ScreenBeam 1100 Plus Wireless Display Receiver
Quick Start Guide

Congratulations on your purchase of ScreenBeam! You are on your way to the best in class wireless display experience available. The ScreenBeam 1100 Plus is a powerful tool to enable more productive and collaborative meetings using the native screen mirroring built-in to Windows 10/8.1, macOS, iOS, ChromeOS, and Android devices. It's multinetwork capabilities provide you with a flexible device designed to meet your requirements while maintaining security and providing an enhanced experience for your users.

This Quick Start Guide provides the instructions on how to install the ScreenBeam 1100 Plus receiver and get your client devices connected for wireless display and collaboration.

Before Beginning Deployment

We know you are eager to start using your ScreenBeam, however, we recommend checking our support site for the latest firmware, support documentation and tech tips to get the most out of your new ScreenBeam device. This is where you will find complete documentation for your new ScreenBeam.

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- For ScreenBeam receiver's deployment guide, firmware upgrades, and release notes, go to: https://support.screenbeam.com/1100plus

We also have tutorials and videos that can help you learn more about your new ScreenBeam receiver.

- For Miracast™ or native macOS/iOS wireless display connection tutorial, go to: https://www.screenbeam.com/setup

- For ScreenBeam Central Management System (CMS) software, go to: https://support.screenbeam.com/cms

- If you need more help, please contact us at: https://support.screenbeam.com/ticket

If you want to get nerdy and learn more about our open source information, you can find that here: https://opensource.screenbeam.com

With that out of the way, let's look at what comes in your

ScreenBeam package:

- ScreenBeam 1100 Plus wireless display receiver

- *Quick Start Guide* (this document)

- Power supply

- Regulatory documents

- HDMI cable

Setting up your ScreenBeam
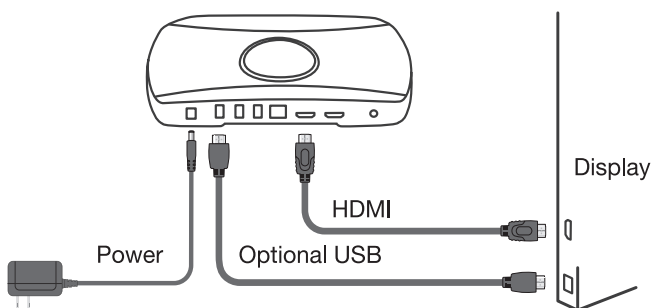
Settup is easy. All you need is your ScreenBeam , power cable, HDMIcable along with your display and laptop or tablet. So, let's get started.

1. Place the receiver next to the display.

2. Connect one end of the provided HDMI cable to the receiver's HDMI port and the other end to an available HDMI port on the display.

3. Connect the receiver's power supply to the receiver's power port, then to an electrical outlet.

4. Turn on the display and switch to the corresponding input connected to the receiver.

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5. Wait for the Ready to Connect screen to appear on the display
Optional Connections

6. If the display has USB HID touch capability, insert the HID USB connector into a USB port of the ScreenBeam receiver. (USB cable not included)

7. If you want to put your ScreenBeam on your local network (not shown in diagram), connect one end of the Ethernet cable to the receiver's Ethernet port and connect the other end to the network switch with DHCP IP. (Ethernet cable is not included).
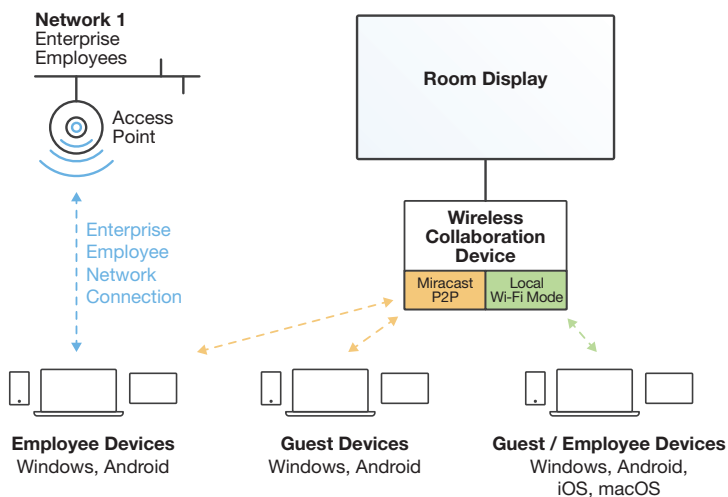
Note: Refer to our deployment guide online for more info on connecting to your network. Note your ScreenBeam can be connedted to multipe infrastructure networks simultaneously using both wired and wireless connections. Complete information is available in the online deployment guide.

