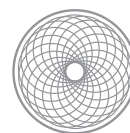


# User Manual

Wireless HDMI Solution

WDAM2120 / WDAM2120-RX





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## FCC Statement

### Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

### This device is intended only for OEM integrators under the following conditions:

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed

**IMPORTANT NOTE:** In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

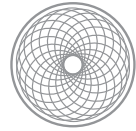
### End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID: **JVPRX**". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

### Manual Information To the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.



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## IC Statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

### **Radiation Exposure Statement:**

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### **Déclaration d'exposition aux radiations:**

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

### **This device is intended only for OEM integrators under the following conditions: (For module device use)**

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

### **Cet appareil est conçu uniquement pour les intégrateurs OEM dans les conditions suivantes: (Pour utilisation de dispositif module)**

- 1) L'antenne doit être installée de telle sorte qu'une distance de 20 cm est respectée entre l'antenne et les utilisateurs, et
- 2) Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

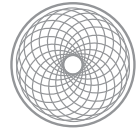
Tant que les 2 conditions ci-dessus sont remplies, des essais supplémentaires sur l'émetteur ne seront pas nécessaires. Toutefois, l'intégrateur OEM est toujours responsable des essais sur son produit final pour toutes exigences de conformité supplémentaires requis pour ce module installé.

### **IMPORTANT NOTE:**

In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the IC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate Canada authorization.

### **NOTE IMPORTANTE:**

Dans le cas où ces conditions ne peuvent être satisfaites (par exemple pour certaines configurations d'ordinateur portable ou de certaines co-localisation avec un autre émetteur), l'autorisation du Canada n'est plus considéré comme valide et l'ID IC ne peut pas être utilisé sur le produit final. Dans ces circonstances, l'intégrateur OEM sera chargé de réévaluer le produit final (y compris l'émetteur) et l'obtention d'une autorisation distincte au Canada.



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### **End Product Labeling**

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains IC: 6175A-RX".

### **Plaque signalétique du produit final**

Ce module émetteur est autorisé uniquement pour une utilisation dans un dispositif où l'antenne peut être installée de telle sorte qu'une distance de 20cm peut être maintenue entre l'antenne et les utilisateurs. Le produit final doit être étiqueté dans un endroit visible avec l'inscription suivante: "Contient des IC: 6175A-RX".

### **Manual Information To the End User**

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.

### **Manuel d'information à l'utilisateur final**

L'intégrateur OEM doit être conscient de ne pas fournir des informations à l'utilisateur final quant à la façon d'installer ou de supprimer ce module RF dans le manuel de l'utilisateur du produit final qui intègre ce module.

Le manuel de l'utilisateur final doit inclure toutes les informations réglementaires requises et avertissements comme indiqué dans ce manuel.

### **Caution :**

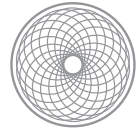
(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

### **Avertissement:**

(i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.



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# Safety and Caution

\*Please read this user manual carefully before your installation.

- Do not open the cover, it may cause some damages.
- Please keep the WHDI Devices at a ventilated place and avoid sun exposure.
- Do not put any heavy objects on the WHDI Devices.
- Please unplug the power if you don't use the WHDI Devices for a long period time.
- Do not use organic solvents or volatile cleaners but a dry cloth to wipe the WHDI Devices.
- Please place the WHDI devices horizontally and avoid vibration to prevent damage to the WHDI Devices.

# LED Instruction

## TX LED

Mode	Status	LED
Standby	Waiting for RX	Off
Linking Mode	Linking	Blinking Blue
Linked	Linked with RX	Blue

## RX LED

Mode	Status	Power LED	Linking LED
Initial (Power on)	Boot up	White	Blinking Blue
Searching	Searching for TX	White	Blinking Blue
Linked	No Input for TX	White	Blue
	Video Format is not Recognized	White	Blue
	Video Format is Recognized	White	Blue
Standby	Power Saving Mode	White	Off

# OSD Instruction

## On Screen Display (OSD) Instruction

The Menu Button on RX allows you to add, remove, or rename TX. You can also disconnect TX here.

