and charger.

qualMeter handles a wide range of mainstream USB charging cables. It also tests loading capability of the 5V chargers to roughly define their quality.

A smart device for smart decisions

qualMeter has embedded a smart, ultra-low power Micro-Processor. It works seamlessly to provide two major functions, Cable Test mode and Charger Test mode.

There are no number readings and no calculations! qualMeter directly tells you the testing results by LEDs. It's really that simple and easy!

The qualMeter series has two main family members: qualMeter Basic and qualMeter X.

Items	qualMeter Basic	qualMeter X
Main Material	Raw PCB (CCL FR-4) Pb free	Raw PCB (CCL FR-4) Pb free Transparent PC
Color (PCB)	Blue	Red
Surface Marking Treatment	Gold coated marking	
Dimension (USB Type A Female not included)	52.8mm x 23.8mm x 11mm	62.8mm x 32.8mm x 15.8mm
Power Input	USB Type A Reversible Male Connector	
Input Voltage	4.5~5.5Vdc	
Cable Test Connectors	USB Type A Female, Micro-USB Type A Female Mini-USB Female, 30-pin Female and 8-pin Female	USB Type A Female, Micro-USB Type A Female Mini-USB Female, 30-pin Female, 8-pin Female and 2x USB Type-C Female
Cable Test Current	1A@5Vdc	1A or 2A@5Vdc Auto determination of testing current
Charger Output Test Range	1A/2.1/2.4/3A (4 stops)	1~3.1A, 100mA each step with Compensation Indicator
LED Indicators	Green x2(Good), Yellow x2(Fair), Red x2(Worst), Blue x2(Cable Test) and Orange x1(Charger Test)	Green x2(Good/400mA/300mA), Yellow x2(Fair/200mA/100mA), Red x2(Worst), Blue x2(Cable Test) and Orange x6(Charger Test)

qualMeter Basic is designed for non-tech people who have very limited knowledge on electronics. qualMeter X is more for people who wanted to know more about your charging environment.

Functions	qualMeter Basic	qualMeter X
Easy LED Indicators	Y	Y
Suport MicroUSB, MiniUSB, 8-pin, 30-pin	Y	Y
Reverisable USB Type A input port	Y	Y
Basic Cable Testing @1A	Y	Y
Cable Shielded Test	Y	Y
Cable Short Circuit Test	Y	Y
Basic Charger Test @1A	Y	Y
Plug n Play	Y	Y
Advanced Charger Testing @1~3.1A	Y (Partial),4 stops with miniLoad	Y (Full Range),100mA each stop
MCU (Micro-Processor)	8-bit, 8MHz	32-bit, 48MHz
Suport USB Type-C	N	Y, 2 ports
Advanced Cable Testing (up to 2A)	N	Y
Adjustable Electronic Load	N	Y
Charger Output Conpensation Test	N	Y
Flash memory	N	Y
Enclosure	N	Y
Extension Port for Future Functions	N	Y
Firmware Upgradeable	N	Y

Testing Ports: USB Type C, USB Type AF, Micro-USB, Mini-USB, 30-Pin and 8-Pin.

SHIPPING LIST
- USB Cable and Charger Tester – qualMeter X (Advanced) x1