8. For users that want or require a hard wire connection, connect an HDMI cable to the HDMI Input port

Your ScreenBeam and Display are now ready for wireless screen mirroring!

Connection Modes

ScreenBeam 1100 Plus offers multiple types of connections for client devices, including Miracast P2P, Infrastructure mode, or Local Wi-Fi mode. Two or more modes can operate concurrently to support various connection options allowing both internal employees and external guests to easily connect and project.

Network 1
Enterprise
Employees

Access
Point

Enterprise
Employee
Network
Connection

Room Display

**Wireless
Collaboration
Device**

Miracast
P2P

Local
Wi-Fi Mode

Employee Devices
Windows, Android

Guest Devices
Windows, Android

Guest / Employee Devices
Windows, Android,
iOS, macOS

How to Connect

Wi-Fi Miracast Connection

The Wi-Fi Miracast mode allows compatible Miracast devices to connect directly to ScreenBeam, even when simultaneously connected to an infrastructure wireless network. Miracast is commonly available on Windows 10/8.1 and Android 4.4 (and later) devices. Users can enjoy wireless display and Internet access if the client device is already connected to Wi-Fi.
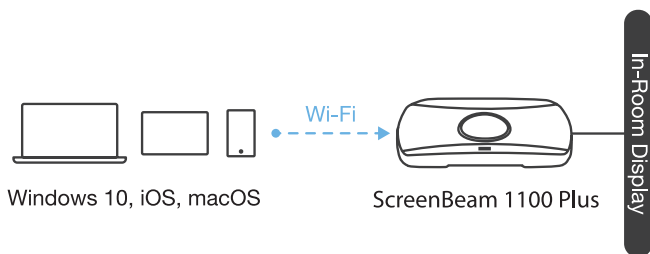
In-Room Display

Miracast
WFD

Windows 10/8.1 or Android   ScreenBeam 1100 Plus
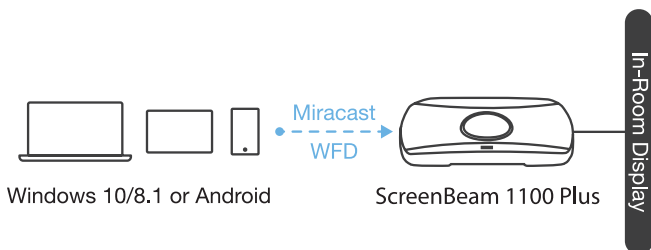
To connect via Miracast

1. Open your native Miracast Application

   • On a Windows device, hit the Windows Key + K at the same time.

   • Each Android device may call their Miracast a unique name like All Share Cast, Screen Cast, Smart Share, etc.

2. Select the receiver name for the receiver you wish to connect to (name is on Ready to connect screen).

3. Enter in the PIN if required. If the PIN code is not displayed, try the default PIN 1234.

4. Select duplicate or extended screen mode if prompted.

5. Optional: If on a Windows 10 device and you have an interactive flat panel connected, select check box to allow HID, keyboard, Pen, and Touch.

   Note: Some Android devices do not support PIN and will fail to connect. Refer to the deployment guide for instructions on how to configure ScreenBeam and disable PIN enforcement.