### To add another TX or remove existing TX

1. Press Menu Button.
2. Press Up or Down Button to select "Settings".
3. Press Up or Down Button to Select "Add New Video Source" or "Rename Video Source".
4. If you want to add video source, please press the TX Sync Button after Step.3.
5. Press Up or Down Button to select the Video source you want to add or remove.
6. Select "OK" to apply the change.

### Disconnect TX

1. Press Menu Button.
2. Press Up or Down Button to select "Settings".
3. Select "Disconnect Transmitter".
4. Select "OK" to apply the change.

### Remove TX

1. Press Menu Button.
2. Press Up or Down Button to select "Settings".
3. Select "Rename Video Source".
4. Press Menu Button to select the video source to be renamed.
5. Press Up and Down Button to move horizontally and highlight the character to be changed.
6. Press Menu Button to select the character to be renamed.
7. Press Up or Down Button to change the character.
8. Press Menu Button to confirm selected new character.
9. Press and hold Menu Button to select "Apply" or "Cancel Rename Video Source".



# Installation

## **TX Setup**

1. Connect the USB cable to TX.
2. Connect the USB cable to computer USB port or other USB power supply.
3. Connect the TX source HDMI port.

## **RX Setup**

1. Connect the power adaptor to PX.
2. Connect the adaptor into a power outlet.
3. Connect the RX with the TV or Monitor through the HDMI cable.

# Resolution Support

Video Format Timing	
640 x 480P @ 59.94/60 Hz	480P
720 x 480P @ 59.94 Hz	
720 x 480P @ 60 Hz	
720 x 576P @ 50 Hz	576P
1280 x 720 @ 50 Hz	720P
1280 x 720 @ 59.94/60 Hz	
1920 x 1080i @ 50 Hz	1080i
1920 x 1080i @ 59.94/60 Hz	
1920 x 1080P @ 50 Hz	1080P / 60
1920 x 1080P @ 59.94/60 Hz	
1920 x 1080P @ 29.97/30 Hz	1080P / 24
640 x 480 @ 59.94/72.809 Hz	VGA
800 x 600 @ 60.317/72.188 Hz	SVGA
1024 x 768 @ 60/70.069 Hz	XGA
1024 x 768 @ 60Hz	WXGA
1280 x 1024 @ 60 Hz	SXGA
1366 x 768	
1920 x 1080	

# Specification

	RX	TX
Host Interface	HDMI (Type A)	
Video	HD/Full HD	480P, 576P, 720P, 1080i, 1080P
	PC mode	VGA (640 x 480), SVGA (800 x 600), XGA (1024 x 768)
	LCD Panel	1280 x 768, 1366 x 768, 1920 x 1080
Audio	Up to 18 Mbps audio stream I2S / SPDIF: Including 5.1 Channel, Up to 48KHz 24-bit, AC3 and DTS	
Operating Frequency	5190, 5230, 5775, 5795 (MHz), without DFS	
Range	Up to 8 meters (in clean room)	
Latency	< 1ms	
Power Supply	5V, 2A micro USB Adaptor	Micro USB Cable
Power Consumption	5.5 Watt @ 1080P / 60Hz (5V / 1.1A)	3Watt @ 1080P / 60Hz (5V / 0.6A)
Standard Protocol	HDMI 1.3 / WHDI 1.0 compliance, including HDCP 2.0	
Temperature Range	0~40°C (Operating), -20~60°C (Storage)	
I/O port	HDMI port, DC-in	HDMI port, DC-in
Dimensions	92 x 82 x 32mm	93 x 32 x 15.3mm
Safety Regulatory Compliance	FCC, CE, NCC	

# Trouble Shooting

Issue	Solution
No display output on the external display	<ul style="list-style-type: none"><li>• Please make sure all cables are connected properly.</li><li>• Please check your TV / display screen is in HDMI input mode.</li><li>• Please check the distance between TX and RX. Maximum transmit distance is 8 meters and may vary from the environment.</li><li>• Unplug TX HDMI and then re-plug.</li></ul>
No audio	<ul style="list-style-type: none"><li>• Please check the resource audio setting.</li><li>• please make sure your TV / display screen volume is properly set and not in mute mode.</li><li>• Please check if the audio connectors are properly connected.</li></ul>
Video output not entirely fit the external display screen	<ul style="list-style-type: none"><li>• Please change either the source device's screen resolution or external display screen's resolution.</li></ul>