



## Wi-Fi CERTIFIED™ Interoperability Certificate

This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing.  
Learn more: [www.wi-fi.org/certification/programs](http://www.wi-fi.org/certification/programs)



**Certification ID: WFA55947**

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|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>Date of Last Certification</b> | August 19, 2014                    |
| <b>Company</b>                    | Microsoft                          |
| <b>Product</b>                    | Miracast Dongle                    |
| <b>Model Number</b>               | HD-10                              |
| <b>Product Identifier(s)</b>      |                                    |
| <b>Category</b>                   | Media Adapter                      |
| <b>Hardware Version</b>           | Product: 1.0, Wi-Fi Component: 1.0 |
| <b>Firmware Version</b>           | Product: 2.0, Wi-Fi Component: 2.0 |
| <b>Operating System</b>           | Linux                              |
| <b>Frequency Band(s)</b>          | 2.4 GHz                            |

### Summary of Certifications

| <b>CLASSIFICATION</b>   | <b>PROGRAM</b>           |
|-------------------------|--------------------------|
| Connectivity            | Wi-Fi CERTIFIED™ b, g, n |
|                         | WPA™ - Personal          |
|                         | WPA2™ - Personal         |
|                         | Wi-Fi Direct®            |
| Optimization            | WMM®                     |
| Access                  | Wi-Fi Protected Setup™   |
| Applications & Services | Miracast® - Display      |



**Security**

WPA™ - Personal  
WPA2™ - Personal

**Wi-Fi CERTIFIED™ b**

**Wi-Fi CERTIFIED™ g**

**Wi-Fi CERTIFIED™ n**

2.4 GHz  
2 Spatial Streams 2.4 GHz  
Short Guard Interval  
STBC Receive  
40 MHz operation in 2.4 GHz, with coexistence mechanisms  
HT Duplicate (MCS 32)  
RIFS Test

**Wi-Fi Direct®**

2.4 GHz

**WMM®**

**Wi-Fi Protected Setup™**

2.4 GHz  
PIN  
Push-Button (PBC)

**Miracast®**

Release 1  
Display Device