Local Wi-Fi Connection

The ScreenBeam Wi-Fi mode is similar to Miracast but uses the ScreenBeam device as a local Wi-Fi hotspot or network, providing a simple way for client devices to connect and project. In this mode, users need to connect their client devices to the ScreenBeam Wi-Fi network.

Windows 10, iOS, macOS — Wi-Fi — ScreenBeam 1100 Plus — In-Room Display

To connect over local Wi-Fi

1. Connect the client device's Wi-Fi to the wireless network (AP SSID) as shown on the TV display..

2. Enter the password for the wireless network. "screenbeam" is the default password.

3. To display wirelessly, you need to find the receiver on the local network connection (i.e. Select the ScreenBeam receiver name as shown on the display)

- For Windows 10 hit the Windows key and K at the same time
- For iOS or macOS Connect with ⬚ from the menu bar or control center.

4. Enter in the PIN if required. If the PIN code is not displayed, try the default PIN 1234.

5. Select duplicate or extended screen mode if prompted.

6. If the display has touch functionality, Windows 10 devices can take advantage of the touch and inking feature by selecting check box for HID devices described above

Wireless Display over existing LAN Connection

ScreenBeam 1100 Plus can also be connected to existing wireless and wired networks and supports wireless display for client devices connected to the same network. In this mode, the ScreenBeam device will connect directly to the organization's networks (wired and/or wireless) and client devices will see the ScreenBeam as a display endpoint using their native application (Windows connect, Airplay, GoogleCast,etc)
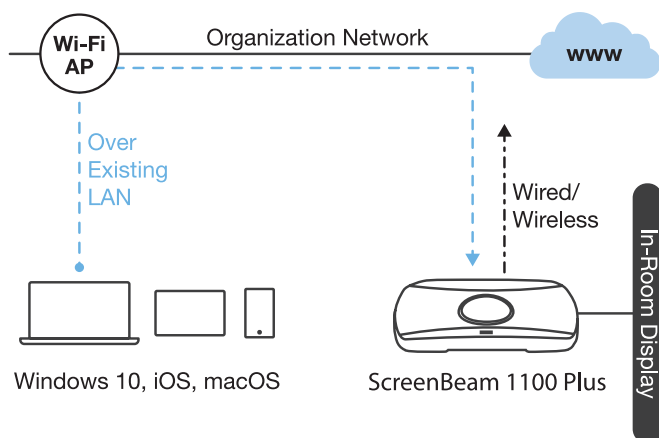
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To Connect over the LAN

1. Connect the ScreenBeam receiver to a known network where your client device can communicate over Wi-Fi.

2. Verify the receiver obtained an IP address (shown on the Ready to Connect screen).

3. Connect the client device to the same network as ScreenBeam receiver

4. To display wirelessly, you need to find the receiver on the network connection (i.e. Select the ScreenBeam receiver name as shown on the display)

- For Windows 10 hit the Windows key and K at the same time.
- For iOS or macOS Connect with ⬒ from the menu bar or control center.

5. Enter in the PIN if required. If the PIN code is not displayed, try the default PIN 1234.

6. Select duplicate or extended screen mode if prompted.

7. If the display has touch functionality, Windows 10 devices can take advantage of the touch and inking feature by selecting check box for HID devices described above.

Displaying with a connected HDMI cable

While most users will be able to connect to ScreenBeam wirelessly using their native application, there may be the occasional user that will prefer to use a wired HDMI connection and ScreenBeam can even support those users.
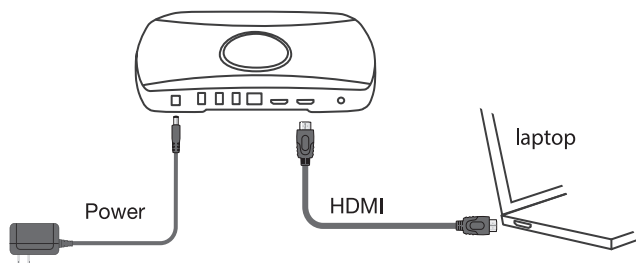
To connect with an HDMI cable, simply plug the HDMI cable into the users HDMI output port. ScreenBeam will automatically display the users screen. See the Deployment Guide for more information on how the hardwired connection works when a wireless session is already active. You can find the deployment guide here:

https://support.screenbeam.com/1100plus

Device Management

Configuring and Managing your new receiver is an important part of getting the most out of ScreenBeam. There are a number of security settings, network settings and more that allow you to configure and optimize ScreenBeam for your specific needs. To that end, we have provided you two different ways to setup, configure and manage your ScreenBeam receiver. You can access the device through a Local Management Interface (LMI) or remotely setup and manage your device through our Central Management System (CMS).

Accessing the LMI

There are 3 different ways to connect to the LMI:

Method 1-ScreenBeam Local Wi-Fi Network

1. Connect the client device's Wi-Fi to the wireless network (AP SSID) as shown on the TV display.

2. Enter the password for the wireless network. screenbeam is the default password.

3. The Ready to Connect screen on the display will show the assigned IP address of the ScreenBeam.

4. Enter the assigned IP address into the web browser of a PC or Apple device.

- If the receiver is not connected to an existing wireless network or LAN, its IP address is 192.168.26.1. z If the receiver is connected a network, the IP address can be identified on the Ready to Connect screen.

5. The browser may give an error stating "The connection or site is not secure or private." Manually accept the connection as follows:

- **Chrome browser:** click Advanced, then click Proceed.
- **Edge/IE browser:** click Details, then Go on to the webpage (not recommended).
- **Firefox browser:** click Advanced, then click Add Exception, then click Confirm Security Exception.

6. When the ScreenBeam management page appears, enter the

- Username Administrator.
- Password screenbeam (both case-sensitive).

Method 2-Network Connection via DHCP

1. Using a shielded RJ-45-terminated Cat5e or better Ethernet cable, connect the ScreenBeam Ethernet port to a DHCPenabled network.

2. The Ready to Connect screen on the display will show the assigned IP address of the ScreenBeam. Enter this address into the web browser of a PC or Apple device on the same network as the ScreenBeam.

- Follow the directions from Method 1, steps 5 and 6 if you get a browser error.

Method 3-Wireless P2P Direct Connection

1. Using a Windows 10/8.1 device, start a wireless display session listed above.

2. Once connected, use a web browser and enter https://192.168.16.1 to access the LMI.

- Follow the directions from Method 1, steps 5 and 6 if you get a browser error.

Using CMS

In addition to a best in class wireless display and collaboration experience, your ScreenBeam device does include a Centralized Management System (CMS). This allows you to manage all the ScreenBeam devices you have deployed from a central location.

To learn how to setup CMS and manage your deployment, please download our CMS Deployment Guide from our website at: https://support.screenbeam.com/cms

ScreenBeam® CMS   Wired / Wireless
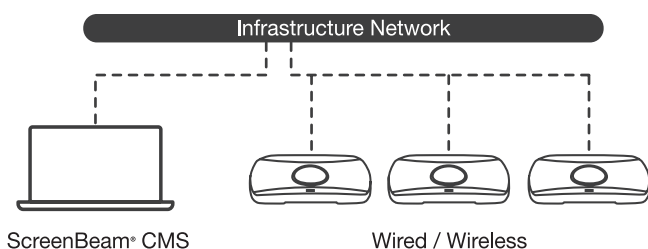
Note: Access to the LMI is prohibited by default if ScreenBeam 1100 is connected to ScreenBeam CMS for management. This option can be changed in the receiver's settings.

Note: This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked "Class 2", Listed Power Adapter or DC power source marked "L.P.S." (or "Limited Power Source") and rated 12Vdc, 3A minimum. US SKU:
Model # CDS036-W120U. International SKU: Model # ATS036T-W120V. Made by Actiontec.

General Regulatory and Compliance Notices

Important Safety Instructions

If applicable, when using telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

- Do not use this product near water – for example, near a bathtub, kitchen sink, laundry tub, or swimming pool, or in a wet basement;
- Avoid using a telephone (other than a cordless type) during an electrical storm, as there may be a remote risk of electrical shock due to lightning;
- Do not use the telephone to report a gas leak in the vicinity of the leak;
- Use only the power cord and batteries indicated in this manual;
- Do not dispose of batteries in fire, as they may explode – check with local codes for possible special disposal instructions.

Telephone Line Cord Caution

To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord.

Coaxial Cable

If applicable, the coaxial cable screen shield needs to be connected to the Earth at the building entrance per ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, "Grounding of Outer Conductive Shield of a Coaxial Cable," or in accordance with local regulation.

For Audio/Video Apparatus

This reminder is provided to call the CATV system installer's attention to Section 820.93 of the National Electric Code (NEC), which provides guidelines for proper grounding and, in particular, specifies that the coaxial cable shield shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Please heed all warnings; read, keep and follow all instructions. Do not use this apparatus near water and only clean with dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus including amplifiers that produce heat.

FCC Class B Equipment

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 and correct the interference by implementing one or more of the following measures:

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

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Actiontec Electronics, Inc, may void the user's authority to operate the equipment.

Declaration of conformity for products marked with the FCC logo – United States only.

This devices complies with Part 15 of the FCC Rules and with ISED license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference;

2. This device must accept any interference received, including interference that may cause undesired operation of the device.

ISED Regulations

This product meets the applicable Innovation, Science, and Economic Development Canada technical specifications CAN ICES-3(B) / NMB-3(B).

The Class [B] digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.

If applicable, the Ringer Equivalence Number (REN) indicates the maximum number of devices allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all of the devices not exceed five.

Important Note

If applicable, this equipment complies with FCC & ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 30 cm between the radiator and your body.

For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Users should also be advised that 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.

The maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

The transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body: Use only the supplied antenna.

For questions regarding your product or the FCC/ISED declaration, contact:

ScreenBeam Inc.
220 Devcon Drive, San Jose, CA 95112 United States
Tel: (408) 752-7700   Fax: (408) 986-8662

Avis d'application de la réglementation et de conformité généraux

Consignes de sécurité importantes

Afin de réduire les risques d'incendie, de blessures corporelles ou d'électrocution, suivez toujours ces mesures préventives de base lorsque vous utilisez votre téléphone.

- N'utilisez pas ce produit près de l'eau, par exemple, à proximité d'une baignoire, d'un évier de cuisine, d'une cuve à lessive, d'une piscine ou dans un sous-sol humide.
- Évitez d'utiliser un téléphone (autre qu'un sans fil) pendant un orage électrique; les éclairs peuvent être à l'origine d'une électrocution.
- N'utilisez pas le téléphone pour rapporter une fuite de gaz à proximité de celle-ci.
- N'utilisez que le cordon d'alimentation et les piles indiqués dans ce guide.
- Ne jetez pas les piles dans le feu, car elles peuvent exploser. Consultez les autorités locales afin de connaître les instructions de recyclage des piles.

   Mise en garde concernant le cordon téléphonique

   Pour réduire les risques d'incendie, utilisez seulement un cordon téléphonique 26 AWG ou plus large (p. ex., 24 AWG) répertorié UL ou certifié CSA.

Câble coaxial

S'il y a lieu, l'écran protecteur du câble coaxial doit être mis à terre à l'entrée du bâtiment, conformément au paragraphe 820.93 du Code national de l'électricité, ANSI/NFPA 70, "mise à terre de l'écran conducteur externe d'un câble coaxial", ou conformément à la réglementation locale.

Pour appareils audiovidéo

L'objet du présent rappel est d'attirer l'attention de l'installateur du système de télédistribution sur l'article 820.93 du National Electric Code (NEC), qui contient des lignes directrices sur la bonne manière de mettre le circuit à la terre et, plus précisément, il mentionne que le blindage du câble coaxial doit être raccordé à l'installation de mise à la terre du bâtiment, aussi près du point d'entrée du câble que possible.

Veuillez porter attention à tous les avertissements et lire, conserver et suivre toutes les consignes. Ne pas utiliser l'appareil à proximité d'eau et le nettoyer uniquement à l'aide d'un chiffon sec.

N'obstruer aucune des prises d'air de ventilation. Installer l'appareil conformément aux instructions du fabricant. Ne pas installer l'appareil à proximité d'une source de chaleur comme un radiateur, un registre de chaleur, un four ou tout autre appareil produisant de la chaleur, notamment un amplificateur.

Équipement de classe B

Ce matériel a été contrôlé et satisfait aux limites imposées pour les appareils numériques de classe B, conformément à l'alinéa 15 de la réglementation FCC. Ces limites sont destinées à assurer une protection raisonnable contre les interférences dans un environnement résidentiel. Cet appareil produit, utilise et peut émettre de l'énergie haute fréquence et, s'il n'est pas installé et utilisé conformément aux instructions, il peut provoquer des interférences dans les communications radio. Cependant, les risques d'interférences ne peuvent pas être totalement exclus. S'il constate des interférences lors de la réception d'émissions de radio ou de télévision (il suffit, pour le constater, d'allumer et d'éteindre successivement l'appareil), l'utilisateur devra prendre les mesures nécessaires pour les éliminer.

- Réorientez ou déplacez l'antenne réceptrice.
- Éloignez l'équipement de l'appareil récepteur.
- Branchez l'appareil sur une prise ou un circuit différent de celui de l'appareil récepteur.
- Consultez le revendeur ou un technicien de radio ou de télévision expérimenté.

Modifications

Conformément à la réglementation FCC, tout changement ou modification non autorisé explicitement par Actiontec Electronics, Inc. est de nature à priver l'utilisateur de l'usage de l'appareil.

Déclaration de conformité des produits munis du logo FCC, États-Unis uniquement.

Cet appareil est conforme à l'alinéa 15 de la réglementation FCC et avec ISED exempts de licence standard RSS. Son fonctionnement est soumis à deux conditions:

   1. il ne doit pas provoquer aucune interférence gênante;

   2. doit pouvoir supporter toute interférence reçue, y compris celles susceptibles d'en affecter le fonctionnement.

ISED

Le présent matériel est conforme aux spécifications techniques applicables d'Innovation, Science et Développement économique Canada CAN ICES-3(B) / NMB-3(B).

Cet appareil numerique de la class [B] repecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

Le cas échéant, le numéro d'équivalence de sonnerie (REN) indique le nombre maximum de dispositifs pouvant être connectés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison de dispositifs, à la seule condition que la somme des IES de tous les appareils ne dépasse pas cinq.

Remarque importante

Cet appareil respecte les limites d'exposition aux radiations de la FCC/ISED, définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 30 centimètres entre le radiateur et votre corps.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

Le dispositif pourrait automatiquement cesser d'émettre en cas d'absence d'informations à transmettre, ou une défaillance opérationnelle. Notez que ce n'est pas l'intention d'interdire la transmission des informations de contrôle ou de signalisation ou l'utilisation de codes répétitifs lorsque requis par la technologie.

Les dispositifs fonctionnant dans la bande 5150-5250 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;

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 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

Le transmetteur ne doit pas être situé ou fonctionner en conjonction avec une autre antenne ou un autre transmetteur.

Pour toute question concernant votre produit ou la déclaration de conformité des produits munis du logo FCC/ISED, veuillez vous adresser au service suivant:

ScreenBeam Inc.
220 Devcon Drive, San Jose, CA 95112 United States
Téléphone: (408) 752-7700   Télécopieur: (408) 986-8662